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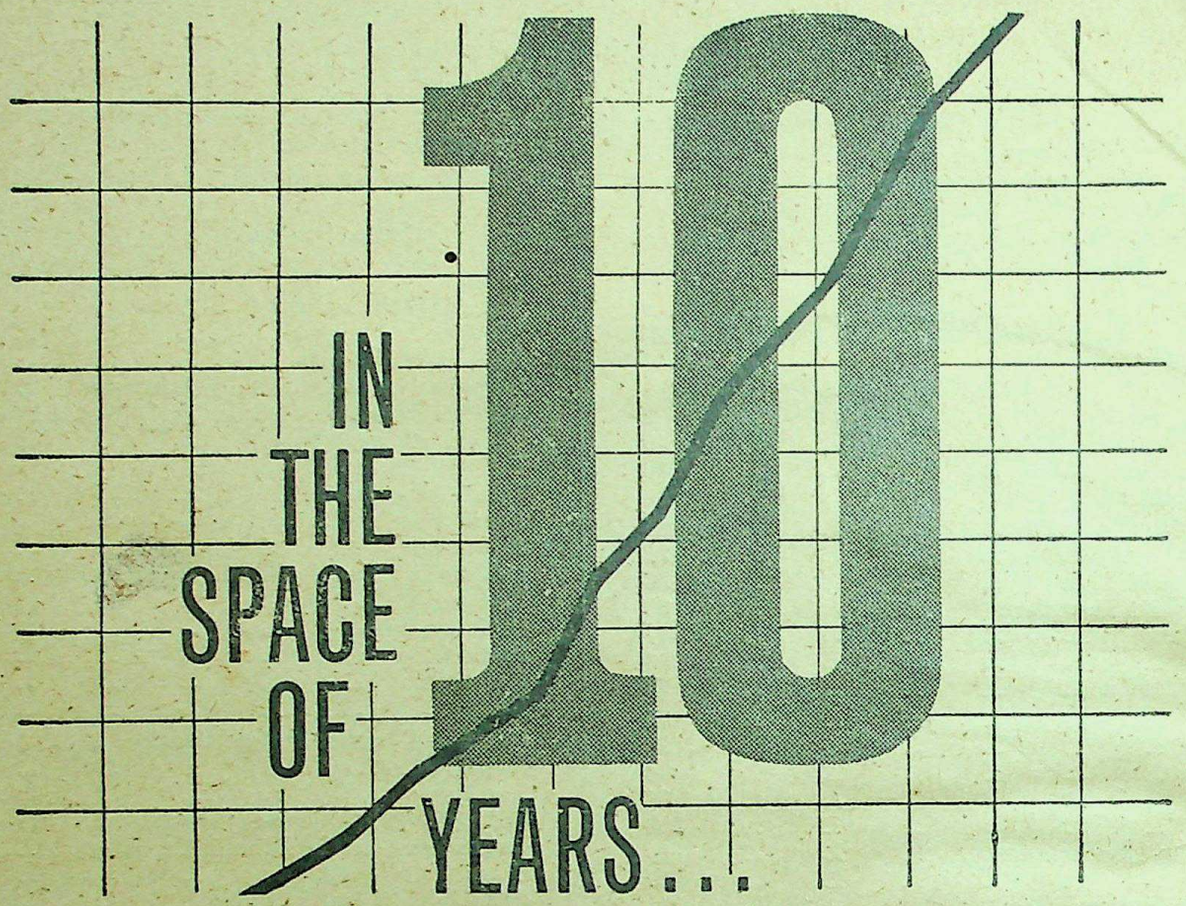

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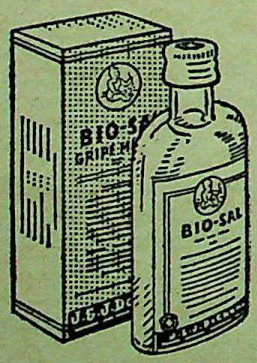

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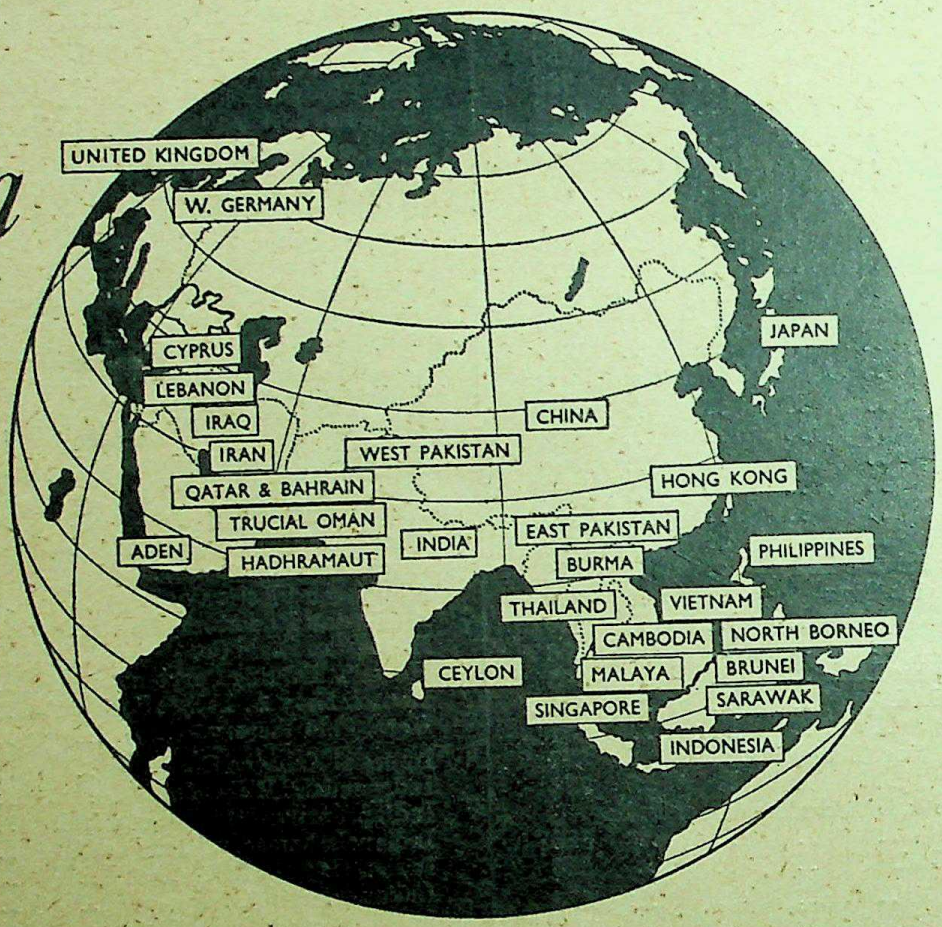

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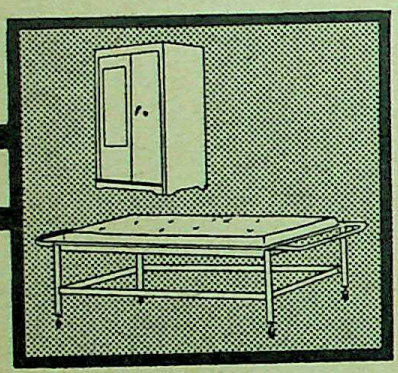

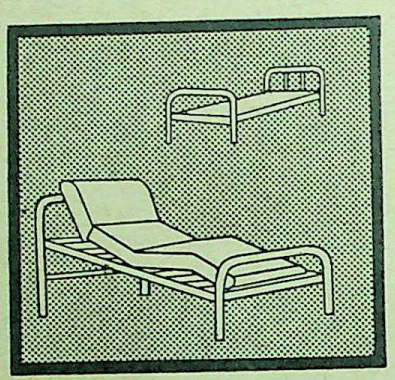

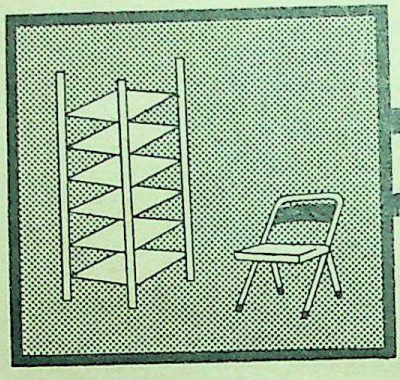

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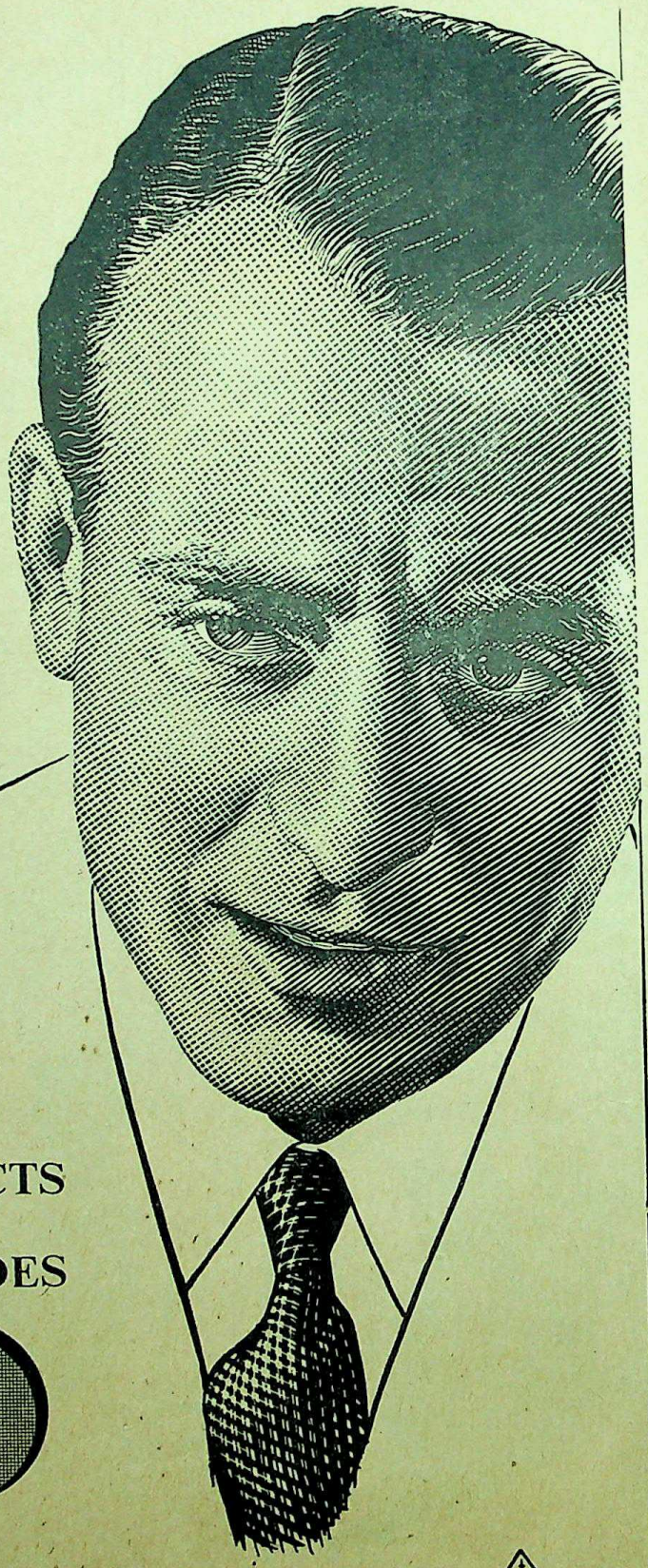

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for
ALL WOODWORKING TRADES

OAKEY

IN BELTS - DISCS - SHEETS & COILS

JOHN OAKEY & SONS LTD · WELLINGTON MILLS · LONDON · S.E.1

OA 212

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High
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Chemical

LIME

96.89% PURE CALCIUM

(Certified by the Government)

Throughout India Used in

Sugar Factories
High Explosive Factories
Iron & Steel Factories
Textile Mills
Leather Tanneries
Chemical Works
Glass Factories & Potteries
Paper & Straw Board Mills
Tea Gardens
Water Softening
Building Construction, Etc.

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Biggest Manufacturers & Suppliers of
High Grade Lime Anhydrous, Limekali & Limestone in India

FOR PARTICULARS WRITE TO :—

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Phone : 261 **Grams : "MUNDWALIME"**

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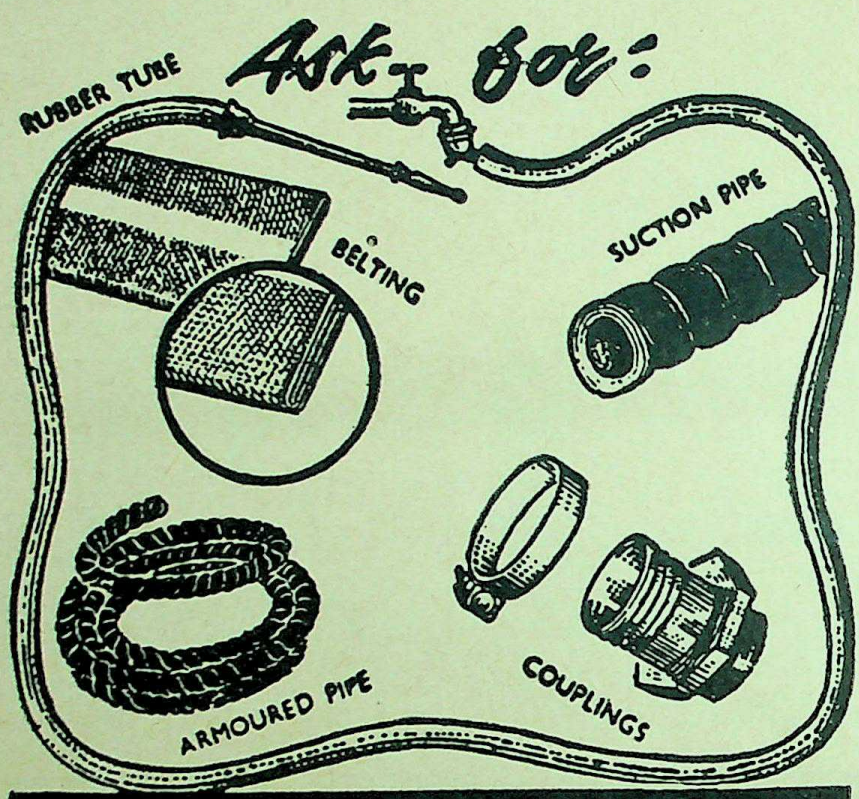

SWASTIK INDUSTRIAL MILL STORES

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THE PARSHURAM POTTERY WORKS CO. LIMITED

MORVI

Factories at : Morvi, Than Jn., Wankaner Jn., Dhrangadhra (Saurashtra)

Manufacturers and Large Suppliers of :

Crockeryware :

Cup-saucers, Tea-sets, Dinner-sets, Dishes, etc. both plain and decorated.

Sanitaryware :

All types of Closets, Wash-hand Basins, Sinks, Urinals, Foot-rests, etc. Stoneware Salt-Glazed pipes and fittings for drainage, Glazed Tiles.

Earthenware :

Jar—Simple and Screwed, Acid Batlas Stoneware, Ink Bottles and all other types of Chemical Stoneware & Stoneware Pipes & fittings.

Electrical Porcelain :

Electrical Porcelain Pipes of various sizes, Spacing Insulators, etc.

Refractories :

Both Standard and high Alumina refractories, Seating Blocks, Flue-Covers, and all types of fireclays.

Hollow Clay and Reinforced Clay Blocks—a speciality for low cost housing.

INQUIRIES SOLICITED

THE UGAR SUGAR WORKS LIMITED

SANGLI (S.M.C.)

(Estd. 1939)

★

Factory is situated at Ugar-Khurd, a small village on the left Bank of River Krishna.

Transport facilities are easy as the Factory is only a mile away from the Railway Station Ugar-Khurd, on Southern Railway on Miraj-Belgaum main line.

Factory has got its own estate for sugar-cane, grown by lift irrigation.

Present Factory capacity is 800 tons. Expansion Licence has been granted for 1,200 tons and application has been made for expansion to 1,700 tons.

The Factory has got Licences for the manufacture of Industrial Alcohol from Molasses and of Writing and Printing Paper from sugarcane bagasse. Both these schemes are under consideration.

The Factory produced about 1,74,126 bags of sugar in 1960-61.

Controlled and most efficiently managed by

Messrs. SHIRGAOKAR BROTHERS

the Managing Agents of the Company.

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Import or Export

THE UNION BANK OF INDIA LIMITED

can help you solve your problems on

FOREIGN EXCHANGE

With a network of branches throughout India
and correspondents all over the World
we transact all kinds of
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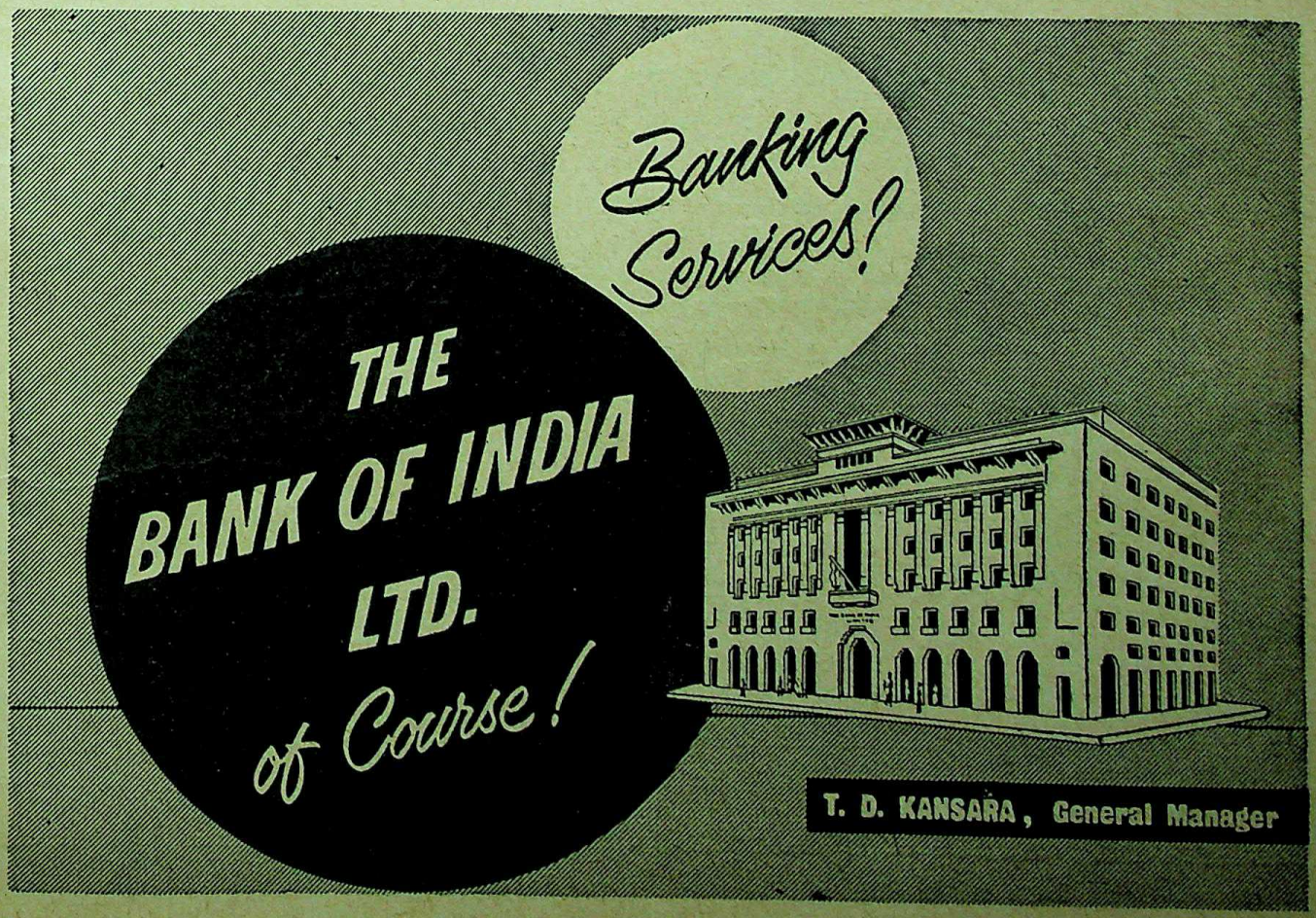
Head Office:
Union Bank Building, Apollo Street,
Fort, Bombay-1.

F. K. F. Nariman,
General Manager.



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AT HOME and Abroad

- current accounts
- savings fund deposits
- fixed deposits
- cash certificates
- discounting of bills
- foreign exchange
- safe deposit vaults
- advances

With over 390 offices strategically situated throughout the country, and an efficient network of Agency arrangements overseas, The Punjab National Bank is well equipped to offer Banking facilities of every description.

THE PUNJAB NATIONAL BANK LTD.
Established 1895
Head Office : New Delhi

THE BINOD MILLS COMPANY LIMITED, UJJAIN

(Including THE DEEPCHAND MILLS)

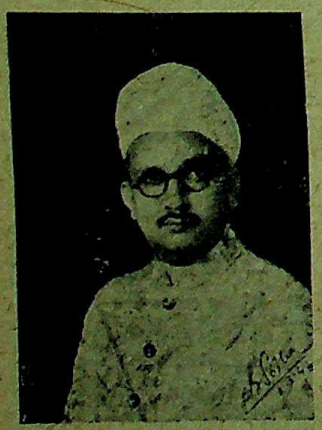
Established in 1914 under the Patronage of H. H. Maharaja Scindia.

Paid-up Capital Rs. 60,00,000 • Divided into Shares of Rs. 100 each.

Cotton Spinners, Weavers and Manufacturers of Absorbent Cotton Wool and Lint Cloth, Art Silk Fabrics, Textile Auxiliaries, Oils, Spindle Tape, Art Silk Ribbons and small Oil Engines, Dyeing and Bleaching Machinery, Cast Iron Pipes and Specials, Machinery Spare Parts, etc.

UJJAIN - MADHYA PRADESH

Telegrams : "BINOD". Phone Nos. 95 & 96 Mills ; 11 Director. Codes used : A B C 5th and 6th Editions and Bentley's.



Rai Bahadur Seth Lalchand B. Sethi, President.

Total No. of Spindles at work—Binod & Deepchand : 60,640; Total No. of Looms at work—Binod & Deepchand : 1,306 ; Silk Looms 82. Total No. of hands employed : 4,500.

Sole Selling Agents :
Messrs. Binodiram Balchand & Sons.

Auditors :
Messrs. S. B. Bilimoria & Co., *Registered Accountants.*

Type of goods produced :
All kinds of Dyed, Bleached, Printed, Grey Cloth, Absorbent Cotton Wool and Lint Cloth, Satins, Voiles, Georgettes and Nylon Etc.

Other Concerns : Binod Silk & Art Silk Mills, Bhupendra Iron and Metal Works, Naresh Ginning and Pressing Factory, Naresh Oil Mills, Narendra Chemical Works, Absorbent Cotton Wool Factory, Pradeep Tape and Webbing Factory at Ujjain, Rajendra Pressing Factory at Agar.

Other Directors : 1. Dahyabhai Shankerbhai Patel, 2. Vanijya Bhushan Seth Nemichand B. Sethi, 3. Seth Bhanwarlal D. Sethi, 4. Danvir Seth Mannalal Omkarmal, 5. Seth Jawerilal Ramlal Gangwal, 6. Mr. R. C. Jall, M.A., LL.B., 7. Mr. Kailashchand B. Sethi, 8. Shri Chandmal Agrawal, 9. Shri Bhupendrakumar Sethi.

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"With the release of such powerful technological and social forces as can now be seen, society has to be increasingly socialistic and the private enterprise must be controlled by the needs of the public good."

—JAWAHARLAL NEHRU

S.T.C. is an institution for public good. It is there to supplement and not to supplant private sector organisation.

STC's TRADE STATISTICS

(Value in Rs. lakhs)

	1957–58	1958–59	1959–60 (9 months)
Exports (sales value)	2,079·46	2,228·12	2,331·98
Imports (purchase value)	497·79	1,131·59	1,345·39

THE STATE TRADING CORPORATION OF INDIA LIMITED

(A Government of India Undertaking)

Post Box No. 79, New Delhi.

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Your requirements of

REFRACTORIES

Moderate, Medium and High Heat duty; High Alumina, Glass Tank and low Porosity Bricks

POTTERIES

Sanitarywares and other Stonewares

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Please Contact:

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P. O. Dhansar

Dist. Dhanbad (Bihar)

The Digvijay Tiles & Potteries Ltd.

INDIA

FACTORIES AT

JAMNAGAR Grams : "POTTERY"

VAGADIA Phone : 185

At our above factories

We Manufacture

Superior quality Earthenware Crockery of various types, shapes and decorations.

Semi-Porcelain Domestic Crockery. Pickle and Acid Jars.

Refractories: Common and Special Tiles and Sanitaryware

Our Products are

INDIA'S PRIDE IN POTTERY

We have large variety to offer to suit every market and taste

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OFFERS

COMPLETE BANKING SERVICE

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Current Accounts ● Saving Bank Accounts ● Fixed Deposits ● Loan, Overdraft and Cash Credit Accounts ● Discount of Bills and Hundis ● Safe Custody ● Foreign Bills and Letters of Credit ● Travellers Cheques and Cash Certificates ● Demand Drafts ● Telegraphic Transfers ● Executor and Trusteeship ● Safe Deposit Lockers

*

Over 135 offices in India + 11 offices abroad

Correspondent banks in the principal cities of the world

Capital Authorised	...	Rs	3,50,00,000
Capital Subscribed	...	Rs	3,00,00,000
Capital Paid-up	...	Rs	1,50,00,000
Reserve Funds	...	Rs	1,61,14,860
Deposits	...	Rs	84,98,23,868
Working Funds	...	Rs	1,09,86,20,584

THE BANK OF BARODA LIMITED

(Estd. 1908)

Head Office : Baroda

STATE BANK OF HYDERABAD

(Subsidiary of the State Bank of India)
Incorporated in India under special statute:
The liability of the members is limited.

All types of Banking and Foreign Exchange Business undertaken through H. O. and branches.

ANDHRA PRADESH: Head Office in Hyderabad and 27 branches, including 4 in Hyderabad

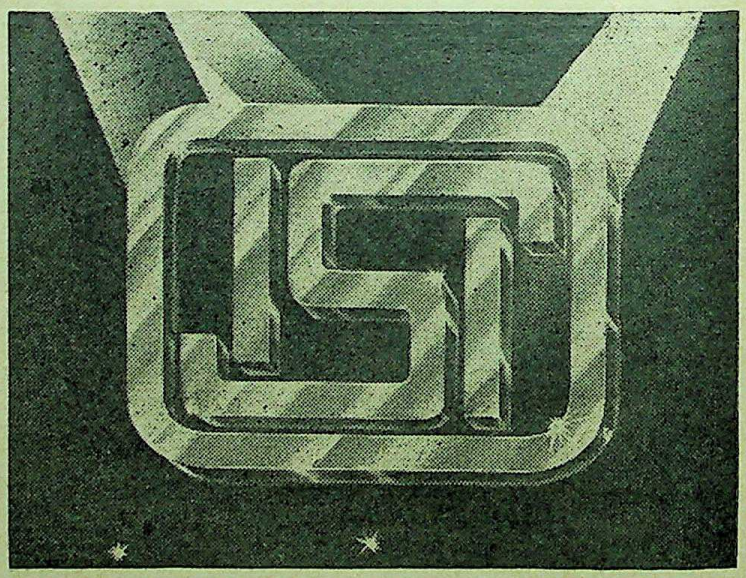
BOMBAY STATE: 16 branches, including 2 in Bombay City

SBH

MYSORE STATE: 6 branches

MADRAS STATE: 1 branch in Madras City

SISTA'S-SBH-1



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BHARAT TRADING CO.
71, Nagdevi Cross Lane,
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Direct Importers, Distributors & Stockists of all types of Industrial & Automobile Bearings.
PHONE: 29250. GRAMS : "FANBEARING"

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(with Test Certificate)

M. J. PATEL & CO.
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Stockists of G.I., C.I. and Steam Pipes & Fittings, Boiler Tubes & Valves.

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(Established 1948)
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'GRAMS : "LALITKIRTI."

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Phone : 23833 'GRAMS : "CHUTNEY"
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Manufacturers of Hard Drawn Bare Copper Conductors, Binding Wires, Tinned Wires, Stranded Conductors, Rods, Strips and Non-ferrous Metal Semis of all description.
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Cable : "COPPERWIRE" Phone : 529.

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Visit

THE GUPTA CYCLE COMPANY
172, Princess Street,
BOMBAY No. 2.
Manufacturers' accredited Dealers of Hercules, Raleigh, Humber, Robinhood, Royal Supreme, Atlas, Eastern Star and Dunlop Tyres & Tubes.
'Phone : 27788. 'GRAMS : "GUPTACYCLE."

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Artists' Materials, Surveying and Mathematical Instruments

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ALLIANCE ELECTRIC MART
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Authorised Main Dealers for
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Suppliers to Shipping Companies, Railways, etc.
Phone : 39229.

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BOMBAY-1
Phone : 263575. Grams : "AMERICTRIC."

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'GRAMS : "BIBIELECT". Phone : 30795.
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In the Service for Mankind's Modern Living...Electrically Since 1913

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Grams : "BIPINDEV." Phone : 30684.

ELECTRICAL GOODS
Specialists in Pipes, Fittings, Wires & Switchgears.
Stockists of Everything Electrical.
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National Conduits Private Ltd., Dahisar.

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ELECTRICAL GOODS

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Bombay 2.
Phone : 29715. Grams : "SARVADHAR."

ELECTRICAL GOODS

INDIA ELECTRO TRADERS
Dealers in everything Electrical. Stockists of H.D.B. Copper Wire & Strips (solid drawn), Conduit Pipes, I.C. Switchgears, Steel Tubular Poles, D.C.C. Wires, Insulating and Winding Materials, etc.
151, Princess Street, Bhabha Building,
Post Box No. 2504,
Bombay 2.
Phone : 23338. Grams : "INDELECTRO."

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TRADE DIRECTORY FOR BUYERS

ELECTRICAL GOODS
INTERNATIONAL ELECTRIC TRADING CO.
63, Princess Street, 1st floor, BOMBAY 2.
Direct Importers & Distributors of M.E.M. I.C. Switches, Fuse Units & Motor Control Gears, Conduit Pipes & Conduit Accessories, Fans, Meters, Wires & Cables, Fluorescent Tubes and its Accessories, Electric Lamps and accessories and Copper Wire.
Phone: 20613. Grams: "INTERLITE".

ELECTRICAL GOODS
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NATIONAL SUPPLY & DISTRIBUTING AGENCY
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LAXMI ELECTRIC TRADING CO.
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Stockists of everything electrical including appliances, fans, lighting. Also Radio and Refrigeration parts, etc.
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RAICHAND & SONS
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Direct Importers of Electrical Goods.
Phone: 23838. GRAMS: "PARAMITE."

ELECTRICAL GOODS
Phone: 264883. Grams: "BEWITCH"
RAVIN TRADING COMPANY
5, Mohtta Market, Palton Road, Bombay 1.
Dealers in Everything Electrical Specialists in H.T. & L.T. Insulators, Wires & underground Cables, Switch & Motor control gears etc.

ELECTRICAL GOODS
S. K. & COMPANY
Gopal Nivas, 133, Princess Street, BOMBAY 2.
Phone: 30026.
Dealers in everything Electrical.
Stockists of Fluorescent Lamps and other Accessories.

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182, Zaveri Bazar, Bombay 2.
Direct Importers, Exporters and Stockists of all types of Electric Accessories, Autowires, Lamps, Insulating Materials and Fluorescent Tubes, Starters & Condensers.
Phone: 38722. Grams: "DIPOTSAVI."

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THE UNIVERSAL ELECTRIC CO.
(Estd. 1930)
Direct Importers of Electrical Accessories. Main Stockists of "G.E.C." Products and OSRAM Lamps.
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Phone: 23744. GRAMS: "CABTYRE."

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Reliable House for Electrical Requisites.
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Direct Importers & Stockists of W. Canning & Co. Ltd. (England) Products; Manufacturers of "Universal" Trade Mark (Indigenous) all Electroplating & Polishing Materials and Equipments in conformity to B.S.S.; Sole Agents in India for German "TACO" Brand Graphite and Silicon Crucibles, Belgium Felt Bobs, Cadmium and Bismuth Metals, American Nickel Anodes. Also Paraglas Austrian Plastic Sheets.
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Furnishers and Interior Decorators, Painting Contractors, Dealers in Electric Fittings, Venetian Blinds, Iron Grills and Shutters, Complete Home & Office Furnishing — Authorised Dealers in Dunlopillo Cushions, Salva Mattresses, and AZOK Folding Chairs — Also Furniture on Hire.
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Manufacturers of Bottles and Glassware.
111, Bhandari-Chakla Street, Bombay 3.
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Phone: 30063. GRAMS: "GLASSBOTS"

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Importers, Retailers and Distributors in High Class Indian and Foreign Crockery, Glassware, Lampware, Enamelledware, Cutlery, Corks, Domestic Hardware, etc.
Phone: Office: 39248. Res.: 245491.
Grams: "GLASSWOOL."

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Phone: 30062. Grams: "WHEELBRAND."

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C. S. POCHEE & SON
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Phone: 30415. GRAMS: "GASMANTLES."

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TRIBHOVANDAS BHIMJI ZAVERI
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Factory : 85, Mori Road, Mahim, BOMBAY 16.

Factory : 65610. Phone : 72587.

Grams : "EKMITILE."

MARBLE & TILES

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Tiles, Marbles, Shahabad Stone, Mosaic Tiles, Merchants & Contractors.

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Phones : Resi. : 27185. Office : 72699. Grams : "TILERIES."

MARBLE, TILES & SANITARYWARES

Imported & Indian

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Also Bath-tubs, Fittings, Broken Tiles, Mosaic Sanitarywares, Cement Waterproofers, Concrete Hardeners, Acid & Alkali Resisting Cements.

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Phone : 251452.

Grams : "FASHION."

MARBLE, TILES, SANITARYWARES

N. M. MEHTA & CO.

(Estd. 1915).

Direct Importers of Marble Glazed Tiles, Sanitaryware & Appliances, Distributors for "Fordham" Flushing Cisterns, Sole Agents for "Waterlock" Cement Waterproofing Compound, Authorised Stockists for "Everest" A. C. Pipes and Fittings.

4-10, Old Custom House Road, Fort, BOMBAY 1.

Phone : 255047.

Grams : "EMBOSSED."

MARBLE, TILES, SANITARYWARES

for

Italian Marble, Bathroom white and coloured Tiles, Sanitarywares and Fittings, etc.

Contact :

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Phone : 252772

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Phone : 72547 Grams : 'ARASPAHAN'

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Specialists in "Jagger's" Bus Body Fittings. Auto Seat Covers, Rubber Matting etc. & Stockists of P.V.C. Leather Cloth Mfgd. by NATIONAL LEATHERCLOTH MFG. CO., BOMBAY.

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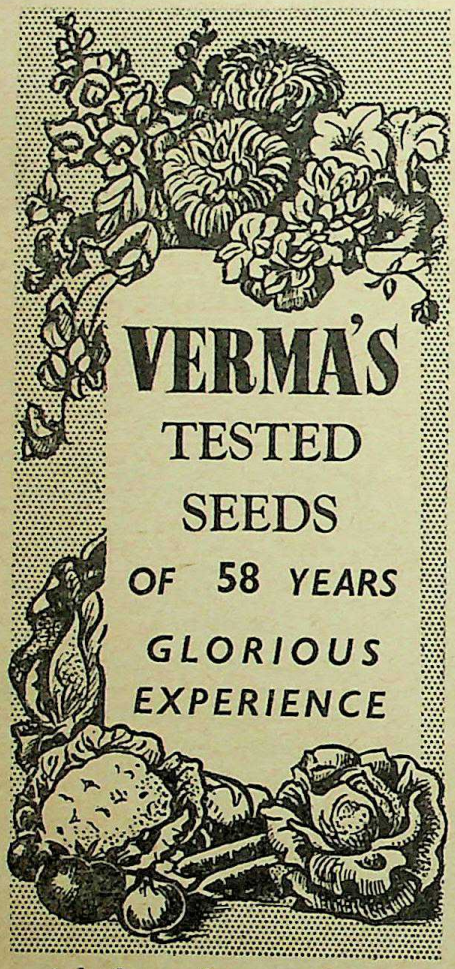

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PHYSIOGRAPHY

GEOGRAPHICALLY the mass of land today called India consists of the territories contained in the Union of India and the Portuguese possessions of Goa, Daman and Diu.

The State of Pondicherry, Karikal, Mahe and Yanam (formerly French) is a *de facto* but not *de jure* part of India, though a treaty for a *de jure* transfer has been signed. This treaty awaits ratification by the Governments of India and France.

STATES, TERRITORIES

The country is divided into 16 States and six Territories. The latter are under Central administration.

The 16 States (with the capital towns in brackets) are:

Andhra Pradesh (Hyderabad), Assam (Shillong), Bihar (Patna), Gujarat (Ahmedabad*), Kerala (Trivandrum), Madhya Pradesh (Bhopal), Madras (Madras), Maharashtra (Bombay), Mysore (Bangalore), Nagaland (Kohima), Orissa (Bhubaneshwar), Punjab (Chandigarh), Rajasthan (Jaipur), Uttar Pradesh (Lucknow), West Bengal (Calcutta), Jammu and Kashmir (Srinagar).

The six Territories (with capital towns in brackets) are:

The Andaman and Nicobar Islands (Port Blair), the Laccadive, Minicoy and Amindivi Islands (temporary headquarters: Kozhikode, Kerala), Delhi (Delhi), Himachal Pradesh (Simla), Manipur (Imphal), Tripura (Agartala).

These States and Territories with the exception of Maharashtra, Gujarat and Nagaland came into being on 1st November 1956.

Maharashtra and Gujarat came into being from a break-up of the original Bombay State on 1st May 1960. Nagaland came into being on Feb. 18, 1961.

In addition there is one territorial unit: The North-East Frontier Agency.

GEOGRAPHY

India is about 1,700 miles from east to west, and about 2,000 miles from north to south. Its land frontier is about 8,200 miles long and the sea frontier about 3,500 miles.

The total land area is 1,269,640 sq. miles.

At the time of writing (March 1961) the 1961 census are in progress. For figures see '*Late Particulars*'. According to the 1951 census the total population was 356,879,394†, a little less than one-sixth of the population of the whole world.

This population grows roughly at the rate of about four and half millions a year.

The land frontier with Pakistan is about 4,615 miles long (east and west together). Of this about 2,810 miles are demarcated.

In shape India is like a triangle with its base resting on the Himalaya Mountains in the north and its apex running far into the ocean in the south. At the southern extremity the triangle tapers with a pear-shaped curve to a point called Cape Comorin.

India lies entirely to the north of the equator. From south to north including Kashmir, it stretches from 8° north latitude to 37° north latitude, with the Tropic of Cancer cutting it roughly into two halves. West to east it stretches from about 66° 20′ east longitude to 97° east longitude.

Broadly speaking, India is shut off from the mainland of Asia by the Himalaya Mountains, the highest mountain range in the world. Going from west to east along the country's land frontier are Pakistan, Chinese Turkestan, Tibet, China, Burma and Pakistan.

In the south, the country is surrounded on all sides by water—the Arabian Sea in the west, the Indian Ocean in the south and the Bay of Bengal in the east.

India is so vast and diversified that expressions like 'average rainfall,' 'average temperature' have no meaning. The average annual rainfall in the Thar desert is 4 inches, while that in Cherrapunji is 425.

Similarly places in Kashmir have a minimum temperature of 49° F. while places in Rajasthan have recorded a maximum temperature of 120° F. So one can only speak of local averages rather than of national averages.

Compared with the size of the country, the coast-line is short, as there are few bays or inlets. Hence there are also very few harbours. The fact is the west coast is rocky and the sea is deep near the coast, while in the east the sea is extremely shallow so that big ocean-going ships have to weigh anchor at some distance from the shore.

The only so-called natural harbours are Bombay and Goa, while Madras, Vishakapatnam and Port Okha are examples of purely artificial harbours built by human enterprise.

The principal ports in India are (going from west to east along the coast), Kandla, Bedi Bunder, Port Okha, Porbandar, Surat, Bombay, Marmugao, Mangalore, Kozhikode (Calicut), Cochin, Alleppey, Quilon, Tuticorin, Dhanushkodi, Nagapattinam, Karikal, Cuddalore, Pondicherry, Madras, Masulipatnam, Kakinada, Vishakapatnam and Calcutta.

Of these, Marmugao belongs to Portugal while the rest are in the Republic of India.

MOUNTAIN WALL

India can be divided into three natural regions—1. the mountain wall, 2. the Plain of Hindustan, and 3. the Indian Plateau.

Let us take the mountain wall first. From the Pamir Knot in the far north two mountain ranges radiate one in the south-east and easterly direction called the Himalayas, and the other in a south-western direction reaching almost down to the sea, called the Sulaiman Range in the north and the Kirthar Range in the south.

In the east the mountain wall between India and Burma is called by different names in different places. In the north, for instance, it is known as the Patkoi Hills, further south as the Naga Hills. In Assam it is called Jaintia, Khasi and Garo. Southward are the Lushai Hills, then lastly there are the Arakan Yoma which finally reach the sea at Cape Negrais and continue in the Andaman and Nicobar Islands.

Of the various ranges which constitute the mountain wall of India the Himalayas are the most noteworthy. Extending like a scimitar for a distance of 1,500 miles along the northern frontiers of the country they form the loftiest mountain range in the whole world, and contain many of the highest mountain peaks, Mount Everest 29,141 ft., Mount Godwin Austen 28,250 ft., and Kanchenjunga 28,146 ft.

There are no easy ways in and out through the mountain wall which shuts off India from the rest of Asia, but there are a few difficult passes. In the very north are the Zojila Pass and the Shipki Pass which lead out of Kashmir and Punjab respectively. Then from Shipki right down to Darjeeling there is no route across the mountain wall. Across the Burma frontier again there are a few routes but they are of little use for purposes of communication.

The following is a more detailed description of the mountain region.

In the east on the border of Burma the mountain wall is much lower. Here it can more accurately be described as a range of hills rather than of mountains. This region is wet, forested and very thinly populated. The region round about Cherrapunji in Assam has the highest rainfall in the world.

Then from Darjeeling to Kashmir are the Himalayas proper, over 1,500 miles in length and 150 to 300 miles in breadth. The Himalayas are thus not a mountain chain in the proper sense of the word. They can be described as a series of parallel but converging ranges intersected by valleys and big plateaus.

Hence the Himalayas themselves can be further sub-divided into three parallel zones, the Great Himalayas with an average elevation of 20,000 ft., always covered with snow; the Lesser Himalayas, the middle range, with an average elevation of 15,000 feet; and finally the Outer Himalayas lying between the Lesser Himalayas and the plains with an average elevation of about 3,500 feet.

Two of the longitudinal valleys which separate the mountain ranges are worth a note. They are the Vale of Kashmir and the valley of Katmandu in Nepal. Both the valleys are fertile, extensive and from a tourist's point of view a dream of beauty.

PLAIN OF HINDUSTAN

Geologically, the Ganges plain can be considered as the fore-deep of the mountains to the north of it. This fore-deep extends thousands of feet below the sea-level, though since its formation it has been filled in by deposit. In the east this deposit consists of alluvial material from the mountains, in the west it consists of material blown by the wind. All through the deposit is fine grained made up chiefly of muds and sands.

The Plain of Hindustan extends from the Bay of Bengal in the east to the Pakistan frontier in the west; that is to say, it is about 1,500 miles long and from 150 to 200 miles broad. Throughout this vast tract of land not a hill can be seen. The slope from the mountains to the sea is so gradual that about 100 miles from the mouth of the River Ganges the surface is no more than 500 feet above sea-level.

The Plain of Hindustan is probably the most important part of the country. For one thing, it contains some of the richest soil in the world. Second, it is on the Plain of Hindustan that the whole drama of race conflict and race assimilation was played out, a drama which finally shaped the political and cultural destiny of both India and its neighbour Pakistan.

Going into more detail the Plain of Hindustan is formed by the basins of three distinct river systems. In the far west are the Beas and Sutlej, tributaries of the Indus draining into the Arabian Sea. Further east is the River Ganges with its tributaries the Jamuna, Gogra, Rapti and Gandak which flows south-eastwards into the Bay of Bengal. The capital of the Indian Republic Delhi stands on the water-shed between the Indus and the Ganges river basins. The third of the three river systems, the Brahmaputra rises beyond the Himalayas, turns east and enters India at its eastern extremity and joins the Ganges before reaching the Bay of Bengal. The Brahmaputra has no important tributaries.

The rivers of Hindustan are notable in three respects: 1. They give a constant supply of water, 2. The land through which they flow is broad, flat and fertile and eminently suitable for irrigation, 3. Because water flows perennially they are navigable through the greater part of the year.

As we go from west to east in the plain rainfall increases and so do the fertility of the soil and the density of population.

* Actually a new capital is to be built outside the city. † Excluding Kashmir, the population of which was estimated at 4·41 millions in 1951.

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INDIAN PLATEAU

The third of the natural regions into which the country is divided is called the Indian Plateau because it comprises a three-sided table-land covering the whole of the country in the south except for two narrow coastal strips in the east and the west.

The Indian Plateau is marked off from the Plain of Hindustan by a confused mass of hill ranges running with a general direction of east to west. Three of these ranges have been distinguished by the names of Vindhyas, Satpuras and Ajantas respectively. They stand from 1,500 feet to over 4,000 feet high and though pierced by road and railway at the present time were not easy to cross in the old days and thus formed a barrier of hill and jungle between the northern and the southern portions of the country.

The Indian Plateau is higher in the west and the south than in the east and north. Along the western and eastern edge of the plateau run the Western and Eastern Ghats. They start southward, from the extremities of the Vindhya mountain system and run along the western and eastern coasts of the country and unite to form a sort of upheaved angle towards their southern extremity.

The Western Ghats run through the States of Maharashtra and Mysore and ascend to an average height of about 3,000 feet while some of the peaks are anything between 5,000 feet and 9,000 feet high.

The Eastern Ghats stretch down the States of Andhra Pradesh and Madras and have an average elevation of 1,500 feet.

The inner triangular plateau which the Western and Eastern Ghats form far in the south is seamed with little ranges of hills exceeding 4,000 feet in height the best known among which are the Nilgiris. It is on the Nilgiris that Ootacamund the famous summer capital of Madras State stands.

Drainage Systems.—There are three systems of drainage in the Indian Plateau—one towards the north, the second towards the west and the third towards the east. The drainage from the northern or Vindhya edge of the plateau falls into the Ganges. Two rivers Narmada and Tapti carry the rainfall of the southern slopes of the Vindhya and Satpura mountains respectively in almost parallel lines into the Arabian Sea.

Further south, as we have already stated, the plateau is much higher in the west than the east. So the drainage has to make its way across the whole breadth of the plateau eastwards until it falls into the Bay of Bengal.

The most important rivers are the Mahanadi, the Godavari, the Krishna and the Cavery. These rivers differ from the rivers of the Plain of Hindustan in three ways: 1. They are fed only by the monsoon rains and therefore do not yield a constant supply of water, 2. Their valleys are less suitable for irrigation, 3. And finally, they are not navigable for certain seasons in the year when parts of the river dry up.

From a geological point of view the Indian Plateau consists mainly of very old crystalline rocks—much older than the Himalayan fold mountains.

On some of the edges of the plateau in the north-east for instance, are areas of sedimentary rocks from which the country obtains most of its coal. About nine-tenths of the coal resources of India lie in Jharia in Bihar and Ranigunj in West Bengal, though coal-bearing beds are also found in the valley of the Godavari and the northern slopes of the Vindhyas.

The north-west of the plateau is covered by vast stretches of lava called the Deccan lavas. This region is one of the largest areas of lava in the world, covering as it does an area of 250,000 square miles with a total thickness of several thousand feet. In spite of the great extent of the lavas there are few or no signs of volcano.

In the rest of the Plateau valuable minerals occur here and there among old crystalline rocks. Gold is obtained in Mysore, manganese in Andhra, Mysore and Madhya Pradesh, copper and iron in Bihar and Orissa, mica in Andhra and the south-east. The point about diamonds is of some interest. They occur in sand-stones or conglomerate in Panna in Madhya Pradesh or Kurnool in Andhra, though no diamond bearing igneous rocks are found.

Two groups of very small islands in the Bay of Bengal, the Andamans and the Nicobars, and one group in the Arabian Sea the Laccadives are part of the Republic of India.

So is the quasi-island of Kutch off the Kathiawar Peninsula in western India. Kutch is a dry, rocky, treeless country.

The main cultivated plants include rice, wheat, pulses and grains. Among the important seeds grown are castor, sesamum and ground-nut.

The chief fruit trees include mango, coconut, arecanut and certain citrus fruit. Apples, peaches, pears, apricots and walnuts are confined chiefly to the Himalayan valleys.

There are tea plantations over large areas on the mountains in the north-east and south, while coffee, cardamom, pepper and rubber are extensively grown in the south. In some of the damper regions the cinchona is successfully cultivated.

Among the wild animals are the tiger, the elephant, leopard, panther, the cheetah, the marbled and jungle cat, the wolf, jackal, wild dog, the black and the Himalayan bear, the rhinoceros, crocodile, wild hog, wild ass, antelope, gazelle, sambhar, spotted deer, bison, wild buffalo, many kinds of reptile (cobra, Russel's viper).

Among the domestic animals are cattle, buffaloes, sheep, goats, horses and ponies, mules and donkeys, camels, and of course, fowl.

Birds include the parrot, peacock, maina, different kinds of vulture and eagle, kingfisher, pigeons, ducks, partridges, plover, quail and snipe.

Among the more useful insects are the bee, silk worm, coceus laca (the one that gives lac). Mosquitoes abound everywhere. Locust invasions are not frequent.

Edible fish include the carp family, cat fishes, the hilsa and mahseer.

METEOROLOGY

Normal Monthly and Annual Maximum Temperature in Shade at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.
Hill Stations														
Darjeeling	2,127	9·2	10·1	13·8	17·3	17·8	18·8	19·6	19·4	19·2	17·8	14·4	11·2	15·7
Shillong	1,500	15·6	16·9	21·3	23·4	23·3	23·6	24·1	23·9	23·5	21·7	18·9	16·4	21·1
Simla	2,202	8·6	9·3	13·9	18·8	22·9	23·9	21·6	20·2	20·2	17·9	14·6	10·3	16·9
Coastal Stations														
Bombay	11	28·4	28·4	30·1	31·7	32·8	31·4	29·7	29·4	29·7	31·6	31·9	30·3	30·5
Madras	16	29·6	31·3	33·0	35·3	38·5	37·6	35·7	34·9	34·4	32·3	29·7	28·9	33·4
Stations on the Plains														
Allahabad	98	23·8	26·2	33·2	39·2	41·7	39·3	33·4	31·9	33·1	32·4	28·6	24·3	32·3
Calcutta	6	26·4	28·7	33·6	36·0	35·3	33·6	31·9	31·7	32·2	31·8	29·0	26·3	31·4
Kanpur	126	22·2	25·0	31·9	37·4	41·2	39·3	33·6	32·1	32·7	32·9	28·2	23·3	31·7
Cuttack	27	28·4	31·2	35·9	38·4	38·6	35·3	31·9	31·7	32·2	32·1	29·4	27·3	31·0
New Delhi	216	21·1	24·3	30·6	37·1	41·2	40·2	35·1	33·6	33·7	33·3	28·8	23·1	31·8
Lucknow	111	23·3	25·9	32·7	38·6	40·8	37·9	33·6	32·5	33·3	33·0	28·8	24·4	32·1
Patna	53	22·8	25·4	32·1	37·2	37·9	35·7	32·6	31·7	32·1	31·4	27·8	23·7	30·9
Plateau Stations														
Dehra Dun	682	18·9	20·7	26·3	32·2	35·6	34·3	30·3	29·2	29·3	28·3	24·1	20·4	27·5
Nagpur	310	28·6	32·1	36·5	40·2	43·3	38·3	31·3	30·7	31·3	32·1	29·9	28·4	33·5

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Normal Monthly and Annual Minimum Temperature in Shade at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.	° C.
HILL STATIONS	For elevation, see table of maximum temperature normals													
Darjeeling		2·9	3·8	7·1	10·3	12·3	14·5	15·3	15·2	14·4	11·1	7·2	3·6	9·8
Shillong		3·8	5·8	10·4	13·9	15·1	17·2	18·1	17·8	16·4	12·7	7·9	4·4	11·9
Simla		1·9	2·3	6·4	10·3	14·3	15·6	15·1	15·1	13·5	10·8	6·8	4·1	9·7
COASTAL STATIONS														
Bombay		19·3	19·7	22·2	24·5	26·4	25·9	24·8	24·5	24·3	24·2	22·5	20·4	23·2
Madras		19·5	20·2	22·4	25·6	27·6	27·3	26·3	25·6	25·1	23·9	22·2	20·5	23·9
STATIONS ON THE PLAINS														
Allahabad		8·4	10·5	16·1	21·9	26·6	28·3	26·6	25·8	24·8	19·5	12·4	8·4	19·0
Calcutta		12·6	15·2	20·4	24·2	25·3	25·9	25·9	25·7	25·6	23·2	17·6	12·8	21·2
Kanpur		7·6	10·6	15·6	21·4	26·9	28·3	26·6	25·9	24·6	18·9	12·2	8·1	18·9
Cuttack		15·4	18·2	22·1	25·3	26·6	26·4	25·7	25·6	25·4	23·6	18·8	14·8	22·3
New Delhi		7·3	9·4	14·8	21·4	26·7	28·7	26·9	26·1	24·3	18·5	11·4	6·8	18·5
Lucknow		8·4	10·8	15·9	21·6	25·7	27·6	26·4	25·9	24·7	19·2	12·3	8·5	18·9
Patna		10·6	12·7	17·9	23·1	25·6	26·6	26·6	26·5	26·1	22·7	16·1	11·3	20·5
PLATEAU STATIONS														
Dehra Dun		6·7	8·1	12·3	16·9	21·2	23·4	23·2	22·7	20·8	15·7	10·6	7·3	15·7
Nagpur		12·8	15·3	19·2	24·1	28·7	26·9	24·1	23·8	23·3	19·7	13·9	11·7	20·3

Normal Monthly and Annual Rainfall at Selected Stations in India.

Stations	Elevation in metres	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
HILL STATIONS	For elevation, see table of maximum temperature normals													
Darjeeling		13·5	30·2	47·7	105·2	244·6	614·2	836·2	674·6	480·1	137·4	20·6	6·9	3211·2
Shillong		13·2	26·9	50·0	129·5	286·8	461·3	346·7	317·3	299·5	170·7	40·9	7·1	2149·9
Simla		66·3	74·2	59·9	46·0	64·3	153·4	414·0	428·0	169·7	30·0	13·2	31·5	1550·5
COASTAL STATIONS														
Bombay		3·6	2·0	1·3	0·8	16·5	484·1	616·5	340·1	263·9	64·5	13·5	2·0	1808·8
Madras		35·8	10·4	7·4	15·5	26·2	47·2	91·4	116·3	118·9	305·8	354·6	138·4	1267·9
STATIONS ON THE PLAINS														
Allahabad		21·6	16·0	14·2	4·3	16·0	128·0	319·0	254·8	212·3	59·4	7·9	8·6	1062·1
Calcutta		9·4	29·7	34·5	44·5	139·5	296·9	325·4	328·2	252·7	113·8	20·6	4·6	1599·8
Kanpur		14·2	16·8	7·4	5·6	8·1	81·0	273·1	284·5	172·5	33·0	8·9	7·1	912·2
Cuttack		8·1	19·8	26·4	27·2	90·7	252·7	327·4	340·4	247·9	135·6	41·1	5·8	1523·1
New Delhi		25·1	21·1	12·9	8·4	13·2	77·0	178·6	183·6	122·9	10·2	2·5	10·9	666·4
Lucknow		19·3	18·3	8·6	6·3	19·6	113·3	304·8	292·1	188·0	32·5	5·6	8·1	1016·5
Patna		15·0	18·8	10·7	6·9	35·6	181·4	294·1	332·5	218·4	58·4	8·6	5·6	1186·0
PLATEAU STATIONS														
Dehra Dun		58·9	62·7	32·0	16·5	36·8	217·2	668·0	731·3	269·7	32·0	8·9	25·9	2159·9
Nagpur		9·4	16·5	15·2	15·2	19·3	224·0	370·8	290·1	203·5	55·1	19·6	11·9	1250·6

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SUB-DIVISIONAL MEANS OF RAINFALL IN MILLIMETRES DURING THE MONSOON

JUNE TO SEPTEMBER 1960

SUB-DIVISION.	JUNE TO SEPTEMBER.			
	Actual.	Normal.	Departure from Normal.	Percentage Departure from Normal.
1	2	3	4	5
	mm	mm	mm	mm
1. Bay Islands	1607	1800	—193	—11
2. Assam (including Manipur and Tripura)	1465	1458	+ 7	0
3. Sub-Himalayan West Bengal	1920	2206	—286	—13
4. Gangetic West Bengal	1060	1091	— 31	— 3
5. Orissa	1321	1108	+213	+19
6. Bihar Plateau	1094	1109	— 15	— 1
7. Bihar Plains	993	1037	— 44	— 4
8. Uttar Pradesh, East	968	944	+ 24	+ 3
9. Uttar Pradesh, West	1039	927	+112	+12
10. Punjab (I) (including Delhi)	689	553	+136	+25
11. Himachal Pradesh†	..	..	..	..
12. Jammu and Kashmir†	..	..	..	..
13. Rajasthan, West	194	243	— 49	—20
14. Rajasthan, East	714	697	+ 17	+ 2
15. Madhya Pradesh, West	921	967	— 46	— 5
16. Madhya Pradesh, East	966	1185	—219	—18
17. Gujarat	596	801	—205	—26
18. Saurashtra and Kutch	488	477	+ 11	+ 2
19. Konkan	2259	2150	+109	+ 5
20. Maharashtra (including Marathwada)	545	537	+ 8	+ 1
21. Vidarbha	783	919	—136	—15
22. Coastal Andhra Pradesh	613	502	+111	+22
23. Telangana	673	730	— 57	— 8
24. Rayalaseema	524	427	+ 97	+23
25. Madras	347	285	+ 62	+22
26. Coastal Mysore	2585	2928	—343	—12
27. Interior Mysore, North	631	573	+ 58	+10
28. Interior Mysore, South	296	372	— 76	—20
29. Kerala	1749	1644	+105	+ 6
30. Arabian Sea Islands	924	878	+ 46	+ 5

† Data not available.

MONSOON RAINFALL SUMMARY—1960.

Early onset of the monsoon in the south Peninsula, typical "break" monsoon conditions for about ten days during July, very heavy rains and consequent devastating floods in Orissa and the Punjab(I) during August and early in September and prevalence of drought conditions over most of the Peninsula during August followed by abundant rains during September were the chief features of the monsoon this year.

The southwest monsoon established itself over the south Peninsula in May about a fortnight in advance of the normal date and also advanced temporarily in Gangetic West Bengal and Assam towards the end of May. The monsoon current remained feeble during the first six days of June and even withdrew from Gangetic West Bengal on 1st June and from Assam on 3rd. A general revival of the monsoon activity took place on 7th June and the activity was maintained for about a month, during which period, the monsoon established itself over the entire country. There were heavy rains and floods in Saurashtra during the first week of July.

Typical "break monsoon" conditions prevailed for about ten days during the middle of July, when the monsoon activity got confined mostly to the belt extending from Assam to the Punjab(I). There were floods in the rivers of Assam, West Bengal, Bihar State, Uttar Pradesh and the Punjab(I).

From the end of July to the end of August, a series of low pressure systems developed over the north Bay of Bengal, one after the other. These generally moved in a northwesterly direction and gave copious rains over north India and the central parts of the country, particularly over the belt extending from Orissa to the Punjab(I). The rains caused local floods of varying intensity in this belt of the country.

A deep depression which originated in the head Bay of Bengal on 12th August, moved inland and dissipated over the Punjab(I) by 25th August, was responsible for devastating floods in Orissa and the Punjab(I) during this monsoon season. According to press reports, these floods in Orissa were the severest in the recorded history of the State.

Although north India and central parts of the country got excessive rains during August, the rainfall over the Peninsula was scanty. In fact, during August, the deficiency of rainfall in Andhra Pradesh, the Madras State and Interior Mysore was as much as 50 per cent or more. In particular, Rayalaseema had a rainfall deficiency of about 90 per cent during August. However, throughout the month of September, there was abundant rainfall over the Peninsula.

The monsoon withdrew from northwest India by 14th September and from the rest of the country outside the south Peninsula by 17th October.

The total rainfall for the period 1st June to 30th September is shown in the table. One remarkable feature is that although the rainfall departure over most of the country for the season as a whole was mostly within 20 per cent of the normal rainfall, there were large abnormalities in the rainfall during different parts of the season.

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POPULATION

(*See Late Particulars*).

INDIANS OVERSEAS

THE number of Indian nationals overseas which includes Pakistani nationals (unless otherwise stated) is given below:

Name of country	Indian population	Year of estimate
Commonwealth.		
Aden	15,817	1955
Australia	2,500	1958
Barbados	140	1955
Basutoland	247	1956
Bechuanaland	62	1936
BritishGuiana	2,10,000	1954
British Honduras	2,000	1946
British North Borneo	2,000	1954
British Somaliland	250	1946
Brunei	2,000	1958
Canada	7,964	1957
Ceylon (*a*)	8,29,619	1958
Dominica	5	1950
Fiji†	1,91,328	1959
Gibraltar	41	1946
Ghana	475*	1959
Grenada	6,000	1959
Hongkong	3,000	1957
Jamaica	26,000	1954
Kenya	1,65,000	1959
Leeward Islands	99	1946
Malaya†	6,95,985	1957
Malta	37	1948
Mauritius	4,01,871	1959
New Zealand	2,600	1959
Nigeria	390	1959
Nyasaland	10,000	1959
Rhodesia (Northern)†	4,000	1958
Rhodesia (Southern)	5,500	1959
Sarawak	2,000	1958
Seychelles	250	1959
Sierra Leone	100	1959
Singapore	1,24,084	1957
South Africa	4,31,000 (estimates).	1958
St. Kitts	97	1950
St. Lucia	3,000	1954
St.Vincent	2,000	1954
Swaziland	71,660	1957
Trinidad and Tobago	2,67,000	1957
Uganda	58,700	1959
United Kingdom	1,70,000(approx.)	1958
Zanzibar and Pamba	15,900	1959

Name of country	Indian population	Year of estimate
Foreign		
Aden Protectorate	100	1956
Afghanistan†	38	1959
Argentina	250(approx.)	1958
Austria†	62	1959
Bahrain	3,000	1954
Belgium†	78	1959
Brazil	60	1955
Bulgaria	3	1953
Burma	7,00,000	1958
Cambodia†	200	1959
Chile†	6	1959
China	210	(end 1957)
Congo Republic (Belgian) and Ruanda Urundi†	2,000	1959
Cuba	23 (approx.)	1958
Czechoslovakia	4	1955 (May)
Denmark	22	1955
Dutch Guiana	71,000	1959
Egypt†	100	1956
Ethiopia	2,000	1959
Finland	1	1955
France	265	1957
Germany (West and East)	35	1953
West Germany†	1,800 (Students and trainees)	1959
Indo-China	2,300	1950
Indonesian Republic	30,000	1958
Iran†	1,000	1959
Iraq	850	1954
Italian Somaliland	1,000	1947
Italy†	325	1959
Japan†	705	1959
Kuwait	2,500	1954
Laos†	1,000	1959
Lebanon	59	1955
Libya	27	1956
Luxemburg†	2	1959
Madagascar	13,153	1959
Mexico	12 (approx.)	1958
Muscat	1,145	1947
Nepal	10,441	1941
Netherlands	3	1957
Palestine	56	1947
Panama	Between 500 and 800	1956
Philippines	1,675	1958
Portugal	1	1952
Portuguese East Africa	6,000	1959
Qatar (Persian Gulf)	800	1954
Reunion Islands	500	1959
Rumania†	59 (Scholars & Students).	1959
Saudi Arabia	5,000	1956
Sharjah Dubai (Persian Gulf)	250	1954
Spain†	1,000	1959
Sudan	2,500	1957
Sweden	79	1955
Switzerland	250	1957
Syria	13	1959
Tanganyika†	80,900	1959
Thailand	10,000	1958
United States of America	5,063	1958
U.S.S.R.†	330	1959
Yemen	50	1956
Yugoslavia†	Nil	1959

* Approximate. † Excludes Pakistani nationals.

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MIGRATION TABLES

The following table shows the emigration and immigration figures for 1957 and 1958:

Country	Emigration		Immigration	
	1957	1958	1957	1958
Africa	287	354	36	23
Burma	43	8	4	15
Ceylon	148	54	104	—
Malaya	83	14	1,518	2,189
Others	2,614	2,134	1,234	1,086
Total	3,175	2,564	2,896	3,313

EMIGRATION LAWS

Emigration out of India is governed by the Indian Emigration Act (VII of 1922) and the Rules made thereunder, as amended from time to time.

"Emigration" means departure by sea out of India of persons of Indian parentage under an agreement to work for hire, or if assisted by a person other than a relative with the intention to work for hire or for engaging in agriculture.

Emigration for skilled work is permissible on compliance with prescribed formalities.

The functions under the Act are performed by the Central Government through the Controller-General of Emigration and Joint Secretary to the Government of India in the Ministry of External Affairs, New Delhi, with the assistance of the Protectors of Emigrants at the Emigration Ports and the Regional Passport Officers at the Ports, who supervise the activities of the Protectors of Emigrants under their administrative control.

Following Ports are at present Emigration Ports under the Act. Each Port has a Protector of Emigrants.

1. Bombay (Public Relations Officer (Emi.), Regional Passport and Emigration Office, 148, Mahatma Gandhi Road, Bombay 1).
2. Okha (Port Officer).
3. Porbander (Port Officer).
4. Bedi (Port Officer).
5. Madras (Public Relations Officer (Emi.), Regional Passport and Emigration Office, 41, Mukkur Nallamuthu Chetty Street, George Town, Madras).
6. Nagapattinam (Protector of Emigrants).
7. Tuticorin (Protector of Emigrants).
8. Calcutta (Superintendent (Emi.), Regional Passport and Emigration Office, 4, Brabourne Road, Calcutta).

Below we give notes on overseas Indians in some countries.

Generally speaking fresh Indian immigration is either banned or is not permitted as a matter of policy into South Africa, Northern and Southern Rhodesia, Nyasaland, Australia, New Zealand, Burma, Ceylon, most European and South American countries. There are some countries that admit Indians on a quota basis: Canada, U.S.A., the Philippines, Thailand and Indonesia.

AUSTRALIA

Indians already domiciled in Australia have full citizenship rights, including the right to bring into the country their wives and children if they are not already with them. Provision exists for the temporary admission of Indians who are bona fide merchants, students, or tourists, and of Indians as assistants to such merchants. They are permitted to remain there while they retain their status as such.

The majority of persons of Indian origin settled in Australia are engaged in retail trade or agricultural operations.

Indians domiciled in Australia do not suffer from any disability and have all citizenship rights.

The Commonwealth franchise was granted to Indians domiciled in Australia in 1925.

CONGO REPUBLIC

This includes Ruanda Urundi for purposes of this survey.

Immigration is not on a quota basis. Each application is considered on its merits. There are no political or any other disabilities of any sort. Neither is there any restriction on remittances.

Most Indians are traders and are settled in the eastern districts. They are generally a prosperous community.

BRITISH CENTRAL AFRICA

The three territories of Southern Rhodesia, Northern Rhodesia and Nyasaland were brought into a federation known as the Federation of Rhodesia and Nyasaland. Immigration is a federal subject, and it is the declared policy of the Federal Government not to admit fresh Indian immigrants excepting teachers, ministers of religion and wives and minor children of persons already settled there.

Indians in Southern Rhodesia are mostly traders. Immigration of Indians into Southern Rhodesia has been prohibited since 1924, and only wives and children under 16 of domiciled Indian residents are admitted.

Although there are no discriminatory laws as such against Indians, in practice and in the interpretation of laws discrimination against them exists, particularly in the social sphere. Indians are not eligible for appointments to the Fixed Establishment of the Civil Services, and are not admitted into the Armed Forces. Indians are required to obtain special permits in order to purchase, possess or sell arms and ammunition whereas Europeans can do so on ordinary permits.

There is a common roll for all races with common qualifications. Of about 75,000 voters in the territory, between 700 and 800 are Indians.

A commission had been appointed to advise the five Governments in preparation for the 1960 conference on constitutional matters. The Report of the Commission recommends widening of franchise but not universal adult suffrage and eradication of discriminatory laws.

There is no limit to remittances to sterling area countries.

Indians can now pass freely between Northern and Southern Rhodesia.

BRITISH EAST AFRICA

Though immigration is not disallowed the scope is now greatly limited. It is official policy that the primary source will be Great Britain.

British East Africa consists of the four territories of Kenya, Uganda, Tanganyika and Zanzibar.

The majority of the Indians in these territories are engaged in commercial undertakings. Artisans, technicians, Government servants, doctors, lawyers, make up most of the balance.

Indians in East Africa—numbering over 3 lakhs—are mostly concentrated in urban centres. In Kenya and Tanganyika they constitute about 59 per cent of the total non-native population of each territory; in Uganda they form the single largest community among the non-Africans, being about 82 per cent of the non-African population. Their general economic condition is on the whole very satisfactory. Many of them are quite well-to-do.

In Uganda some Indians have big factories, *e.g.*, sugar, sisal and ginning. About 90 per cent of the total trade of Uganda passes through Indian hands.

Though the Kenya highlands are now open to non-European farmers on a free-seller-buyer basis, in practice no European farmer will be allowed to sell his land to a non-European. Anti-Asiatic regulations prevent the purchase or occupation of certain residential sites in Nairobi and Mombasa (in Kenya) by Indians.

In British East Africa while the Asians are discriminated against on grounds of colour, the severity is diminishing as the Europeans hard-pressed by the African nationalism, are inclined to be more tolerant to Asians.

The well-to-do Indian is on the whole inclined to imitate the European pattern of living and behaviour. The ostentatious style of living of some of the richer Indians excites African jealousy. The Indian skilled workers in Uganda and Kenya, earn much higher wages than their counterparts in India. But most of the earnings are remitted to India and their standard of living has remained stationary. The average African labourer is hostile to the skilled Indian labourer because of the impression that but for the presence of the Indians the lot of the African worker would be much better. But in Government organizations such as railways the African skilled worker is rapidly replacing the Indian. Similarly in petty trade in the smaller towns, the African, with the active co-operation of the British administration, is gradually ousting the Indian shopkeeper.

The position is different in Tanganyika and Zanzibar where African national forces are beginning to co-operate with the Indians there. In Zanzibar this arises from the fact that Africans are in need of outside help in their battle against the feudal Arabs. In Tanganyika the African leadership is interested in Indian friendship, firstly, because of the struggle against the British and secondly, because the leadership realises that if Tanganyika were to become independent they would be in need of financial help and economic know-how which the Asians could provide.

In Kenya elections were to be held in February 1961 on the basis of common poll for 52 seats in the Legislative Council. As a safeguard for minorities 20 of these seats (10 Europeans, five Asian Non-Muslims, three Asian Muslims and two Arabs) are to be reserved after primary communal elections.

Tanganyika has already achieved a sort of self-government with an African majority in the legislature and a Chief Minister.

Elections were also to be held in Zanzibar in the beginning of 1961 to provide the island with more constitutional advancement.

Uganda was also preparing for similar elections.

There has been a move to federate all the four territories into a British East African Federation.

Indians also enjoy municipal franchise in these territories.

BURMA

Burma was a province of India till 1937 April when it was given a separate constitution. In 1931 the Indian population was reported to be over one million. Consequent upon the Japanese occupation of Burma in 1942, about 4 lakhs of Indians left Burma for India. After the liberation of Burma many did not return to that country in view of the changed conditions in Burma and the difficulty of obtaining employment there. The present population of Indians in Burma is estimated to be about 5½ lakhs.

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Indians are mainly agricultural, dock and casual labourers and small-scale business men. Some Indians are engaged in wholesale importing business.

With the introduction of the Burmanisation policy, no foreigner is now allowed to buy any property, nor can any property be transferred to any foreigner. Non-nationals in Government service are being replaced by nationals.

A large number of Indian land-owners in Burma have been adversely affected by the 'Land Nationalization' Scheme.

Under the Union of Burma Citizenship Act, 1948, an alien can become a Burma citizen by naturalisation, if he had resided continuously in the Union for not less than five years before the application and also fulfils other prescribed conditions.

As foreigners in the country, Indians as such have no franchise. Those Indians who have become Burmese citizens are entitled to all privileges including franchise that other Burmese are entitled to.

With the Government of Burma's policy of Burmanisation of Agencies in May 1960, those Indians who were carrying on Agency work had to wind up their business. Agency work can now be done only by Burmese citizens.

BRITISH GUIANA, WEST INDIES

Indians form the bulk of sugar plantation labour in British Guiana and Trinidad. A good number of them work also on cocoa plantations. They are the backbone of the countries' agriculture, and grow rice and vegetables. There are also a number of prominent Indian merchants, doctors and teachers.

In British Guiana, Indians constitute the largest single racial group. (49 per cent of the total population.) In Trinidad Indians are about 36 per cent of the total population.

Very few Indians have been employed in Government service. A vast majority of Indians are illiterate. In Jamaica, a large number of dairies are owned by Indians.

There is no discrimination against Indians in British Guiana or Trinidad, and they enjoy the same citizenship rights as other nationals of these territories. Remittance is free.

CANADA

The Government of India and the Government of Canada have entered into a modified Agreement regarding the immigration of Indians into Canada in partial modification of the Agreement of 1951 under which the Government of Canada had agreed to admit annually 150 Indian citizens into Canada. The modified Agreement came into effect on the 1st of January, 1957.

Under the modified Agreement, the Canadian Government have agreed to increase the annual quota of immigrants from India from 150 to 300. Of these 300 immigrants, 150 will be "ordinary quota" immigrants and 150 will be "preference quota" immigrants. Relatives of Indians who have permanently settled in Canada or who have acquired Canadian citizenship will be admissible into Canada as "preference quota" immigrants while other applicants will be admissible under the "ordinary quota". It may be noted that "close relatives" of all those who have become Canadian citizens will be admitted into Canada as non-quota immigrants.

A "relative" means the husband, wife, son, daughter, brother, sister (or the husband, wife or unmarried child under twenty-one years of age of any such son, daughter, brother or sister), father, mother, grandparent, unmarried orphan nephew or niece under twenty-one years of age, fiance or fiancee.

A "close relative" means the husband, wife, unmarried child under twenty-one years of age, father over sixty-five years of age, or mother over sixty years of age.

Applications from prospective immigrants to Canada from India should be addressed to The Canadian Immigration Attache, Office of the High Commissioner for Canada, 13, Golf Links, New Delhi 3.

Indian residents of Canada are largely comprised of labourers employed in lumbering and trucking. There are a few lumber mill owners, and some are working as clerks in various establishments. A good number can also be termed professionals, technicians and highly skilled workers. The majority of Indians are in British Columbia. A good many today go on to industrial centres like Montreal and Toronto. The Indian community is called the "East Indian Community".

Any person admitted to Canada as an immigrant might become a citizen of Canada after five years' continuous residence there. There is no legislation in Canada, federal or provincial which discriminates against any group of citizens on grounds of national origin, race, language or religion.

There are no disabilities on Indians in the matter of owning property, engaging in trade or profession, entering Government service or residence in any locality. In 1952, one Indian was elected to a Municipal Council.

Indians can remit to India any amount earned in Canada.

Figures of Indians arriving in Canada: 1957 : 317 ; 1958 : 451 ; 1959 : 716.

CEYLON

Out of a total of about 9 lakh persons of Indian origin in Ceylon, about 8 lakhs (labourers, subordinate staff, etc.) are in the tea, rubber and coconut estates. The balance is made up of merchants, shop assistants, land proprietors, and professional men such as doctors, accountants, lawyers and their families.

There is no restriction on Indians acquiring property in Ceylon, but non-Ceylonese are not allotted Crown Land. Trade in certain commodities and with certain countries like Japan and Germany is exclusively reserved for Ceylonese enterprise. Certain rights like fishing rights and the ownership of industries like public transport (omnibuses) are restricted to Ceylonese. Government service is restricted to Ceylonese except that foreigners are appointed on a contract basis when no qualified or suitable Ceylonese is available. Consequently Indians who have not acquired Ceylon citizenship have severe handicaps. Indians are also denied certain privileges such as National Insurance and un-employment relief.

The rights of Indians to citizenship are governed by two Acts enacted in 1948 after a discussion between the Indian and Ceylonese Prime Ministers. These Acts are the Ceylon Citizenship Act and the Indian and Pakistani Residents (Citizenship) Act, which provide that the Indian residents in Ceylon would be entitled to obtain the citizenship of Ceylon by registration subject to the following conditions: (*a*) an applicant must be resident in Ceylon when the laws came into force and must have been residing in Ceylon since January 1, 1936 if a bachelor and since January 1, 1939 if a married man, (*b*) he must have adequate means of livelihood, (*c*) he should be in a position to comply with the laws and customs of Ceylon, and (*d*) the application for registration was filed and submitted to the Controller of Registration before August 5, 1951.

An Agreement was entered into in January 1954 between the Government of India and the Government of Ceylon regarding the citizenship rights of persons of Indian origin in Ceylon. Under this Agreement the Government of Ceylon agreed to expedite the registration of citizens under the Indian and Pakistani (Citizenship) Act and to make every endeavour to complete the disposal of pending applications within two years.

The total number of applicants for Ceylon citizenship is estimated to be about 850,000.

Out of these, about 1,22,000 persons have till the end of Sept. 1960, been registered as Ceylon citizens. The applications of the rest have either been rejected or withdrawn.

At the end of 1954 the Government of Ceylon started implementing its policy of Ceylonization in the course of which a large number of persons holding Temporary Residence Permits of all nationalities had their periods of stay curtailed. In the result some Indians were faced with the prospect of leaving the country.

In April, 1955, the Government of Ceylon amended the Immigrants and Emigrants Act of 1948. One of the amendments brought about was that in the case of a person who is alleged to have committed the offence of illegal entry into Ceylon, the onus of establishing the contrary, in any prosecution launched in the case, would devolve on the accused. Yet another amendment rendered the employment of persons resident in Ceylon illegally, a punitive offence on the part of the employers of such persons.

Till the end of Sept. 1960, about 86,000 Indians have left Ceylon for good. Out of these a total of about 48,250 persons have left on receipt of Quit Notices issued by the Government of Ceylon.

The present problem is about 'Stateless' residents.

About the Ceylonization of business firms, all firms (including Indian firms) are permitted to retain personnel, who are considered essential, technically qualified etc., and that in non-essential categories of employment, Ceylonization should take place. This scheme of Ceylonization envisages departmental action to promote the appointment of Ceylonese nationals to executive posts in the private sector. The number of such persons who have or who are likely to secure executive posts in Indian establishments however is very small.

Remittances from Ceylon are governed by the Exchange Control Regulations in force which are altered from time to time in accordance with the financial situation in Ceylon.

ETHIOPIA

Emigration to Ethiopia is neither restricted nor entirely free. Each case is judged on its merits, and there is no quota.

Indians who wish to start new industries or go into farming are given special encouragement.

There are no constitutional, legal or any other disabilities specifically on Indian residents. Some Indians own landed property and have been living in Ethiopia for half a century, and are whole-heartedly accepted by the people.

Under the Civil Code of the Empire of Ethiopia, which came into effect from Sept. 11, 1960, some restrictions have been placed on the ownership of immovable property by foreigners.

No foreigner may own immovable property situate in Ethiopia except in accordance with an Imperial Order. Any foreigner who is found to own immovable property in good faith but does not hold such immovable property in accordance with an Imperial Order shall be required by the competent authority to dispose of such property to an Ethiopian within six months. Failure to dispose of such property will result in the property being seized and sold by the competent authority. The foreigner will get only 80 per cent of the sale proceeds, 20 per cent being deducted as penalty and expenses of sale. Ten per cent only will be deducted if the foreigner acquired the property by succession.

Till recently remittance regulations were liberal but measures have now been taken to tighten the issue of foreign exchange for various imports because of shortage of foreign exchange.

There are nearly 2,000 Indians resident in Ethiopia. Most of them are business men from the Gujarat and Saurashtra regions of India. Almost all of them are well-to-do and are engaged in trade specially in the import of textiles. Besides, there are about 300 Indian teachers who have been recruited by the Ethiopian

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Government to further the cause of education. Recently some Indians have been engaged also as Advisers to various Ministries, for example, Municipality, Commerce, Social Welfare, Community Development, Agriculture.

In 1959 a textile mill, a combined venture of Birla Brothers and the Ethiopian Government started working. This is the biggest mill of its kind in the country. Plans are now under way for expansion of the Indo-Ethiopian Textile Mill to double its present capacity of 12 million yards per annum by a separate mill being constructed adjacent to the existing one.

Indian Army Officers and Civilian Academic Staff are organizing a military academy in Ethiopia at Harar. The first batch of gentlemen cadets of the Academy took their degree on 1st Oct. 1960. The actual running of the Academy is to be handed over to the Ethiopian Army Officer by phased stages and the 1st Stage was to be completed in Dec. 1960.

FIJI

Immigration into Fiji is limited by the provisions of a special ordinance issued in November 1947.

In general, permits to land and reside permanently in Fiji will be granted only to the following :—(*a*) farmers and planters if they have already acquired a property in the Colony of not less than 100 acres, three-quarters of which are productive land ; (*b*) professional men and women with recognised qualifications ; (*c*) ministers of religion ; (*d*) persons who are employed outside Fiji by local firms or undertakings and who are transferred to the Colony ; (*e*) persons who satisfy the Principal Immigration Officer that they have an assured income, that they will not become a charge on public funds.

Absence from Fiji for 12 months forfeits residential status.

The number of people of Indian origin numbered about 191,388 in 1959 out of a total population of 387,646.

The immigration of indentured labourers from India started in 1879. Between this year and 1916, when sponsored immigration virtually ceased, some 40,000 to 50,000 Indians were introduced into the Colony, only a small proportion of whom returned to India at the expiration of their contract period. In 1911, there were 43,000 Indians, in 1936 85,000, in 1956 there were 169,403 ; and by the end of 1958 there were 184,090. In 1945, people of Indian origin outnumbered the native Fijians for the first time and their numerical superiority is maintained and is becoming more marked each year.

About the turn of the century, Indians began to assume the role of independent farmers, which completely altered their position in the Colony, and paved the way for further economic progress. Indians today represent by far the greatest proportion of cane farmers while some cultivate cane on freehold properties, or on lands leased from Fijian landlords. Many are tenant farmers of the Colonial Sugar Refining Company under an arrangement whereby the Company makes its lands available to selected tenants for the cultivation of sugarcane.

Although in competition with a more recent arrival—the Chinese—Indians now practically monopolize the Colony's retail trade while the tailoring and footwear businesses are almost entirely in the hands of Bombay craftsmen. The land transport trade—the ownership of public buses and taxis—is another field which Indians dominate.

As more and more Indian students return from overseas each year after obtaining higher academic or professional qualifications, more and more enter the professional ranks including civil service, law, medicine and dentistry.

The Indian community do not suffer from any political or legal disabilities. However, the only major economic disability which affects them is the existing land laws which make it almost impossible for an Indian to acquire land.

When the chiefs of Fiji ceded the Territory to Britain, a condition of the cession was that the land rights of the Fijians should be protected. But as the Indian population grows its demand for land also increases.

Indians in Fiji have franchise both in respect of legislature and the local bodies but the franchise is on a racial basis. (Women, whether European or Indian, have no franchise.)

The Legislative Council consists of 31 members —16 officials and 15 non-officials. In the non-official group Europeans, Indians and Fijians have equal representation with 5 members for each group. Of the 5 Indian members 3 are elected and 2 are nominated. The Executive Council consists of 4 officials (excluding the Governor) and 3 non-official members. One of the non-official members is an Indian elected from among the Indian members of the Legislative Council.

There are no restrictions on the remittance of money from Fiji to the countries in the sterling area (except Canada). Money may not be sent outside the sterling area without a permit from the Controller of Foreign exchange.

MALAYA

The Federation of Malaya is an independent country in the Commonwealth. It consists of 11 States.

Of the total Indian population of over 7 lakhs in Malaya about 70 per cent are labourers in rubber and tin estates, and the rest are either clerks or employed in business, trade and other professions like law and medicine.

Indians do not suffer from any special disabilities. They are eligible for citizenship of the Federation of Malaya, if they fulfil the prescribed conditions. Many of the Indians in Malaya are qualified or entitled to become Malayan citizens.

The second elections in the Federation to the House of Representatives took place on August 19, 1959. This was in fact Malaya's first election after the attainment of her independence in August 1957. Of the 104 elected members six are Indians.

In the Senate (Upper House) of the Federation Parliament there are 36 members of whom 3 are Indians.

MAURITIUS

Mauritius is an island of approximately 720 square miles in area with a density of population of 853 persons per square mile. Because of its position just within the tropics, it has a maritime climate, tropical during summer and sub-tropical in winter. The lingua franca is a local dialect—Creole, a distortion of French. Other languages spoken are English, French, Chinese, Bhojpuri, Urdu, Telugu, Tamil, Marathi and Gujarati. English is the official language.

Indians in Mauritius form about 67 per cent of the total population of the Colony. The Indian population is mainly composed of descendants of "indentured" labourers from Madras, U.P. and Bihar, but there is a sprinkling of traders from Bombay.* Indians have settled there for generations and are now termed "Indo-Mauritians". A large proportion of them are farm-labourers on sugar plantations. The rest are engaged in commerce and trade or are doctors, lawyers, government servants.

Under the London Agreement of 1956 fresh proposals for constitutional advance were made, some of which were implemented later in the year. Subsequently, General Elections under the new constitution took place on 9th March 1959. Political consciousness of the populace was evident from the fact that votes were cast on party lines and out of 83 independent candidates not one was returned. Out of the 40 single-member constituencies the Labour Party supported by the Comite d'Action Musulman and Labour Trade Unionists returned a solid vote of 31.

The Legislative Council of the Colony as at present constituted consists of 52 members. Besides the 40 elected members, the Governor can nominate upto a maximum of 12 members. The Governor can select 9 Executive Councillors which with the addition of Colonial Secretary, Financial Secretary and Attorney-General, who are ex-officio Councillors, constitute a panel of 'Ministers.' The Executive Council exercises collective responsibility and all the non-official members are assigned portfolios.

Indo-Mauritians are coming into their own and on the whole their economic and social conditions compare favourably with people of Indian origin in other Colonies.

The density of population in this small island is now one of the highest in the world. The rate of growth of population is also a serious problem. Immigration of foreigners for the purpose of settling down is not therefore normally allowed. Only in exceptional circumstances when there is a dearth of skilled hands in a particular trade or a profession is a person allowed to enter the Colony and stay for a specified period. For this, he should have obtained an offer of appointment by a Mauritian employer and an entry permit from the Government of Mauritius. In such cases, wherever necessary, the immigrant should be able to deposit Rs. 1,000 on entry into the Colony. There is, however, no restriction on tourists or other visitors or business men coming to Mauritius for bona fide purpose, for a period of six months or so, if he possesses a return ticket.

There is no colour bar against Indians, nor do they suffer from any political disability.

There are no restrictions on remittances to India.

NEW ZEALAND

Entry into New Zealand is controlled under a permit system, exemption being provided, broadly speaking, only for New Zealand citizens and persons of United Kingdom descent. There is no quota system.

The applications from Indians for permanent entry have been approved at the rate of approximately 100 applications per annum over the past few years. Most of those approved have been submitted on behalf of wives and minor children of Indians already resident in New Zealand.

There are some 2,600 Indians at present resident in New Zealand, mainly Gujaratis and Punjabis. The size of the community is, however, steadily increasing. At the moment 13 per cent are under five years of age and 27 per cent under 16 years of age. The greater part of the Indian community is concentrated in the main urban centres, where for the most part they are engaged in small businesses such as grocery stores, importing houses or restaurants. Others, however, are employed in industry and in clerical work and the professions.

There is no differentiation between Indians and other residents of New Zealand and their economic condition would not therefore vary from the economic condition of other residents engaged in similar trades or occupations.

Indians enjoy the right to vote in Parliamentary and Municipal elections and do not suffer from any political, legal or other disability.

Remittances made by all New Zealand residents (including Indians) from New Zealand are subject to exchange control. The maximum amount permitted varies according to the purpose of the remittance and the currency area concerned. The maximum amount normally approved for remittance to India for maintenance purposes in any one year is £240.

PHILIPPINES

With effect from September 1953, 50 Indian nationals are admitted per annum for permanent residence on preference quota. This quota applies only to husbands, wives, minor children and parents of permanent residents in the Philippines. Immigration is closed to other Indians.

* Bilingual.

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Foreign exchange control regulations apply to remittances as to other transactions. Transactions of foreign exchange are now partially decontrolled, the process being in its second stage.

During the year 1961, which in cooperation with other countries located in that area has been declared by President Carlos P. Gracia, as "Visit the Orient in 1961" the issuance of visas to tourists to visit the Philippines will be greatly facilitated.

PORTUGUESE EAST AFRICA

In Portuguese East Africa there is no colour bar as such. At the time when the Goa dispute was at its height, various restrictions were placed on Hindus who are mostly in trade. The situation has, however, now quietened and the Hindus, according to reports are untroubled.

The Indians here also maintain a high standard of living which compares favourably with that of the Portuguese inhabitants.

There is no restriction on remittance of money to India. Indian currency up to Rs. 20,000 can be remitted by bank draft. In the case of remittances exceeding Rs. 20,000 prior permission of the Reserve Bank of India is however necessary.

SAUDI ARABIA

There is no Emigration Act or law in Saudi Arabia to regulate the entry of nationals of other countries. The Saudi Government grants Saudi nationality to non-Saudis without following any fixed principle.

There are no constitutional, legal or any other disabilities on Indian residents. "Iqama", that is residence permit, is required to be obtained by the nationals of all countries except Yemen, Hadramouth and a few other neighbouring countries whose areas are contiguous to Saudi Arabia.

Remittance is restricted but this restriction applies to every one including Saudis. This restriction is due to foreign exchange difficulties but all Government employees including Indians, can send 50 per cent to 75 per cent of their basic pay to their families residing outside Saudi Arabia, depending on the terms of contract made at the time of the appointment.

Indians as a whole are doing well here in service as well as in independent professions. They have a reputation of being intelligent and hard working. Many firms prefer to have Indians on their staff.

Over 3,000 Indians reside in Saudi Arabia, out of which about 500 alone are employed with the Arabian American Oil Company on contract basis in different capacities.

During the years 1957-58 there were over 2,000 Indians employed there. But due to the installation of latest scientific computor machines and stoppage of expansion activities of the Company, a large proportion of manual labour has been dispensed with. Saudis or people from Arab countries are gradually replacing other nationals including Indians to raise the quota of Arab employees to 75 per cent of the total employees. Doctors, nurses, senior executives and technicians are not affected by this.

A number of Indians have acquired Saudi nationality specially during the last 10 years. Most of them have done so because the law of the country differentiates between Saudis and non-Saudis in the sphere of economic and social activities.

SINGAPORE

Entry of fresh immigration from abroad, including Indians, into Singapore, virtually stopped when the Singapore Immigration Ordinance came into force in August 1953. Under its provisions only wives and children under 18 years of the resident population were given the right of entry into Singapore which has also been stopped since 1st May 1959, when the Immigration Regulations had been amended to enforce stricter control of immigration. From December 1, 1959 only citizens of Singapore or persons born in Singapore, their wives and children under six years, have the right of entry into Singapore. The restriction does not however apply to technically qualified persons or others who under an employment pass are assured of a minimum salary of $1,200 per mensem if in service or who by viture of their highly technical qualification would prove in Government's view to be of service to the country.

In addition, some dependents mostly aged parents were also permitted on compassionate grounds during those years.

Indians in Singapore do not suffer from any special disabilities political, legal or otherwise.

There is no restriction on remittance from Singapore at the moment (Nov. 1960).

According to the census taken in June 1957, the total population of Singapore is 1,445,929, of which 75·4 per cent are Chinese. Total number of Indian population including Pakistanis is 124,084. Separate figures are not available. On 31st Dec. 1959 the number of Indians had increased to 137,300 in round figures.

The Singapore Citizenship Ordinance came into operation on 1st November 1957. Under the provisions of the Ordinance, Indians can register as Singapore Citizens after completing eight years of residence in Singapore.

SOUTH AFRICA

Persons of Indian origin in South Africa numbering about 430,000 are mostly labourers, traders, small farmers, factory workers, and in small numbers professionals.

Racial discrimination against Indians exists in South Africa in every walk of life and in the worst possible form. Persons of Indian origin are practically excluded from parliamentary, provincial and municipal franchise as well as from public services except in menial and subordinate posts.

"Apartheid" or racial segregation is the declared policy of the South African Government. In accordance with this policy Indians are subject to a number of restrictions as regards immigration, inter-provincial migration, residence, trade, industry, professional and other occupations. Racial segregation is also enforced in schools, post offices, railways, public transport, hotels, churches, social and religious gatherings and public utility undertakings.

The outstanding piece of anti-Asian legislation is the Group Areas Act, 1950. By this Act, the entire population of the Union has been divided into three main groups, White, Native and Coloured. Persons of Indian origin are included in the Coloured group. The Government will establish by proclamation "group areas" for exclusive occupation or ownership or both, of any of the groups. The various racial communities will have to live and occupy premises for trade and professions only in areas allotted to them. Indians and other non-Europeans will thus not be able to continue to hold properties in an area declared for the European group. The Union Government has already started taking active steps for the proclamation of group areas in a number of important cities in the Union. When the Act is fully implemented, persons of Indian origin will have to move into the areas exclusively reserved for them and this will disrupt their trade and business and involve immense losses running to millions of pounds.

The Group Areas Act was further amended in 1955 (Act No. 6 of 1955) to invest increased powers in the Land Tenure Advisory Board.

The first attempts to put this into effect are taking place in Johannesburg where areas outside the city are being got ready. The area set aside for Indians in this city is at Lenasia. It is reported that Indian traders have made an offer to the Government that if they are allowed to keep their places of trade in the city they would have no objection to residence in the allotted areas. It is also reported that the Government are considering the offer. Meanwhile European voices are being raised against the Group Areas Act on account of its enormous cost. Whole new townships have to be laid around other towns as well—Cape Town and Durban, for example.

It was reported in March 1960 that the whole Indian population of Rustenburg in the Transvaal was told to quit their homes and shops.

Asians have been declared prohibited immigrants since 1913, but the right of entry into the Union of wives and children of Indians domiciled in South Africa was provided for in the Reciprocity Resolution passed at the Imperial Conference of 1918 and later in the Cape Town Agreement of 1927. Under an Act passed in 1953, the Union Government banned the entry into South Africa of the wives and children of persons of Indian origin domiciled in the Union. But certain specified categories of wives and children of persons of Indian origin were allowed to enter South Africa till 10th February 1956.

The aim of the present South African Government in regard to Indians is their ultimate repatriation to India.

There are schemes in existence to tempt Indians to leave the country.

Practically all Indians domiciled in South Africa are South African citizens by law, but they are denied some of the most important rights of citizenship.

No Indian, who is not already a South African citizen, is allowed to acquire South African citizenship.

Indians have no franchise rights in the Provinces of Natal and Transvaal. In the Cape Province they enjoy limited franchise rights as for Cape Coloureds.

Indians are not eligible to a place in the Executive Council or Legislature, whether provincial or central.

There is no special limit to remittances by Indians to India.

The question of the treatment of the people of Indian origin in South Africa was placed before the General Assembly of the United Nations in 1946. In that year the U.N. General Assembly passed a resolution expressing the opinion that "the treatment of Indians should be in conformity with the international obligations under the agreements concluded between the two Governments and the relevant provisions of the Charter." Resolutions have been passed in subsequent sessions of the U.N. General Assembly in this respect, but the Union Government have paid little attention to these resolutions. In the Resolutions adopted in 1950 and afterwards the Union Government was also called upon to suspend the implementation of the Group Areas Act pending the conclusion of negotiations between the Governments of India, Pakistan and South Africa. But the Government of South Africa has proceeded with the implementation of this Act despite these Resolutions.

At the 1959 session again the General Assembly adopted a resolution expressing deep regret and concern that South Africa had ignored all previous appeals. This was passed by 62 to 3 votes with seven abstentions. The three negative votes were those of France, Britain and Portugal. The resolution on apartheid was passed without a discussion, though there had been a full debate in the Assembly Special Political Committee.

The resolution was milder than the resolutions adopted in earlier years. The general feeling was that a milder resolution might produce results where strong condemnation might fail.

SUDAN

Immigration is not allowed.

The Indian community is mostly in trade, more especially import, export. But a few Indians are in the employment of the Sudanese Government on contract. The community is on the whole well-off.

Remittances abroad are governed by exchange control regulations.

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SURINAM

This was formerly called Dutch Guiana. It is now an autonomous part of the kingdom of the Netherlands.

There are 71,000 Indians in a total population of 222,000. They form the second largest group.

Hindi is widely spoken and understood.

The community has made rapid economic progress, especially during the past 25 years. In medium-size enterprises they already have a stronger economic position than the Creoles, the largest group in the population of Surinam. Indians are mainly engaged in business and industry.

Migration into Surinam is possible only after a permit has been obtained from the local authorities. Such permission is granted if the applicant can prove that he is able to earn his living and has Rs. 1,250 "show money". There is no quota system and applications are considered on an *ad hoc* basis.

There are no constitutional, legal or any other disabilities on Indian residents. Remittances to India are unrestricted.

THAILAND

The annual quota is 200 and the selection is made by the Government's Immigration Division in Bangkok.

There are no legal or constitutional disabilities on the Indian population.

Remittances out of the country are controlled by the Bank of Thailand's rules and regulations.

U.S.A.

The U.S.A. has fixed a quota of 100.

There are certain categories of aliens who are excludable under Section 212 of the Immigration and Nationality Act. These exclusions apply to both immigrants and non-immigrants, though there are exceptions and certain discretionary powers are vested in the Attorney General and the Secretary of State.

The following classes broadly among others are excluded: feeble-minded, insane, mental defective, drug addicts, chronic alcoholics, those with dangerous contagious diseases like leprosy, or convicted for crimes involving moral turpitude, polygamists, anarchists, those who advocate or teach or are broadly associated with communism or with those who attempt to overthrow by violence the government of U.S.A.

There are a variety of requirements which must be met before an immigration visa can be issued. The first is the registration of the intending immigrant on the quota waiting list at a diplomatic or consular office of the United States. These offices are located in New Delhi, Bombay, Calcutta and Madras within India.

Within each quota there are four preference categories which may be stated briefly as follows: First Preference—Immigrants possessing special skills or training and their spouses and children. Second Preference—Parents and unmarried sons and daughters (over 21 years of age) of American citizens. Third Preference—Spouses and children of aliens admitted to the United States for permanent residence. Fourth Preference—Brothers, sisters, and married sons and daughters of American citizens.

Parenthetically, it may be stated that the spouses and children (who are both unmarried and under age 21) of American citizens are admitted on a non-quota basis. For the above preference categories, as well as for non-quota immigrants, petitions must be filed with and be approved by, the Attorney General of the United States.

In the annual allocation of a quota, the law requires that 50 per cent be allocated to the first preference, 30 per cent to second preference and 20 per cent be allocated to third preference. If any quota numbers are unused in the preference categories, they are used to satisfy shortages in first, second or third preference. It is only after all demands for first, second and third preference have been filled that numbers are available for fourth preference and non-preference categories. Of these remaining numbers, 50 per cent are allocated to fourth preference and 50 per cent to non-preference. It must be emphasized that under the Indian quota, the demands for first, second, and third preference have been so high that no numbers have been allocated to fourth preference and non-preference for several years. At present, there are waiting lists also for first and third preference on the Indian quota.

An immigrant, regardless of race, colour or creed, admitted into the United States as a permanent resident alien is eligible for American citizenship, if he fulfils the resident and other requirements laid down in the Immigration and Nationality Act of 1952, as amended.

It may be mentioned that one person of Indian birth who has become a naturalized citizen of the United States is now a member of the House of Representatives for the second time (Nov. 1960), Mr. D. S. Saund. There are no restrictions on the remittance of American funds abroad.

OTHERS

Indonesia has fixed a quota of 1,000 immigrants for a group of four countries, India, Pakistan, Ceylon and Burma. It is, however, entirely at the discretion of the authorities to permit individuals to immigrate.

Indians can go and live in Switzerland subject to the laws in force.

A TOURIST'S GUIDE*

For all information and assistance, visitors are advised to contact the Government of India tourist offices in India. The representatives of the Tourist Department are stationed on duty at the airport and in the case of Bombay a representative of the Tourist Office always meets all important passenger liners.

At the time of writing (March 1961), the 1961 Census are in progress. Population figures given in this article are for 1951. For 1961 figures see 'Late Particulars'.

In the second half of the article we give a list of places which have come into prominence through post-independence development activity —mostly connected with the Five Year Plans.

THE following hints meant for foreign tourists may be useful:

1. Every foreign tourist entering India should be in possession of a valid passport issued by his Government.

He should also obtain before leaving his country a tourist visa from the Indian representative abroad (or the British representative in countries where there are no Indian representatives). Commonwealth citizens (except those of Pakistan and Ceylon) are exempt from the visa requirement, provided their passports are valid for travel to India. Persons of non-Indian origin domiciled in South Africa are, however, required to obtain entry permits.

Transit visas are not required for through air/ship passengers in direct transit by the same flight or by the next regularly scheduled flight irrespective of whether the flight is of the same or a different Airline, provided the period does not exceed 72 hours and they leave from the same place. One can however leave the airport or ship by obtaining a landing permit for 72 hours on depositing his passport.

The normal period of stay cannot be stated. It depends upon the stay period granted by the visa issuing authority.

Normal period of stay on transit visa is 15 days.

No hard and fast rule can be laid down as regards the extension of visas. It will depend on the merits of each case. However, genuine tourists can stay for a maximum period of six months.

For short visits not exceeding 2 weeks to Pakistan, Nepal or Ceylon and Burma tourists may obtain return visas from the Deputy Commissioner of Police, Special Branch II, C.I.D., Bombay or from State Governments. For visits exceeding 2 weeks, they may apply for 'no objection' to return to India endorsements to the Deputy Commissioner of Police, Special Branch II, C.I.D., Bombay or Government. However in such cases they will have to obtain visas from the Indian authorities abroad before entering India.

2. No registration is required for foreigners staying in India for 30 days or less provided they have come on visas for less than 3 months. If they land in India with visas for more than 3 months stay, then they must report for registration within 7 days.

Those coming on visas for less than 3 months stay must get themselves registered with the Police immediately after the expiry of 30 days irrespective of the place where they landed. However, on request being made, registration can be done even before the expiry of 30 days.

3. The Government of India have placed no health restrictions on persons entering India by sea or air, except in regard to yellow fever.

However, all persons are advised, in their own interest, to be protected against small-pox and cholera according to international requirements.

Citizens of the U.K., Australia, Canada, New Zealand, Federation of Rhodesia and Nyasaland, Singapore, Malaya, Ghana and Ireland (Eire), excluding missionaries, and nationals of Nepal, wishing to proceed to India from a place other than Nepal, are required to possess valid passports without visas.

Nepalese, Bhutanese, Portuguese, Indians (Goans) and inhabitants of border districts of Tibet Region of China, when proceeding from their respective countries, require no passport or visa.

Nationals of Commonwealth countries (except Pakistan and Ceylon) and of the Republic of Ireland wishing to proceed to India for missionary work require special endorsements, while nationals of non-Indian origin in South Africa require special permits.

Nationals of all other countries require valid passports with visas. No visa is required for visitors in direct transit by air or sea within 72 hours from the same port.

* NOTE: When the population of a town is not given it may be generally assumed that it is less than 20,000.

Foreign exchange earnings through tourist traffic was about Rs. 18 to 20 crores, in 1958.

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Individuals without nationality or of undetermined nationality (Stateless persons, IRO refugees, persons receiving legal and political protection, holders of Nansen passports, etc. should have valid identity documents or sworn affidavits with visas.

Diplomats when travelling as tourists receive the same facilities as their countrymen.

Collective passports and family passports issued by other Government are recognised by the Government of India.

Visas are generally valid for a single journey only, but visitors who wish to proceed on short trips to other countries and return to India within the period of validity of the Indian visa, should apply for double or triple entry visas or entry-cum-transit/transit-cum-entry visas. If a visitor coming on short term visas wishes to extend his stay in India, he can, after arrival in India, apply for further extension of stay.

Foreigners who come on visits not exceeding three months for recreational or sightseeing purposes or for attending meetings convened by the Government of India or international bodies should, in their own interest, apply for tourist visas and not entry visas. Holders of tourist visas are entitled to the grant of Tourist Introduction Cards and facilities for liquor permits, reservation of accommodation in Government-owned Rest Houses and Retiring Rooms at railway stations, etc.

Foreigners who wish to break journey in India for short periods while in transit, should apply for transit visas which are issued for a maximum period of 15 days and entitle the holder to travel from the port of entry to the port of departure by a prescribed route which is not necessarily the shortest one.

Visitors holding tourist visas are advised to obtain from the visa issuing authority a printed Tourist Introduction Card. In case a bona fide tourist has not already obtained a Tourist Introduction Card from the visa issuing authority, he can obtain one from one of the Government of India Tourist Offices in India or overseas.

This card introduces the tourist to various Governmental authorities in India and will enable him to receive all possible assistance from them in matters concerning immigration, customs, clearance, air and rail reservations, liquor permits and reservation of accommodation in rest houses, dak bungalows and retiring rooms in railway stations.

4. All baggage is open to customs examination. The duty payable on most articles varies from 5 per cent to 150 per cent or more according to the article.

Certain personal effects are allowed to enter free. Also alcoholic liquor up to one quart, and one bottle of new, provided the tourist can procure a permit on arrival by producing his Tourist Introduction Card. Liquor permits are issued to tourists at the Santa Cruz Airport, Bombay and at Ballard Pier, on application immediately on landing. Failing this, the permit may be obtained from the Foreign Liquor Permit Office, Old Customs House, Mint Road, Fort or from the excise official at the following hotels: Taj Mahal, Greens, Ambassador, Grand, West End and Ritz.

5. Tourists are allowed to bring into India Rs. 75 in Indian money and foreign currency notes without licence or coins subject to declaration except in the cases specified below:

Indian coins from Pakistan Rs. 5 in value, Indian coins from Afghanistan Re. 1 in value. There is no limit on the amount of Travellers' Cheques.

The official rates of exchange are as follows: £1 equal to Rs. 13·33; U.S. $1 equal to Rs. 4·75. The actual buying and selling rates, however, differ slightly from these rates.

Foreign currency can be exchanged at any authorized dealer or money changer.

A foreign tourist can get a coupon booklet worth Rs. 125 with which to buy photographic films, tobacco and alcoholic drinks at specified places.

6. Tourists are advised to arrange for clearing their baggage by one of the recognized travel agencies.

On production of a certificate from an authorised officer of the Tourist Department of the Government of India, foreign tourists are allowed a concession of 25 per cent in air-conditioned fares and 'Travel As You Like' ticket on the Indian Railways, available for 30 days in an air-conditioned class of accommodation and in first class where air-conditioned accommodation was not available at a lump sum rate of Rs. 495.

Additional concessions for tourists:

Alcohol:—As an alternative to the allowance admissible under the rules, a tourist may be allowed to avail himself of a free allowance of one quart spirits.

Sporting Fire-arms:—Not more than four sporting fire-arms brought in by a tourist are allowed free of duty. These must, however, be covered by a surety of a Scheduled Bank or any Clearing Agent undertaking to re-export them within a period of 6 months.

Cartridges:—100 cartridges are allowed duty-free under the normal rules. Each tourist is allowed to bring in 300 (in all) cartridges, on payment of customs duty, in excess of 100, but without an Import Trade Control Licence.

Film:—Besides the 25 rolls of film for still cameras and 8 reels of substandard movie films which are allowed duty-free under the normal rules, each tourist can import 25 rolls of film for still cameras without I.T.C. and 12 reels of movie film on payment of duty but with an Import Licence.

TRAVEL AGENCIES

Here is a list of recognized agencies:

Indtravels Private Ltd., Neville House, Nicol Road, Ballard Estate, Bombay-1; American Express Co. Inc., Orient Building, Dr. Dadabhoy Naoroji Road, Bombay-1; Asiatic Travel Service, 12, Marzban Road, Bombay-1; Cox & Kings (Agents) Ltd., Lloyds Bank Building, D. Naoroji Road, Bombay-1; Hind Musafir Agency (Jamna Lal Sons), 51, Mahatma Gandhi Road, Bombay-1; Jeena & Co., 10, Veer Nariman Road, Bombay-1; Lee & Muirhead (India) Private Ltd., 12, Rampart Row, Bombay-1; N. Jamnadas & Co., 16, Bank Street, Bombay-1; Thos. Cook & Son (C & O) Ltd., H. O. Cook's Building, D. Naoroji Road, Bombay-1; Trade Wings (Private) Ltd., 30, Rampart Row, Bombay-1; B. O. 15, Old Court House Street, Calcutta-1; Balmer Lawrie & Co. Ltd., 5, Graham Road, Bombay-1; H. O.: 21, Netaji Subhas Road, Calcutta-1; Mercury Travels (India) Private Ltd., 70, Rampart Row, Bombay-1; H. O.: Grand Hotel, P.O. Box 925, Calcutta-1; Orient Express Co. Private Ltd., 359, D. Naoroji Road, Bombay-1; H. O. Janpath, New Delhi; Vensimal Bassarmal Travel Agents, 521, Kalbadevi Road, P.O. Box No. 2112, Bombay-2; G. Raghunathmull Bank Ltd., Hyderabad Deccan; Bharat Travel Service, Ltd., 310/311, Linghi Chetty Street, Madras-1; Ram Mohan & Co. Ltd., National Travel Service, P.O. Box 1723, Madras-1; Iyer & Sons Ltd., United India Building, Connaught Place, New Delhi; Everett Travel Service, Great Eastern Hotel Accade, Old Court House Street, Calcutta-1; National Travel Agency, Mercantile Building, 9 & 10, Lal Bazar, Calcutta-1; Harrison & Crossfields, Cochin; Saha & Rai Travels, New Delhi; Sita World Travel Inc., Hotel Imperial, Janpath, New Delhi.

SHIKAR OUTFITTERS

The following is a list of recognised shikar outfitters: Indian Shikar & Tours (P) Ltd., Jumna Bhawan, 3/14A, Asaf Ali Road, New Delhi; Allwyn Cooper (P) Ltd., Wardha Road, Nagpur; Asaf Ali of Porla, Porla, Distt. Chanda, Maharashtra; Jungleways, Prop.: Lt.-Col. S. A. H. Granville, Pachmarhi, M.P.; Tiger Camps (P) Ltd., Dumri, P.O. Sardarnagar, Distt. Gorakhpur, U.P.; Dr. Franklyn Woods, 49, Danning Road, Jabalpur, M.P.; Big & Small Game Hunting, Prop.: Thakur Dharamchandra, Kesaragarh Castle, Jaipur, Rajasthan; Safaris India, Prop.: P. M. Dinshaw, 102, Simrole Road, Mhow; Shikarees, Prop.: Nawabzada M. F. Khan, Bashirbagh Palace, Hyderabad; P. C. Dhir Birbar, Prop.: Shikar India, Talcher, Dhenkanal, Orissa; Hunters & Hunters, Ark Royal, 50/B, Peddar Road, Cumballa Hill, Bombay-26; Rajput Hunters, Kishangarh, Rajasthan; Lajinder Singh Bedi, 1/23, Asaf Ali Road, New Delhi; Umesh P. Verma, P. O. Dewan-ji-ka-Shikarpur, Champaran, Bihar; A. Imam, "The Grove", P.O. Hazaribagh, Bihar; O. R. Lincoln, 255, Denning Road, Jabalpur, M.P.; Game Trails India, P. Box No. 15, Bhopal (M.P.).

TOURIST OFFICES

The following is a list of Government of India tourist offices in India and abroad:

Director, Govt. of India Tourist Office, 123, Queen's Road, Bombay-1.

Director, Govt. of India Tourist Office, 88, Janpath, New Delhi.

Director, Govt. of India Tourist Office, 13, Old Court House Street, Calcutta.

Director, Govt. of India Tourist Office, 35, Mount Road, Madras.

Manager, Govt. of India Tourist Office, Krishna Vilas, Station Road, Aurangabad.

Manager, Govt. of India Tourist Office, Plot No. 5, Hamidia Road, Bhopal.

Manager, Govt. of India Tourist Office, The Mall, Agra.

Manager, Govt. of India Tourist Office, 15-B, The Mall, Banaras.

Manager, Govt. of India Tourist Office, 16-A, Mahatma Gandhi Road, Bangalore.

Manager, Govt. of India Tourist Office, Willingdon Island, Cochin-3.

Manager, Govt. of India Tourist Office, Tourist Bureau Building, Chaurastha, Darjeeling.

Manager, Govt. of India Tourist Office, Circuit House, Jaipur.

Director, Govt. of India Tourist Office, 28, Cockspur Street, Trafalgar Square, London S.W. 1.

Director, Govt. of India Tourist Office, 19 East, 49th Street, New York, 17, N.Y.

Manager, Govt. of India Tourist Office, 685, Market Street, San Francisco 5, California.

Director, Govt. of India Tourist Office, Indisches Verkehrsburo, Baseler Stress, 461, Baseler Houchhous, Frankfurt/Main, W. Germany.

Manager, Govt. of India Tourist Office, Leonard House, 46, Elizabeth Street, Melbourne (Australia).

Manager, Govt. of India Tourist Office, Ceylon Banks Building, York Street Fort, Colombo.

Director, Govt. of India Tourist Office, 5, Boulevard, Paris-9.

Information Assistant, Govt. of India Tourist Office, Jalgaon, East Khandesh.

Director, Govt. of India Tourist Office, 177-79, King Street (West), at University, Toronto, Canada.

TOURIST CENTRES

Mount Abu (hill station): Pop. 4,316 (1951) in Rajasthan, about 4,000 feet above sea-level. There are two seasons in the year, the first from the middle of March to the beginning of June, and the second from the middle of September to the end of October. *Places worth a visit:* 1. the Dilwara Jain temples (11th-13th century, A.D.) containing the finest marble carvings in India, 2. Achalgarh temples (15th-16th century, A.D.) and Mandakini Kund, 3. Ruins of an ancient

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town called Chandravati, 4. Nakki Talao (lake), 5. Arbuda Devi, a shrine cut in rock, 6. Guru Shikhar (5,646 ft.), highest point in Abu, 7. Sunset point, 8. Palanpur point, 9. Gaumukh Temple and Agni Kund, 10. the Municipal Park. Mount Abu is electrified and has waterworks with public utility taps. Permission is required to use the dak bungalows and Inspection Houses. Mount Abu is reached by railway and road. The nearest railway station is Abu Road on the metre-gauge section of the Western Railway from Ahmedabad to Delhi. From the station Abu Road is about 17½ miles by road, and there is regular motor service between the town and the station.

Agra : Pop. 375,665 (1951), a city in U.P., stands on the banks of the Jamuna. It was the capital of the Moghul Empire. *Places worth a visit :* 1. the Taj Mahal, regarded by many as the most beautiful building in the world. 2. the Fort, 3. the Juma Masjid, 4. Moti Masjid, 5. the tomb of Itmad-ud-Daula, 6. Akbar's tomb at Sikandra about five miles from Agra, 7. Dayal Bagh, 8. Twenty-three miles from Agra is the deserted city of Fatehpur Sikri founded by Akbar.

Ahmedabad : in Gujarat is the second largest textile centre in India. It contains numerous monuments of the fifteenth and sixteenth centuries. Pop. 788,333 (1951).

It is also a seat of Jaina art and culture. Founded in ancient times as Karnavati on the banks of the Sabarmati, it took a new look and a new name—City of Ahmed in the early 15th century. Many remains of buildings and architecture bear testimony to the synthesis of Indo-Islamic culture. Places worth visiting are: 1. Jumma Musjid (1423); 2. Shah Alum's Mausoleum (1475); 3. Rani Sipri's Mosque (1540); 4. Mosque of Sidi Sayyad (1572) for traceried windows with palm and parasite design; 5. Shaking Minarets; 6. Shahi Baug where Gurudeo Tagore stayed during his youth and which supplied him with material for his *Hungry Stones* (story); 7. Teen Darwaza (three Gates); 8. Mahatma Gandhi's Sabarmati Ashram; 9. Kankaria Tank; 10. Gujarat University & Gujarat Vidyapitha; 11. ATIRA, Textile Research Institute.

Aiholi : near Bagalkot in Mysore State contains about fifty temples important in the development of Hindu architecture and sculpture.

Badami, on which there is a separate note, is near Aiholi.

Ajanta Caves : are 66 miles north of Aurangabad in Maharashtra. The rock-cut caves are 29 in number (5 chaityas or shrines and 24 viharas or monasteries, all Buddhist) and present a record of a unique combination of painting, sculpture and architecture of a period extending over nine centuries from about the 2nd Century B.C. to about 7th Century A.D. The caves can be reached from Aurangabad where there is a good hotel conducted by the Central Railway.

Ajmer : city of considerable antiquity in Rajasthan, Hindu and Muslim religious centre, contains Western Railway workshop. Pop. 196,633 (1951). *Places worth a visit :* 1. the Durgah of Khwaja Sahib (tomb of Muslim saint), 2. the Magazine (Akbar's old palace now museum), 3. Ana Sagar Lake (the marble pavilions round the lake were built by Shah Jehan), 4. Adhai-din-ka-jhopra (Hut of two and a half day), 5. Taragarh (Fortress built by Akbar), 6. Mayo College, 7. Pushkar, a most sacred lake in India, is about seven miles away.

Allahabad: (also called Prayag); city in U.P. situated at the confluence of the Ganga and the Jamuna. It has an old fort and an Asoka pillar. Sixty-five miles from Allahabad is Kosambi, where the ruins of an ancient capital are being excavated. Pop. 332,295 (1951).

The confluence of the Ganga and Jamuna at Prayag is the holiest bathing place for Hindus in India. Every 12 years, Kumbha Mela (religious fair) is held attracting over 40 lakhs of pilgrims during the four weeks; a smaller fair occurs every six years—Adha Kumbhi. For the devout Hindu, Allahabad along with Banaras, and Gaya are the places he must visit, at least once during his lifetime.

The old Mughal Fort contains an underground temple where well carved images are seen and the pilgrims worship at a small tree taking it to be the Eternal Banyan Tree (Akshaya Vata.)

Allahabad has a large University and many educational institutions. It is the home town of the Nehrus, and their gift to the nation, Swaraj Bhavan which was their home is visited by many people throughout the year.

Almora: headquarters of the district of the same name, in U.P. 83 miles from Kathgodam Railway Station, it is the main town in Kumaon Hills (q.v.). Perched at an elevation of 5,600 ft., it is about two miles in length, like a saddle, and is said to have been founded four hundred years ago by Raja Kalyan Chand. Of all the hill stations in the area, Almora is the one which has the most attractive features: moderate rain-fall, temperate climate, the temperature seldom rising above 88°F., even during the summer days, and comparative freedom from fog. Within easy distance of Almora are many Himalayan peaks—Seehee Debi, Bandnee Debi and Binsar being the chief ones. Binsar Hill also known as Jhandi Dhar is only 13 miles from Almora and the bridle path leading to it, passes through enchanting jungle scenery. With its thick vegetation, dense Alpine forests, hundreds of unnamed wild flowers and many varieties of ferns, Jhandi Dhar is of peerless beauty.

Pindari Glacier can be reached from Almora at a distance of 75 miles, in eight stages, attaining an altitude of 13 to 14,000 ft. The most suitable time for this trip is either May-June or September-October.

Two other places in the Kumaon Hills are: Ranikhet and Naini Tal.

Cultural Institutions in Almora: Mayavati Ashram of the Ramakrishna Math; Shri Anand Mayee Ashram and Udaya Shankar's Dancing Institute.

(See also 'Kumaon Hills', 'Naini Tal' and 'Ranikhet'.)

Alwar, Bikaner, Jodhpur, Kotah : famous for Rajput historical monuments.

Amritsar: city in the Punjab, sacred to the Sikhs. Pop. 325,747 (1951). Amritsar is the very centre of the Sikh religion and has a big trade in grain and textiles. *Places worth a visit :* 1. the Golden Temple, 2. Baba Atal Tower, 3. Akal Takht, 4. Ram Bagh Gardens, 5. Fort Govind Garh, and 6. Jalianwalla Bagh Memorial.

Aurangabad : in Maharashtra is noteworthy because of its proximity to Ellora and Ajanta caves and Daulatabad fort. *Places worth a visit are :* 1. Bibi-ka-Muqbara—the tomb of Aurangzeb's wife which is a replica of the famous Taj, 2. Panchakki (old water-mill), 3. The shrine of Shah Musafir lies nearby, 4. Eight Buddhist caves near the town. Pop. 66,636 (1951).

Daulatabad, on which there is a separate note, is near Aurangabad.

Badami: in Mysore State, is famous for sculptured caves of the 6th century and for a group of Hindu temples. Fifteen miles from Badami is Pattadakal with another group of early Hindu temples (7th or 8th century), examples of pure Dravidian architecture.

Aiholi, on which there is a separate note is near Badami.

Bangalore: Largest city in Mysore and a health resort, is about 3,000 feet above sea-level. It is well laid-out and up-to-date with every urban facility. *Places worth a visit :* 1. Cubbon Park, 2. Lal Bagh, 3. Band-stand, 4. Race Course, 5. Maharaja's Palace, 6. Tippu's Palace, 7. Venkataramanaswamy Temple, 8. Vidhan Soudha (new Secretariat). Pop .778,977 (1951).

Lately a large number of industries have been established both by Government and private interests:

Bharat Electronics, Hindustan Aircraft, Hindustan Machine Tools, Indian Telephone Industries.

The Indian Institute of Science is a leading teaching and research body in India.

From Bangalore trips can be made to other places of interest—Belur, Halebid, Bhadravati (for the iron works) and Kolar Gold Fields.

Baroda : Capital of the former Baroda State, now part of Gujarat State, is about 250 miles to the north of Bombay, pop. 211.407 (1951). *Place worth a visit :* 1. Laxmi Vilas Palace (the residence of the Maharaja, one of the most beautiful palaces in India), 2. Old Nazar Bagh Palace, 3. Museum and Public Park, 4. Jubilee Garden, 5. L. F. Battery, 6. Kirti Mandir, 7. Baroda University, and 8. Kala Bhavan (Technical School).

Belur: in Mysore State, noted for its elaborately sculptured temples of the Hoysala period.

Halebid, on which there is a separate note is near Belur.

Banaras* : town in U.P. on the banks of the Ganges, very sacred to the Hindus and Buddhist alike. It is in fact the religious capital of Hindu India and contains about 1,500 comparatively large temples besides countless minor shrines. It is also reputed to be the oldest city in the country. Pop. 355,777 (1951). *Places worth a visit:* 1. Vishwanath Temple, 2. Bharat Mata Temple, 3. Manmandir, with Jaisingh's Observatory, 4. Aurangzeb's Mosque, 5. Gyan Wapi, 6. Nandeswar Kothi, 7. Ramnagar Fort, 8. Banaras Hindu University, and 9. Sarnath, a great Buddhist centre with many architectural remains, is about six miles from Banaras. The Budha preached his first sermon here.

There are also about 30 dharmasalas for Hindu pilgrims. Banaras is on the branch line from Moghul Sarai to Saharanpur.

Bharatpur : town in Rajasthan is famous for its historic fort. Pop. 37,321 (1951).

Bhubaneshwar : the new capital of Orissa, is a city of temples once said to number 7,000. *Places worth a visit :* 1. Lingaraj Temple, 2. Mukteshwar Temple, 3. Parasurameswar Temple, 4. Raj Rani Temple. Nearby are the Jain and Buddhist rock-cut caves of Khandagiri and Udayagiri and Asoka's Rock Edict at Dhauli. Bhubaneshwar is on the main S. E. R. line between Waltair and Howrah, about 20 miles from Cuttack and 38 miles from Puri.

Bijapur : town in Mysore State, capital of the old Adilshahi Sultans of Bijapur is rich with the remains of palaces, mosques and tombs. *Places worth a visit :* 1. Jami Masjid (the greatest mosque in South India), 2. Gol Gumbaz (the tomb of Mahammad Adil Shah and the second largest dome in the world), also called the Whispering Gallery, 3. Mehtar Mahal, 4. Ashar Mahal, 5. Gagan Mahal, 6. Chini Mahal, 7. Mecca Masjid, 8. Tas-Bavry (water-tank), 9. Malik-I-Maidan (Great Gun), 10. Landi-Kasab Gun, 11. Haidar Burj (tower), 12. Ibrahim Roza (the tomb and mosque of Ibrahim II), 13. Jala Mandir (reservoir), 14. Chand Bavri (old tank), 15. Granary, 16. Jod Gombaz (double tombs), 17. Bara Kaman Masjid, and 18. Begum Tank. Bijapur is a railway station on the Gadag-Sholapur section of the Southern Railway. There are a dharmasala and a travellers' bungalow about one and a half miles from the station. Pop. 65,734 (1951).

Bombay : second city and port in India called the Gateway to India. Pop. : over 3 million; Area (Greater Bombay) 174 sq. miles. It is the principal centre of the textile industry, and the second biggest financial centre. The foreign trade of Bombay is about 46 per cent of the total trade of India. The city returns 30 per cent of the country's total income-tax, and 20 per cent of the corporation tax. It is an important communications centre, served by several

* The official name is Varanasi.

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air-lines and two big railways of both of which it is a terminus. May and October are the hottest months, but from November to March it is pleasant. *Places worth a visit:* 1. the Gateway of India, 2. Apollo Bunder, 3. Prince of Wales Museum, 4. the Town Hall, and Central Library 5. Rajabai Tower and University Building, 6. Victoria Terminus of the Central Railway, 7. the General Post Office, 8. Crawford Market, 9. Brabourne Stadium, 10. Chowpatty sands, 11. Malabar Hill, Hanging Gardens and Kamala Nehru Park, 12. Central Station, Terminus of the Western Railway, 13. Race Course, 14. Bhandarwada Reservoir and Gardens, 15. Victoria Gardens and Albert Museum. Places near Bombay worth a visit: 1. Juhu (sea-side resort), 2. Versova (sea-side resort), 3. Vihar Lake (from which the city gets part of its water-supply), 4. Kanheri Caves (rock-cut caves of Buddhist origin), 5. Jogeshwari Caves, 6. Vajreshwari (temple and hot springs of medicinal property), 7. Mandapeshwar (cave temple), 8. Nirmal (temple and lake), 9. Ambarnath (temple), 10. Pawai Lake and the Technical Institute, 11. Pali (hot springs and small game shooting), 12. Elephanta Caves, 13. Vaitarna (water supply scheme), 14. Aarey Milk Colony, 15. The oil refineries at Trombay, 16. The Atomic Energy Establishment at Trombay. The chief means of conveyance in Bombay are trams, buses, electric railway, taxis and gharis.

Brindavan: See under Mathura.

Budh Gaya: near Gaya, in Bihar, a Buddhist centre of pilgrimage. It contains the famous mediæval Buddhist temple near the Bodhi Tree under which Gautam did penance and attained Enlightenment. Pop. 133,700 (1951). See also Gaya.

Bundi: in Rajasthan is well-known for its buildings. Jungles nearby provide plenty of tiger shooting. Pop. 22,697 (1951).

Calcutta: until March, 1912, the headquarters of the Indian Government, and now, as then, the commercial capital of India. It is the terminus of three great railways, and the port of an immense river traffic. Though it lies 84 miles from the Bay of Bengal on the River Hooghly, it has a larger foreign trade than any other Indian port, and its enterprising Port Trust has the largest revenue among Indian port authorities. It is the centre of five great industries—jute, tea, hides and skins, coal and lac. Its exports include besides these, rice and linseed. Population of West Bengal is 26.16 millions and of Greater Calcutta 4,578,071. *Places worth a visit:* 1. Victoria Memorial (contains a picture-gallery and museum), 2. the Indian Museum, 3. the Zoological Gardens, 4. the Jain Temple, 5. the Kalighat Temple, 6. Belvedere House (where the British Viceroys stayed when on visit to Calcutta), now the National Library, 7. Raj Bhavan (residence of the Governor of West Bengal), 8. Marble Palace (containing art treasures property of the Mullik family), 9. Fort William, 10. the Eden Gardens, 11. the Town Hall, 12. Haig Market, 13. Dalhousie Square, 14. the Race Course, 15. Dhakuria Lake, 16. the Hindu bathing ghats, 17. Dakshineshwar Temple. Places near about Calcutta which are worth a visit are: 1. Bally (holy place), 2. Belur (home of the Ramakrishna Mission), 3. the Botanical Gardens (contains the biggest banyan tree in existence), 4. Diamond Harbour (fort and customs house), 5. Dum Dum (airport of Calcutta).

Cape Comorin: also called Kanya Kumari in Madras State, is the southern-most tip of India.

It is the place where the Arabian Sea and the Bay of Bengal meet the Indian Ocean. Tourists go to have a view of sun-rise and sun-set.

It is easily reached from Trivandrum by public transport buses or private conveyance.

The spot is sacred to the Hindus and a place of pilgrimage as the reputed abode of Kanya Kumari the virgin goddess to whom the temple there is dedicated.

Chandigarh: capital of East Punjab is the youngest of Indian Capital cities. It was planned by the French architect Le Corbusier. Some of its public buildings are unique and therefore attract a lot of attention from students of town-planning. Chandigarh is situated near Kalka railway station of the Northern Railway.

Conjeevaram (Kanchipuram): the city of temples, the Banaras of the South, is about 45 miles to the south-west of Madras. It is one of the seven holy cities of India and the only one in the South. The place is divided into three parts, Shiva Conjeevaram, Vishnu Conjeevaram and Pillayar Paliyam, a testimony to the part played by all the main Hindu religious sects in the history of the city. There are over a thousand temples in all. *Places worth a visit:* 1. Kailasnath Temple (over 1,000 years old), 2. Vaikunth Perumal Temple (over 1,000 years old), 3. Ekambareswar Temple (400 years old), 4. Vedaraja Perumal Temple. Pop. 84,810 (1951).

Conjeevaram is on the Renigunta-Chingleput section of the Southern Railway and is easily accessible from Madras *via* Chingleput.

Cooch-Behar: in West Bengal, is known for the facilities and opportunities which it offers to shikaris in search of big game hunting. Pop. 33,242 (1951).

Coonoor: hill station on the Nilgiri Hills in Madras State, is about 6,000 feet above sea-level. The climate is mild and genial neither too hot in the summer nor too cold in the winter. The mean day temperature is 64 degrees. The north-east monsoon breaks in October and lasts about two months. The town has good water-supply and natural drainage facilities and is reputed to be one of the cleanest towns in South India. *Places worth a visit:* 1. Sim's Park (contains collection of plants), 2. Low's Waterfall, 3. Tiger Rock (hill fort). There are innumerable places for excursion and picnic purposes, *e.g.* the Droog, the Dolfin Nose, the Lamb's Rock, Laz Falls, Lady Canning Seat, the Ralliah Dam and Catherine Falls. The chief means of conveyance are cars which can be hired.

Coonoor lies on the narrow-gauge Mettupalayam-Ootacamund line of the Southern Railway. It is also connected by road with Ootacamund, and Kotagiri, another hill station. Pop. 23,902 (1951).

Darjeeling: hill station in West Bengal, lies on the lower slopes of the Himalayas about 370 miles to the north of Calcutta. It is 7,110 feet above sea-level. The maximum temperature in the summer is about 70 degrees and the minimum in the winter is about 35. The town commands picturesque views including that of Mount Kanchenjunga and on a clear day of Mount Everest. Various sports are available during the season such as fishing, shooting and horse-riding. Darjeeling has also a first-class sanatorium known as Eden Sanatorium. *Places worth a visit:* 1. Government House, 2. Town Hall, 3. Museum, 4. Observatory Hill (from where a magnificent view of Kanchenjunga can be obtained), 5. the Mall, 6. Natural History Botanical Gardens, 7. Birch Hill Park, 8. Senchal Lakes, 9. Ghoom Monastery, 10. Tiger Hill (from where the sunrise over Everest is generally viewed on clear October mornings).

Darjeeling is the terminus of the meter-gauge Darjeeling-Himalayan section of the N.E. Railway and is about 27 hours' journey from Calcutta. From Siliguri where the visitor has to change, Darjeeling can also be reached by car. Pop. 33,605 (1951).

Daulatabad: in Maharashtra near Aurangabad, contains the famous rock-hewn 12th century fortress at one time so prosperous that it led Muhammed Tuglak to shift his capital to it from Delhi (1308). Close by is the tomb of the Moghul Emperor Aurangzeb.

Delhi (New): the capital of India and the seat of the Union Government. It was planned in accordance with modern ideas by the architects Sir Edwin Lutyens and Sir Herbert Baker and was formally opened in 1931. New Delhi houses the President's House (now called Rashtrapati Bhavan), the Parliament, and the Secretariat. All the buildings in New Delhi are white except the ones mentioned above. These latter are built of red sandstone. Pop. 276,314 (1951).

Delhi (Old): also called Shahjahanabad, the ancient capital of India stands on the Jamuna and is enclosed by a stone wall with seven gates. It has a history going back to 3,000 years and within an area of 50 square miles eight Delhis rose and fell. The seven predecessors of present-day Delhi are Kutub, Siri, Tuglakabad, Jahanabad, Firozabad, Purana Quila and Shahjahanabad. No city in India contains as many historical remains as Old Delhi. One can trace here the growth and decay of almost every dynasty which held sway over the ancient land of Hindustan. There are a number of factories, jewellery, gold and silver embroidery and ivory carvings works for which Delhi is well-known. Pop. 914,790 (1951). Delhi is a great distributing centre for cotton, wool and silk. Industries include hardware, utensils and stoneware. Delhi is also a large market for grain. Lately tourist traffic has grown into a regular new trade. *Places worth a visit:* Red Fort, Jama Masjid, Rajghat (Mahatma Gandhi's Samadhi), Ashoka Pillars, Feroze Shah Kotla, Purana Quila, Humayun's Tomb, Isa Khan's Tomb, Lodi Park and Lodi Tombs, Safdar Jang's Tomb, Kutab Minar, Tughlaqabad, India Gate or War Memorial Arch, Rashtrapati Bhavan, Parliament House, National Museum, Shri Lakshmi Narayan Temple, Jantar Mantar or the Observatory.

Delhi is directly connected by rail and air with Bombay, Calcutta and Madras. The Central and Western Railways connect it with Bombay, the Northern and Eastern Railways with Calcutta, and the Southern and Central Railways together with Madras.

Delhi also lies on the direct East-West trans-world air routes linking India with all the major cities of the world.

Elephanta Caves: on an island of the same name, about 6 miles from Bombay harbour, are mainly dedicated to Shiva and the sculpture shows that God in His many forms. These belong to the 7-8th century and though there have been mutilations of the figures, the caves are well preserved considering they are very old. The main cave, almost 125 ft × 125 ft, is the only impressive structure, and the rest of the island is used more as a picnic spot by holiday makers. There is a launch service as well as a ferry steamer. An official of the Archaeological Department is available on the spot.

The main figure of three-heads, Mahesh Murti, is considered among the world's most impressive sculpture, for its size, beauty and execution.

Ellora Caves: are situated about 15 miles to the north-west of Aurangabad in Maharashtra. The caves which are excavated in the face of a hill are 34 in number and run north to south for a distance of a mile and a quarter. The hill has the shape of a crescent the southern, the centre, and the northern being occupied respectively by Buddhist, Hindu and Jain temples. There are 12 Buddhist caves, 17 Hindu caves and 5 Jain caves. The Hindu caves are more lavishly decorated than others and Kailash Temple which is the most impressive is also the biggest cave temple in India. It stands in a court averaging 154 feet wide, 276 feet long with a scrap 107 feet high at the back. Among other notable caves are caves X, XII, XIV, XV, XXIX, XXXIII, XXXIV. It is believed that the Ellora Caves are about a thousand years old. They are reached from Aurangabad by bus or car. Thrishneshwar temple near the caves is an important place.

Ernakulam: in Kerala State, is famous for its backwaters. Pop. 62,283 (1951).

Fatehpur Sikri: City founded by Akbar in 1569 but abandoned soon after, is situated 23 miles from Agra. Akbar wished to make it his capital but it had to be abandoned because of lack of water. Here Akbar's son Salim (Emperor Jehangir) was born. The place contains a number of palaces, shrines, mosques built of marble and red sandstone. *The more notable among the monuments are:* 1. Buland Darwaja,

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the Gateway of Victory, built to commemorate the conquest of Khandesh. It is 176 feet high and is the highest gateway in India. It forms the southern gateway to the most imposing structure in Fatehpur Sikri, 2. the Jami Masjid, said to be a copy of the mosque at Mecca or Medina, 3. Panch Mahal, 4. Diwan-i-Khas (Hall of Private Audience), 5. Mariam's House, 6. Palace of Jodh Bai, 7. House of Birbal, 8. Elephant Tower and 9. Khas Mahal. Fatehpur Sikri has a railway station, and the city can be easily reached by car.

Gaya: big town in Bihar, on the Phalgu river, sacred to Hindus and Buddhists alike. The Vishnupada, a temple, built over the footprint of Vishnu is the centre of the pilgrimage and the Akshaya Vata, the Eternal Banyan tree, is an object of veneration. See also Budha Gaya.

Gersoppa Falls : See Jog Falls.

Golconda : 5 miles from Hyderabad is an ancient spectacular fort (Andhra).

Gopalpur-on-Sea : in Orissa is a sea-side resort for a quiet holiday.

Gulmarg : an ideal hill station in Kashmir, about twenty-nine miles from Srinagar, is a little less than 9,000 feet above sea-level. The place boasts of all modern facilities and is particularly noted as a winter playground affording scope for skating, ski-ing, tobogganing, and golf. Round about are ideal places for walks, rides and excursions.

Gwalior : in Madhya Pradesh, best known for its fort (which is reputed to be the most interesting and remarkable example of a Hindu palace of an early age) lies about 200 miles to the south of Delhi. *Places worth visiting :* 1. Gwalior fort includes Man Singh's Palace and a number of temples and shrines), 2. Tansen's Tomb, 3. Rani (of Jhansi) Laxmi Bai's Chhatri, 4. the Chhatris of other Mahratta rulers, 5. Tomb of Mahomed Ghaus, 6. Jami Masjid, 7. State Museum, 8. King George Park and Zoo, 9. Motimahal Palace. Seventy-two miles from Gwalior is Shivpuri or Sipri famous for its lake and scenery. Survaya which is twelve miles again from Shivpuri contains the remains of a fortress of the early mediæval period. Gwalior is on the main Central Railway line between Bombay and Delhi. Pop. 241,577 (1951).

Halebid : in Mysore State is well known for its elaborately sculptured temples of the Hoysala period.

Belur, on which there is a separate note, is near Halebid.

Hampi : in Mysore State, is the ruined capital of the Vijayanagar Empire. It is 8 miles from the Hospet Railway Station on the Southern Railway. The ruins are about 600 years old and are described as "virtually a vast open air museum of Hindu monuments in the Dravidian style of architecture".

Hardwar : in U.P. on the Inner Himalayas, on the banks of the Ganga is a great Hindu pilgrim centre. It is situated at the foot of the Siwalik hills on the right bank of the Ganga where the river enters the plains. The object of attraction is the bathing ghat called Hari Ki Payri (step of Hari). Every twelfth year a fair is held, called Kumbh Mela which has a special sanctity. Devout pilgrims proceed from here further up to Rishikesh, and to Badrinath.

Hyderabad-Secunderabad : the twin city linked together by the Hussain-Sagar (lake), is the capital of Andhra Pradesh and is centrally situated for all-India communications. It is a railway junction as well as an important air-port, and stands on the banks of the river Musi. Hyderabad was known as Bhaga Nagar when it was founded 400 years ago. It has many attractions. 1. Char Minar (four Minarets) dominates the City with 80 ft. high-minarets, built in 1591 ; 2. Osmania University with its impressive building and Ajanta Pavilion ; 3. Town Hall ; 4. State Museum and Art Gallery ; 5. Salarjung Museum —one of the richest and most varied collections in Asia ; 6. Health Museum and Public gardens. Golconda Fort forms one of the suburbs of Hyderabad. Many new industries are coming up in the city. Pop. 1,085,722 (1951).

Imphal : north-east frontier town and capital of Manipur. It is celebrated for its Manipuri dance and handloom products.

Jabalpur : in Madhya Pradesh; fourteen miles from Jabalpur are Marble Rocks and Dhunva Dhar (water-falls) on the Narmada. Pop. 256,998 (1951).

Jaipur : capital of Rajasthan State, is a well laid-out modern city. It is famous all over India for the beauty of its art and the skill of its artisans. Jaipur pottery, brass ware, sculpture, ivory and sandal-wood work and jewellery have enjoyed a great reputation from ancient times. Pop. 291,130 (1951). *Places worth a visit :* 1. Maharaja's Palace, 2. Jai Singh's Observatory, 3. Amber (ancient capital), 4. Hawa Mahal, 5. Palace Armoury, 6. Cenotaphs of the Queens, 7. Galta (place of pilgrimage) and Ghat. 8. School of Arts. 9 Public Library, 10. Transport Gardens, 11. Museum.

Jaipur is on the metre-gauge line of the Western Railway between Ahmedabad and Delhi.

Jamshedpur : in Bihar, famous as India's 'steel town'. Pop. 218,162 (1951).

It had its beginnings 60 years ago when the Tata Iron & Steel Co. built their plant. Today besides the two-million ton steel plant there are many subsidiary units. Tata Locomotive Engineering Co. Ltd. manufactures metre gauge locomotives and boilers and Mercedes-Benz trucks and buses. The National Metallurgical Laboratory is also situated here. The town is well-laid out with modern amenities and welfare schemes.

Jog Falls : also known as Gersoppa Falls in Mysore State, are one of the highest waterfalls in the world. The river Sharavati takes a big leap down a steep rock from a height of 830 feet. The breadth of the stream here is 230 feet and in four separate cascades known as the Raja, Roarer, Rocket and La Dame Blanche, it takes a magnificent leap. The best time to see them is early December.

Junagadh : in Gujerat, is situated below the celebrated Girnar Hill and is one of the most ancient cities in India. The temples on the hill are noted for their architecture and delicate painting. On the way to Girnar is a rock with an Asoka edict. Pop. 62,730 (1951).

In Junagadh is the famous Gir Forest—the only place in Asia where lions are found.

Kangra Valley : famous for its picturesque landscapes and historic temples, lies in the Punjab. Semi-urban hill stations are Kangra and Dharamsala. *Places worth a visit in Dharamsala are :* 1. Bhagsunath Water Springs, 2. State Quarries, 3. Himalayan Snow View. The chief means of conveyance are cars and buses. There is also a dak bungalow at Dharamsala where visitors can stay. To get to the Kangra Valley a visitor has to change at Pathankot into the narrow-gauge railway which runs to Nagrota. Dharamsala can also be reached from Pathankot by car.

Kanheri : near Bombay, is famous for its Buddhist caves dating back to the 1st century A. D. It is about twenty miles from Bombay.

Kashmir : unsurpassed for the beauty of its mountains, lakes and valleys is a part of the State of Jammu and Kashmir, situated in the far north of India. Its capital Srinagar on the Jhelum is 5,000 ft. above sea-level and famous for its shawls and carpets and the exquisite beauty of its wood-work, rich embroidery and papier-mache articles. Its fruits and vegetables are equally well-known. Well-furnished, luxurious house-boats moored along the winding Jehelum or in the Dal Lake provide all necessary comforts amidst gorgeous natural surroundings. The normal recreations include Shikara rides on the lakes and canals, mountain-climbing, big and small game hunting, golf, fishing and swimming. Gulmarg, Sonamarg and Pahalgam are favourite holiday resorts in the neighbouring mountains and can be reached by motorable road. The way to Srinagar is *via* Pathankot, which is a railway terminus. From Pathankot one goes to Srinagar by road passing Jammu on the way. There is a regular air service from Delhi to Srinagar. *Places worth a visit :* 1. The Moghul Gardens, like *a.* Shalimar, *b.* Chashmashahi, *c.* Acchabal, *d.* Nishat. 2. The lakes like *a.* Dal Lake, *b.* Wulur Lake, *c.* Anchar Lake, *d.* Manasbal Lake and so on. 3. Places of historical and religious interest like *a.* Martand temple, *b.* Pandranthan temple, *c.* Bhaumazu caves, *d.* Avanti Pura, *e.* Pari Mahal and *f.* Sankaracharya Hill.

Khajuraho : in Chhattarpur in Madhya Pradesh, is famous for its group of highly ornate mediaeval Hindu temples. From the nearest railway station Harpalpur on the Jhansi-Manikpur line, it is about 60 miles by motorable road. It has dak bungalows and circuit house rooms.

Kodaikanal : famous hill station on the Palni Hills in Madras State. It is about 7,000 feet above sea-level and has a temperate climate. The average annual rainfall is 65 inches, the major part of the rain falling in October, November and December. The months of April, May and June constitute the 'season'. The town enjoys excellent water-supply and is also well-equipped with all the ordinary amenities of life. The place affords plenty of scope for such recreations as walking, hiking, boating, fishing, hill climbing and golf. Going on an excursion or picnic is yet another way of diverting oneself. For the more adventurous there is big game hunting. Kodaikanal is the delight of the gardener and flowers are in bloom all the year round. *Places worth a visit :* 1. the lake skirted by a three-mile road, 2. the water falls like *a.* Fairy Falls, *b.* Silver Cascades, *c.* Bear Shola Falls, *d.* Glen Falls, *e.* Pamber Falls, 3. There are view points like *a.* Coaker's Walk, *b.* Pillar Rocks, *c.* Prospect Point, *d.* Vembadi Shela Peak, *e.* Dolphin's Nose. 4. the Solar Observatory.

There are a number of boarding houses, and fully furnished flats can also be rented. Kodaikanal is reached from Kodaikanal Road railway junction on the Southern Railway *via* Tiruchirapalli. Kodaikanal town is 50 miles from the railway station and the journey can be done by car, taxi or bus on a very good motoring road.

Kolar Gold Fields : in Mysore State. At present three mines are worked : the Mysore (Oorgum) ; the Champion Reef and the Nundydroog Mines which are near one another. The entire mining and residential area is known as KGF (Kolar Gold Fields) and is a modern and self-contained unit with water supply, electricity and hospital facilities. The city occupies an area of over 30 sq. miles, and houses nearly 160,000 people. It is about 90 miles by road from Bangalore. The mines have reached a depth of about 12,000 ft. Pop. 159,084 (1951).

The gold fields are nationalized and worked by the Mysore Government.

Konarak or Konark : in Orissa, is a huge Temple of the Sun also called the Black Pagoda. It is remarkable both as an example of ancient Indian architecture and sculpture and of engineering skill. A part of the temple is destroyed but on the porch stand the huge figures of warriors and life-sized pieces of horses and elephants and the famous carved wheels at the basement. The image of Aruna, the charioteer of the sun on a monolith in the yard of the Puri Temple was removed from Konarak by the Marathas. Konarak is about 50 miles from Puri, 40 miles from Bhubaneshwar. The road is open from November to May.

Kotagiri : A hill station on the Nilgiris, higher than Coonoor, but lower than Ootacamund, is smaller and quieter than either. It is about 6,500 feet above sea-level and has a mean day temperature of 62°F. The town has electricity, a number of shops and boarding houses, a local board hospital and golf course. Kotagiri is reached from Coonoor or Ootacamund by car or bus. The roads are excellent and there is a regular bus service. Between Kotagiri and

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Ootacamund the road goes over Dodda-betta the highest peak (8,760 ft.) in the Nilgiri Hills (Madras State).

Kulu Valley : well-known for the variety of its scenery, fruit orchards and places of historical interest is situated in the Punjab, north of Simla. It is ideal for hiking and trout fishing. The important part of the valley from the tourist's point of view is the road which runs from Pathankot or Nagrota the rail-heads into the valley. A few miles beyond Pathankot the road passes through the rich cultivation of the Kangra Valley and the extensive tea gardens surrounding Palampur and Baijnath. The traveller has a view of the majestic snow-capped mountains of the Dhaula Dhar range standing out in bold relief against the sky-line. He also comes across the ancient temples of Baijnath. Beyond Aut after Mandi the valley opens out and the final stretch through the lovely Kulu Valley mainly along the left bank of the river Beas offers an entirely different type of scenic effect. The Kulu Valley is also called the 'Valley of the Gods' as in addition to several important deities like Raghunathji at Sultanpur and Jamlu of Malana every village has its own particular God. The best season is from March to May and September to November. The summer is never uncomfortably hot. The main centres of the Kulu Valley are : 1. Kulu or Sultanpur, the principal town, about 4,000 feet above sea-level. It is the main shopping centre and has a dak bungalow, and a number of rest-houses. 2. Raison, 8 miles from Sultanpur and 4,700 feet above sea-level. The available sports are golf, tennis and swimming. Mayflower and the Shacks are two hotels. 3. Katrain, is in the widest part of the Valley, 12 miles from Sultanpur and 4,800 feet above sea-level. 4. Naggar, summer headquarters, is 5,800 feet above sea-level. There is a departmental rest-house and a serai. 5. Manali, the head of the valley and terminus of the motor road, is 23 miles from Sultanpur and is situated amid typical Alpine scenery. Accommodation for visitors is available at Sunshine Orchards, Departmental rest houses and Mission Hospital. Except Manali, the road to which may be occasionally closed owing to snowfall the rest of the valley is open throughout the year. Pathankot is the rail-head for Kulu. From Pathankot Kulu is reached by bus or car, or from Pathankot to Nagrota by metre-gauge railway and from there by bus to Kulu.

Kumaon Hills : in U.P. form part of the Himalayas and are known as the sportsman's paradise. Three important summer resorts are Almora, Nainital and Ranikhet. Most mountaineering parties establish their base at Ranikhet for ascent to the Pindari Glacier.

Tiger shooting is available in the Terai and Bhabhar Forests in the Kumaon region.

(See also 'Almora', 'Nainital', 'Ranikhet').

Lansdowne : in U.P. in Garhwal about half way between Mussoorie and Nainital.

Lonavla-Khandala : in Maharashtra, lies in the heart of the Western Ghats. Hill forts associated with Maratha rule are in the vicinity. The Karla, Bhedsa and Bhaja caves, 10 miles from Lonavla, are an added attraction (see also under Poona District).

Lucknow : the city of gardens is the capital of U.P. It is full of places of historical interest and of architectural beauty and is generally regarded as the cultural capital of North India. It is well-known for its pottery, copper and brass-ware, wood and ivory carvings and gold and silver embroidery on cloth, and rich perfumes. Legend connects the founding of the city with Laxmana, the brother of Rama, the mythical hero of the Ramayana, and is sometimes called Laxmanpur. Pop. 496,861 (1951). *Places worth a visit :* 1. Great Imambara, 2. Small Imambara, 3. Tombs of Wajid Ali Shah and his Begum, 4. Kaiser Bagh Palace, 5. Chattar Manzil, 6. Dilkhusha Palace, 7. Moti Mahal, 8. Machi Bhavan Palace, 9. Jumma Masjid, 10. Charbagh, 11. Alambagh, 12. Sikander Bagh, 13. Musa Bagh, 14. Wingfield Park, 15. Residency, 16. Havelock's Tomb, 17. Clock Tower, 18. Museum, 19. Observatory, 20. Iron Bridge. Lucknow is a big junction on the Northern Railway.

Madras : the third largest city in the sub-continent and the capital of Madras State. It is the place where the English first settled to trade. Pop. 1,416,056 (1951 census). *Places worth a visit :* 1. Fort St. George (contains the oldest Protestant church in the country where Clive was married), 2. High Court, 3. Light House, from the top of which one can get a panoramic view of the city, 4. Marina. The Marina is one of the most beautiful promenades in the world ; sea-bathing is possible at certain points, 5. The Museum, 6. Connemara Library, 7. the Zoo, 8. the Observatory, 9. Moore Market, 10. Parthasarathy Temple, 11. Mylapore Tank and Kapaleshwar Temple, 12. St. George's Cathedral. 13. St. Thomas Mount, 14. Race Course, 15. The Integral Coach Factory at Perambur, where passenger coaches are made, 16. Adyar, where the headquarters of the Theosophical Society are located. There are two places round about Madras which are also worth a visit: 1. the ruins of the Gingee Fort famous in the days of the Vijayanagar Empire are about 95 miles from Madras and can be reached by rail and road, 2. the seven Pagodas of Mahabalipuram are 35 miles by road from Madras and can also be reached by road from Chingleput Railway Junction. Kalakshetra is a well-known institution for music, dance and drama at Adyar.

Madurai : the second biggest city in Madras State, is a great religious centre, containing as it does a number of famous temples. In the old days it was the capital of the Pandya kingdom and has always been a seat of Tamil literature and Hindu temple art. The silk-weaving and textile industries of Madurai are also noteworthy. *Places worth a visit :* 1. The Great Temple, actually made up of two temples one of Meenakshi and the other of Shiva, 2. Tirumal Nayak's Palace, 3. Gandhi Museum and Gandhigram. Pop. 361,781 (1951).

Mahabaleshwar : a hill station in Maharashtra, the season being April, May and October. It is 4,500 feet above sea-level and is noted for its bracing climate. It is also well-known for its fruit and vegetables, orchids and lilies which bloom in April and May. The chief recreations are hiking and driving in a car. Among the sports which are available are tennis, golf and polo. *Places worth a visit :* 1. The two Government Houses old and new, 2. Reay Garden and 3. The two temples of the river Krishna and Mahabaleshwar. Then there are a number of points from which magnificent views can be obtained, like Arthur Seat Point, Baghdad Point, Castle Rock, Carnac Point, Connaught, Point, Falkland Point, Elphinstone Point, Margney and Lardwick Point and Bombay Point. Then there are the waterfalls like Chinaman's Waterfall, Dhobi Waterfall, Lingmala Waterfall and a lake called Yenna Lake. The forts of historical interest, all connected with the name of the Mahratha leader Shivaji are, Kamalgarh, Makrandgarh, Pandavgarh, Pratapgarh and Raigarh. Near Pratapgarh are the Bhavani Temple and the tomb of Afzulkhan. All these places are accessible by road from Mahabaleshwar. Holiday camps have been started by the Maharashtra Government.

Mahabaleshwar can be reached from Poona by road.

Mandu : in Madhya Pradesh is one of the greatest mediaeval city sites in India with extensive remains including fortifications and palaces. Seventy-eight miles west of Mandu by road *via* Dhar are Bagh caves adorned with fine old frescoes.

Matheran : the nearest hill station to Bombay is 2,650 feet above sea-level, and is famous for the magnificent views which it yields. The town looks on to the sea, and the coastal plain rises imperceptibly until it reaches the steep ascent of the Ghats. In a walk round the eighteen-mile circumference of the hill the visitor can reach no fewer than thirty-three points of which the following deserve mention: 1. Garbut Point, 2. Panorama Point, 3. Porcupine Point, 4. Louisa Point, 5. Chowk Point, 6. Alexandra Point, 7. Belvedere Point, 8. Echo Point, 9. Monkey Point. At every one of these points the visitor will find comfortable seats, shady trees and fine views. Among other places which are worth a visit are: 1. Charlotte Lake, 2. Paymaster Park, 3. Band-stand, 4. Castle Hill Tower, 5. Race Course. The chief recreations are walking and riding. Rickshaws, munchils and horses are the chief means of conveyance.

Matheran is reached from Neral Station on the main railway line between Bombay and Poona. From Neral there is a light railway to Matheran which is about one-and-a-half-hour's journey. Alternatively one can do the journey by rickshaw or pony by previous engagement at Matheran.

Mathura-Brindavan : in U.P. is an important place of pilgrimage for Hindus, because of its associations with Shri Krishna. Near the railway station is an archaeological museum which houses unique relics of Kushan art. Six miles from Mathura is Brindavan.

Brindavan is a holy place of Hindus. It is sacred because of its association with the birth and early life of Shri Krishna. *Places worth a visit :* 1. Govind Dev Temple, 2. Gopinath Temple, 3. Ranganath Mandir.

There are travellers' bungalows. Brindavan is accessible by railway or road from Mathura. Pop. 98,552 (1951).

Mussoorie: A hill station in U.P. lies 18 miles to the north of Dehra Dun. It is 6,580 feet above sea-level. The town has excellent water-supply, electric lighting system, hospitals, nursing homes and some of the best schools in India both for boys and girls. There are also plenty of sports and amusements. And like every Himalayan hill station one can obtain magnificent views of mountain tops and green river valleys. Hiking and going on excursion or picnic are among the main recreations. *Places worth a visit:* 1. The falls like *a*. Bhatta Falls, *b*. Kamptee Falls, *c*. Hearsay Falls, *d*. Mossy Falls, 2. Wimper's Tank, 3. Bandstand. Mussoorie is reached from Dehra Dun by car or bus and is about two hours' journey.

Mysore (State) : commemorates the destruction of Mahishasur, the demon by Chamundi who is the tutelary goddess of the royal family of Mysore. Mysore is a picturesque land of forest and mountain presenting the most diversified and beautiful scenery. In the southern forests are found wild elephants for the capture of which khedda operations are undertaken from time to time. Tigers, leopards, bears and bisons are also numerous. *Places worth a visit in Mysore State :* 1. The Chenna Kesava Temple at Belur, 24 miles from Hassan, 2. Sivasamudram Falls on the Cavery River, 3. Hoysaleswara Temple at Halebid, 4. Gersoppa Falls also called the Jog Falls on the Sharavati River, the most famous beauty spot in Mysore. The falls are higher than Niagara, 5. Kolar Gold Fields, the biggest in India worked by electric power, 6. Nandidurg, a hill station near Bangalore, and the summer residence of Tippu Sultan, 7. Srirangapatnam of historical and religious interest as the capital of Tippu and as the city of many temples, 8. Shravanabelgola, the great Jain religious centre with the huge monolith Gomateshwara and of course the city of Bangalore and the town of Mysore.

Mysore (City) : second city in the State, is built in accordance with modern standards, and contains a number of beautiful public buildings. It attracts great crowds twice a year when the city wears a gala appearance. These two occasions are the Maharaja's birthday and the Dasarrah. *Places worth a visit :* 1. The palaces like the Maharaja's Palace, Jaganmohan Palace and so on, 2. Chamundi Hill, with the Bull and the Temple, 3. Zoological Gardens, 4. Silk Factory, 5. Sandalwood Factory, 6. Krishnarajasagar Dam and the Brindavan Gardens, among the most beautiful in the world, about 12 miles from Mysore. Mysore is one of the terminii of the Southern Railway. Pop. 244,323 (1951).

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Naini Tal: hill station is about 6,350 feet above sea-level. Among the principal recreations are hiking, boating and yachting on the lake around which the town stands, and fishing and riding. One can also enjoy the Himalayan mountain scenery. *Places worth a visit:* 1. Cheena Peak, 2. Land's End, 3. Lariya Kanta Peak, 4. Sher-ka-Danda Peak, 5. Tiffin Top or Dorothy Seat, 6. Camel's Peak or Deopatta Peak. Naini Tal is 22 miles from Kathgodam railway station which is connected with Bareilly and Mathura. From Kathgodam one goes by bus or car to Naini Tal which is 22 miles away.

(See also 'Kumaon Hills' and 'Almora' and 'Ranikhet').

Nalanda: in Bihar, approachable from Patna by rail or motor, contains a group of ruined Buddhist temples and monasteries and a small local museum. It was the seat of an ancient Buddhist university.

Nasik: in Maharashtra and 117 miles from Bombay on the N.E. line of the Central Railway, is a place of pilgrimage for Hindus and is famous for Buddhist rock-cut temples of the first century B.C. and later. Pop. 97,042 (1951).

The golf links at near-by Deolali are an added attraction.

Ootacamund: hill station in Madras State stands 7,500 feet above sea-level on the Nilgiris. It is sometimes called 'the queen of the hill stations.' One of the main features which distinguishes it from other hill stations is the number and length of motorable roads which go winding in and out of spacious parks or long stretches of turf studded with ornamental trees. The mean temperature for the year is 57°F; during the winter the thermometer touches freezing point. Ootacamund is called the sportsman's paradise: plenty of fishing and big game shooting being available. There is also golf and tennis and during the season races and tournaments are held. *Places worth a visit:* 1. Botanical Gardens, 2. Race Course, 3. Assembly Room, 4. Dodda Betta, the highest peak in the Nilgiris, 5. Pykara Hydro-Electric Dam which is about 18 miles from Ootacamund. Ootacamund is the terminus of the Nilgiri mountain railway and 6. Kundah Hydro-electric Scheme which includes many lakes, dams and power houses. Pop. 41,370 (1951).

Pachmarhi: hill station, was summer capital of Madhya Pradesh, lies on the Mahadeo hills of the Satpura Range and is about 3,500 feet above sea-level. There are about 20 golf links in the town and plenty of game is also available in the Pipariya forest. *Places worth a visit:* 1. Bee Dam, 2. Mahadeo Caves, 3. Dhupgarh, highest point in the Satpuras, 4. Dorothy Deep Falls, 5. Duchess Falls, 6. Lansdowne Hill, 7. Nilphur springs, 8. Waters Meet, 9. Big Falls, 10. Pansy Pool, 11. Twipram Pool, 12. Saunder's Pool, 13. Pandava Caves. Pachmarhi is reached from Pipariya Station on the main Central Railway line from Bombay to Jabalpur. From Pipariya, Pachmarhi is 32 miles.

There are facilities for swimming, trekking and riding.

Padmanabhapuram: in Kerala, is the ancient capital of the former Travancore State. *Place worth a visit:* Palace.

Pahalgam: in Kashmir in the lap of the Lidder Valley is situated 60 miles from Srinagar and is famous for its camping sites, and as a base for the Amarnath Cave and Kolahoi glacier.

Palitana: in Saurashtra, is famous for its holy hill Shatrunjaya (see separate note) and its Jain temples. Pop. 24,097 (1951).

Pandharpur: town in Sholapur District in Maharashtra. It stands on the Bhima river and is one of the most frequented places of pilgrimage in Maharashtra. The centre of devotion is the temple dedicated to Vithoba, an incarnation of Vishnu. Fairs are held annually in honour of the God.

Patna: capital of Bihar, stands on the site of the ancient city of Pataliputra. Pop. 283,479 (1951).

Poona: in Maharashtra and 120 miles from Bombay, has many historical buildings and one of the best race courses in India. *Places worth a visit are:* Shanwar Wada, the National Chemical Laboratory, the Defence Academy and the Central Water and Power Research Station at Khadakvasla. Pop. 480,982 (1951).

Other show-places near Poona are: Sinhagad and Purandar. The factory which manufactures antibiotics at Pimpri is worth a visit. See also Poona District.

Porbandar: in Gujarat, is the birthplace of Mahatma Gandhi and an attractive summer resort. Pop. 58,824 (1951).

Prabhas Patan: in Gujarat, is the site of the famous Somnath Temple, which was destroyed and rebuilt several times. Its last construction was begun in 1951.

Puri: (*Jagannath Puri*): famous for the Jagannath Temple, is a coastal town in Orissa. The car festival when an image of Jagannath is taken in procession in a huge Chariot drawn by ardent devotees (the proverbial Juggernaut) is an event of India-wide importance. The temple has a monolith pillar brought from Konarak Temple, in front and a 24-feet high stone wall all round. There are four entrances. The presiding deities are Krishna, Balaram and their sister Subhadra. Besides the Jagannath Temple other places worth a visit are the monastic establishments (maths). Fifty miles from Puri is Konarak, the Sun Temple. Pop. 49,057 (1951).

Rameshwaram: This holy town in Madras State is built on an island in the Palk Straits. It contains one of India's most venerated temples, perhaps the finest example of South Indian architecture. It is in the form of a quadrangular enclosure 650 ft. by 1,000 ft. The temple is renowned for its vast pillared corridors nearly 4,000 ft. long.

It is near the tip of the Indian peninsula.

Ranchi: hill station and summer resort of Bihar, noted for its picturesque scenery and fine roads. Pop. 106,849 (1951).

It is the site of heavy machine building plants.

Ranikhet: is a hill station in U.P. on the Kumaon Hills. Most mountaineering parties establish their bases at Ranikhet.

(See also 'Kumaon Hills', 'Almora' and 'Naini Tal').

Sanchi: small village near Bhopal in Madhya Pradesh, famous for the Budhhist stupa which is the largest and the best preserved in India. The stupa is built with sand stone and is about 103 feet in diameter and 42 feet high. The sculpture is remarkable in that there is no anthropomorphic figure of Buddha. The most striking features of the Stupa are the four gates which are profusely carved with scenes from the Jataka stories. Sanchi is on the main Central Rly. near Bhopal. The museum maintained by the Archaeological department is worth a visit. There are a Travellers' Bungalow and Tourist Centre.

Santiniketan: in West Bengal, is the home of the famous Visva Bharati, the international university founded by Tagore. *Places worth a visit are:* Rabindra Bhavan (the poet's residence) where his personal belongings, manuscripts, etc. are on display and the poet's mud hut where he wrote many of his famous books.

The place is 91 miles from Calcutta on the Eastern Railway and 2 miles from Bolpur Station.

Sasaram: in Bihar is known for the magnificent tomb of Sher Shah, Emperor of Delhi. Pop. 29,265 (1951).

Seringapatam: or Srirangapattana in Mysore State, 9 miles by road from Mysore city was the ancient capital of Tippu Sultan. It is situated on an island on the Kaveri. It has the Sultan's fort, mosque and palaces. There are also many old temples.

Sevagram: near Wardha in Maharashtra is the village where Mahatma Gandhi founded his ashram. It has been the home of many Gandhian institutions.

Shatrunjaya Hills.—Shatrunjaya, near Palitana in Saurashtra, is also known to the Jains as Siddhagiri or Siddhachala or the Hill of the Perfected Ones. It is the most sacred place (*tirtha*) of Shvetambara Jains. There are a great number of temples in groups on *touks* or summits. The most important one is the *touk* of Adishvara Bhagavan. The ancient image, consecrated by the prophet's son, Batubal, has been replaced. This is perhaps the most holy site within the most sacred precincts of the Shatrunjaya Hills. At this place a large number of saints are said to have attained *Nirvana*. A number of inscriptions have been found here, which have been utilised towards writing the history of Western India and the history of the different schools of Jainism.

Shillong: is the capital of the Assam Government. Thirty-six miles from here is Cherrapunji, the wettest place in the world. Pop. 53,756 (1951).

Shivpuri: also known as Sipri is in Madhya Pradesh, 72 miles from Gwalior. It is an interesting tourist resort with good hunting and boating possibilities. Pop. 21,887 (1951).

Simla: the former summer capital of the Government of India and the Government of the Punjab, it is situated on a spur of the Himalayas at a height of 7,200 feet. Among the recreations of the place are hiking, riding and shooting. The roads are excellent. *Places worth a visit:* 1. President's House, 2. Race Course, 3. Jakko Hill, 4. Observatory Hill, 5. Prospect Hill, and 6. Mashobra-Mahasu, seven miles away. There is a very good road into the interior and hikers to Narkanda, Kotgarh, Rampur and Bushahr can lodge in rest-houses that line the road. There is also a bus service on this road and holiday-makers who leave in the morning can be back in Simla by evening. The trek route to Kulu commences at Narkanda Simla is also well provided with a number of excellent schools and hotels.

Simla is now the capital of Himachal Pradesh.

Simla is reached from Delhi *via* Kalka on the Delhi-Ambala line. From Kalka there is a narrow gauge railway upto Simla. At Kalka motor cars are available. Buses also run between Kalka and Simla. All through the scenery is superb, with mountain peaks or luxuriant foliage. Pop. 46,150 (1951).

Somnath: see under Prabhas Patan.

Sravanabelgola: in Mysore State, is noted for its Jain temples and the colossal statue of Gomatesvara which is 65 ft. high, the tallest monolithic in the world. It was erected in 983 A.D.

Srirangam: an island on the Kavery, two miles north of Tiruchirapalli (Trichinopoly), contains one of the largest temples in South India. The temple is consecrated to Ranganath (Vishnu) and contains a hall of 1,000 columns. Changes were made from the 9th to the 16th centuries and inscriptions of Chola, Pandya, Hoyasala and Vijayanagar kings are all found on it. The north gopuram is 152 feet high. Pop. 36,702 (1951).

Tanjore: in the delta of the Kavery river in Madras State is noted for its temples and palaces. It was the capital of the Cholas under whom it grew in name and fame as a great centre of art and culture. It remained so under the Maratha rulers who followed. *Places worth a visit:* 1. the temple of Brihadishvara built by Raja-Raja the great, 2. Naik's Court, 3. Maratha Court (the two together are often called the Palace in Tanjore).

Saraswati Mahal has a unique collection of manuscripts, Sanskrit, Marathi, Tamil, Telugu and Kannada. There are also paintings and books printed in English.

There are also good dak bungalows. Tanjore is reached from Madras by the Southern Railway. Pop. 100,680.

Tiruchirapalli (Trichinopoly): the third largest city in Madras State is situated on the Kavery. It is a very ancient city and was the

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strategic capital of the Chola and Naik kings. It is now a great educational centre. *Places worth a visit :* 1. the Rock temple 2. the two huge masses of granite known as the Golden Rock and Fakir Rock, 3. the Jambukeshwar Temple, two miles north of Trichinopoly dedicated to Appulinga or Siva. Pop. 218,921 (1951). See also Srirangam.

Travancore : (now constituent part of Kerala State) : the most beautiful and fertile region in all southern India has many charms to offer the traveller within its domains. It has scenery ranging from a countryside of lakes, creeks and canals, to low hills, undulating land, rice fields and forests of cocoanut and areca palms, with a heavy undergrowth of pepper vines and tapioca.

It has also a wonderful highland zone with mountains touching heights of from 5,000 feet to over 8,000 feet, and hills covered with the densest of virgin forest, the home of great herds of wild elephants and bison, tiger, bear, black panther and wild boar, and where lies the lovely Periyar Lake over which one may cruise in comfort and see wild life in its natural habitat.

Trivandrum : the capital of Kerala, is accessible by well-kept roads and railway, and is also now connected by air with Bombay, Madras and Colombo.

Places worth a visit : 1. the Palaces, 2. Museum, 3. Picture Gallery, 4. Zoo, 5. Aquarium and 6. Padmanabha Temple.

North of Trivandrum is the ancient town of Quilon and to the north of this again, a pleasant trip by boat along delightful backwaters or by car along a good motor road, is the busy seaport of Alleppey.

About seven miles south of Trivandrum is Kovalam, a pleasant seaside resort with good facilities for bathing.

On the way to Cape Comorin from Trivandrum is Shuchindra Temple which should also be seen.

Udaipur : in Rajasthan, is a city of lakes with island palaces. Seventy miles from Udaipur is Chittorgarh, the abandoned capital of Mewar, famous for its Tower of Victory. Pop. 89,621 (1951).

Ujjain : on the Sipra in Madhya Pradesh, is one of the seven cities sacred to the Hindus. Also known as Avanti. The Oriental Museum has many valuable manuscripts and pieces of sculpture. Is supposed to be the seat of King Vikrama. Mahakaleshwar temple is an attraction of pilgrimage. Pop. 129,817 (1951).

NEW INDIA

The new India has its own show places, where much of the country's industrial life is centred. Most of them are connected with the Five Year Plan programme and are in the main a post-independence development. Some of these we give in the notes on the older towns above. Some other typical centres we give below :

Anand : town half way between Baroda and Ahmedabad, where the headquarters of the cooperative society producing milk, butter, cheese and baby food are located—Amul. The co-operative dairy, which is up-to-date and modern unites as many as 40,000 farmers spread over an area of 1,300 square miles around it.

Batanagar : an industrial town near Calcutta. The Bata Shoe Factory is located here.

Bhadravati : in Mysore State. The Mysore Government's iron and steel plant is located here. (See under 'Government Industrial Undertakings'.)

Bhakra-Nangal : twin-towns, which have grown recently round the huge Rs. 170 crore hydro-electric and irrigation project the biggest in the country, in which the waters of the Sutlej are controlled by dams, and diverted for irrigation and the generation of electric power. (See under 'Irrigation' for a longer note). A modern fertilizer factory is fast coming up at Naya Nangal.

Bhilai : in Drug district of M.P., 176 miles from Nagpur on the Howrah line is the site of an integrated iron and steel plant, set up in the public sector with Russian help. (See 'Government Industrial Undertakings'.)

Burnpur and Kulti : towns in which the Indian Iron and Steel Co. Ltd. has its works. Situated near Asansol on the border of West Bengal and Bihar, on the Grand Trunk Road, these works present an impressive view to the railway passengers by day or by night.

Cambay : a city of antiquity and an old international port in Gujarat. Today it has acquired importance once again as the place —at Lunej—where oil and natural gas have been discovered. Drilling with foreign (Russian) technical help is in progress. (See article on 'Petroleum'.)

Chittaranjan : near Asansol, on the border of Bihar and W. Bengal. The industrial colony came into being with the establishment of the broad gauge locomotive and boiler factory, run by the Railway Board under the Ministry of Railways. From the point of view of the conveniences provided and the welfare of the working classes, this is an ideal colony. (See also under 'Government Industrial Undertakings'.)

Dalmianagar : is situated on the west bank of the river Sone, south Bihar in the district of Shahabad. 350 miles by rail from Calcutta. It is the seat of the Rohtas Industries Limited and Ashoka Cement Limited, manufacturers of cement, paper, sugar, vanaspati, asbestos cement sheets, etc., providing employment direct and indirect and sustenance to 60,000 persons.

Durgapur : in West Bengal, 100 miles from Calcutta, near Asansol is the site of an integrated iron and steel plant in the public sector, set up with British help. The Durgapur Coke Oven plant run by the Government of West Bengal, the Durgapur Barrage, the canal system and thermal power house (of the D.V.C.) are also located in the vicinity. An optical glass unit is to be started nearby.

D.V.C.: short for Damodar Valley Corporation, looks after the big Rs. 132 crore multi-purpose project on the Damodar River in Bihar-Bengal. Tilaiya, Konar, Maithon and Panchet Hill are the sites of the four dams ; with hydel generating stations attached to the last three and thermal stations at Bokaro and Durgapur. There is an extensive canal system for irrigation attached to the storage lakes. (See also under 'Irrigation'.)

The D.V.C. area, roughly from Hazaribagh to Durgapur in east Bihar, contains the highest concentration of high-grade mineral wealth in the country—coal, iron ore, copper and mica. A whole host of industries have sprung up or are under construction : Sindri, Hindustan Cables, Chittaranjan, Durgapur steel plant, coke oven project, the heavy machine building group of industries, the Kargali and Dugda coal washeries. A steel plant may also be set up at Bokaro.

Gandhigram : about 25 miles from Madurai (South India) is a new colony formed to put Gandhian principles into actual practice in day-to-day life. The guiding principles are service and love. The accent is on hand-made products and the uplift of villages. Intensive training is imparted in many institutions here. A pilot health survey project covering over 70 villages in the neighbourhood has been undertaken with American aid.

Hirakud : the site of the Rs. 30-crore multi-purpose project across the River Mahanadi in Orissa to provide irrigation facilities and electric power. Power is being supplied to industries round about and to the Rourkela iron and steel plant. (See also under 'Irrigation'.)

Jwalamukhi : in the Kangra Hills where gas has been discovered. Drilling is in progress with foreign (Rumanian) technical help. (See article on 'Petroleum'.)

Kirloskarvadi : In Satara District, Maharashtra, is an industrial colony established over 45 years ago, where agricultural implements and a variety of engineering goods have been manufactured.

Korba: in Madhya Pradesh is the site of a new coal mine and a thermal station for the M.P. Grid, from which the Bhilai steel project will get most of its power supply. Coal from Korba will also be used in Bhilai.

Kosi : The Rs. 45-crore multi-purpose project in Bihar for flood protection, irrigation and electric power. The barrage on the river is about 30 miles below Chatra in Nepal. (See under 'Irrigation'.)

Koynanagar : in Satara district, Maharashtra, is approachable by road (30 miles) from Karad railway station on the Southern Railway. Here the turbulent waters of the River Koyna are being controlled and diverted through an underground tunnel (project cost, first stage, Rs. 40 crores) on the other side of the hill for generating electricity in an underground power house. The whole area with the staff colony, schools, hospitals and shopping centres, is known as Koynanagar.

Mallapuram (Tungabhadra) : in Bellary District in Mysore State is the site of the Rs. 60-crore Tungabhadra Dam, one of the great multi-purpose projects in the country. (See under 'Irrigation'.)

Modinagar : in Meerut District, near Delhi, is an industrial colony where vanaspati, textiles, sugar and a host of other articles are manufactured by a single firm.

Motipur : one of a large number of villages in the U.P. terai in the districts of Bijnor, Pilibhit, Naini Tal and Rampur. These villages form the largest concentration of mechanized farms in the country, the best known of which is the State Government's Terai State Farm.

Nagarjunasagar : See under VIJAYAPURI.

Nepanagar : in M.P. on the Central Railway is the site of the only newsprint factory in India. (See also 'Government Industrial Undertakings'.)

Neyveli : in South Arcot District, in Madras State, about 150 miles from Madras city, the site of lignite mines and centre of industrial development in this part of the country. The project now under execution will produce electric power, fertilizer, raw lignite briquettes. A thermal power station with Russian cooperation will soon start generating electricity (Nov. 1960). (See under 'Government Industrial Undertakings').

Perambur : a suburb of Madras where an integral railway coach factory is situated. (See under 'Government Industrial Undertakings'.

Pimpri : near Poona, is the place where the Hindustan Antibiotics factory is located. It manufactures penicillin. (See also under 'Government Industrial Undertakings'.)

Pipri : in Mirzapur District in U.P. is the site of the Rs. 46-crore Rihand dam on the river Rihand, whose waters will be used mainly for the production of power. One of the biggest aluminium plants in the country is being built here. (See under 'Irrigation'.)

Rourkela: in Orissa State, about 250 miles from Calcutta on the main line to Nagpur, is the site of an iron and steel plant in the public sector set up with German help. In addition a special fertilizer plant is also being erected here.

(See under 'Government Industrial Undertakings').

Rupnarayanpur : near Chittaranjan, is a small township for telephone cable manufacturing concern—the Hindusthan Cables Ltd. (See under 'Government Industrial Undertakings').

Sindri : the site of the big fertilizer plant in Bihar. (See under 'Government Industrial Undertakings'.)

Vijayapuri (East & West) : on either side of the Nagarjunasagar dam across the River Krishna in Andhra Pradesh (project cost,

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Rs. 93 crores), 90 miles from Hyderabad, are two new towns. Although planned mainly for irrigation, there will be a small hydel generating station. The canal system on the right and left banks is extensive and ingeniously constructed. (See under 'Irrigation'.)

On the site of Vijayapuri once stood the capital of the Ikshvaku Kings. The great Buddhist sage and philosopher Nagarjunacharya lived and taught here. It was a great centre of learning and the University was known as Nagarjunkonda. Extensive excavations have brought to light important pieces of sculpture, housed in a big museum nearby.

Visakhapatnam : near Waltair in the Visakhapatnam district in Andhra, is one of the major ports of India and is the site of a shipbuilding yard. It can build four vessels per annum upto 15,000 tons each. (See under 'Government Industrial Undertakings'). Also, the Caltex Oil Refinery.

Walchandnagar : in Poona district, Maharashtra, can be reached either from Poona or from Baramati railway station. It is an industrial colony, which produces mainly sugar and sugar-making machinery.

HOTELS

Here is a list of first-class Western style hotels.

AGRA CANTT.
IMPERIAL HOTEL : Mahatma Gandhi Road; LAURIE'S HOTEL : Mahatma Gandhi Road.

AHMEDABAD
CAMA HOTEL : Khanpur.
RITZ HOTEL : Lal Darwaza.

ALLAHABAD
BARNETT'S HOTEL : 14, Canning Road; ROYAL HOTEL : 24, South Road, Civil Lines.

ALWAR
CIRCUIT HOUSE ; SILISERH PALACE.

ALWAYE
TOURIST BUNGALOW.

AMBALA CANTT.
CECIL HOTEL : 127, Staff Road ; PARRY'S HOTEL : 126, Staff Road.

AMRITSAR
NO. 10, GUEST HOUSE : 10, Cantonment.

AURANGABAD
AURANGABAD HOTEL : Aurangabad ; PRINTRAVEL HOTEL : Station Road.

BANGALORE
CENTRAL HOTEL : 20/22, Lavelle Road, Bangalore 1 ; HOTEL EMBASSY : 2, Infantry Road, Bangalore 1; LOBO'S HOTEL: Cubbon Road, Bangalore 1 ; MADRAS WOODLANDS HOTEL : 5, Sampangi Tank Road, Bangalore 1 ; SHILTON HOTEL : St. Mark's Road, Bangalore 1 ; WEST END HOTEL : High Grounds.

BARODA
BARODA HOTEL : Race Course Road.

BELGAUM
HOTEL GREEN : 164, Camp.

BIKANER
CIRCUIT HOUSE : Bikaner.

BODHGAYA
TOURIST BUNGALOW : Bodhgaya.

BOMBAY
AIR LINES HOTEL : Churchgate Reclamation ; AMBASSADOR HOTEL ; Churchgate Extension ; GRAND HOTEL : Ballard Estate ; GREEN'S HOTEL : Apollo Pier ; SEA GREEN HOTEL : Marine Drive ; TAJ MAHAL HOTEL : Apollo Pier ; RITZ HOTEL : Churchgate Reclamation, Fort ; WEST END HOTEL : 45, Marine Lines ; HOTEL WALDORF : 16, Arthur Bunder Road ; MIRABELLE HOTEL : 33A, Marine Lines.

BUNDI
CIRCUIT HOUSE.

CALCUTTA
GREAT EASTERN HOTEL : 1-3, Old Court House Street ; HOTEL MINERVA : 11, Ganesh Chandra Avenue, Calcutta 13 ; OBEROI GRAND HOTEL : 15, Chowringhee ; RUSSELL HOTEL : 12-B, Russell Street, Calcutta 16 ; SPENCES HOTEL ; 4, Wellesley Place.

CALICUT
ALAKAPURI GUEST HOUSE : Calicut 2.
TOURIST BUNGALOW.

CANNANORE
TOURIST BUNGALOW.

CAPE COMORIN
CAPE HOTEL ; TOURIST BUNGALOW.

CHANDIGARH
OBEROI MOUNT VIEW : Sector 10.

CHHATARPUR
CIRCUIT HOUSE.

COCHIN
MALABAR HOTEL : Willingdon Island, Cochin 3; TOURIST BUNGALOW : Bolghotty, Ernakulam ; WOODLANDS HOTEL : Willingdon Island, Cochin 3.

COONOOR (Nilgiri Hills).
HAMPTON HOTEL ; RITZ HOTEL.

DARJEELING
BELLEVUE HOTEL ; OBEROI MOUNT EVEREST : Gandhi Road ; WINDAMERE HOTEL : Observatory Hill.

DEHRA DUN
HOTEL WHITE HOUSE : 15-A, Lytton Road.

DELHI
AIRLINES HOTEL : Opp. New Delhi Railway Station : ASHOKA HOTELS : Diplomatic Enclave, New Delhi, CLARIDGE'S HOTEL : 12, Aurangzeb Road; FLORA HOTEL: Dayanand Road, Daryaganj; GRAND HOTEL : 2, Underhill Road, Civil Lines; HOTEL AMBASSADOR : Sujan Singh Park, New Delhi ; HOTEL BROADWAY : Asaf Ali Road, New Delhi ; HOTEL IMPERIAL : Janpath, New Delhi ; HOTEL JANPATH : Janpath, New Delhi ; HOTEL MARINA : Connaught Circus, New Delhi ; NIRULA'S HOTEL : L-Block, Connaught Circus, New Delhi ; OBEROI MAIDENS ; 7, Alipur Road, Delhi 8 ; OBEROI SWISS : 2, Alipur Road, Delhi 8.

DEOLALI
RUGBY HOTEL : 83, Rest Camp Road.

GOPALPUR-ON-SEA
OBEROI PALM BEACH HOTEL : Gopalpur-on-Sea, Dist. Ganjam, Orissa.

GULMARG (Kashmir).
GOLF VIEW HOTEL ; NEDOU'S HOTEL.

GWALIOR
GWALIOR HOTEL.

HYDERABAD
RITZ HOTEL : Hill Fort Palace ; ROCK CASTLE HOTEL : Jubilee Hills.

INDORE
INDORE HOTEL : G. P. O. Indore ; LANTERN HOTEL : North Tukoganj.

JABALPUR
JACKSON'S HOTEL : Civil Lines.

JAIPUR
JAI MAHAL PALACE HOTEL : Civil Lines ; KAISER-I-HIND : Near Railway Station ; KHETRI HOUSE ; RAJASTHAN STATE HOTEL ; RAMBAG PALACE.

KANPUR
BERKELEY HOUSE : Civil Lines.

KATRAIN (Kulu-Punjab)
RIVERVIEW GUEST HOUSE : P.O. Katrain.

KHANDALA
KHANDALA HOTEL.

KODAIKANAL
CARLTON HOTEL : Lake Road ; HOLIDAY HOME : Golf Links Road.

KOTAH
CIRCUIT HOUSE.

KOTTAYAM
HOTEL AMBASSADOR : K. K. Road ; TOURIST BUNGALOW.

KUSHINAGAR
TOURIST BUNGALOW.

LUCKNOW
CAPOORS HOTEL : 52, The Mall ; CARLTON HOTEL, LTD., Shahnajaf Road.

MADRAS
AIRLINES HOTELS : 177-179, Mount Road ; CONNEMARA HOTEL : Mount Road ; HOTEL DASAPRAKASH : 54, Poonamallee High Road ; HOTEL OCEANIC : 29, San Thome High Road ; WOODLANDS HOTEL : 1/23, Edward Elliots Road, Mylapore.

MAHABALESHWAR
FREDERICK HOTEL ; RACE VIEW.

MANALI (Kulu-Punjab)
SUNSHINE ORCHARDS GUEST HOUSE.

MATHERAN
LORD'S CENTRAL HOTEL.

MOUNT ABU
MOUNT HOTEL : Dilwara Road.

MUNNAR
TOURIST BUNGALOW.

MUSSOORIE
HAKMAN'S GRAND HOTEL ; SAVOY HOTEL.

MYSORE
HOTEL KRISHNARAJASAGAR ; HOTEL METROPOLE : Viceroy Road ; HOTEL RITZ : Bangalore-Nilgiri Road.

NAGPUR
MOUNT HOTEL : Commercial Road.

NAINI TAL
GRAND HOTEL : The Mall ; HOTEL METROPOLE ; ROYAL HOTEL : The Mall ; WALDORF HOTEL.

OOTACAMUND
HOTEL CECIL ; SAVOY HOTEL.

PACHMARHI
HOTEL Block (PACHMARHI HOTEL).

PAHALGAM
PINE VIEW HOTEL.

PATNA
GRAND HOTEL : Fraser Road ; HOTEL REPUBLIC : Lawly's Building, Exhibition Road.

PEERMADE
HOTEL INTERNATIONAL ; TOURIST BUNGALOW.

POONA
NAPIER HOTEL : 10, Moledina Road ; POONA HOTEL ; WELLESLEY HOTEL : 12-A, Connaught Road.

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PURI
SOUTH EASTERN RAILWAY HOTEL.

QUILON
TOURIST BUNGALOW.

RANCHI
SOUTH EASTERN RAILWAY HOTEL.

SANCHI
TOURIST BUNGALOW.

SECUNDERABAD
PERCY'S HOTEL: Sardar Patel Road.

SHILLONG
PINEWOOD HOTEL.

SIMLA
OBEROI CECIL: The Mall.
OBEROI CLARKE'S: The Mall.

SRINAGAR
NEDOU'S HOTEL; OBEROI PALACE HOTEL.

THEKADAY (KERALA)
ARANYA NIVAS; TOURIST BUNGALOW: Edapalayam.

TRICHUR
TOURIST BUNGALOW.

TRIVANDRUM
MASCOT HOTEL.

UDAIPUR
ANAND BHAWAN; LAXMI VILAS PALACE HOTEL.

VARANASI (BANARAS).
CLARK'S HOTEL: The Mall; HOTEL DE PARIS: 15, The Mall.

TOURIST TRAFFIC

Below we give the nationality and the number of tourists who visited India in the years 1957, 1958 and 1959.

Nationality	1957	1958	1959
Afghanistan	1,629	1,652	2,045
Australia	950	1,192	1,428
Burma	5,010	3,647	1,958
Canada	1,053	1,320	1,437
Ceylon	12,678	13,513	17,466
China	1,130	1,086	†
France	1,995	2,046	2,153
Germany	2,607	2,907	3,568
Great Britain	14,359	14,831	16,875
Japan	1,795	1,786	2,177
Kenya	4,743	8,860	7,874
Malaya	865	2,349	4,424
Russia	1,478	1,191	3,021
U.S.A.	16,029	18,032	21,707
Uganda	685	2,098	2,139
Total*	80,544	92,202	1,09,464

* The total includes tourists from other countries not mentioned in the tables. Only such countries have been mentioned as have sent out more than a thousand tourists. †Less than 1,000. The number of tourists who visited India from the following countries during 1959, not included in the table being less than 1,000 during 1957, are as follows: Union of South Africa 1,088; Tanganyika 1,333; Bahrain 1,025; Duabai-Qatar 1,069; Italy 1,025; Portugal 1,084; Pakistanis 3,96,268; Tibetans 2,661.

FOREIGN EXCHANGE

Below we show the amount of money that the country earned through its tourist traffic.

(Rs. lakhs)

Countries	1956	1957
Dollar Area		
U.S.A.	3,78·70	3,50·00
Canada	10·39	9·60
Total	3,89·09	3,59·60
Soviet Bloc		
Czechoslovakia	8·21	7·55
U.S.S.R.	5·42	28·20
China	8·84	7·91
Total	28·91	49·86
Middle East		
Afghanistan	6·00	6·76
Total	12·26	16·53
Far East		
Japan	13·00	23·00
Total	21·80	30·84
E. P. U. Countries		
Germany	22·65	46·93
France	24·50	32·44
Italy	5·77	11·22
Netherlands	12·46	11·53
Sweden	5·70	4·88
Switzerland	11·30	16·97
Total	93·33	1,40·82
Sterling Area		
U.K.	1,69·51	1,75·04
Total	1,70·80	1,76·07
Sterling Area Overseas Countries		
Malaya	28·65	31·09
Mauritius	13·55	11·22
Total	43·62	44·02
Other Sterling Area		
Burma	1,37·67	1,87·78
Ceylon	1,20·71	1,05·18
Pakistan	3,36·40	2,86·16
B.E. Africa	1,35·27	1,54·07
South Africa	19·52	19·67
Aden	17·16	19·93
Persian Gulf	4·59	27·00
Total*	15,44·88	15,96·43

* Includes money earned through tourists from other countries also, but not mentioned in the table being not substantial.

CONSTITUTION OF INDIA

THE present constitution of India was drawn up by a Constituent Assembly which first met on 9th December 1946. A draft constitution was published in February 1948. The constitution with amendments in the original draft was finally adopted on 26th November, 1949. It came into effect on 26th January 1950.

There were nine amendments to the Constitution upto the end of March 1961. The Ninth Amendment had passed Parliament at the time of writing (March 1961).

A whole Schedule, the Ninth Schedule, was added by an amendment in 1951.

A major amendment was concerned with the re-formation of the constituent units of the Union. The States as re-formed came into existence on 1st Nov., 1956.

A smaller change came on May 1, 1960 when one of the States Bombay was divided into two States, Maharashtra and Gujarat.

STATES

India, that is, Bharat is a sovereign democratic republic.

It is variously called the Republic of India, the Union of India, The Indian Union.

The Union is made up of 16 States and 6 Union Territories.

The States with their capitals given in brackets are:

Andhra Pradesh (Hyderabad); Assam (Shillong); Bihar (Patna); Maharashtra (Bombay); Gujarat (Ahmedabad)*; Kerala (Trivandrum); Madhya Pradesh (Bhopal); Madras (Madras); Mysore (Bangalore); Nagaland (Kohima); Orissa (Bhubaneshwar); Punjab (Chandigarh); Rajasthan (Jaipur); Uttar Pradesh (Lucknow); West Bengal (Calcutta).

Jammu and Kashmir (Srinagar).

The 6 Union Territories with their capitals in brackets are:

Delhi (Delhi); Himachal Pradesh (Simla); Manipur (Imphal); Tripura (Agartala); Laccadive, Minicoy and Amindivi Islands (Kozhikode, provisional headquarters); Andaman and Nicobar Islands (Port Blair).

The States are administered by State Governments, the Union Territories by the Central Government.

The State of Kashmir is in a unique position. It enjoys rather more power than the other States (see under Jammu and Kashmir). It has a flag of its own.

This special status is conferred by Art. 370 of the Constitution.

In addition to the States and Territories mentioned above there is one administrative unit—the North-East Frontier Agency, called NEFA for short.

The NEFA is administered by the Governor of Assam as agent of the Central Government.

FEDERATION

The constitution of India is quasi-federal in nature.

The distribution of power between the Centre and the local administrations follows the accepted principle that subjects which for convenience

* Temporary capital.

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and efficiency ought to be administered on an all-India basis are vested in the Union Government, while others (of the nation-building sort) which can be conveniently administered on a local basis are vested in the State Governments.

Thus, defence, foreign affairs, transport and communications, currency and coinage, banking, customs and export duties, and the administration of justice at the higher level are all Central subjects, while State powers include those over police, public health, education, agriculture, forests and so on.

There is a third group of subjects that fall betwixt and between such as trade and industry, economic and social planning, social security and insurance, labour welfare, price control, electricity, newspapers and books and vital statistics. On these subjects both the Centre and the State can freely legislate, it being understood that whenever there is conflict between Union and State legislation the Union laws will ordinarily prevail.

Three detailed lists of subjects are drawn up, the Union List, the State List and the Concurrent List, and the residuary power rests with the Union. That is to say, if at any time, a subject which does not figure in any of the three lists, comes up for consideration the power of dealing with it lies with the Union Government.

The three lists are given in the Seventh Schedule.

It may be added that the Union List has 97 entries, the State List 65 and the Concurrent List 47.

All elections are directed and controlled by an Election Commission. Elections to the Lok Sabha and the Legislative Assemblies of the States are on the basis of adult suffrage. Seats are reserved in the Lok Sabha for the Scheduled Castes and the Scheduled Tribes.

There is a Public Service Commission for the Union and also for the States. Two or more States may agree to have only one Commission for the group. Actually, every State has a Public Service Commission at present while the Union Public Service Commission operates for the Union Territories as well. Appointment of members of the Commission are made by the President or the Governor as the case may be. The Commissions conduct examinations for appointments to the services of the Union or the States. The Union Commission submits an annual report to the President.

Provision is made for removing differences between the various States by empowering the President to establish an Inter-State Council.

FUNDAMENTAL RIGHTS

In the Indian Union the rights of Indian citizenship are given to 1. One who is born in India, 2. Either of whose parents was born in India, and 3. Who has been a resident of India for five years. Provision is also made for persons who are affected by the partition of the sub-continent.

Details were filled in by the Citizenship Act of 1955 which also provides for the termination and deprivation of citizenship under certain conditions. The Act also empowers Government to extend the rights of citizenship to any country in the Commonwealth and the Republic of Ireland on a reciprocal basis.

Certain fundamental rights are guaranteed to every citizen for the first time. All citizens are equal before the law and no discrimination is made on grounds of religion, sex, caste, etc. All citizens have equal opportunities.

Freedom of speech and expression is guaranteed, and the right to hold meetings (without arms), to form unions and associations, to move freely in India and to reside in any part, to acquire property and to practise any profession are also assured under the Constitution.

Life and personal liberty are protected under the law, and there will not be punishment for the same offence more than once. Preventive detention is also forbidden except in certain cases.

Children under the age of 14 will not be allowed to be employed in factories and forced labour like *begar* is prohibited.

India is a secular State and as such there is freedom of conscience. Citizens are allowed to profess, practise and propagate any religion; and the State will not ordinarily interfere in religious questions. The minorities are assured of cultural and educational rights.

The State can acquire compulsorily property for public purposes, but compensation may be paid to the owner of the property concerned although questions relating to the quantum of compensation are not justiciable. But property may also be acquired without compensation in certain cases.

All titles, except military or academic, are also abolished, though honours for meritorious service may be conferred.

Untouchability is abolished.

These fundamental rights can be enforced by the Supreme Court and by High Courts which have the authority to issue prerogative writs such as *habeas corpus, certiorari, prohibition*, etc.

In respect of the Defence Forces, however, Parliament has power to legislate on these fundamental rights.

It must also be pointed out that some of these fundamental rights can be suspended in case of emergency, and the remedies available for their enforcement may also be suspended by an order of the President.

There are also certain Directive Principles in accordance with which the State has to direct its policy. These principles are of a recommendatory character and cannot be enforced in a court of law. However the State is expected to look upon them as a kind of touch-stone for its policy and action.

These principles include organization of village panchayats, provision for just and humane conditions of work, equal pay for equal work, unemployment benefit, assistance in old age and sickness, maternity relief, a uniform civil code for the citizens, provision for compulsory and free education of children and separation of judiciary from executive.

Other principles are the organization of agriculture and animal husbandry on modern and scientific lines, prohibition of intoxicating drinks and drugs, protection of national monuments, promotion of international peace and security and settlement of international disputes by arbitration.

There are special provisions to safeguard the interests of two groups—The Anglo-Indians and the Scheduled Castes and Tribes.

The Scheduled Castes and Tribes have special representation in the legislatures of the country upto 1970 (see separate articles on the Scheduled Castes and Tribes). In certain tribal areas there are autonomous administrative bodies.

As for Anglo-Indians the President may nominate not more than two members of the Anglo-Indian community to the Lok Sabha if he thinks that the community is not adequately represented. Similar power is given to the Governor of a State. The Governor can nominate one member to the Legislative Assembly. In West Bengal, however, he can nominate not more than two.

The claims of the Scheduled Castes and the Scheduled Tribes are to be considered in making appointments to services, and for two years after the commencement of the Constitution the Anglo-Indians were to have the same proportion in the services as they had immediately before 15th August 1947. This reservation is to be progressively reduced by 10 per cent every two years in such a way that it is to cease completely ten years after the commencement of the Constitution.

Originally all reservation including reservation of seats for Scheduled and Tribal classes were to cease ten years after the commencement of the Constitution.

In 1960 the constitution was amended—it was the eighth amendment to the constitution—to extend the period of reservation of seats in the legislatures for another ten years from 1960.

A special officer for the Scheduled Castes and the Scheduled Tribes has been appointed.

UNION EXECUTIVE

The executive head of the Indian Union is the President. He is elected by the elected members of the Houses of Parliament and the Legislative Assemblies of all the States. His term of office is five years, and he is eligible for re-election. Only a person who is a citizen of India and has completed the age of thirty-five years is qualified to contest the election.

He is the Supreme Commander of the Armed Forces.

He has the power to grant pardons or remission of punishment.

The President is entitled to the use of an official residence without payment of rent, and a salary of Rs. 10,000 per month and allowances. Provision has also been made by an Act of Parliament for a pension of Rs. 15,000 per annum.

The President has the power of summoning, proroguing and dissolving Parliament. At the commencement of each session he addresses both Houses of Parliament assembled together. He has the right of sending messages to Parliament and sending back a Bill presented to him for his assent. This power however can be used by him only once.

The President has legislative powers under certain circumstances. When neither of the Houses of Parliament is in session and the President is satisfied that circumstances exist which make immediate action necessary he may promulgate an ordinance.

Such ordinance must be put before both the Houses of Parliament and will cease to operate at the expiration of six weeks from the re-assembly of Parliament.

The President can also declare emergency if he is satisfied that the security of India or any part thereof is threatened either by war or internal disturbances when the legislature is in session. Such a proclamation would give additional powers to the Union executive and the Legislature.

The judges of the Supreme Court and the High Courts, the Attorney-General of India and the Comptroller and Auditor-General of India are all appointed by the President. The heads of States, *i.e.*, Governors are also appointed by the President.

The President has the power of appointing ambassadors abroad and receiving diplomatic representatives of foreign States.

The President places a number of annual reports before Parliament: the Annual Financial Statement, the report of the Auditor-General of India relating to the accounts of the Government of India, the annual report of the Union Public Services Commission and the report of the Special Officer for Minorities.

All executive action of the Government of India is taken in the name of the President and it is the duty of the Prime Minister to communicate to the President all decisions of the Council of Ministers.

Provision is made for the impeachment of the President, by Parliament, for violation of the Constitution. If such a resolution is passed by a majority of not less than two-thirds of the total membership, such a resolution has the effect of removing the President from office.

In the exercise of his functions, the President has the aid and advice of a Council of Ministers, with the Prime Minister at the head of it. The President appoints the Prime Minister and other Ministers are appointed on the advice of the Prime Minister.

The Council of Ministers is collectively responsible to the Lok Sabha (the Lower House).

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Every Minister must be a member of either House of Parliament, and he is required to take an oath of office and secrecy.

The salaries and allowances of Ministers are determined by Parliament.

There is a Vice-President of India, who is ex-officio Chairman of the Rajya Sabha (the Upper House). The Vice-President acts as President during a casual vacancy in the office of the President. He is elected by the members of both Houses of Parliament and his term of office is five years.

UNION PARLIAMENT

The Parliament consists of the President and two Houses known as, as already mentioned, the Lok Sabha and the Rajya Sabha. It must meet at least twice a year. The maximum strength of the two Houses is fixed at 250 (12 nominated) for the Rajya Sabha and 520 for the Lok Sabha (not more than 500 from the States and 20 from the Territories).

In March 1961 the Rajya Sabha had a total strength of 231. Of these members 12 were nominated by the President.

In March 1961 the Lok Sabha had a total strength of 499. Of these members 10 were nominated.

The Rajya Sabha is elected by the elected members of the Legislative Assemblies of the States, while the Lok Sabha is elected directly by the voters in the country.

In the case of the Union Territories of Himachal Pradesh, Tripura, and Manipur, the Territorial Councils form the electoral colleges for the election of members to the Rajya Sabha from these Territories. The electoral college for the Territory of Delhi consists of persons who were members of the Delhi Legislative Assembly immediately before 1st November 1956.

The elections to the Lok Sabha are based on adult suffrage and joint electorates. There is no reservation of seats for any group except Scheduled Castes and Scheduled Tribes.

The representatives of Jammu and Kashmir in the Lok Sabha are appointed by the President on the recommendation of the legislature of the State.

The Rajya Sabha is a permanent body with one-third of its members retiring every second year. The Vice-President of the Union is also the Chairman of the Rajya Sabha. The Rajya Sabha has also a Deputy Chairman.

The Lok Sabha has a duration of five years, ordinarily. There is a Speaker and a Deputy Speaker of the House both of whom are elected by its members.

All these posts carry a salary and allowances.

Under certain circumstances, the members can be disqualified and their seats declared vacant.

All legislation requires the consent of both Houses of Parliament, and every question is decided by a simple majority of those present and voting except on amendments to the constitution.

Money Bills can be introduced only in the Lok Sabha. The Rajya Sabha can only return a bill with its recommendations to the Lok Sabha within a period of fourteen days of its receipt. Bills passed by Parliament are submitted to the President for his assent. Only on such assent being given does the Bill become law.

A Bill normally goes through the following stages. It is first published. After introduction there is a general debate. Third, there is a clause-by-clause discussion. Then it is voted upon. A specially important measure may go before a select committee or a joint select committee. A Money Bill has a slightly different passage. After it has passed the Lok Sabha it is sent to the Rajya Sabha which has to return it within fourteen days with its recommendations which may be accepted or rejected.

The quorum is fixed at one-tenth of the membership of the House.

The language used in Parliament is either Hindi or English.

Distribution of Seats

The distribution of seats in the Rajya Sabha is as follows :

Andhra Pradesh 18; Assam 7; Bihar 22; Gujarat 11; Kerala 9; Madhya Pradesh 16; Madras 17; Maharashtra 19; Mysore 12; Orissa 10; Punjab 11; Rajasthan 10; Uttar Pradesh 34; West Bengal 16; Jammu and Kashmir 4; Delhi 3; Himachal Pradesh 2; Manipur 1; Tripura 1; Total—220.

The President has nominated 12 members. Thus the total of elected and nominated members is 232.

The allocation of seats in the Lok Sabha is as follows :

Andhra Pradesh 43; Assam 22; Bihar 55; Gujarat 22; Kerala 18; Madhya Pradesh 36; Madras 41; Maharashtra 44; Mysore 26; Orissa 20; Punjab 22; Rajasthan 22; Uttar Pradesh 86; West Bengal 36; Jammu and Kashmir 6; Delhi 5; Himachal Pradesh 4; Manipur 2; Tripura 2.

The President has nominated one member each for the Andamans and the Laccadives and two to represent the Anglo-Indian Community.

As mentioned above the six members from Jammu and Kashmir are also nominated by the President on the recommendation of the State legislature.

Parliament's control over the administration is also exercised through a series of committees. The Committees can summon witnesses or require documents to be produced. There is a Committee on Privileges which sees to breaches of Parliamentary privilege, a Business Advisory Committee which helps the Ministry of Parliamentary Affairs in drawing up the programme for a session.

Two very important Committees are the Public Accounts Committee and the Estimates Committee. They are elected by the House of the People and Ministers are barred from membership. The Public Accounts Committee ensures that money is spent for the purpose for which Parliament has voted it, and criticizes cases of waste, or extravagance. The Estimates Committee examines possibilities of economy and reform in financial administration and the manner in which estimates may be presented to Parliament.

The programme of work for any session is worked out by the Ministry of Parliamentary Affairs.

SUPREME COURT

The Supreme Court of India consists of a Chief Justice of India and not more than thirteen other Judges. The appointments are made by the President. The salary of the Chief Justice is Rs. 5,000 per month and of the other Judges Rs. 4,000 per month.

The Judges could hold office till the age of 65.

For purposes of constitutional law the Supreme Court has exclusive original jurisdiction in any dispute (*a*) between the Government of India and one or more States, (*b*) between the Government of India and one or more States on one side and one or more other States on the other, (*c*) between two or more States only in so far as the dispute involves any question on which the existence of a legal right depends.

The Supreme Court has also jurisdiction both appellate and original in matters which involve a substantial question of law as to the interpretation of the constitution.

An Attorney-General for legal advice and a Comptroller and Auditor-General of India for audit and accounts are appointed by the President. The Attorney-General has the right to appear in all courts in India.

(See also under 'Administration of Justice'.)

STATE GOVERNMENT

The 15 States have Governors at their heads, five Union Territories have Chief Commissioners at their heads, the head of the sixth, Himachal Pradesh, is designated Lieutenant-Governor, and the State of Kashmir has a Sadar-i-Riyasat (President).

Zonal Councils

The States and Union Territories are grouped into geographical zones, and for each zone there is a Zonal Council, which is an advisory body.

These came into existence as part of the scheme relating to the reorganization of States embodied in the States Reorganization Act of 1956.

There are five zones: Northern zone (Punjab, Rajasthan, Kashmir, Delhi and Himachal Pradesh); Central zone (Uttar Pradesh and Madhya Pradesh); Eastern zone (Bihar, West Bengal, Orissa, Assam, Manipur and Tripura); Western zone (Gujarat, Maharashtra and Mysore); Southern zone (Andhra Pradesh, Madras, and Kerala and also Mysore as a permanent invitee).

Each Zonal Council consists of a Union Minister to be nominated by the President, the Chief Minister of each of the States in the Zone and two other Ministers of each State. The two Ministers are to be nominated by the Governor of the State, in the case of Kashmir by the Sadar-i-Riyasat. If there is no Council of Ministers in a State the three members from that State will be nominated by the President. In the case of a Union Territory there will be only two members and they will be nominated by the President.

The Union Minister is to preside over the meetings.

The first Union Minister nominated by the President was late Govind Vallabh Pant, the Home Minister.

The Council will normally meet by rotation in the States included in the Zone.

The idea in constituting Zonal Councils is to develop the habit of cooperative working and to arrest the growth of particularist trends like regionalism and linguism.

It would also help in encouraging co-operation among the States in the execution of major development projects.

The Councils may discuss matters of common interest—and more especially problems arising out of the reorganization of States such as border disputes, linguistic minorities, inter-State transport and also economic or social planning—and advise the Central or State Governments on the action to be taken in such matters.

All questions at meetings will be decided by a majority of the members present.

The proceedings of every meeting of a Zonal Council have to be forwarded to the Central Government and the States Governments concerned.

Wherever there is a problem in which States of more than one Zone have a common interest it will be discussed at a joint meeting.

The joint meeting will be held at such time and place as the Chairman may decide. The rules of procedure at these meetings will be framed by the Central Government.

The office of each Zonal Council has been located as follows :

North Zone—New Delhi, Central Zone—Allahabad, Eastern Zone—Calcutta, Southern Zone—Madras, Western Zone—Bombay.

The administrative expenses of the office, except the salary and allowances of the Secretary will be borne by the Central Government.

States

The Governor of a State is appointed by the President. Executive power is vested in the Governor who is appointed for a term of five

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years, ordinarily. Only a citizen of India and one who has completed 35 years of age, is eligible for such an appointment.

The Governor, like the President has power to grant pardon, etc. He will have a Council of Ministers to aid and advise him. The Governor also appoints an Advocate-General for the State.

Legislature

Ten States, Andhra Pradesh, Bihar, Kashmir, Madhya Pradesh, Madras, Maharashtra, Mysore, Punjab, Uttar Pradesh, West Bengal have two Houses of Legislature ; the others, only one. The two Houses are called the Legislative Assembly (sometimes Vidhan Sabha) and the Legislative Council (sometimes Vidhan Parishad). The former has a duration of five years, while the latter is a permanent body with one-third of the members retiring every second year.

The minimum strength of an Assembly is 60 and the maximum 500.

The minimum strength of a Council is 40, and the maximum one-third of the State Assembly.

An Assembly is elected directly on a basis of adult franchise with reservation of seats for the Scheduled Castes and Tribes. The composition of a Council is more complicated. About a third are elected by the Assembly, another third by local authorities (municipalities, district boards), about a twelfth by registered teachers in schools not lower than the secondary school standard, and about a twelfth by registered graduates of not less than three years' standing. And the rest are nominated by the Governor from among persons who have distinguished themselves in art, science, literature, co-operation and social service.

The Legislature must meet at least twice a year. While the Assembly consists of members who are directly elected from territorial constituencies, the Council consists of members nominated by the Governor, elected by the Assembly and of representatives of local bodies and special interests.

The legislature can frame its own rules of procedure but it is more or less the same as in Parliament. The quorum for a meeting is one-tenth of the membership or ten whichever is higher.

In case of disagreement, if the Bill is passed a second time after three months of its reference to the Council it automatically becomes law after one month of its passage in the lower house.

The State legislature too has its Committees like Parliament.

The number of seats (excluding nominated members) in the Legislative Assembly and the Legislative Council is as follows (the first figure shows the number of seats in the Assembly, and the second in the Council):

Andhra Pradesh: 301; 90; Assam: 108;—; Bihar: 330; 96; Gujarat: 132;—; Kashmir: 100; 36; Kerala: 126;—; Madhya Pradesh: 288; 90; Madras: 205; 63; Maharashtra: 264; 78; Mysore: 208; 43; Orissa: 140;—; Punjab: 154; 51; Rajasthan: 176;—; Uttar Pradesh: 430; 108; West Bengal: 238; 75.

The total number of seats in the Territorial Council of Himachal Pradesh is 41, of Manipur 30 and of Tripura 30.

About the Kashmir Assembly it may be mentioned that 25 seats are now vacant waiting to be filled in by members from that part of Kashmir now under occupation by Pakistan troops.

The effective strength of the Assembly is 75.

The right of summoning, proroguing and dissolving the legislature is vested in the Governor, who addresses the legislature at the commencement of each session.

Like the Parliament there is a Speaker, a Deputy Speaker, a Chairman and a Deputy Chairman for the Legislative Assembly and the Legislative Council respectively. These officers of the legislatures are entitled to salary and allowances.

The language in the legislature can be either Hindi or English or any other language allowed by the Speaker.

The State Legislatures cannot discuss the conduct of any judge of the Supreme Court or of a High Court in the discharge of his duties.

As the Governor is a part of the legislature, he has certain legislative powers. He can promulgate ordinances during the recess of the legislature; such ordinances must be placed before the legislature and cease to operate at the expiration of six weeks from the re-assembly of the legislature.

The salary of the Governor is Rs. 5,500 per month and he is also entitled to certain allowances.

If the government of a State cannot be carried on in accordance with the provisions of the Constitution, and the Governor makes a report to that effect to the President, the President may by proclamation assume to himself all or any of the functions of the Government of the State. He may also declare that the powers of the State legislatures shall be exercised by Parliament, and suspend any provision of the constitution relating to the State.

However, he cannot assume to himself, or suspend any of the provisions of the Constitution relating to High Courts.

UNION TERRITORIES

In accordance with the provisions of the Territorial Councils Act of 1956 three Union Territories namely, Himachal Pradesh, Manipur and Tripura have Territorial Councils.

The Councils are elected directly from territorial constituencies on the basis of adult suffrage. They will deal with local affairs such as education, public health, roads and bridges and transport generally, panchayats, local works, animal husbandry.

A Council will meet at least once in two months. The Administrator of the Territory may attend and address a meeting of the Council. When he attends any such meeting he will preside over it.

For every Territorial Council there will be a chief executive officer appointed by the Administrator. There may also be other staff.

The Council can levy taxes on professions, trades, callings and employments and tolls on bridges and fix school fees. The taxes have to be approved by the Central Government before they become effective.

The Council has the power to borrow money with the approval of the Central Government.

The budget estimates of the Territory will be presented by a Finance Committee of the Council. The budget estimates finally adopted by the Council in the light of the suggestions made by the Administrator will be the budget of the Territorial Council.

The Central Government may pay to a Territorial Council the net proceeds of the following taxes attributable to the area under the Council's jurisdiction:

Entertainment tax; a certain percentage of the land revenue not exceeding 10; tax on motor vehicles; taxes on passengers, goods, terminal tax.

The Central Government may also make such grants as it thinks fit.

The Administrator will have the right to give directions to the Council in regard to matters connected with education.

The Administrator can also suspend the execution of a resolution or order of the Council or prohibit any action on grounds that it is likely to lead to a breach of the peace or cause annoyance or injury to the public or to any class or body of persons. But in such cases he has to send a report to the Central Government together with explanations offered by the Council. The Central Government may then confirm, modify or rescind the Administrator's order.

The Central Government may on the report of the Administrator supersede a Territorial Council for incompetence, negligence of duty or abuse of power. In such cases a new Council will have to be elected within a period of one year.

The Central Government has the power to make rules for the purpose of carrying out the provisions of the Act, to regulate the conduct of business of the Council; regulate the employment, payment, suspension of officers and servants of the Council; the keeping of accounts.

Such rules framed by the Central Government have to be laid before Parliament for not less than thirty days, and have to be approved by it.

Any bye-laws made by the Council in regard to matters over which it has jurisdiction have to be confirmed by the Central Government. These laws are liable to alteration by the latter authority.

The strength of the Territorial Council of Himachal Pradesh is 41, of Manipur 30 and of Tripura 30. Of the 41 seats in the Himachal Council 12 are reserved for the Scheduled Castes.

The Central Government has the authority to nominate two persons who are not in the service of Government, to a Territorial Council.

For the Union Territory of Delhi there is established an Advisory Committee which will be associated with the Minister of Home Affairs who is responsible for the administration of Union Territories. This Committee consists of all members of Parliament representing Delhi, the Chief Commissioner of Delhi, the Vice-Chancellor of the University of Delhi, the Mayor of the Delhi Municipal Corporation and the Senior Vice-President of the New Delhi Municipal Committee.

As regards Andaman and Nicobar Islands (Union Territory), the President makes rules and regulations for the peace and good government of the State, and appoints a Chief Commissioner for administration. the President has the power of making regulations which have the effect of amending or repealing an Act of Parliament.

NEFA is administered by the Governor of Assam, who acts as the agent of the Union Government, while for Nagaland the Interim Body will advise the Governor on day-to-day affairs until the State formally comes into being.

It may be mentioned here that the tribal areas of Assam have a special status. The Governor of Assam administers them on behalf of the President and can set up councils for districts and regions. These councils have powers of legislation about disposition of land, inheritance of property, matrimonial and other customs. They can set up and administer courts, schools, dispensaries and markets. They can collect certain specified taxes.

These areas are often referred to as the autonomous districts of Assam.

There is a High Court for each State and a Judicial Commissioners' Court each for the Union Territories of Himachal Pradesh, Manipur and Tripura.

The salary of a Chief Justice of a State is Rs. 4,000, and of a High Court Judge Rs. 3,500.

The highest court for Delhi is the District Court. Appeals from here go to the Punjab High Court, a circuit bench of which sits in Delhi. For Andamans, the highest court is the Chief Commissioner's Court. Appeals go to the Calcutta High Court.

FINANCE

The financial relations between the Union and the States are as follows:—There is a Consolidated Fund of India and a Consolidated Fund of each State, and all money received is credited to the public account of India or the public account of the State as the case may be. Provision is also made for the establishment of a 'Contingency Fund of India' and a 'Contingency Fund of the State.'

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Certain duties and taxes are levied and collected by the Government of India, such as duties in respect of succession to property, terminal taxes, taxes on railway fares and freights, etc. But the net proceeds are assigned to the States, in accordance with such principles of distribution as formulated by Parliament. Certain other taxes, like income-tax are levied and collected by the Government of India, but are distributed between the Union and the States.

These matters are fixed in accordance with the recommendations of a Finance Commission appointed for the purpose.

No moneys can be appropriated out of the Consolidated Fund of India or of a State except in accordance with an Appropriation Act by the appropriate legislature.

The property of the Union is exempt from the taxes imposed by a State, and the property and income of States are exempt from Union taxation.

Provision is made for the appointment of a Finance Commission.

The privy purse sums of the Rulers are a charge on the Consolidated Fund of India, and these sums are to be exempt from taxes on income.

OFFICIAL LANGUAGE

Hindi in the Devanagari script is the official language of the Union and the form of numerals is the international form of the Indian numerals. The English language, however, will continue to be the official language for a period of not more than fifteen years from the commencement of the Constitution.

After this English will be used less and less and Hindi more and more until the latter replaces the former completely. There would be no time set for this final change-over.

The official language of the Union, *i.e.*, English will be used for communication between the Union and a State or between one State and another. However, if two States agree Hindi may be used instead of English between them.

All proceedings in the Supreme Court and High Courts, the texts of Bills and Acts passed by the legislatures and ordinances promulgated by the appropriate authorities are to be in the English language, until Parliament by law provides otherwise.

But Hindi could be used as an additional language after 1965.

By previous consent of the President proceedings in a High Court may be conducted in Hindi or any recognised State language but judgments, decrees or orders passed by the court must be in English.

It is the duty of the Union Government to promote and spread the Hindi language. The vocabulary for the development of the language is to be drawn primarily from Sanskrit.

The States have been given the liberty of adopting any one or more languages used in their territory or Hindi as the official language of the State.

The following languages are recognised by the Constitution: (1) Assamese, (2) Bengali, (3) Gujarati, (4) Hindi, (5) Kannada, (6) Kashmiri, (7) Malayalam, (8) Marathi, (9) Oriya, (10) Punjabi, (11) Sanskrit, (12) Tamil, (13) Telugu, (14) Urdu.

A Commission was appointed in accordance with the provisions of the Constitution to make recommendations to the President as regards the progressive use of the Hindi language for official purposes of the Union, and other allied matters.

After the Commission reported, Parliament decided that while Hindi would become the official language in 1965 as laid down in the Constitution English would continue to be used side by side with Hindi though in a progressively diminishing degree until it is completely replaced. No date is fixed for the change-over. The Supreme Court and the High Courts could use Hindi in addition to English after 1965.

EMERGENCY PROVISIONS

If the President is satisfied that a grave emergency exists, and the security of India or any part thereof is threatened either by war or internal disturbance, he may make a declaration to that effect. Such proclamation must be approved by both the Houses of Parliament, before the expiration of two months, otherwise it ceases to operate at the end of that period. As a result of this proclamation Parliament will be authorised to legislate on items included in the State list and the President, to issue directions to the Governor. Parliament can validate such a proclamation for a period of three years which is the maximum.

A request for a declaration of emergency may also come from a State authority.

This, however, would not be applicable to the functions of the High Courts. Somewhat similar provision is also made for financial emergency.

AMENDMENT OF THE CONSTITUTION

For purposes of amendment the items are divided into three classes with a different procedure for each class.

For amendment of the provision with respect to the Supreme Court and the High Courts, the distribution of legislative powers between the Centre and the States, the representation of the States in Parliament, etc., the amendment must be passed by both the Houses of Parliament by a majority of the total membership of the House and by a majority of two-thirds of the members present and voting, and must further be ratified by the legislatures of not less than one-half of the States.

In other cases no reference to the State legislatures is necessary. Parliament by itself can amend the Constitution in the manner mentioned above. In some cases amendments can be effected even by a bare majority such as is required for the passing of any ordinary law.

There were eight amendments to the Constitution from the coming into force of the Constitution on 26th January 1950 to the end of March 1960.

The Constitution (First Amendment) Act, 1951 aimed among other things at enabling the State to make special provision for the advancement of socially and educationally backward classes. It also gave the State broader powers to restrict freedom of speech and writing in the interests of friendly relations with foreign States, public order, decency, morality and in relation to defamation or incitement to an offence.

Two new articles were added after Art 31 to save the laws relating to the acquisition of estates and the validation of certain land reforms Acts and Regulations passed by certain States. These Acts were specified in an extra Schedule added to the list, the Ninth Schedule.

The Articles affected by the First Amendment were 15, 19, 85, 87, 174, 176, 341, 342, 372 and 375. It added two new Articles 31A and 31B and a new Schedule, the Ninth Schedule.

The object of the Constitution (Second Amendment) Act, 1952 was to make adjustments in the representation in the Lok Sabha consequent on the completion of the 1951 census. The Article affected was Article 81.

The Constitution (Third Amendment) Act, 1954 changed entry No. 33 in the Concurrent List in the Seventh Schedule by adding foodstuffs, cattle fodder, raw cotton and jute whose production and supply could be controlled by the Centre if necessary.

The Constitution (Fourth Amendment) Act, 1955 enables the State to acquire private property compulsorily for a public purpose and bars any reference about the quantum of compensation fixed by the legislature to a court of law. Also, the temporary taking over of private property* in the public interest or to secure better management is excluded from the compensation clause. Laws providing for State monopolies are also saved from invalidation. Seven new entries were made to the Ninth Schedule.

The Articles affected were 31, 31A, 31(2) and 305.

The Constitution (Fifth Amendment) Act, 1955 merely fixed a time for State legislatures to give their opinion on Central laws affecting the area, boundary etc. of the State concerned. The Article affected was 3.

The Constitution (Sixth Amendment) Act, 1956 added a new entry in the Union List in the Seventh Schedule, thus giving the Centre authority to legislate on the taxes, on the sale and purchase of goods in the course of inter-State transactions.

The Constitution (Seventh Amendment) Act, 1956 dealt with a whole host of problems thrown up by the reorganisation of the States, such as the alteration of State boundaries, the creation of new States, the classification of certain areas as Union Territory, the allocation of seats in the Rajya Sabha, the provision of a bicameral legislature for certain States. Other points the Amendment dealt with are the original jurisdiction of the Supreme Court, the High Courts and safeguards for linguistic minorities.

Some articles affected were 1, 80, 81, 82, 131, 168, 216, 217, 220, 222, 224 and the First Schedule, and the Fourth Schedule. Four new Articles 290A, 350A and 350B and 372A were added.

The Constitution (Eighth Amendment) Act, 1959 is concerned with the representation of Scheduled Castes and Tribes and Anglo-Indians in Parliament and State legislatures. Article 334 of the Constitution lays down that the reservation of seats in these bodies should cease ten years after the commencement of the Constitution, that is, in 1960. The Amendment proposes that the reservation of seats for the Scheduled Castes and Tribes and the representation of Anglo-Indians by nomination should continue for a further period of ten years—till 1970.

Article 333 is also amended so that the number of members so nominated to a State legislature may be fixed—not more than two in West Bengal and not more than one elsewhere.

The Constitution (Ninth Amendment) Act, 1960, gives effect to the transfer of territories between India and Pakistan under the Nehru-Noon Agreement of 1958.

* Without affecting ownership.

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ADMINISTRATION OF JUSTICE

THE Indian Union though a dual polity has no dual judiciary at all. The Supreme Court and the High Courts form one single integrated judiciary having jurisdiction and providing remedies in all cases arising under the constitutional law, the civil law or the criminal law. This is done in order to eliminate all diversities in remedial procedure.

The writs which for generations ran over the length and breadth of the country in the name of the British Sovereign, are now issued by the Supreme Court of India and the various High Courts in the territory of India. All the laws which existed before independence continue to operate in India as before subject to adaptation and modification made therein. Article 372 of the Constitution provides *inter alia* that, subject to the other provisions of the constitution, all the laws in force in the territory of India immediately before the commencement of the Constitution shall continue in force therein until altered, repealed or amended by a competent Legislature or other competent authority.

Article 13 of the Constitution provides that all laws in force in the territory of India immediately before the commencement of the Constitution, in so far as they are inconsistent with the provisions of the Constitution relating to Fundamental Rights (Part III) shall to the extent of such inconsistency be void.

The State is also debarred from making any law which takes away or abridges the Fundamental Rights conferred by this Part, and any law made in contravention shall be void to the extent of such contravention (Art. 13 (2)).

Article 14 ensures to all persons equality before the law by providing that the State shall not deny to any person equality before the law or the equal protection of the laws within the territory of India.

The continuity of the existing laws and legal procedure is further ensured by Article 375 under which all courts of civil, criminal and revenue jurisdiction and all authorities and officers continue to exercise their respective functions subject to the provisions of the Constitution.

The indigenous law of India is personal and divisible with reference to the two great classes of the population, Hindu and Muslim. Both systems claim divine origin and are inextricably interwoven with religion, and each exists in combination with a law based on custom. The rules of the Shastras and the Koran have, however, been in some cases altered and relaxed. Instances can be found in the Bengal Sati Regulation Act of 1829, the Indian Slavery Act, 1843, the Caste Disabilities Removal Act of 1850, the Hindu Widows' Remarriage Act, 1856, and some other Acts and Codes like those which remove the civil disabilities of Harijans.

During recent years indeed there has been a determined demand on the part of social reformers, and various women's organisations in India for an amendment of the Hindu Law so as to bring it into line with progressive social opinion, in consonance with the spirit of the times.

The Draft Hindu Code that was before the provisional Parliament aimed at abolishing the archaic principles of the ancient system of law, the removal of sex and caste disabilities, and generally simplifying, secularising, and modernising the law governing all Hindus, including Lingayats, Buddhists, Jains and Sikhs. But the Code lapsed on account of the dissolution of the provisional Parliament.

The Government of India however introduced piecemeal legislation regarding reforms in Hindu Law.

The following Acts have already been passed: The Hindu Marriage Act 1955, The Hindu Succession Act 1956, The Hindu Minority and Guardianship Act 1956, The Hindu Adaptation and Maintenance Act 1956. The new Hindu code is thus part of the statute book.

In the meanwhile, an opposite tendency has been observable among the Muslims, who by recent legislation have sought to revert to the law of the Shariat, discountenancing the application of Hindu Law and custom to the sections of the Muslim community who as converts from Hinduism had retained Hindu Law in matters of inheritance and succession.

Apart from this, the entire legal system which has hitherto prevailed in the country is in course of time bound to undergo a profound transformation by reason of the withdrawal of British rule and the partition of India. A Law Commission has been appointed by the Government of India for this purpose, and it has already submitted to the Government interim reports on certain laws. It has also submitted its report on the administration of justice and legal education.

A summary of this was given in the 1959-60 *Directory*.

A demand has been made for the simplification of the procedure and law for the administration of justice.

Accordingly a bill for amending the code of Criminal Procedure was passed. The amendment gives the accused certain new rights. He can now take an oath and give evidence if he so desires.

The Indian Penal Code has from time to time been amended. The rules of Civil Procedure have been embodied in the Code of Civil Procedure. The Code of Civil Procedure was remodelled in 1908 and the Code of Criminal Procedure in 1898. These Codes as amended from time to time are now in force.

SUPREME COURT

Art. 124 of the Constitution provides for the establishment of a Supreme Court of India consisting of a Chief Justice of India and seven other judges. There is provision in law for the appointment in all of 13 other judges. At present there are 14 judges including the Chief Justice (see Act 17 of 1960). Every judge of the Supreme Court shall be appointed by the President and shall hold office until he attains the age of sixty-five years. In the course of appointment of a Judge the Chief Justice shall always be consulted. Only a citizen of India who has been for at least 5 years a judge of a High Court, or for 10 years an advocate of a High Court, or a person, who in the opinion of the President, is a distinguished jurist, is qualified to be appointed judge of the Supreme Court.

A judge of the Supreme Court is not liable to be removed from his office except by an order of the President passed after an address by each House of Parliament, supported by a majority of the total membership of that House, and by a majority of not less than two-thirds of the members of that House present and voting, has been presented to the President in the same session for such removal, on the ground of proved misbehaviour or incapacity. No person who has held office as a judge of the Supreme Court shall plead or act in any court or before any authority within the territory of India.

The Supreme Court is a court of record with all the powers of such a court including the power to punish for contempt. The seat of the Court is to be in Delhi or such other place as the Chief Justice with the approval of the President may from time to time appoint.

The Supreme Court has exclusive original jurisdiction in any dispute (*a*) between the Government of India and one or more States; (*b*) between Government of India and one or more States on the one side and one or more other States, on the other; (*c*) between two or more States, if and in so far as the dispute involves any question (whether of law or fact) on which the existence or extent of a legal right depends (Article 131).

The appellate jurisdiction of the Supreme Court extends over all appeals from any judgment, decree or final order of a High Court, in civil, criminal or other proceedings, if the High Court certifies that the case involves a substantial question of law as to the interpretation of the Constitution. If the High Court refuses such a certificate the Supreme Court may grant special leave to appeal in a proper case (Art. 136). An appeal shall also lie to the Supreme Court from a High Court in civil matters, when the amount or value of the subject matter in dispute is not less than Rs. 20,000 or the High Court certifies the case to be a fit one for appeal to the Supreme Court (Art. 133).

In criminal matters under Art. 134 an appeal lies to the Supreme Court from any judgment, final order or sentence of a High Court, if the High Court has (*a*) on appeal reversed an order of acquittal of an accused person and sentenced him to death; or (*b*) has withdrawn for trial before itself any case from a subordinate court and has in such trial convicted the accused person and sentenced him to death; or (*c*) the High Court has certified that the case is a fit one for appeal.

For purposes of appeals to the Supreme Court, the Judicial Commissioners' Courts are to be considered as High Courts.

Under Art. 136 discretion is given to the Supreme Court to grant special leave to appeal from any judgment, decree, sentence or order, in any matter passed by any Court or Tribunal in the territory of India.

The Supreme Court has also power to review its own judgement (Art 137).

The jurisdiction and powers of the Federal Court under the existing law are also exercisable by the Supreme Court (Art. 135) including the advisory power to give its opinion on questions of law or fact referred to it by the President (Art. 143).

The law declared by the Supreme Court shall be binding on all courts in the territory of India excepting the Supreme Court itself.

The dual system in the Supreme Court was abolished with effect from January 26, 1955.

Parliament has the power to legislate on the constitution, organisation, jurisdiction and powers of the Supreme Court.

Article 32 of the Constitution guarantees the right to move the Supreme Court by appropriate proceedings for the enforcement of Fundamental Rights; and for the enforcement of such rights the Supreme Court has power to issue directions or orders or writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warranto* and *Certiorari* whichever may be appropriate.

Power is given to Parliament to enlarge the jurisdiction of the Supreme Court by appropriate legislation (Art. 138).

The royal prerogative to grant pardons, reprieves, respites or remissions of punishments now resides in the President (Art. 72).

Under Art. 348, all proceedings in the Supreme Court and in every High Court in India and the authoritative text of all Bills and Acts of Parliament and the State Legislatures and of all Ordinances promulgated by the President or Governors and of all orders, rules and regulations issued under the Constitution or any law shall be in the English language. If this language is to be replaced by any other language, Parliament must legislate to that effect.

All authorities, civil and criminal in the territory of India, have to act in aid of the Supreme Court (Art. 144). The independence of the judges of the Supreme Court, is secured by charging their salaries on the Consolidated Fund of India, and by prohibiting any discussion in the legislature on the conduct of the judges in their official capacity.

Some important judgements of the Supreme Court of India in 1959 *and* 1960:

(1) In M. S. M. Sharma *v.* Shri Krishna Sinha and others (1959 S.C.J. p. 925) laid down that the State Legislatures have all powers,

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privileges and immunities of the House of Commons at the commencement of the Constitution and hence they can prohibit the publication of such part of their proceedings as has been ordered to be expunged.

(2) In Kochunni *v.* State of Madras (1959 S.C.J. p. 858) the Supreme Court laid down that under Art. 32, the Court can issue even a declaratory order if that happens to be proper relief to the aggrieved party. It also laid down an application under Art. 32 may be entertained for determination of questions of fact.

(3) In Babulal Parate *v.* the State of Bombay (1960 S.C.J. P. 107) it was laid down that there is no need to make a fresh reference to the State legislature for ascertaining its view on an amendment to the Bill seeking to reorganise States.

(4) In Jagan Nath Sahu *v.* the Union of India (1960 S.C.J. P. 975) it was laid down that in their relations between each other and nations outside the Commonwealth, members of the Commonwealth must be regarded as foreign powers and their affairs as between them are foreign affairs.

(5) In Indo-Pakistan agreement. In re. (1960 S.C.J. P. 933) it was laid down that the agreement to transfer the Berubari Union to Pakistan involved the alteration of the content of Article 1 and the relevant part of the First Schedule. Hence legislation by Parliament for amending Article 3 of the Constitution with a view to covering cases of cession of territory of India in favour of a foreign State would be necessary. After such an amendment in the Constitution, Parliament may pass a law for such a transfer. A law passed under Article 368 may also be adequate to implement the agreement.

HIGH COURTS

Every High Court is a court of record and has all powers of such court including the power to commit for contempt of itself.

Every judge of a High Court is appointed by the President after consultation with the Chief Justice of India, the Governor of the State and the Chief Justice of the particular High Court; and he holds office until he attains the age of sixty years.

A person is not qualified to be appointed a judge of a High Court unless he is a citizen of India and has either held judicial office or practised as an advocate for 10 years in any of the States.

A High Court judge is not liable to be removed from his office except in the manner provided in Art. 124 (4) for the removal of a judge of the Supreme Court of India.

No person who after the commencement of the constitution has held office as a permanent judge of a High Court could plead or act in any court or before any authority in the territory of India except the Supreme Court or other High Courts.

There is provision in the Constitution for the appointment of additional or acting judges.

Power is given to the President in consultation with the Chief Justice of India to transfer a judge from one High Court to any other High Court in India. (Art. 222.)

Article 225 preserves the jurisdiction and powers of the High Courts as they existed immediately before the commencement of the Constitution. Restrictions on the exercise of the original jurisdiction in revenue matters are removed.

Art. 226 gives to every High Court in India power throughout its jurisdiction to issue to any person or authority including Government directions, orders, writs, including writs in the nature of Habeas Corpus, mandamus, prohibition, *quo warranto* and *Certiorari* for the enforcement of Fundamental Rights and for any other purpose. (Art. 226).

The High Courts have powers of superintendence over all subordinate Courts and tribunals within their respective jurisdiction.

Legislation affecting constitution and organisation of the High Courts can be passed by Parliament alone.

The Law Commission appointed by the Government of India has rejected the suggestion that the powers of the High Courts under Art. 226–227 should be curtailed.

The Commission has also recommended to the Government of India that a High Court should not have Benches. It has also expressed the view that the establishment of tribunals will be necessary in view of the ideal of a Welfare State.

Some of the other recommendations of the Commission are:

(1) Article 217 of the Constitution should be amended to provide that a Judge of a High Court should be appointed only on the recommendation of the Chief Justice of that State and with the concurrence of the Chief Justice of India.

(2) The Senior Puisne Judge should not be automatically appointed as the Chief Justice unless he possesses the qualification they have referred to.

(3) The retiring age of High Court Judges should be raised to sixty-five, in the case of appointments to be made hereafter.

(4) The pension of the Chief Justice of a State High Court should be fixed at Rs. 2,000 per month and that of a Puisne Judge at Rs. 1,750 per month for 12 years of service.

(5) High Court Judges should not be permitted to practise in any court after retirement.

(6) The Constitution should be amended to bar a Judge of a High Court from accepting any employment other than as a Judge of the Supreme Court after retirement either under the Union or under the State.

(7) The jurisdiction of the city civil courts in Madras and Bombay should be reduced to Rs. 10,000.

On an average more than 14,000 cases are filed in the High Courts of India every month.

Figures collected for the first seven months of 1959 show that the cases filed in the 14 High Courts totalled 1,02,593. The highest number filed was in the Allahabad High Court while the lowest was in Jammu and Kashmir.

The break-up was: Allahabad—16,673; Andhra Pradesh—12,463; Assam—763; Bombay—13,623; Calcutta—7,959; Kerala—7,908; Madhya Pradesh—4,545; Madras—12,642; Mysore—3,517; Orissa—1,236; Patna—4,355; Punjab—11,841; Rajasthan—4,523; and Jammu and Kashmir—545.

LOWER COURTS

The Code of Criminal Procedure provides for the constitution of inferior criminal courts styled courts of session and courts of magistrates.

Every State, outside the towns of Madras, Bombay and Calcutta, is divided into sessions divisions consisting of one or more districts, and every sessions division has a court of session and a sessions judge, with assistants if need be. These stationary sessions courts are like the English Assizes, and are competent to try all accused persons duly committed, and to inflict any punishment authorised by law, but sentences of death are subject to confirmation by the highest court of criminal appeal in the State.

The Govts. of Bihar and Maharashtra have decided to abolish the system of trial by jury shortly (March 1961). The question of abolishing the system in Mysore and West Bengal is under the consideration of the State Govts. The system does not exist in Andhra Pradesh, Assam, Gujarat, Kerala, M.P., Madras, Orissa, Punjab, Rajasthan and U.P.

Magistrates' courts are of three classes with descending powers. Provision is made and largely utilised in the towns, for the appointment of honorary magistrates. In the towns of Madras, Bombay and Calcutta, Presidency Magistrates deal with magisterial cases and benches of Justices of the Peace or Honorary Magistrates dispose of the less important cases.

Article 50 of the Constitution lays down that the States shall take steps to separate the judiciary from the executive in the public service of the States.

The State of Bombay* was the first State to introduce the separation of the judiciary from the executive in public services, by a statute. The Act came into force on July 1, 1953.

There is complete separation in Kerala, Andhra and Mysore, and partial separation in Madras, Punjab, Bihar and U.P. It is not effected by any statute but by rules made by the Government in that behalf.

In Bihar the separation is introduced in all districts except five. The districts in which the separation is introduced are Patna, Gaya, Shahabad, Muzaffarpur, Darbhanga, Saran, Champaran, Bhagalpur, Monghyr, Saharsa, Hazaribagh and Purnea.

The Government of West Bengal has announced that it has decided to make the judiciary independent of the executive at all levels.

There is no complete separation of judiciary from the executive in the State of Madhya Pradesh and the question is under the consideration of the Government. There is, however, complete separation in the following districts of M.P.: Rewa, Sidhi, Shahdol, Satna, Chhattarpur, Panna, Datia, Tikamgarh, Raisen, Sehore, Gwalior, Shivpuri, Bhind, Morena, Guna, Shajapur, Rajgarh, Vidisha, Ujjain, Dhar, Dewas, Indore, Nimar, Mandleshwar (Ratlam), Jhabua and Mandsaur.

In the districts of Cuttack, Puri and Balasore in Orissa, separation of excutive from the judiciary was to be introduced from May 1, 1960.

Districts in Madras State where separation of executive and Judiciary has been introduced: North Arcot, South Arcot, Chingleput, Coimbatore, Madurai, The Nilgiris (except for a portion), Ramanathapuram, Thanjavur, Tirunelveli, Tiruchirapalli, Salem and Madras City.

The constitution and jurisdiction of the inferior civil courts vary. Broadly speaking one district and sessions judge is appointed for each district. As District Judge he presides in its principal civil court. His functions as Sessions Judge have already been described.

For these posts members of the Indian Civil Service were mainly selected in the past though some appointments were made from the Provincial Service. Now members of the Bar are recruited. In the majority of cases members of the subordinate judiciary are promoted to the posts of District judges.

Next come the Subordinate Judges and Munsiffs, the extent of whose original jurisdiction varies in different parts of the country.

There are in addition a number of Courts of Small Causes, with jurisdiction to try money suits up to Rs. 500. In the towns of Madras, Bombay and Calcutta where the Chartered High Courts have original jurisdiction, Small Causes Courts dispose of money suits up to Rs. 3,000.

In Bombay and Madras there are also City Civil Courts. The City Civil Court in Bombay has a pecuniary jurisdiction of upto Rs. 25,000.

As Insolvency Courts the Chartered High Courts of Calcutta, Bombay and Madras have jurisdiction in the Presidency towns. In the mofussil similar powers are conferred on the District Courts by the Provincial Insolvency Act of 1920.

There are Coroners only for the Presidency Towns of Calcutta and Bombay. Elsewhere their duties are discharged by the ordinary staff of magistrates and police officers unaided by jurors.

* Bilingual.

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SPECIAL COURTS

Labour Courts and Industrial Courts now exist in most States.

A Labour Court consists of a single judge.

These Courts decide upon disputes regarding (*a*) propriety or legality of an order passed by an employer, (*b*) the application and interpretation of standing orders, (*c*) they also decide disputes referred to them by Government for arbitration. Legality or otherwise of strikes or lock-outs or closure, etc. is also decided by them.

An appeal against the judgment of the Labour Courts lies to the Industrial Court. This court has also original jurisdiction regarding matters referred to it by the Government or by representative Unions. It decides upon questions of law referred to it by Wage Boards and references regarding interpretation of the Act and the Rules. It has power of superintendence over Labour Courts.

The Industrial Disputes Act was passed by the Central Legislature in 1947 for the investigation and settlement of industrial disputes.

Industrial Tribunals were established under this Act. If the conciliation bodies set up under this Act fail to bring about a settlement, the matter is referred to the Industrial Tribunals.

Neither party to a dispute is entitled to be represented by a legal practitioner except with the consent of the other party and by leave of the Tribunal.

Industrial Tribunals are not permanent Courts. Whenever a matter is referred to the Government regarding an industrial dispute the Government appoints one or more persons as Industrial Tribunal to adjudicate upon the dispute.

The Industrial Disputes (Amendment and Miscellaneous Provisions) Act No. 36 of 1956 makes provision for the constitution of the following courts and tribunals:

1. Labour Courts to be constituted by the appropriate Government. A court is to consist of one judge only.

2. Industrial Tribunals. A Tribunal is to consist of one judge only. A person is not qualified to be a member of a Tribunal unless he has been judge of a High Court. The Tribunals will be constituted by the appropriate Government.

3. National Tribunals. These Tribunals will be constituted by the Central Government. Here also a tribunal is to consist of one judge only.

This Act came into force on 1st Sept., 1956.

The Industrial Disputes (Amendment) Act 41 of 1956 and the Dock Workers (Regulation of Employment) Act, 1948, are two other Acts with respect to labour cases.

Administration of labour laws is a divided responsibility. The Central Government has the following organisations for the administration of labour laws. (1) The Office of the Chief Labour Commissioner, New Delhi. (2) The Office of the Coal Mines Welfare Commissioner, Dhanbad. (3) The Office of the Coal Mines Provident Fund Commissioner, Dhanbad. (4) The Office of the Welfare Commissioner, Mica Mines Labour Welfare Fund, Dhanbad and Nellore. (5) The Office of the Chief Inspector of Mines, Dhanbad. (6) The Office of the Chief Adviser of Factories, New Delhi. (7) The Office of the Director-General, Employees' State Insurance Corporation, New Delhi. (8) The Office of the Controller of Emigrant Labour, Shillong. (9) The Office of the Director, Labour Bureau, Simla. (10) The Office of the Central Provident Fund Commissioner, New Delhi.

The State Governments also have their own organisations for the administration and enforcement of labour laws.

Juvenile offenders are tried by the Juvenile Courts. In places where there are no juvenile courts the offenders are tried either by the High Court, or the Court of Session or a salaried Presidency Magistrate or a salaried Magistrate of the First Class.

Legal practitioners are not entitled to appear in any case or proceeding before a Juvenile Court. However the Court may grant permission in exceptional cases.

Probation officers are appointed by the State Government for helping the Court in the discharge of its functions. The powers and duties of such officers are laid down in the rules. Their main duty is to investigate the history of the juvenile offender and offer help to the Court. An appeal against the judgment of a Juvenile Court lies to the Chief Presidency Magistrate in Greater Bombay, and in other places to the Court of Session. If a case is decided by a Presidency Magistrate or a Court of Session the appeal lies to the High Court.

Panchayat Courts (called Nyaya Panchayat) are in existence in many States. The members of the Panchayat Court are elected by the Village Panchayat. Sections 30-44 of the Act lay down rules about the suits that may be tried and the suits that may not be tried by the Court. A Nyaya Panchayat cannot alter or revise its decision. An appeal against a decision of the Nyaya Panchayat lies to the District Judge.

LEGAL OFFICIALS

The Government of India have their own law colleague in the Law Minister of the Union Cabinet. All Government measures are drafted in his Ministry after their substance is decided upon by the administrative departments concerned.

Outside the Cabinet the principal law officers of the Government of India are the Attorney-General and Solicitor-General appointed by the President. At Bombay and Calcutta the Government of India have their own law officers.

Each of the State Governments has its own Advocate-General.

Article 76 of the Constitution of India says that for the post of Attorney-General the President shall appoint a person qualified to be appointed a Judge of the Supreme Court. It shall be the duty of the Attorney-General to advise the Government of India on such legal matters and to perform such other duties of a legal character as may be referred or assigned to him by the President, and to discharge the functions conferred upon him by the Constitution. In the performance of his duties the Attorney-General shall have right of audience in all Courts in the territory of India. The Attorney-General has a right to take part in the proceedings of Parliament and address it.

Under Article 165 the Governor of each State is authorised to appoint a person qualified to be appointed a Judge of a High Court to be Advocate-General for the State.

The Advocate-General is appointed by the Governor. He has to give advice to the Government of the State upon such legal matters and to perform such other duties of a legal character as may be referred to or assigned to him. He holds office during the pleasure of the Governor. He appears in the Court on behalf of the Government. He is the leader of the Bar and the President of the Bar Council. He is also authorised to take part in the proceedings of the State legislature, if his advice is sought.

In addition to the Advocate-General there is also a Government Pleader in many States. He usually belongs to the Appellate Side of the High Court while the Advocate-General belongs to the Original Side where the High Court has both Original and Appellate Sides. The Government Pleader is assisted by an Assistant Government Pleader and they look after criminal work.

The State Governments have their own law officers, in addition to the Advocate-General and the Government Pleader. The law officer is designated Remembrancer of Legal Affairs. He also works as Secretary to the Legal Department. He is never a practising lawyer, but a Government servant. Usually one of the District Judges is appointed Remembrancer of Legal Affairs.

The Legal Remembrancer drafts Government Bills and gives advice to Government Departments on all legal matters.

Sheriffs are attached to the High Courts of Bombay, Calcutta and Madras.

They are entrusted with the work of preparing jury lists, serving summons and other legal processes. The Sheriff in Bombay is the ex-officio Chairman of the Maharashtra State Permanent Famine Relief Committee. He can also convene public meetings on behalf of the citizens.

The detailed work of the office is entrusted to the Deputy Sheriff who is an officer of the High Court.

There are Official Assignees in three States—Bombay*, W. Bengal and Madras. The appointment is made by the Chief Justice of the High Court concerned.

The duties of the Official Assignee are two-fold, *viz.* realisation and distribution of the insolvent's estate, and the control of the property of the insolvent and his conduct generally.

A party aggrieved by the decision of the Official Assignee may appeal to the Insolvency Judge of the High Court.

In addition to the Official Assignee, a Deputy Official Assignee may also be appointed. Another officer of the court is the Insolvency Registrar who may be vested with the powers mentioned in section 6 of the Presidency Towns Insolvency Act.

There are two classes of legal practitioners, practising in the Supreme Court. They are Senior Advocates, and other Advocates (popularly known as Junior Advocates).

All Advocates of the Supreme Court are entitled to practise in High Courts. An Advocate of the Supreme Court can appear on the original side of the High Court even without an Attorney. In Bombay and Calcutta an Advocate can appear on the original side only when instructed by an Attorney. An Advocate of a High Court is entitled to practise in the High Court concerned and in all the courts subordinate to it. An Attorney-at-Law if enrolled as an Advocate can also practise in the High Court, except on the original side. He, however, can plead in insolvency and chamber matters.

Pleaders are entitled to practise in the District for which they hold sanads.

In addition to these classes, there are Mukhtars in the States of Assam, Bihar, Orissa, Uttar Pradesh, West Bengal and Rajasthan. In Assam there is one more class of legal practitioners known as Revenue Agents.

The dual system was abolished in the Supreme Court on 26th Jan. 1955.

A Bill is introduced in Parliament (Bill No. 80 of 1959) in order to amend and consolidate the law relating to legal practitioners and to provide for the constitution of Bar Councils and an All-India Bar.

Formerly official Law Reports were published only in six series—Bombay, Allahabad, Calcutta, Madras and Nagpur. Three more series, Cuttack, Mysore and Rajasthan, have now been added.

These reports contain cases decided by the High Courts and the Supreme Court of India.

In addition to these series a "Supreme Court Reporter" is also published. It contains important decisions of the Supreme Court of India.

Besides these official reports there are a number of private agencies that also bring out reports of the decisions of the Supreme Court and the High Courts. The Law Commission has recommended that it is neither feasible nor desirable to restrict the publications of reports or to confer the monopoly of citation on one set of reports. Reports are also published of important cases determined by Labour Courts, Industrial Courts and Labour Appellate Tribunals.

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HINDU LAW REFORM

A short note on Hindu Law reform is in order as it concerns the welfare of the women of this country.

As a result of increasing consciousness on the part of Indian women of their social and political status, there has in recent years been a move to revise and codify the somewhat vague and contradictory law governing the Hindu home, especially as it affects marriage, divorce, succession to property, etc.

In 1937 the Indian Legislature enacted the Hindu Women's Rights to Property Act. This Act, for the first time, gave to Hindu widows a right to claim a share in the husband's property and demand partition.

Four years later the Government of India set up a Committee to overhaul and codify the Hindu Law. This Committee, which was known as the Rau Committee, drafted two bills dealing with Hindu intestate succession and Hindu marriage.

When the measures came up for consideration by the two Houses of the Central Legislature, a joint committee of the Houses recommended the revival of the Rau Committee with a view to the codification of the entire Hindu Law. Consequently the Rau Committee was revived early in 1944. During 1944–45, the Committee made a tour of the country and elicited public opinion on the proposals embodied in the two measures and on the codification of the Hindu Law as a whole. They gathered evidence from leading lawyers and representative organisations of various shades of Hindu opinion on a draft Hindu Code prepared by them.

During the last five years, the Central and the Provincial Legislatures passed various Acts, which aimed at improving the condition of Hindu women.

The Hindu Marriage Disabilities Removal Act of 1946, legalised marriages between Hindus belonging to the same Gotra or Pravara.

The Hindu Married Women's Right to Separate Residence and Maintenance Act of 1946 enabled a married Hindu woman to claim from her husband separate residence and maintenance on certain grounds.

The Hindu Marriage Validating Act, 1949 removed the caste-barriers from the sphere of marriages and validated even the Pratiloma marriages.

The Child Marriage Restraint (Amendment) Act of 1949 raises the marriage age of girls from 14 to 15 years.

In the State of Bombay*, monogamy was made a rule by the Prevention of Hindu Bigamous Marriage Act of 1946, and dissolution of marriages by divorce was allowed under certain conditions by the Bombay Hindu Divorce Act of 1947.

In the state of Madras, there was an Act preventing bigamous marriages and providing for divorce. The Act was called the Madras Hindu (Bigamy Prevention and Divorce) Act.

The Madras Legislature passed the Madras Devadasis (Prevention of Dedication) Act in 1947. This Act puts an end to the unhealthy practice of dedicating Hindu women as 'devadasis' to Hindu deities.

Bombay Hindu Women's Right to Property Act (Extension to Agricultural Land) extended the application of the Hindu Women's Right to Property Act, 1938 to agricultural land also. A similar law was passed in Madras.

Though the Hindu Code Bill was dropped, the Government of India have passed several Acts as already mentioned affecting Hindu Law.

The Special Marriage Act of 1954 repeals the Special Marriage Act of 1872. Though the Act of 1954 is not a part of Hindu Code, it affects Hindus in so far as it provides for civil marriages both for Hindus and non-Hindus.

The Hindu Marriage Act of 1955 came into force on 18th May, 1955. The Act has repealed the following laws :—

1. The Hindu Marriage Disabilities Removal Act of 1946 ; 2. The Hindu Marriage Validity Act of 1949 ; 3. The Hindu Divorce Act of 1947 (Bombay Act) ; 4. The Prevention of Hindu Bigamous Marriage Act of 1946 ; 5. The Madras Hindu (Bigamy Prevention and Divorce) Act ; 6. The Saurashtra Prevention of Hindu Bigamous Marriage Act ; 7. The Saurashtra Hindu Divorce Act.

Under the Hindu Marriage Act 25 of 1956, monogamy has become a rule in Hindu Society. Divorce is allowed on certain grounds. Inter-caste marriages are valid.

The Hindu Minority and Guardianship Act (32 of 1956) seeks to regularise the law regarding guardianship.

The Hindu Succession Act 29 of 1956 aims at simplifying the Hindu Law of succession. It does away with the distinction between the Mitakshara and Dayabhaga law of succession. However, special provision is made for regulating succession to the property of intestates governed by Marumakkattayam, Aliyasantana or Nambudri laws of inheritance. The Act creates two classes of heirs, preferential heirs are included in Class I. The Act confers a right to a share on a daughter, a provision unknown to the previous Hindu Law.

The Hindu Succession Act has also made the following changes, which are revolutionary, in the old Hindu Law :

All property held by a Hindu woman is now her absolute property and there are no restrictions on her rights.

The heirs of a deceased Hindu are entitled to get a share even in the undivided interest in the coparcenary property. A Hindu can make a will even of his undivided interest in the coparcenary property.

The Hindu Adoption and Maintenance Act 79 of 1956 was passed in December 1956. Under the Act the adoption of a son or a daughter is permitted. The consent of the wife is necessary for adoption, which is now purely secular in character.

Besides these laws, Parliament has passed two important Acts relating to social reform. The Suppression of Immoral Traffic in Women and Girls' Act (No. 104 of 1956) was passed in December 1956. This Act provides in pursuance of the International Convention signed at New York on 9th May 1950 for the suppression of immoral traffic in women and girls. The Women's and Children's Institutions (Licensing Act (No. 105 of 1956) was passed in December 1956. This Act provides for the licensing of such institutions and of matters relating to them.

Yet another Act, in social reform is the Probation of Offenders Act. Act 20 of 1958.

The Bombay* Legislature has passed an Act for the registration of marriages.

Legislation prohibiting dowry system is also on the anvil. Another Bill called 'The Orphanages and other Charitable Homes (Supervision and Control) Bill, is also introduced in Parliament.

A Bill to provide for the care, protection, maintenance, welfare, training, education and rehabilitation of neglected or delinquent children and for the trial of delinquent children in the Union Territories has recently been introduced in Parliament.

LAW COMMISSION REPORT

A Law Commission to revise the Statute Law of the country and suggest ways and means of improving the system of judicial administration was appointed on Aug. 5, 1955.

The members were :

Mr. M. C. Setalvad (*Chairman*) ; Mr. M. C. Chagla, Mr. K. N. Wanchoo, Mr. G. N. Das, Mr. P. Satyanarayana Rao, Dr. N. C. Sen Gupta, Mr. V. K. T. Chari, Mr. Narasu Raju, Mr. S. N. Sikri, Mr. G. S. Pathak and Mr. G. N. Joshi.

The Commission was to function in two sections. The first section consisting of the Chairman and the first three members was to deal mainly with the question of the reform of judicial administration. The second was to consist of the other seven members and was to deal with the revision of statute law. The two sections would however work in close co-operation under the direction of the Chairman.

While the section dealing with the revision of statute law submitted periodical reports, the one dealing with judicial administration submitted its full report sometime in the second half of 1958. It was laid on the table in Parliament on 25th Feb. 1959.

In Dec. 1958 the Law Commission was reconstituted for a period of three years to enable it to continue the work of statute revision.

The chairman is Mr. T. L. Venkatarama Iyer, retired judge of the Supreme Court. There are two whole-time members, Mr. P. Satyanarayan Rao and Mr. L. S. Misra and two part-time members Mr. N. A. Palkhiwala and Mr. Sachin Chaudhary. Mr. G. Rajagopal, Secretary to the Government of India in the Legislative Department, is the Secretary to the Commission.

A summary of the report of the Law Commission on judicial administration is given in the 1959-60 edition of the Directory.

* Bilingual.

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DEFENCE SERVICES

Chief of the Army Staff, General P. N. Thapar.
Chief of the Naval Staff, Vice-Admiral R. D. Katari.
Chief of the Air Staff, Air Marshal A. M. Engineer, D.F.C.

THE supreme command of all the Armed Forces of the Indian Republic is vested in the President. Since the attainment of Independence, the Ministry of Defence has become the central agency for formulating and obtaining policy decisions of the Government of India on defence matters and for transmitting them to, and seeing to their implementation by, the three Defence Services Headquarters.

The partition of India in 1947 was an important landmark in the history of the Armed Forces of India. They were divided between the two countries on a communal-cum-optional basis, which worked out to an approximate proportion of one-third to Pakistan and two-thirds to the Union of India. British forces, including the Royal Air Force, were completely withdrawn from India early in 1948.

The total defence outlay on revenue and capital account for 1960–61 was estimated at Rs. 310 crores against Rs. 266 crores during 1959–60.

The following is the break-up of the net Defence Services expenditure (in crores of rupees) since 1955–56.

Year	Effective			Non-Effective	Defence Capital Outlay	Total
	Army	Navy	Air Force			
1955–56 (Actuals) ..	118	12	28	14	18	190
1956–57 (Actuals) ..	129	12	37	14	20	212
1957–58 (Actuals) ..	159	14	70	14	23	280
1958–59 (Actuals) ..	146	16	75	14	28	279
1959–60 (Actuals) ..	142	14	59	15	36	266
1960–61 (Estimates) ..	176	19	61	16	38	310

(See also under Finance).

DEFENCE ORGANISATION

Since August 15, 1947, each Service has been placed under a separate and independent head, their present designations being Chief of the Army Staff, Chief of the Naval Staff and Chief of the Air Staff.

With the appointment of three Service Chiefs independent of each other, the task of co-ordination of the activities of the three Services has devolved on the Defence Ministry. In order to ensure expeditious handling of work, a network of committees has been established at different levels.

At the top is the Defence Committee of the Cabinet which is, for all practical purposes, the Government so far as the Services are concerned. All important policy questions relating to defence are decided by this Committee, which is presided over by the Prime Minister. Next in importance is the Defence Minister's Committee which, besides the Defence Minister, includes the Deputy Defence Ministers, the Defence Secretary, the Financial Adviser (Defence) and the three Service Chiefs.

The Defence Minister is responsible to Parliament for all matters relating to the Defence Services, including appropriation and allotment of funds, correlation of all civil and ministerial activities for purposes of defence and control and direction of research policy.

There are a number of inter-Services organisations, directly administered by the Defence Ministry, dealing with matters of common concern to the three Services. Some of them are the Defence Minister's Committees on Research and Development and Production, the National Cadet Corps, the National Defence College, the Defence Services Staff College, the National Defence Academy, the School of Foreign Languages, the Directorate-General of Armed Forces Medical Services, the Resettlement Directorate, the Indian Soldiers', Sailors' and Airmen's Board, the Combined Inter-Services Historical Section, the Directorate of Military Lands and Cantonments and the Joint Cipher Bureau.

RESEARCH & PRODUCTION

The Defence Minister's (Research and Development) Committee has been constituted to step up the tempo of defence research work. It has under it the Research and Development Organisation headed by the Scientific Adviser, Dr. D. S. Kothari.

The Defence Minister's (Production) Committee forms part of the higher defence control evolving a co-ordinated policy in regard to the manufacture of military stores and equipment. It has under it the Defence Production Organisation for the overall defence production effort for meeting the requirements of the Services by the maximum utilisation of the existing capacity and creating additional capacity in the Ordnance Factories, including the Machine-Tool Proto-type Factory. It is also responsible for the inspection of all stores for which orders are placed with the Ordinance Factories, other defence and public undertakings and private trade. This organisation is headed by the Controller-General of Defence Production, Rear-Admiral D. Shankar.

The Research and Development Organisation was brought into being in January 1958 by the amalgamation of the Technical Development Establishments of the three Services and the Defence Science Organisation to ensure that scientific research played an effective role in production. The head of this set-up, is the Scientific Adviser to the Minister for Defence, is assisted by a Chief Controller and a Chief Scientist. This re-organisation is intended to bring to the three Services the backing of the country's scientific activity and to secure the maximum utilisation of the available researches.

The R. and D. Organisation, which is closely associated with the Productive Organisation, includes technical establishments dealing with weapons, ammunition, military explosives, metallurgy, electronics and optical instruments. It has under it research installations like the Defence Science Laboratory, New Delhi, the Stores Laboratory, Kanpur, the Naval Laboratories at Bombay and Cochin and research-cum-training installations, like the Institute of Armament Studies, Kirkee. Whereas research is carried on in the laboratories, development work is concentrated at the various technical establishments scattered all over the country.

It was in order to meet the urgent need of training technical staff officers for the Armed Forces that the Government established the Institute of Armament Studies some years ago, as a constituent of the Defence Science Organisation. Apart from training Service officers, the Institute provides facilities for a comprehensive scientific study and research in the performance of weapons and equipment. Similarly, the two naval laboratories, one chemical and metallurgical and the other physical, were established to deal with science problems relating to the Navy.

With a view to the early realisation of the aim of self-sufficiency in defence material, the tempo of research and development is being progressively stepped up. A chain of laboratories is being established to cover new fields of activity and to evaluate the stringent conditions in different terrains of the country's frontiers. As simulation of these conditions cannot be carried out fully in the existing laboratories, certain field laboratories are being set up. A research laboratory was recently started at Jodhpur to study the performance of weapons and equipment in dry, sandy heat. Another laboratory, opened in the Landour Cantonment in Mussoorie caters for high-altitude research work. An Aeronautical Development Centre and a Gas Turbine Research Centre have been started at the Air Force Maintenance Command, Kanpur, where an aeronautical testing laboratory is also to be opened soon.

A Psychological Research Wing of the Science Organisation was formed in 1949 under a Chief Psychologist, the main function of which is to conduct research in the assessment of human personality so that the right type of officers may be selected for the Armed Forces.

A Defence Science Service has been instituted which includes all civilian scientists engaged in research, development, inspection or teaching in any of the three Services or in the Ministry of Defence.

ORDNANCE FACTORIES

The Production Organisation, which has under it about 20 Ordnance Factories, is so designed at to achieve self-sufficiency in respect of stores required by the three Services and has made continuous efforts to establish production of items hitherto imported. The organisation employs more than two and a half lakh civilian employees and represents one of the greatest State-owned integrated enterprises.

The Ordnance Factories have, since independence, been considerably enlarged and modernised to raise indigenous manufacture in an effort to make the country self-sufficient in vital supplies.

Though primarily geared for the manufacture of highly-specialised armaments and military equipment, the Ordnance Factories, as part of their peace-time functions, are now using all their utilizable spare capacity to cater to the needs of various sections of the community. Wide and varied, their civil trade activities cover the five broad categories of ferrous, non-ferrous, leather and textile, chemical and general engineering. The last category includes scientific, optical and mathematical instruments, sporting arms and ammunition, metal castings and forgings and other miscellaneous articles.

The Ordnance Factories manufacture a variety of steel, cast-iron and non-ferrous materials required by industry in various forms. Pioneer work has been done in the manufacture of practically all the steels, ferrous alloys and metal alloys for special purposes. Long experience in the manufacture of these metals for the Services guarantees the quality of the material and rigid adherence to specifications.

With the peace-time relaxation in the requirements of scientific and optical stores for the Services, the Ordnance Factories have been manufacturing precision instruments of the highest standard of quality and finish for civilian use, including 35-mm sound projectors, film-strip projectors, still-film projectors, photo-enlargers, microfilm readers, pathological,

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dissecting and student-type microscopes, auto-collimators, prismatic binoculars, splinter-proof goggles and drawing instrument sets.

Initially manufacturing only harness and saddlery items for horsed cavalry, artillery and other mounted units of the Army, one of the Ordnance Factories is now engaged in producing various miscellaneous items embracing four distinctly separate trades, *e.g.* leather, textile, wood and engineering.

The Ordnance Factories' highly-precisioned machinery, skilled craftsmen and production capacity offer substantial assistance to the Railways by keeping the wheels of traffic constantly moving. The railway stores manufactured by them cover several components of locomotives and wagons, including piston rods, connecting rods, crank-shafts, axles, coupling hooks, resistance grids, light-riding trolley wheels and fog signals. They also produce, among others, jeep-engine blocks and heads, steam and diesel road-rollers and their spare parts, oil-expellers, mechanical ploughs, air-conditioning compressors, fuel-gas plant, pressure cookers and small tools, bolts and nuts.

Among the various types of fire-arms for civil use which the Ordnance Factories produce are rifles and double and single-barrel shot-guns. They also supply to civil industry acetone, nitric and sulphuric acid, benzol, zeylol, nitro-cellulose, nitro-benzene, mono-nitro-toluene and oleum.

The Ordnance Factories have also recently undertaken the manufacture of tractors for the Dandakaranya Development Administration, the Rajasthan Canal Board and the Army and military trucks for the Army. By the end of September 1960 they had completed and delivered 196 heavy, medium and light tractors and 937 three-ton and 100 one-ton trucks.

Besides the Ordnance Factories meeting the country's defence requirements, the other important defence industries are the Hindustan Aircraft Ltd., and the Bharat Electronics Ltd. at Bangalore.

For detailed notes on Hindustan Aircraft and Bharat Electronics see article 'Government Industrial Undertakings'.

Value of defence production : 1956-57 : Rs. 14 crores ; 1957-58 : Rs. 18 crores ; 1958-59 : Rs. 20 crores ; 1959-60 : Rs. 25·14 crores ; 1960-61 : about Rs. 28 crores.

The Defence Production Organisation has also under it the Mazagon Docks, Bombay, and the Garden Reach Workshops, Calcutta, recently acquired by the Government from Peninsular and Oriental Company. While these shipyards will continue to carry out refits and repairs of commercial ships, they will also do so for naval ships. Their acquisition will greatly facilitate naval ship building.

NATIONAL CADET CORPS

The National Cadet Corps came into being in 1948. The aim of the Corps is (1) to develop character, comradeship, ideal of service and capacity for leadership in young men and women, (2) to stimulate interest in the defence of the country, and (3) to build up a reserve of potential officers to enable the Armed Forces to expand rapidly in a national emergency. The organisation is, thus, mainly of an educational and nation-building character. Officers and cadets have no liability whatsoever for active military service.

A certain percentage of the total intake of candidates for commissioned ranks in the Army, Navy and Air Force, on the basis of direct entry to the Armed Forces training institutions, has been reserved for N.C.C. cadets of the three Services.

The N.C.C. consists of three divisions : (1) Junior, (2) Senior and (3) Girls'.

The strength of the Corps as on March 31, 1960, was as follows :—

Senior Division						Junior Division						Girls' Division			
Army Wing		Naval Wing		Air Wing		Army Wing		Naval Wing		Air Wing		Senior Wing		Junior Wing	
Officers	Cadets	Officers	Cadets	Officers	Cadets	Officers	Cadets	Officers	Cadets	Officers	Cadets	Officers	Cadets	Officers	Cadets
1,812	87,913	42	2,160	54	3,655	2,326	97,538	169	6,950	231	9,652	212	9,540	400	18,000

Grand Total—Senior Division—95,636, Junior Division—1,16,866, Girls' Division—28,152.
The strength of the Corps a year earlier was : Senior Division 74,471, Junior Division 92,326 and Girls' Division 26,588.

The Senior Division provides Service training to young graduates and recruitment to it is from amongst students of universities and colleges. It is composed of three wings, *viz.* Army, Navy and Air.

Recruitment to the Junior Division is from amongst students of secondary schools. It is also composed of Army, Navy and Air Wings.

The object of the Girls' Division is to develop all-round personality among girls. This Division has two wings, Senior and Junior, units of the Senior Wing being raised in colleges and those of the Junior Wing in schools.

In order to better fit cadets of the N.C.C. for the officer ranks of the Armed Forces and to increase the cadet intake into the Services, the Government have recently decided to raise Officer Training Units (O.T.U.) in the Corps all over the country. The total strength of these training units will be 750 to be made up in the course of three years by the recruitment of 250 each year. Thereafter, 15 per cent of the vacancies at the Indian Military Academy, Dehra Dun, will be offered to these training units, as against the present 10 per cent reserved for direct N.C.C. entry and henceforth this will be the only N.C.C. intake into this institution for pre-commission training of Army officers. Technical graduates of these training units will also be given direct commissions in the Navy and Air Force.

In response to an increasing demand in the country for more and more military training being given to as many students as possible, Government propose to expand the Cadet Corps by the addition of new units called N.C.C. Rifles to be organised, equipped and trained on the pattern of the rifle regiments in the Army.

Entry into the ranks of the N.C.C. Rifles will be open to boys and girls above the age of 15/16 years on a voluntary basis, but their training will not involve any military liability. Training for boys will consist of drill with and without arms, weapon training, field-craft, map-reading, patrolling section and platoon reading, first aid, fire-fighting and rescue work, while that for girls will comprise P.T., squad drill, signalling, hygiene and sanitation, first aid and home nursing.

To cope with the demand for military training for boys and girls in schools who cannot get admission into the N.C.C., an Auxiliary Cadet Corps has been started. This corps has made rapid progress, and its present strength is estimated at 10 lakhs.

The A.C.C. trains the youth of the country in team spirit, discipline and patriotism. It functions under the overall supervision of the Director, National Cadet Corps, Ministry of Defence. Instructors for this organisation are selected from schools and are trained by regular Army staff of the various N.C.C. units.

TRAINING INSTITUTIONS

The important training institutions common to the three Services are given below:

National Defence College : The National Defence College has been set up this year (1960) in New Delhi, for the training of senior officers of the three Services, on the pattern of the Imperial Defence College in the U.K. Its main purpose is to enable students to study the military, scientific, industrial, social, economic and political factors involved in war as also the higher direction and strategy of warfare. Concurrently with this study, it offers a unique opportunity to senior Service officers and highly-placed civil servants of getting together and exchanging ideas so as to give them both a clearer and better understanding of each other's problems in peace and in war. The training lasts about a year and officers selected for attending the course are ordinarily of the rank of Brigadier in the Army and equivalent ranks and status in the Navy, the Air Force and the civil services, including scientists. Only those in the age-group of 38–45 years who are considered to be potential leaders in their professions are selected for the course.

Commandant, Lt.-Gen. K. Bahadur Singh.

Defence Services Staff College : The Defence Services Staff College is located in Wellington in the Nilgiri Hills in south India. One hundred officers drawn from all the three Services, including six officers from the U.S.A. and Commonwealth countries, are, trained every year. The aim of the course is to prepare officers to hold second-grade or equivalent staff appointments or higher staff or command appointments.

Commandant, Maj.-Gen. S. H. F. J. Manekshaw.

National Defence Academy : The National Defence Academy at Khadakvasla, near Poona, started functioning in its present location in January 1955. Previously, it had been set up at Dehra Dun in January 1949 as an experimental measure, with a Joint Services Wing and a Military Wing. On its move to Khadakvasla, the J.S.W. came to be known as N.D.A. At this Academy, Army, Navy and Air Force cadets receive three years' combined basic training. The first two years are devoted to common preliminary training and the third to specialised training in the respective Services. Thereafter, Army cadets join the Indian Military Academy at Dehra Dun for a further one-year course, while Naval and Air Force cadets proceed to their respective Service establishments for advanced training.

Commandant, Rear-Admiral B. A. Samson.

Rashtriya Indian Military College : Run on the lines of public schools, the Rashtriya Indian Military College, located in Dehra Dun, brings up future officers of the three Services by imparting preliminary pre-cadet training to such pupils as desire subsequently to choose a military career. It thus serves as a feeder to the National Defence Academy, which provides combined basic training to cadets of all the three Services. Called until recently as Sainik School and previously as Prince of Wales Royal Indian Military College, it was started in 1922 with the primary object of catching would-be officers of the Armed Forces at an impressionable age to be able easily to mould their character. By a

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carefully-framed compulsory system of P.T., drill, parades and games, students are groomed to attain certain physical standards to fit them for a Service career. Though special attention is paid to fostering in them discipline, self-reliance and an aptitude for soldiering, social training forms an important extra-curricular activity.

Principal, Din Dayal.

School of Foreign Languages : Located in New Delhi, the School of Foreign Languages was started in 1949 to meet the growing demand for qualified linguists.

Director, P. N. Banerjee.

Armed Forces Medical College : The Armed Forces Medical College is an inter-services post-graduate institution designed to meet the requirements of the integrated medical services of the Army, Navy and Air Force, and is located in Poona. The College has departments of medicine, surgery, pathology, hygiene, radiology, blood transfusion and dentistry.

Commandant, Maj.-Gen. C. C. Kapila.

ARMED FORCES MEDICAL SERVICES

The Directorate-General of Armed Forces Medical Services was created in 1948 with a view to integrating the medical services of the Armed Forces.

An officer of the rank of Lieut.-General is the head of this inter-Services organization, who maintains close contact with the three Directors of Medical Services (Army, Navy and Air Force). He is responsible to the Ministry for the over-all medical policy relating to the Armed Forces. The entire organisation relating to medical equipment and stores is directly under him. The Directorate has under it the Armed Forces Medical College and the Artificial Limb Centre.

A modern Artificial Limb Centre was set up by the Central Government at Poona soon after World War II. In 1948, with the arrival of new equipment and machinery from the U.K., it was firmly established and now claims to be the fourth largest institution of its kind in the world.

The Centre, which functions under the control of the Director-General of Armed Forces Medical Services, also produces various types of orthopaedic boots and shoes, belts, trusses and spinal braces.

RESETTLEMENT DIRECTORATE

The Directorate of Resettlement in the Defence Ministry deals with matters relating to the rehabilitation of ex-Servicemen in civil life.

In collaboration with other Ministries of the Central Government, the State Governments, the Post-War Reconstruction Fund Trust Committees and other organisations, the Defence Ministry has formulated schemes for resettling ex-Servicemen in the Government and private service, land colonies, vocational and technical trades and motor transport services. More than 1,39,590 ex-Servicemen have already been thus rehabilitated in civil life.

In the matter of employment, the Government have accorded preference to ex-Servicemen in filling up appointments in police, excise, watch and ward and other departments for which military training is a qualification. As a result, nearly 1,03,295 ex-Servicemen have been placed in Government. Ex-Servicemen who have a bias for agriculture are settled on land.

Through the efforts of the Defence Services Liaison Organization, set-up in May 1956, 423 retired Armed Forces officers were selected for appointment in civil posts under the Central or State Governments and 56 in the private sector up to the end of September 1960.

SOLDIERS', SAILORS' AND AIRMEN'S BOARD

The Indian Soldiers', Sailors' and Airmen's Board is the most important official institution connected with the welfare of the serving personnel of the Armed Forces and ex-Servicemen and their families.

The Board has its seat at New Delhi and co-ordinates the activities of State boards which exist in each State. Under the control of these State boards, there exists throughout the country a network of district boards reinforced in some cases by tehsil or taluka committees and other kindred bodies. These boards are established in all districts from which recruits have been obtained in sufficient numbers. The President of the District Board is the Collector or the Deputy Commissioner.

The Indian Soldiers', Sailors' and Airmen's Board Fund is now used primarily for payment of special pensions to blinded ex-Servicemen and to meet the expenditure on miscellaneous items, such as bank charges and audit fees in connection with the administration of the fund.

The other Central funds which are not under the control of the Indian Soldiers', Sailors' and Airmen's Board are :

Armed Forces Benevolent Fund, Flag Day Fund, Armed Forces Reconstruction Fund, Army Central Welfare Fund, Navy Benevolent Association Fund, Navy Amenities Fund, Air Force Benevolent Association Fund, Air Force Central Welfare Fund, Indian Gorkha Ex-Servicemen's Welfare Fund and St. Dunstan's India Fund.

A sum of Rs. 11,01,177 was collected on the 1958 Flag Day.

HISTORICAL SECTION

The Combined Inter-Services Historical Section (India and Pakistan) has been engaged in an ambitious scheme of writing a comprehensive history of World War II, with particular reference to the operations in which the Armed Forces of undivided India took part. The scheme envisages a series of 24 volumes ; 13 volumes have already been published, while the remaining 11 are under preparation.

The Historical Section has under it a small research organisation now set up on a permanent footing to act as custodian of the records of the Defence Ministry and the three Services. Its functions include the writing of historical accounts of recent operations and the giving of information and advice on military history to the Services.

GALLANTRY AWARDS

Three new gallantry awards were instituted by the President after Independence for gallantry in combat with the enemy. They are designated the Param Vir Chakra, the Maha Vir Chakra and the Vir Chakra. They came into force with effect from August 15, 1947.

The Param Vir Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice, in the presence of the enemy, whether on land, at sea or in the air. It ranks first among all awards.

The Maha Vir Chakra is awarded for conspicuous acts of gallantry in the presence of the enemy whether on land, at sea or in the air.

The Vir Chakra is awarded for acts of gallantry in the presence of the enemy, whether on land, at sea or in the air.

A fourth gallantry decoration, named the Ashoka Chakra, in three grades, *viz.* Class I, Class II and Class III, was instituted for acts of gallantry other than in the face of the enemy. This also came into force with effect from August 15, 1947.

Class I of the Chakra is awarded for most conspicuous bravery, or some daring or pre-eminent act of valour or self-sacrifice. Class II of the Chakra is awarded for conspicuous gallantry and class III for gallantry.

If a recipient of any of these Chakras again performs such an act of bravery as would have made him or her eligible to receive the same decoration, such further act of bravery is recognised by the award of a Bar attached to the riband by which the Chakra is suspended, and for every such additional act of bravery, an additional Bar is added, and any such Bar or Bars is/are also awarded posthumously. For every Bar awarded a replica in miniature of the Chakra concerned and in the case of the Param Vir Chakra of the "Indra's Vajra" is added to the riband when worn alone.

Every recipient of any of these decorations who is junior in rank to a 2nd Lieutenant in the Army, a Sub-Lieutenant in the Navy, or a Pilot Officer in the Air Force, is entitled, from the date of the act by which the decoration has been gained, to a special pension, and each additional Bar conferred carries with it additional pension for life.

A system of Mention-in-Despatches was also instituted. A 'lotus leaf' emblem is worn by the awardees on the ribbon of the campaign/war medal concerned.

The rates of monetary allowance admissible are as follows :—

(*a*) (*i*) Param Vir Chakra.—Rs. 50 p.m. (Rs. 70 p.m. in the case of J.C.Os. who have previously been given an award of the second order of gallantry, such as the I.O.M.).
(*ii*) Each Bar to PVC.—Rs. 20 p.m.
(*b*) (*i*) Maha Vir Chakra.—Rs. 30 p.m. (Rs. 50 p.m. in the case of J.C.Os. who have been previously given a gallantry award of the third order, such as the M.C.).
(*ii*) Each Bar to M.V.C.—Rs. 10 p.m.
(*c*) (*i*) Vir Chakra.—Rs. 20 p.m.
(*ii*) Each Bar to Vr.C.—Rs. 8 p.m.

The following are the details of Republican India's awards won by members of the Armed Forces up to March 30, 1961 :—

INDIAN ARMY
Param Vir Chakra—5 (3 posthumous).
Ashoka Chakra Cl-I—7 (5 posthumous).
Maha Vir Chakra—51 (20 posthumous).
Ashoka Chakra Cl-II—50 (11 posthumous).
Vir Chakra—292 (58 posthumous), the number including 4 bars.
Ashoka Chakra Cl-III—85 (13 posthumous).
Mention-in-Despatches—1,153 (35 posthumous).
INDIAN NAVY
Ashoka Chakra Class III—3.
INDIAN AIR FORCE
Ashoka Chakra Cl-I—1.
Maha Vir Chakra—4.
Ashoka Chakra Cl-II—9.
Vir Chakra—29 (2 posthumous).
Ashoka Chakra Cl-III—5.

The recipients of the Param Vir Chakra are Maj. Som Nath Sharma, Capt. R. R. Rane, Company Hav.-Maj. Piru Singh, Naik Jadunath Singh and L/Nk. Karam Singh, while those of the Ashoka Chakra, Class I, are Lt.-Col. J. R. Chitnis, Flight-Lieut. Subhas Biswas, Capt. D. K. Jatar, Lieut. P. M. Raman, Hav. Bachitar Singh, Hav. Sunder Singh, Hav. Joginder Singh and Naik Nar Bahadur Thapa.

NEW SERVICE MEDALS

Six new awards for the Armed Forces—Vishisht Seva (Distinguished Service) Medal, Sainya Seva (Services) Medal, Videsh Seva (Overseas) Medal, Sena (Army) Medal, Nao Sena (Navy) Medal and Vayu Sena (Air Force) Medal—were instituted by Government on the occasion of 1960 Republic Day.

The Vishisht Seva Medal is to be awarded to personnel of all the three Services in Classes I, II and III in recognition of distinguished service of the "most exceptional", "exceptional" and a "high" order respectively, Sainya Seva Medal to all Service personnel in recognition of non-operational duties under conditions of hardship and severe climate, and the Videsh Seva Medal to all ranks of the Armed Forces for duties outside India. The Army, Navy and Air Force medals are to be awarded in recognition of such individual acts of exceptional devotion to duty or courage as have special significance for the Service concerned.

INDIAN ARMY

The Army HQ located in Delhi, functions directly under the Chief of the Army Staff. It is divided into the following main branches : (*a*) General Staff Branch, (*b*) Adjutant-General's Branch, (*c*) Quartermaster-General's Branch, (*d*) Master-General of the Ordnance Branch, (*e*) Engineer-in-Chief's Branch and (*f*) Military Secretary's Branch. These branches are further sub-divided into directorates.

The Chief of the General Staff, who is one of the four Principal Staff Officers (holding the rank of Lt.-General) at Army Headquarters,

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deals with military operations and intelligence, staff duties, training, artillery, signals, weapons and equipment, survey and the Territorial Army.

The Adjutant-General, who is another P.S.O., deals with all matters concerning man-power, such as pay and pensions, discipline, and terms and conditions of service. The A. G. is also assisted by the Judge Advocate-General in matters affecting military law and international law in its military aspect.

The third P.S.O. is the Quartermaster-General, who controls all rail and sea movement, both of personnel and stores, within and outside the country. He also deals with the quartering problems of the Army as well as labour, canteen, fire and postal services.

The Master-General of the Ordnance, who is the fourth P.S.O., is responsible for the storage, care and preservation and issue of all kinds of equipment for troops. The Directorate of Electrical and Mechanical Engineering is also under the M.G.O.

The Engineer-in-Chief is the head of the Corps of Engineers and of the Military Engineering Service. The E.-in-C.'s Branch gives technical advice on all engineering matters to the three Service Headquarters.

The Military Secretary handles confidential reports of officers and maintains their personal records. The M. S. Branch is also responsible for postings and transfers, promotion and retirement of officers and the grant of honorary ranks and all types of commissions.

Under the Army H.Q., the Indian Army is organised into three Commands—Eastern, Western and Southern, each being under a General Officer Commanding-in-Chief of the rank of Lieutenant-General. The Commands are divided into Areas, each under the command of a G.O.C. of the rank of Major-General, and the Areas, in their turn, are sub-divided into Sub-Areas each under the command of a Brigadier.

The Army consists of a number of arms and services. They are Infantry, Armoured Corps, Regiment of Artillery, Corps of Engineers, Corps of Signals, Army Service Corps, Army Ordnance Corps, Army Medical Corps, Army Dental Corps, Corps of Electrical and Mechanical Engineers, Army Education Corps, Remounts, Veterinary and Farms Corps, Corps of Military Police and Defence Security Corps.

TERRITORIAL ARMY

As no country can afford to maintain a large standing fighting force in peace-time without straining its resources in men and material, a Territorial Army was formed in India, in 1949 to serve as a second line of defence.

The Territorial Army Act, 1948, was passed by Parliament in September 1948 and the Army was inaugurated in October 1949 when recruitment was thrown open.

The Territorial Army consists of various arms and services, *i.e.*, the Regiment of Artillery, including anti-aircraft and coastal defence units, the Corps of Engineers, including port and railway units, the Corps of Signals, including P. and T. units, Infantry, the Medical Corps and the Corps of Electrical and Mechanical Engineers. The units raised are of two types, *i.e.*, provincial units recruited from rural areas which undergo annual training of two to three months' duration at a stretch, and urban units recruited from large towns where Territorial Army units have been raised. They undergo training on the weekly drill system, *i.e.* in the evenings, Sundays and holidays with a short camp of not less than four consecutive days.

All able-bodied persons, from unskilled labourers to highly qualified technicians, provided they are citizens of India, are eligible for recruitment. The age limits are 18 and 35 years, relaxable in the case of ex-Service (Army, Navy and Air Force) personnel and civilians possessing technical qualifications. Government servants and employees of private concerns are also eligible to join the Territorial Army.

The role of the Territorial Army is to

(*i*) relieve the Regular Army of static duties and support the civil power if required.
(*ii*) provide coastal defence and anti-aircraft units.
(*iii*) provide units for the Regular Army if and when required.

When embodied, called out or under training, Territorial Army personnel receive the same pay and allowances as are admissible to the corresponding ranks of the Regular Army. It is obligatory for every civilian employer to reinstate a member of the Territorial Army in his civilian post on termination of his military training.

In order to provide an incentive to Territorial Army personnel for hard and meritorious work, 2½ per cent of the actual vacancies available at the Indian Military Academy are reserved for such personnel. On successful completion of the course at the Academy, they are granted regular commissions in the Army.

No officer or enrolled person is required to perform military service beyond the limits of India, save under a general or special order of the Central Government.

LOK SAHAYAK SENA

Ever since Independence, there has been a persistent demand in the country for imparting military training to the people. To meet these aspirations, a scheme known as the Auxiliary Territorial Force was introduced in 1950, with the aim of giving elementary military training to as large a number of people as possible. Later, when it was decided to enlarge the scope of the scheme, the A.T.F. was wound up and its place taken by the National Volunteer Force, since re-designated Lok Sahayak Sena.

The L.S.S. was inaugurated on May 1, 1955, to train five lakh men in five years or less. All able-bodied male citizens between 18 and 40 years, except ex-Servicemen and N.C.C. cadets, are eligible to join this force. The object is not to raise a force for the defence of the country but to get people interested in national service and to inculcate in them a sense of discipline, self-reliance and responsibility.

Training in this force is imparted at camps organised throughout the country. The duration of a training camp is 30 days at which a maximum of 525 trainees are recruited. Training in this force includes drill, rifle training, elementary field engineering, first aid, hygiene and education.

From May 1, 1955, up to March 31, 1960, 1,065 L.S.S. camps had been held and nearly 4,69,000 persons trained as better citizens, healthier both in mind and body.

ARMY SCHOOLS

Recruitment for the permanent cadre of commissioned ranks in the Army is done through the National Defence Academy, Khadakvasla, and the Indian Military Academy, Dehra Dun. After completion of their three-year course at the N.D.A. Army cadets have to spend another one year at the Military Academy before being commissioned. Direct admission to the Academy at higher age-levels also continues, though the number of cadets so taken is limited.

The Military Academy at present conducts courses for ex-N.D.A., direct-entry and N.C.C. cadets, serving personnel, and technical graduates. Regular and direct-entry cadets commissioned in the technical branches are sent on specialised post-commission courses. The technical graduates' course was specially introduced in January 1948 as a temporary measure to give military training to qualified technicians and engineers for the Corps of Engineers, the Corps of Signals and the Corps of Electrical and Mechanical Engineers to cope with the increased requirements of technicians for the Army.

The Armoured Corps Centre and School at Ahmednagar trains recruits as well as regimental instructors. The School of Artillery at Deolali provides training in the field, anti-tank, anti-aircraft and coastal artillery branches. The Army Ordnance School at Jabalpur imparts specialised training to all officers and ORs in identification, handling and storage of various types of items, including ammunition and explosives.

The Infantry School at Mhow is the home of infantry doctrines and a centre for developing infantry weapons. The School also conducts courses for senior officers and junior commanders of all corps in the Army. The Army Service Corps has two schools, one at Meerut and the other at Bangalore, giving training in organisation and administration, animal transport, mechanical transport and supplies. The Army Medical Corps has its training centres at Lucknow and Poona.

The College of Military Engineering at Kirkee, near Poona, trains officers of the Corps of Engineers, the Corps of Signals and the Corps of Electrical and Mechanical Engineers to the degree standard in civil, tele-communication and electrical and mechanical engineering respectively.

The Madras, Bombay and Bengal Engineer Groups at Bangalore, Poona and Roorkee provide basic technical and specialised Corps training to officers and ORs of the Corps of Engineers as also civilian officers of the Military Engineering Service.

The Corps of Electrical and Mechanical Engineers has its training centre at Secunderabad, while the School of Signals, which gives technical training in tele-communication engineering to personnel of the Corps of Signals, is situated at Mhow. The Army Signals School, which trains officers and ORs of all arms as instructors in regimental signals, is located at Jabalpur.

The other training institutions in the Army are the Remounts, Veterinary and Farms Centre and School at Meerut, the Education Corps School and the Military School of Music at Pachmarhi, and the Intelligence Corps School and the Physical Training School at Poona.

The various commissioned ranks in the Army from the top downwards are: General, Lieutenant-General, Major-General, Brigadier, Colonel, Lieutenant Colonel, Major, Captain, Lieutenant and Second Lieutenant. The ranks of the Junior Commissioned Officers and other ranks respectively are Subedar-Major/Risaldar-Major, Subedar/Risaldar, and Jemadar/Dafadar, and Havildar, Naik, Lance-Naik and Sepoy/Sowar.

INDIAN NAVY

The Naval HQ, under the Chief of the Naval Staff, exercises control over the Indian Navy through the following four operational and administrative commands:

1. Flag Officer Commanding, Indian Fleet.
2. Flag Officer, Bombay.
3. Commodore-in-Charge, Cochin.
4. Commodore, East Coast, Vishakapatnam.

Today, the Indian Fleet consists of I.N.S. MYSORE, a cruiser (Flagship of the Navy), the cruiser I.N.S. DELHI, two Destroyer Squadrons (I.N.S. RAJPUT, RANJIT, RANA, GODAVARI, GOMATI and GANGA), one Frigate Squadron (I.N.S. CAUVERY, KISTNA and TIR), and three Minesweeping Squadrons (I.N.S. BOMBAY, KONKAN, MADRAS, RAJPUTANA, BENGAL, ROHILKHAND, BASSEIN, BIMLIPATAM, KARWAR, KAKINADA, CANNANORE and CUDDALORE).

In addition, the Fleet has some survey ships, a tanker and some auxiliary craft.

The survey unit of the Navy, which now comprises I.N.S. INVESTIGATOR, JUMNA, SUTLEJ and DARSHAK, carries out the necessary survey of India's coast and approaches to harbours. I.N.S. DARSHAK of 2,750 tons displacement is the first naval ship built in India.

In the programme of modernisation of the Fleet, a number of new ships have been acquired. These are mostly anti-submarine and anti-aircraft

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frigates of the latest type, some of which are still under construction in the U.K. Of these, I.N.S. BRAHMAPUTRA, KHUKRI, KIRPAN, KUTHAR, TALWAR, TRISHUL and BEAS have already joined the Fleet, and are being grouped into separate frigate squadrons. The one still under construction or in the various stages of completion is I.N.S. BETWA.

A beginning has already been made to build certain simpler types of naval vessels in India. A mooring vessel, I.N.S. DHRUVAK, and a survey ship, I.N.S. DARSHAK, built at the Hindustan Shipyard Ltd., Visakhapatnam, have already been launched. I.N.S. AJAY is the latest of the new constructions. Two more similar sea defence boats are now getting ready at Calcutta.

The first engineering college for the Indian Navy was inaugurated in the precincts of I.N.S. SHIVAJI on January 2, 1960.

The Naval Dockyard, which came into being in 1750, has constructed some of the finest ships for the Royal Navy. A 1,000-ton frigate built at the Dockyard in 1870, which was originally named 'Trincomalee', is still being used by the Nautical Committee of the U.K.

The Dockyard is now equipped with a foundry, boiler, engine and ship-fitting shops, electronic and radar workshops, blacksmith, plater, joiner and carpentry shops, soil-making lofts, machine-shops, and gun-mounting and torpedo workshops. Its main function is to carry out all types of major refits of ships of the Navy and the associated harbour craft services. To meet the demands of the growing Service this Dockyard is being rapidly expanded.

NAVAL AVIATION

The Naval Air Arm, which is one of the youngest branches of the Navy, came into being in 1948 for training aircrew, followed soon after by the setting up of a Naval Air Station at Cochin. Later, the formation of a Fleet Requirements Unit was approved, aircraft, equipment and spares acquired and officers and ratings deputed for training courses abroad. The civil airfield at Cochin was acquired for the Navy in 1953 to be converted into the first Naval Air Station. Soon after, the first batch of Sealand aircraft were purchased from the U.K. and later the station was named I.N.S. GARUDA. Early in 1955, a number of Firefly target-towing aircraft were obtained from the U.K. for providing gunnery-training facilities for the Fleet. The strength of the Fleet Requirements Unit was further augmented when three HT-2 aircraft were acquired from HAL to give instructional training to aircrew and other personnel. A jet flight has been added to the Fleet Air Arm with a number of Vampire jet aircraft.

The first aircraft carrier acquired by the Indian Navy was commissioned at Belfast on March 4, 1961 in the United Kingdom. Formerly known as H.M.S. HERCULES the carrier was renamed as I.N.S. VIKRANT.

This light fleet aircraft-carrier, which has a displacement of 19,550 tons (full load), was acquired for the Navy in 1957. The carrier was expected to be commanded by Capt. P. S. Mahindroo, I.N. and she would have a complement including her flying personnel, of over 1,000 officers and sailors. The carrier was expected to arrive in India in September 1961. A Naval Air Training School has been set up at Cochin to train ratings in the maintenance and repair of aircraft. At the same time, the Government are considering setting up a School for Naval Airmen for training non-technical personnel.

A number of Sea Hawks and Brognet Alize aircraft have been acquired for the carrier.

To meet the meteorological needs of the Fleet Requirements Unit, a Naval Weather Service Organisation, manned by trained instructor officers, was established at the GARUDA towards the end of 1952. Since then, more and more instructor officers have been trained to take over meteorological duties, both ashore and aboard ships. This organisation now also conducts courses of instruction in meteorology for naval ratings.

TRAINING ESTABLISHMENTS

The training of other naval personnel is carried out in the shore establishments of I.N.S. VENDURUTHI, Cochin, I.N.S. CIRCARS, Visakhapatnam, I.N.S. ANGRE, Bombay, I.N.S. KUNJALI, Bombay, I.N.S. SHIVAJI, Lonavla, I.N.S. VALSURA, Jamnagar, and I.N.S. HAMLA, Bombay. I.N.H.S. ASVINI at Bombay and I.N.H.S. SANJIVANI at Cochin are the two naval hospitals.

The various ranks in the Navy from the top downwards are: Admiral, Vice-Admiral, Rear-Admiral, Commodore, Captain, Commander, Lieut.-Commander, Lieutenant, Sub-Lieutenant, Branch List Officer, Midshipman, Chief Petty Officer, Petty Officer, Leading Rate, Able Rate and Ordinary Rate.

INDIAN AIR FORCE

The Air HQ is divided into three main branches—Air Branch, which deals with operations, training, policy and plans, signals, reserves and intelligence, Administration Branch and Maintenance Branch. Each is under a Branch P.S.O. who, in turn, has several Directorates under him.

The Indian Air Force is, in the main, divided into four major formations, namely Operational, Training, Maintenance and Eastern Air Commands under the control of the Air HQ.

The Operational Command controls all flying units—fighter, bomber, reconnaissance and air-transport squadrons. The Training Command has under its control training schools and colleges for both officers and airmen for technical and non-technical ground training and for aircrew flying training. The Maintenance Command controls all technical and equipment units in the I.A.F. The Eastern Air Command, recently established, unlike the other three Commands organised on a functional basis, has been set up on a geographical basis as in the case of the Army. All the four Commands are headed by Air Officers Commanding-in-Chief in the rank of Air Vice-Marshal.

The three Commands exercise control through their Wings and Stations located in various parts of the country. Under each Wing and Station come various flying, training, technical or other static units.

The different types of aircraft used by the IAF:

Training: Tiger-Moth, Percival Prentice, HT-2, Harvard, Spitfire and Vampire.

Fighter: Vampire, Toofani (Ouragon), Mystere, Hunter and Gnat.

Transport: Dakota, Devon, C-119 (Boxcar), Otter, Viscount, Ilyushin and Helicopter.

Bomber: Liberator and Canberra.

Reconnaissance: Liberator and Canberra.

TRAINING ESTABLISHMENTS

During the past few years, this youngest Defence Service, which celebrated its silver jubilee on April 1, 1958, has attained a large measure of self-sufficiency in the field of training in flying and technical and non-technical duties. Only a very small number of officers are now sent abroad for specialised courses not available in this country.

The Air Force Flying College at Jodhpur is the nursery of pilots, navigators and air-signallers. Advance flying training to aircrew is provided at Hyderabad, a Jet Training Wing and a Transport Training Wing having been set up at Hakimpet and Begumpet respectively as part of the Air Force Station. On successful completion of their one-year training at Jodhpur, pupil aircrew have to undergo a year's training at Hakimpet or Begumpet before being awarded their wings and commissioned.

The Air Force Administrative College at Coimbatore trains officers of the ground duty branches. The Air Force Technical College at Jalahalli, near Bangalore, imparts training to engineering officers and technical airmen of certain advanced signals trades. The No. 1 Ground Training School at Jalahalli trains non-technical airmen. The No. 2 Ground Training School at Tambaram (Madras) trains technical tradesmen (airmen). The No. 3 Ground Training School at Jalahalli is intended for airmen trainees of higher signals trades.

A School of Land/Air Warfare has been set up at Secunderabad to train Army and Air Force officers in the doctrine and planning of joint operations by air and ground forces, namely close air support, air transport support and air defence. The School has been organised into three wings corresponding to these distinct categories. Likewise, instructional staff of the institution is drawn from the two Services.

The School of Aviation Medicine, set up in Bangalore in 1957, runs courses for the training of medical officers and airmen in the science of aviation medicine. It contemplates subsequently undertaking research in this somewhat new, though extremely fascinating, field and has already established itself as an essential link in the training and research organisation of the Air Force. Aviation medicine seeks to help in the selection of aircrew and in investigating and solving problems associated with military aviation in general and high-speed, high altitude jet and space flight in particular.

The I.A.F. Paratroopers' Training School at Agra, instituted in 1949, continues to train paratroopers for the Army, personnel for the I.A.F. Para-Medical Flights and instructors for the School itself.

PRODUCTION ACTIVITY

Now armed with the latest jet trans-sonic aircraft, the Air Force has made rapid headway in the sphere of technical development. It can today boast of an organisation not merely performing maintenance tasks but also participating in research and production activity. It comprises a network of repair and manufacturing units backed by a chain of equipment and storage depots.

Earliest and foremost of these units is the Base Repair Depot. Since its establishment, soon after Independence, as a nucleus of the Air Force repair organisation, it has grown in scope and size. It has since assembled new aircraft, sent back into service aircraft after reconditioning, and reclaimed with the assistance of the H.A.L., virtually "dead" Liberators and restored them to operational fitness. Today, the various functions of the B.R.D. are erection of new aircraft, periodical overhaul of planes in use, repair of damaged aircraft, overhaul of aero-engines and rectification of defects in engines.

The Defence Ministry recently entered into an agreement with Messrs. Hawker Siddeley Aviation, Ltd., of the U.K. for the manufacture in India under licence of the Avro-748 transport aircraft in replacement of the Dakotas, which are now getting obsolete. The manufacture of this aircraft, with the help of British technicians, will be undertaken at the Air Force base at Kanpur. The Avro-748 is a pressurised low-wing monoplane offering comparatively low operating costs, with the additional advantage of propeller-turbine power plant. It will have Rolls-Royce Dart engines.

AUXILIARY AIR FORCE

In pursuance of the Reserve and Auxiliary Air Forces Act of 1952, seven Auxiliary Air Force Squadrons have so far been raised at Delhi, Bombay, Calcutta, Allahabad, Madras, Bhubaneshwar and Chandigarh. Similar auxiliary squadrons will be formed in other principal cities of India. Three of these squadrons are now equipped with jet aircraft.

The A.A.F. is intended to assist the Regular Air Force in aerial defence and to provide air support to the Regular Army and the T.A. in an emergency. It provides part-time Air Force training to citizens and does not interfere with their normal vocational pursuits in civil life.

The various commissioned ranks in the Air Force from the top downwards are: Air Chief Marshal, Air Marshal, Air Vice-Marshal, Air Commodore, Group Captain, Wing Commander, Squadron Leader, Flight Lieutenant, Flying Officer and Pilot Officer.

The men are ranked as Master Warrant Officer, Warrant Officer, Flight Sergeant, Sergeant, Corporal, Leading Aircraftsman, and Aircraftsman Class I and Aircraftsman Class II.

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SOCIAL WELFARE IN INDIA

THE period under British rule (1800-1947) witnessed a destruction of the old social structure in India. In the new structure that emerged a number of reforms and institutions were introduced by bodies like the Bramho Samaj (associated with the name of Raja Ram Mohan Roy), the Prarthana Samaj, the Deccan Education Society and the All-India Social Reform Association (Justice M. G. Ranade), the Ramkrishna Mission (Swami Vivekananda), the Servants of India Society (G. K. Gokhale) and the Arya Samaj (Dayanand Saraswati). The Arya Samaj and the Ramkrishna Mission sponsored social reforms, established orphanages, widows' homes, free dispensaries and relief centres in periods of emergency. The Servants of India Society is especially notable for its ramifications in the fields of labour, tribal welfare, youth welfare and emergency and relief work. An impetus to women's welfare was given by D. K. Karve's Women's University and G. K. Devadhar's Seva Sadan in Poona.

During this period pioneering work in many neglected fields of service, *e.g.* foundling homes, leper asylums and institutions for the maimed and the handicapped, was undertaken by Christian missionaries in the country.

By 1920 Mahatma Gandhi's contribution began to gain recognition throughout the country. He provided for a number of constructive social welfare programmes through organisations like the Harijan Sewak Sangh, All-India Village Industries Association, Charkha Sangh, the Hindustani Nai Talimi Sangh, Goseva Sangh, and the Kasturba Gandhi National Memorial Trust, etc. His constructive programme also included dignity of manual labour and labour welfare, prohibition of alcohol, drugs and gambling, Tribal welfare and leprosy relief.

The late '30s saw the formation of the first popular Ministries in eleven provinces in India.

During the same period professional social work began to be recognised with the establishment of the Tata Institute of Social Sciences in 1936.

The new profession generally covers the following fields of social work: Community Welfare Services; Family, Child and Youth Welfare Service; Public Welfare Administration; Social Security Services; Services for the maladjusted and handicapped groups; Social Defence and Correctional Administration; Services for Emergency Relief and Rehabilitation; Social Legislation and Social Action; Social Research; Training in Social Work; Tribal Welfare and Rural Welfare.

The establishment of the Indian Conference of Social Work at a meeting of over 450 social workers assembled in Bombay in November 1947 marks a significant development in the field of social work in India. The Conference undertakes and promotes the study of social problems and endeavours to foster co-operation, collaboration and co-ordination amongst social service agencies in India and abroad. It has held sessions in Bombay (1947), Madras (1948), Delhi (1949), Jamshedpur (1950), Calcutta (1951), Hyderabad (1953), Lucknow (1954), Bangalore (1955), Jaipur (1956) and its Decennial Anniversary Session in Madras (1957).

The I.C.S.W. held its third national seminar, the subject being urban community development, in December 1959 at Hyderabad.

In 1952, it enabled the International Conference of Social Work to hold its Sixth Session at Madras— the first International Conference on Asian soil.

Part IV of the Constitution lays down the "Directive Principles of State Policy", as follows:—

"The State shall strive to promote the welfare of the people by securing and protecting as effectively as it may, a social order in which justice, social, economic, and political, shall inform all the institutions of the national life."

SOCIAL LEGISLATION

Social legislation on an all-India scale dates back to 1843 when the first law abolishing slavery was passed. The earlier laws sought to reform the evil social practices existing at the time, practices such as *Sati* and infanticide. Later, social legislation began to assume a more positive and constructive role. Laws for better working conditions in factories, laws providing maternity benefits, for the abolition of traffic in women and children, and laws for the protection and care of destitute and delinquent children have all received attention in the first half of this century.

According to the present Constitution, social legislation can be formulated and implemented both by the Central and State Governments. Most social subjects are on the concurrent list, *i.e.* they can be legislated upon by the Central or State Governments. These subjects include: marriage and divorce, social security and social insurance, economic and social planning, welfare of labour, charities and charitable institutions, vagrancy and mental deficiency.

Prison Reform Bills and Borstal Institutions are subjects in the State list. An informative volume entitled "Social Legislation", which contains detailed information regarding the laws pertaining to women, children, handicapped groups and social defence was published in 1956 by the Planning Commission of the Government of India.

The Government of India have decided that programmes relating to child welfare will be the administrative responsibility of the Union Ministry of Education. The States of Assam, Andhra Pradesh, Bombay,* Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh and West Bengal have Departments of Social Welfare, whereas Madras possesses a Women's Welfare Department.

The expenditure allocated to Social Services in the 1st Five-Year Plan period was 532 crores of rupees out of a total outlay of 2,356 crores, which works out to 23 per cent, whereas in the Second Five-Year Plan, out of a total outlay of 4,800 crores of rupees 808 crores were earmarked for Social Services, including Housing, Rehabilitation, etc. in the revised allocations.

To the above amount we could also add the provision of 90 crores in the First Plan period, and 200 crores in the Second Plan period for community development, both of which work out to four per cent of the total provision respectively.

PLAN PROVISION BY MAJOR HEADS OF DEVELOPMENT

	Second Plan	Third Plan (as per draft outline)
	Total Provision (Rs. crores)	Total Provision (Rs. crores)
(a) Education ..	275	500
(b) Health (including water supply and sanitation programme)	245	300
(c) Labour & Labour Welfare, Welfare of Backward Classes, Scheduled Tribes, Social Welfare	114	125
(d) Housing	84	120
(e) Rehabilitation ..	90	—
Total	808	1,045

SOME ALL-INDIA ACTS

The Special Marriage Act, 1954; The Hindu Marriage Act, 1955; The Hindu Succession Act, 1956; The Hindu Adoption and Maintenance Act, 1956; The Hindu Minority and Guardianship Act, 1956; The Mines Maternity Benefit Act, 1941; The Apprentices Act, 1850; The Children Pledging of Labour Act, 1933; The Employment of Children Act, 1938; The Reformatory Schools Act, 1897; The Lepers Act, 1898; The Indian Lunacy Act, 1912; The Untouchability Offences Act, 1955; Suppression of Immoral Traffic in Women and Girls Act, 1956; The Women's and Children's Institutions Licensing Act, 1956; The Orphanages and Other Charitable Institutions Supervision and Control Act, 1960; The Probation of Offenders Act, 1958.

Traffic in Women

The Suppression of Immoral Traffic in Women and Girls Act 1956 was implemented in most States in May 1958. It applies to the whole of India, and from the date of the coming into force of this Act, all other State Acts relating to the suppression of immoral traffic in women and girls or to the prevention of prostitution stand repealed.

Some institutions concerned with this aspect of the problem are:

Andhra Pradesh: Association for Moral and Social Hygiene; Nari Sudhar Samiti (Hyderabad).

Maharashtra: Bombay State Women's Council Rescue Home; Bombay Vigilance Association Shelter, League of Mercy Shelter; Salvation Army Industrial Institute for Women; Shraddhanand Anath Mahilashram; and St. Catherine's Home (all in Bombay City), Association for Moral and Social Hygiene.

Other districts of Maharashtra: Wasudeo Babaji Nowrangay Orphanage (Pandharpur); Anath Mahilashram (Kolhapur); St. Crispin's Home; Mahila Sevagram; Hindu Anath Mahilashram; Ramabai Mukti Mission (Poona Dist.).

Madras: The Stree Sadan Rescue and Training Home; Government Vigilance Home; Good Shephard Home; Meenakshi Sadanam (Madurai); Association for Moral and Social Hygiene.

Bengal: The Fendal Home and All Bengal Women's Union Home.

Delhi: Nari Niketan; Association for Moral and Social Hygiene.

Bihar: Bharatiya Bidhwashram, Anathalaya; Association for Moral and Social Hygiene.

Mysore: Abhaya Ashram, Good Shephard Home; Association for Moral and Social Hygiene.

U.P.: Ashoka Ashram (Dehra Dun); Association for Moral and Social Hygiene.

Gujarat: Shri Seth Mansukhlal Chaganlal Hindu Widhwa Ashram; Vikas Griha (Ahmedabad); Vikas Griha (Junagadh); Association for Moral and Social Hygiene.

Kerala: One rescue home and four shelters; Association for Moral and Social Hygiene.

Madhya Pradesh: Association for Moral and Social Hygiene.

Orissa: Association for Moral and Social Hygiene (Cuttack).

Punjab: Two homes; Association for Moral and Social Hygiene (Chandigarh).

Rajasthan: Association for Moral and Social Hygiene (Jaipur).

A substantial sum has been allotted by Central and State Governments to root out traffic in women and girls.

State Homes for Women and Reception Centres for temporary stay have been organised in various parts of the country by the Central Social Welfare Board.

* Bilingual.

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From the time the Act was enforced on May 1, 1958 to Sept. 15, 1959 the Central Social Welfare Board set up 68 protective homes in the country to accommodate about 1,000 women and children rescued from brothels. The number of homes opened at the various places are: Andhra Pradesh 3; Bihar 1; Bombay† 17; Kerala 7; Madras 9; Mysore 6; Orissa 1; Rajasthan 5; Uttar Pradesh 13; West Bengal 2; Delhi 1; Himachal Pradesh 3.

State-wise, the accommodation available as on Sept. 1, 1958 was: 100 in Nari Sudhar Samiti, Hyderabad, Andhra Pradesh; 200 in a rescue home and four shelters in Kerala; 100 in Stri Sadana Rescue Home, Madras City and 50 in Meenakshi Sadnam, Madurai, Madras; 45 in two homes in West Bengal; 100 in Nari Niketan in Delhi; 100 women in two homes in Mysore, and 25 women in two homes in Punjab.

There were no brothels in Himachal Pradesh and Manipur. The Laccadive, Minicoy and Amindivi Islands were also free from traffic in women and children.

Most State Governments have already framed rules and appointed special police officers for enforcing the provisions of the Act.

The Central Social Welfare Board appointed an Advisory Committee under the chairmanship of Mrs. Dhanvanti Rama Rau to study the problem of social and moral hygiene in the country.

The Report observes that prostitution is mainly an urban problem and as many as 65·5% of women come from the rural areas in the age group 10 to 29. The causes that lead to prostitution:—55·4% economic stress, 27·7 disharmony or family mal-adjustment, and 6·9 social and religious practices. Figures for kidnapping and seducing were not available.

It is the view of the Committee that vigilance or preventive work is very scanty and the standard of rescue work by voluntary institutions needs to be improved.

As a result of the recommendation of the Advisory Committees, appointed by the Board, a programme of social and moral hygiene and after-care services has been drawn up for the Second Plan.*

A total provision of Rs. 9·5 crores has been made in the plans of the appropriate Ministries in the Government of India and also in the State plans.

The Association for Moral & Social Hygiene in India which was founded in 1865 by Keshab Chandra Sen has its headquarters in New Delhi and several State branches which in turn have District Branches. It works through various committees, the most important of which are Legal, Rescue and Rehabilitation, Preventive, Research and Education. It also holds conferences on all India and State basis. Its strength consists in the fact that most of the voluntary agencies doing similar work are affiliated to it and it also receives the active co-operation of the police and other Governmental bodies.

Since 1959, the Association has been getting financial aid from the Public Co-operation Division of the Planning Committee for the training of social workers etc. It also gets financial assistance from the Ministry of Health and the Association undertakes the opening of venerial diseases clinics in various States.

The National Council for Women in India has its standing Committee on Moral and Social Hygiene, in Poona.

Children

Children's Acts in relation to delinquency are in force in the States of Andhra Pradesh, Bombay,† Madhya Pradesh, Madras, Mysore, Punjab, Kerala, U.P., West Bengal and the Union Territory of Delhi.

The Borstal Schools Acts, which are slightly different in scope, are in operation in the States of Andhra, Bombay,† Madras, Mysore, Punjab, U.P., West Bengal and Kerala.

The Reformatory Schools Act of 1897 has also been enforced in all the major States and some Union Territories. But where Children's Acts are in force, the Reformatory Schools Acts are not enforced. In States where Children's Acts exist but are not enforced, the Reformatory Schools Act applies.

The Central Government have sponsored a Care Programme under which the States are given assistance. Under this programme 7 remand homes, one borstal school and 2 probation hostels in Bihar, 5 remand homes and 5 certified schools in Maharashtra and Gujarat, 9 remand homes and one borstal school in Kerala, 2 certified schools, 2 remand homes and 3 probation hostels in Madhya Pradesh, one certified school, one remand home and 3 boys' clubs in Madras, 6 certified schools, 10 remand homes and one probation hostel in Mysore, one certified school and 4 boys' clubs in Rajasthan, one remand home, one certified school, one probation hostel and one juvenile guidance bureau in Delhi, one certified school in Himachal Pradesh, and one certified school in Tripura have been approved.

Besides formal education, vocational trading in a number of trades is imparted to the inmates of the three types of institutions referred to above. Others provide follow-up services.

A new experiment in preventive correction was started in Bombay City by the Children's Aid Society under its Juvenile Service Bureau.

Beggars

The Criminal Procedure Code treats vagrants and vagabonds alike and provides penalties under Sections 55 (*i*) (*b*) and 109 (*b*).

Beggars may be proceeded against under Section 133 as those committing public nuisance.

Beggary within railway premises was prohibited by law as from February 15, 1941.

Special Acts have been passed by most of the States to prohibit begging in public places. In others, the municipal and police Acts provide measures against begging.

There are institutions in the States for the custody, care and assistance of beggars in their rehabilitation.

There are 18 certified institutions with a total capacity for 2,000 beggars in Bombay.† West Bengal has 8 Beggar Homes with an accommodation for 2,050. There are 7 similar institutions in Madras, 8 including 3 relief settlements in Kerala and two in Delhi. There is a Beggar Home each in the States of U.P., Madhya Pradesh and Mysore. The inmates of these Homes are provided with food, clothing, education facilities for physical culture and vocational training. The Indian Penal Code (Amendment) Act which provides for punishment for kidnapping or maiming of children for begging was enacted.

SOCIAL SERVICE AGENCIES

The groups of voluntary social work in India largely fall under the following heads: Administrators; Professional social workers; Missionaries; The Gandhian social workers; and Voluntary social workers belonging to the various private agencies.

Of these the religious believe in the traditional form of charity, the Missionaries in institutionalised social work, the Gandhian in the 14-point constructive programme.

The group of professionally trained social workers is small though most compact. This group consists of alumni and teachers of the following post-graduate schools of social work in India:

The Tata Institute of Social Sciences, Devnar, Chembur, Bombay 71; Delhi School of Social Work, 3, University Road, Delhi 8; the Faculty of Social Work of the M. S. University of Baroda, Camp Road, Baroda; Shri Kashi Vidyapeeth, Banaras, Chavni, Banaras 2; Madras School of Social Work, 1, Jarretts Gardens (upper flat), 23-24, Casa Major Road, Egmore, Madras 8; The All India Institute of Social Welfare and Business Management, College Square West, Calcutta 7. The J. K. Institute of Sociology and Human Relations, Lucknow University, Lucknow also imparts training in social work, while the Patna University has a department to train social workers for industrial welfare work. The other institutions are: Institute of Social Service, Nirmala Niketan, New Marine Lines, Bombay 1; P. S. G. School of Social Work, Peelamedu, Coimbatore; Labour Welfare Institute, Govt. of Bombay, Govindji Keni Road, Naigaum, Dadar, Bombay 14; National Institute of Social Sciences, Bangalore; Udaipur School of Social Work, Udaipur; Xavier Labour Relations Institute, Jamshedpur; Department of Economics and Sociology, Andhra University, Waltair; Institute of Social Sciences, Agra University, Agra; University School of Social Sciences, Gujarat University, Ahmedabad; Department of Sociology, Labour and Social Welfare, Bihar University, Bhagalpur; Vikram University Dept. of Social Work, Indore, M.P.

Voluntary Social Service Agencies operating on an All-India basis are mentioned below:—

Child Welfare

Balkan-ji-Bari (6-A, Cooperage, Bombay 1); Society for the Protection of Children in India (2-B, Camac Street, Calcutta); Indian Council for Child Welfare, Room 14-15, Block 'A', 'B' Barracks, Queensway, New Delhi; Indian Council for Child Education (Sumanas, 39, Edward Elliots Road, Madras 4).

Youth Welfare

Y.M.C.A. (5, Russel Street, Calcutta 16); Y.W.C.A. (Parliament Road, New Delhi); Bharat Scouts and Guides Association (Regal Building, Parliament Street, New Delhi); Bharat Sevak Samaj (27-A, Theatre Communication Buildings, Connaught Place, New Delhi); Y.M.C.A., New Delhi; Youth Welfare Association (193-E, Devnagar, New Delhi); Poor Welfare Association (29/24, Shakti Nagar, Delhi 6); 'Gyan Prakash Yuvak Sangh' (653, Chuna Kankar, Mathura, U.P.); Youth Hostels Association (2, East Park Road, New Delhi 5); Social Service League (Indraprastha College, Alipur Road, Delhi).

Women's and Family Welfare

All India Women's Conference (6, Bhagwandas Road, New Delhi); Family Planning Association of India (Metropolitan House, Dadabhoy Naoroji Road, Bombay 1); National Council of Women in India (C Block, Western House, Curzon Road, New Delhi); Kasturba Gandhi National Memorial Trust (Kasturba Gram, P.O. Indore, Madhya Pradesh).

Health

Tuberculosis Association of India (20, Red Cross Road, New Delhi 2); Indian Red Cross Society (20, Red Cross Road, New Delhi 2); All India Cancer Prevention Society (Tata Memorial Hospital, Parel, Bombay 12); Hind Kusht Niwaran Sangh (Red Cross Road, New Delhi); Akhil Bharat Sharirik Sikshan Maha-Mandal (Tilak Road, Nagpur, Maharashtra).

Indian Medical Association, Hanging Bridge, Daryaganj, Delhi 7.

Rehabilitation of the Handicapped

Convention of the Teachers of the Deaf in India (50, Bondel Road, Ballygunj, Calcutta); All India Lighthouse for the Blind (89, Elliot Road, Calcutta); National Association for the Blind (Victoria Memorial Blind School, Tardeo, Bombay 7); All India Blind Relief Society (11-F, Lajpatnagar, New Delhi); The Fellowship of the Physically Handicapped, (No. 7, Queen's Barracks, Foreshore Road, Backbay Reclamation, Bombay 1); Society for the Education of the Crippled (Child and Adult) (20, Nepean Sea Road, Bombay 6).

† Bilingual.

* See also under Social Welfare Board p. 35.

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Rural Welfare

Sarva Sewa Sangh (K33-4 Golghar, Varanasi, U.P.); India Village Service (I.V.S. House, Marhera, Dist. Etah, U.P.).

General Social Welfare

Servants of India Society (Poona 4); Ramkrishna Mission (Belur, Dist. Howrah); Gandhi Memorial Fund (5, Mansingh Road, New Delhi); Salvation Army (Moreland Road, Bombay 8); Friends' Service Unit (1, Upperwood Street, Calcutta 16); All India Seva Samiti (Seva Samiti Building, Allahabad); Indian Co-operative Union Ltd. (American Barracks, Queensway, New Delhi).

Rural Women's Welfare

Kasturba Gandhi National Memorial Trust (Kasturbagram, Indore, Madhya Pradesh).

Relief and Rehabilitation

United Council of Relief and Welfare (Rashtrapati Bhavan, New Delhi).

Social Education

Indian Adult Education Association (17-B, Indraprastha Marg, New Delhi); Jamia Milia (Okhla, Delhi); Literacy House (Lucknow); All India Mass Education Society (Gonda).

Welfare of Under-Privileged Groups

Harijan Sewak Sangh (Kingsway, Delhi); Bhartiya Adimjati Sevak Sangh (Kingsway, Delhi 9).

Social Defence

All India Crime Prevention Society (Behari Niwas, Kanpur, U.P.): Association for Moral and Social Hygiene in India (Room No. 211, 'P' Block, Raisina Road, New Delhi).

All social welfare agencies will now work under the supervision of the Panchayat institutions in States where democratic decentralisation is in operation.

This principle has been accepted by Mrs. Durgabai Deshmukh, Chairman of the Central Social Welfare Board.

Co-ordination

The national organization for the co-ordination of all welfare services is the Indian Conference of Social Work located at 6/A, Cooperage, Bombay 1.

There is also a South-East Asia Regional Office of the International Conference of Social Work which has been established in conjunction with the Indian Conference of Social Work in Bombay.

International Welfare Agencies in India

The following are some of the International agencies and organisations working in the country: International Conference of Social Work (South-East Asia Regional Office (6/A, Cooperage, Bombay-1); Ford Foundation (32, Ferozshah Road, New Delhi); World Health Organisation (S.E.A. Office, Patiala House, Hardinge Avenue, New Delhi); Rockefeller Foundation (20/39, Diplomatic Enclave, Kautilya Marg, New Delhi); International Labour Organisation, Indian Branch (Mandi House, New Delhi); International Union for Child Welfare (Consultant for Far East Asia, Rooms Nos. 14 & 15, Block A, Barracks B, Queensway, New Delhi): United Nations International Children's Emergency Fund (UNICEF House, 11, Jor Bagh, Delhi); United Nations Educational, Scientific and Cultural Organisation (Old Mill Road, New Delhi); Food and Agricultural Organisation, UNO. (21, Curzon Road, New Delhi).

Bhoodan Movement

Special mention must be made of the Bhoodan Movement initiated by Acharya Vinoba Bhave, one of the ablest disciples of Gandhiji. He is effecting a silent but nevertheless remarkable social revolution within the country by the voluntary gift of land (Bhoodan), wealth (Sampattidan), labour (Shramdan) and life (Jeevandan).

Urban Welfare

Mention may also be made of schemes for Urban Community Development being recently initiated in the cities of Delhi, Bombay, Ahmedabad, Hyderabad and Madras generally in co-operation with voluntary agencies, municipalities and State Governments.

CENTRAL SOCIAL WELFARE BOARD

The Central Social Welfare Board was set up by a resolution of the Government of India in August 1953 under the general administrative charge of the Union Ministry of Education, to promote programmes of social welfare, especially for women, children and the handicapped sections. Its three main functions are: (1) to offer financial assistance to the existing welfare organizations, (2) to sponsor and aid new welfare services in uncovered areas where they are needed and (3) to co-ordinate the social welfare programmes of various Central Ministries, State Governments and voluntary agencies.

By the middle of 1954, social welfare advisory boards were set up in different States for assisting the Central Social Welfare Board to bring about a decentralisation of activities and to enable it to keep in touch with the aided institutions for the proper direction of their efforts. There are now 22 State Social Welfare Boards in the country.

Grants-in-Aid: Since its inception upto the end of October 1960, the Board had sanctioned 12,068 grants amounting to Rs. 332·48 lakhs to 5,912 voluntary welfare institutions. These figures include grants given for a year at a time (5,710 institutions, Rs. 204·19 lakhs) and those on a long-term basis (725 institutions, Rs. 128·29 lakhs).

Welfare extension projects: Among schemes directly sponsored by the Board are the rural Welfare Extension Projects launched in Aug. 1954 and the training programmes. Each of these projects covers an area of about 25 to 30 villages and a population of about 20,000. The programmes and activities of these projects comprise Balwadis (community creches and pre-basic schools), maternity and infant health services (including those for the handicapped and the delinquent), literacy and social education for women, arts and crafts centres and recreational activities.

A project Implementing Committee comprising mainly of women social workers of the area is responsible for the formulation and execution of programmes in each project area. In each project area there are five centres, one for about five villages, each centre being in the charge of a trained gramsevika who works with a dai and a craft instructor, who together constitute one team of workers. At the project level are a mukhya sevika and a midwife. Half of the expenditure on each project is contributed by the Central Board and the other half is met from other sources, such as the State Governments, local bodies and local contribution.

Upto the end of October, 1960, 418 such projects with 2,027 centres covering a population of 79·48 lakhs in 10,499 villages had been established. The number of projects had reached 440, but some of them have since been merged in projects in the Community Development Blocks.

From 1961-62 onwards, it has been decided that these activities should be conducted by local voluntary welfare organisations, each of which will be given a suitable grant under the Board's grants-in-aid programme.

From April, 1957, the Board has undertaken all work relating to the welfare of women and children in the Community Development Blocks. Each of these projects covers about 100 villages and a population of 60,000 to 70,000. There are by the end of October, 1960, 324 projects of this pattern, with 3,240 centres, covering 32,400 villages and a population of 213·84 lakhs.

Building grants for project centres of the Welfare Extension Projects are sanctioned by the Board under its grants-in-aid programme. Upto the end of October, 1960, 1,024 centres of 334 projects had been sanctioned an amount of Rs. 36·54 lakhs. The local community had donated 354·70 acres of land and Rs. 18·70 lakhs in money as local contribution.

Training Programmes: For the execution of the rural welfare programme, 317 mukhya sevikas, 3,767 gramsevikas, 221 midwives and 335 dais had been trained at various training centres run by Kasturba Gandhi National Memorial Trust and other voluntary agencies.

Condensed Courses of Training: There is now an increasing scope for a large number of women being trained and employed as gramsevikas, midwives, teachers etc. in rural areas under various plan schemes. The minimum educational qualifications for each of these is to pass in the vernacular final or 7th or 8th class. They should first be given a course of general education before they can be recruited for specialised training. The Board under its programme of grants-in-aid gives grants to the institutions giving condensed courses of training to adult women between the ages of 20 to 35 years. Upto the end of October, 1960, 222 voluntary institutions had been sanctioned grants amounting to Rs. 60 lakhs.

Welfare Extension Projects (Urban): These projects are meant to provide a Community Welfare centre for the residents of slum areas of large cities and towns, where such services are needed. The activities undertaken in these projects may include starting of creches, balwadis, ante-natal and post-natal advisory services, infant health centres, hobby clubs, vocational guidance, training in arts and crafts for women, referal and placement services for the handicapped and the like. These services are centred round the family as a unit. The Board gives grants to the institutions running these projects. Upto the end of October, 1960, 72 voluntary institutions had been sanctioned grants amounting to Rs. 18 lakhs, for running these projects in urban areas.

Holiday Homes for Children: Under this scheme the Central Social Welfare Board gives assistance for organising holiday camps for children between 12 and 16 years of age coming from the lower income groups to the hill stations and summer resorts. The scheme is being co-ordinated by the Indian Council for Child Welfare. Upto the end of October, 1960, 78 batches of 50 children each had been sanctioned grants of Rs. 2·10 lakhs for arranging Holiday Homes at various places.

Night Shelters: The Board has started a scheme of Night Shelters for the shelterless in the big cities. This scheme is being implemented, coordination being undertaken by Bharat Sevak Samaj; upto the end of October, 1960, schemes for the opening of 42 Night Shelters in different States had been approved.

Programmes for after-care and Social and Moral Hygiene: Apart from formulating new welfare schemes and assisting in the expansion of existing ones, the Board has achieved notable success in coordinating the welfare activities carried on in a number of central ministries. This is particularly in respect of programmes sponsored by it for the after-care and rehabilitation of women rescued from moral danger and others discharged from correctional and care institutions and in the economic welfare programmes. Upto the end of October, 1960, 47 After-care Homes which provide appropriate training and meet other needs of persons discharged from correctional institutions, 135 district shelters, which receive the discharged and rescued persons and send them to Homes had been sanctioned. The Ministry of Commerce and Industry had accorded technical approval for starting 21 production units in After-care Homes each of which will provide employment to 300 to 500 persons, some of whom would not be in need of After-care.

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Socio-Economic Programmes: With the co-operation and technical as well as financial assistance of the Ministry of Commerce and Industry and its industrial Boards and the Khadi Commission, a number of production units are being organised which would provide remunerative work to the needy women and the physically handicapped. Under this programme so far 102 Ambar Parishramalayas have been set up providing training to women in the rural areas, with the assistance of the All India Handloom Board, where, in all, about 500 women and handicapped persons such as the blind and the orthopaedically handicapped would be given training and subsequent employment; about 140 instructors have been trained in handicrafts at the Regional Handicrafts Training Institutes conducted with the assistance of All India Handicrafts Board and about 40 handicrafts training centres, production centres and procurement units are being set up; production units as ancillary to larger industries have already been set up at Poona and Bangalore and two more would be shortly organised at Calcutta and Coimbatore; three coir spinning and weaving units in the States of Kerala, Mysore and Maharashtra are being set up to provide employment to about 300 needy women; setting up silk reeling and spinning units in the States of Assam, Bihar, Maharashtra, Madhya Pradesh and Orissa. In addition to these, the Central Social Welfare Board also gives grants to voluntary institutions upto an extent of Rs. 15,000 for setting up small production units providing employment to about 30 to 35 needy women per unit. Under the Urban Family Welfare Scheme initiated earlier by the Central Social Welfare Board, Industrial Co-operative Societies set up at Vijayawada and Hyderabad provide work to 500 women workers in production of safety matches.

Publicity: Publicity of the activities of the Board and the propagation of welfare programmes is conducted through the media of films, publications and exhibitions. Six documentary films on various welfare subjects have so far been prepared by the Films Division, on behalf of the Central Social Welfare Board, in various regional languages and two are under preparation. "Social Welfare" (English) and "Samaj Kalyan" (Hindi) are the Board's monthly magazines which are widely read in India and abroad.

THE CO-OPERATIVE MOVEMENT

DURING 1958-9 the number of co-operative societies of all types rose from 2,57,822 to 2,83,971 the percentage increase being 10·1 compared to 5·3 in the previous year. Except for the three States *viz.*, Jammu and Kashmir, Madras and Himachal Pradesh all the States shared the general increase, the highest being in Uttar Pradesh where the number rose by 6,784 societies. The owned funds and working capital of these societies increased simultaneously from Rs. 187·03 crores in 1957-58 to Rs. 220·16 crores and from Rs. 696·17 crores to Rs. 879·59 crores respectively.

Agricultural credit societies numbering 1·83 lakhs formed about 65 per cent of the total number of societies and constituted numerically the most important single class of co-operative institutions in the country. Among non-credit societies, weavers' and other industrial societies constitute the most important groups numbering 10,472 and 14,806 respectively. Next in order are cane supply societies which are concentrated mostly in Bihar and Uttar Pradesh, consumers' stores, and housing societies and farming societies. The membership of all primary societies increased during the year under review by 15 per cent from 2,14 lakhs to 2,48 lakhs, agricultural credit societies alone accounting for a rise of 17 lakhs. Assuming that an average family comprises five members, it may be estimated that by the end of 1958-59 roughly 12,40 lakhs or a little more than 30 per cent of the population wasserved by co-operatives compared to 10,70 lakhs or 27 per cent of the population at the commencement of the year. Allowance will, however, have to be made for individuals being members of more than one society.

Loans advanced by primary societies rose by Rs. 58·94 crores to Rs. 260·19 crores. Bombay* accounted for Rs. 97·40 crores or 37·4 per cent of the aggregate advances.

STATE CO-OPERATIVE BANKS

With the organization of a State Co-operative Bank in Pondicherry the number of state co-operative banks stood at 22 as against 21 a year ago. Of these, three state co-operative banks were functioning in Bombay and two in Andhra Pradesh. The society membership of the state co-operative banks recorded an increase while the number of individual members continued to decline. The paid-up capital and statutory reserves of the banks rose from Rs. 9·97 crores at the beginning of the year to Rs. 12·21 crores at the close of 1958-59. During the year under review the working capital of the state co-operative banks rose by about 35 per cent to Rs. 147·77 crores compared to an increase of 37·2 per cent during the year 1957-58.

Position as on 30th June 1959:

Crores of rupees

Item	Amount
1. Working Capital	147·77
2. Owned funds..	14·93
3. Deposits	58·44
4. Borrowings from:	
(*i*) Government	6·02
(*ii*) Reserve Bank	63·96
(*iii*) Other sources	4·42

CENTRAL CO-OPERATIVE BANKS AND BANKING UNIONS

The declining trend in the number of central co-operative banks and banking unions, continued during the year under review and the number of banks fell from 418 to 402, the smaller banks merging with adjacent larger banks. It may be mentioned that although the total number of banks amalgamated during the year was 20 in various States, the organization of 4 more banks in Kerala resulted in a net decrease of 16 only. The membership of the banks stood at 3·41 lakhs at the close of the year comprising 1,441 central societies, 1,89,245 primary societies and 1,50,458 individuals and others. The working capital of the banks rose from Rs. 147·00 crores at the end of 1957-58 to Rs. 189·62 crores at the end of 1958-59. The central banks in Andhra Pradesh, Bombay* and Madras accounted for over 52 per cent of the total working capital. The following table gives details in regard to the composition of the working capital.

Position as on 30th June 1959:

Crores of rupees

Item	Amount
1. Working Capital	189·62
2. Owned funds	31·68
3. Deposits	77·97
4. Other borrowings	79·97

It may be seen that the owned funds of the central banks increased by 26·8 per cent during 1958-59. Of the total deposits of Rs. 77·97 lakhs 38 per cent was from co-operative societies and the rest from individuals and other sources. The increase in the deposits during the year was 16·5 per cent, compared to 14·4 per cent during the previous year. At the end of 1958-59 the deposits, however, constituted 41·1 per cent of the working capital as against 45·5 per cent at the commencement of the period under review. Loans advanced by the banks during 1958-59 amounted to Rs. 210·16 crores representing an increase of 31·5 per cent over the previous year. Of the total loans, those advanced by banks in Bombay State* amounted to over Rs. 67 crores. As on 30 June 1959 outstandings on account of loans issued by the banks stood at Rs. 130·83 crores as against Rs. 101·00 crores at the end of 1957-58. The outstandings on account of loans advanced to individuals at the end of 1958-59 stood, however, at Rs. 3·37 crores compared to Rs. 3·60 crores at the end of 1957-58. At the end of 1958-59 the overdues amounted to Rs. 14·93 crores compared to Rs. 12·08 crores at the beginning of the year and constituted a little more than 11 per cent of the outstanding loans compared to 12 per cent in the previous year. The position of the overdues was not happy in the case of banks in Bihar where they Constituted about 50 per cent of the outstandings on 30 June 1959. The position did not also appear to be satisfactory in the case of banks in Assam and West Bengal where they constituted over 40 per cent of the outstandings. Of the total loans advanced by the banks during 1958-59, short-term loans amounted to Rs. 194·63 crores. The investments of the banks aggregated Rs. 35·95 crores of which Rs. 17·83 crores were in government and other trustee securities.

AGRICULTURAL CREDIT SOCIETIES

Agricultural credit societies being at the base of the co-operative credit structure constitute the most important sector of the co-operative movement in the country.

At the end of 1958-59 there were 1,82,905 such societies with a membership of 119·01 lakhs compared to 1,66,544 societies with a membership of 102·21 lakhs at the beginning of the year. About 53 per cent of these societies were based on unlimited liability.

During the year the working capital of agricultural credit societies rose by Rs. 37·19 crores to Rs. 170·94 crores, borrowings from state or central banks accounting for Rs. 103·46 crores of the total. Deposits stood at Rs. 9·88 crores and of these Rs. 4·86 crores or a little less than half was accounted for by Punjab and Bombay.* Loans advanced by agricultural credit societies during 1958-59 were higher at Rs. 125·50 crores compared to Rs. 96·08 crores during 1957-58 while the outstandings of loans stood at Rs. 135·00 crores at the end of June

* Bilingual.

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1959 compared to Rs. 107·10 crores at the beginning of the year. Overdues constituted 20 per cent of the outstandings on 30 June 1959, against 21·3 per cent at the end of 1957-58. Of the total loans advanced by societies, short term loans amounted to Rs. 110·70 crores.

The All-India averages in respect of membership, share capital, deposit, working capital and loans of agricultural credit societies are given in the following table. The figures are for 1958-59 :

Amount in rupees

Item	1958-59
1. Membership per society ..	65
2. Working Capital per Society	9,346
3. Share capital:	
(*i*) per society	2,033
(*ii*) per member	31
4. Deposits:	
(*i*) per society	540
(*ii*) per member	8
5. Loans advanced per member	105

LARGE-SIZED SOCIETIES

There were 8,213 large-sized societies at the end of 1958-59 of which 5,011 had received state contribution towards their share capital. Their membership was 27·68 lakhs and their working capital amounted to Rs. 61·92 crores as on 30 June 1959.

The loans advanced by them during the year amounted to Rs. 49·88 crores and outstandings on this account at the end of the year stood at Rs. 48·19 crores. Overdues which amounted to Rs. 6·71 crores as on 30 June 1959 formed about 14 per cent compared to 23·3 per cent in small-sized societies. The societies had 1,362 owned godowns and 1,030 hired godowns.

Working of large-sized and small-sized societies during 1958-59 :

Amount in rupees

Item	Large-sized societies	Small-sized societies
1. Membership per society ..	337	52
2. Working Capital per Society ..	75,396	6,240
3. Share Capital: ..		
(*i*) per society ..	18,652	1,251
(*ii*) per member ..	55	24
4. Deposits:		
(*i*) per society ..	4,790	340
(*ii*) per member ..	14	7
5. Loans advanced per member ..	180	83

GRAIN BANKS

At the close of the year 1958-59 there were 9,740 grain banks with a membership of 11·51 lakhs and a working capital of Rs. 3·89 crores. compared to 9,549 grain banks with a membership of 10·86 lakhs and a working capital of Rs. 3·66 crores at the end of the previous year. Four States *viz.*, Andhra Pradesh, Bombay* Mysore and Orissa had 97·2 per cent of the banks. The grain-loans advanced by the banks during the year amounted to Rs. 1,03 lakhs compared to Rs. 97 lakhs during the previous year. Overdues constituted 57·7 per cent of the outstanding loans as on 30 June 1959.

NON-AGRICULTURAL CREDIT SOCIETIES

The non-agricultural credit societies comprise urban banks, employees' credit societies and other special types of credit societies which cater to the banking and credit requirements of artisans, traders, government servants, salaried employees and others living in urban and semi-urban areas. There were 11,084 such societies at the end of June 1959 compared to 10,430 at the commencement of the year. Nearly 40 per cent of the societies were functioning in Bombay* and Punjab.

Their membership rose by 3·48 lakhs to 40·22 lakhs during 1958-59. The paid-up capital and reserves of these societies amounted to Rs. 26·49 crores and Rs. 10·98 crores respectively on 30 June 1959 compared to Rs. 24·02 crores and Rs. 10·56 crores respectively as on 30 June 1958. Their working capital recorded a fairly large increase from Rs. 102·53 crores at the beginning of the year to Rs. 121·47 crores at the end of June 1959. Loans advanced by them during 1958-59 amounted to Rs. 110·18 crores compared to Rs. 86·77 crores during the preceding year. At the end of the year the loans outstanding amounted to Rs. 90·48 crores and overdues formed 7·2 per cent of this amount. The deposits held by these societies increased from Rs. 60·73 crores at the end of 1957-58 to Rs. 75·81 crores at the end of 1958-59, the societies in Bombay* and West Bengal accounting for about 64 per cent of the total deposits. The borrowings of the societies amounted to Rs. 8·18 crores at the end of June 1959 compared to Rs. 721 crores at the end of June 1958.

CENTRAL LAND MORTGAGE BANKS

The number of central land mortgage banks remained the same *i.e.* 15. Their membership comprised 1,84,772 individuals, 519 primary land mortgage banks and societies compared to 1,50,944 individuals and 539 primary banks and societies at the end of the previous year. The share capital and reserves of the banks amounted to Rs. 2,91 lakhs and Rs. 82 lakhs respectively at the end of June 1959 compared to Rs. 2,26 lakhs and Rs. 72 lakhs respectively at the end of the previous year. The working capital of the banks which amounted to Rs. 31·35 crores on 30 June 1959 composed mainly of debentures floated by them on the guarantee of the respective State governments. The debentures outstanding on that date stood at Rs. 24·46 crores as against Rs. 20·48 crores at the end of the previous year. The value of debentures sold during 1958-59 aggregated Rs. 3·78 crores compared to Rs. 3·71 crores during the previous year. The loans advanced by the banks during 1958-59 amounted to Rs. 6·01 crores while the outstandings on 30 June 1959 stood at Rs. 22·64 crores as against Rs. 4·68 crores advanced during 1957-58 and Rs. 18·92 crores outstanding at the end of the previous year. Investments on account of sinking funds amounted to Rs. 7·00 crores at the end of 1958-59.

PRIMARY LAND MORTGAGE BANKS

During the year under review the number of primary land mortgage banks rose by 16 to 363 and their membership by 64,237 to 4·40 lakhs. During the same period the paid-up capital and reserves rose from Rs. 1,07 lakhs and Rs. 38·60 lakhs to Rs. 1,25 lakhs and Rs. 42·83 lakhs. Their borrowings from central land mortgage banks rose from Rs. 12·42 crores to Rs. 14·58 crores and the loans due by members stood at Rs. 15·14 crores against Rs. 13·08 crores at the end of the previous year.

MARKETING SOCIETIES

At the end of 1958-59 there were 19 marketing societies at the State level with a membership of 3,665 societies and 289 individuals and their working capital amounted to Rs. 6·49 crores. The loans advanced by these societies amounted to Rs. 19·39 lakhs and the sales effected as owners and as agents aggregated Rs. 10·90 crores At the central level the number of marketing societies was 454 on 30 June 1959. The membership of central marketing societies comprised 17,664 societies and 1,45,400 individuals and their working capital amounted to Rs. 9·18 crores at the end of 1958-59. Their purchases during the year amounted to Rs. 17·69 crores and sales as owners and as agents aggregated Rs. 27·53 crores. The following table gives statistics for 1958-59 in regard to primary marketing societies.

Amount in crores of rupees

Item	1958-59
1. Number	2,380
2. Membership	9,68,239
3. Share capital..	3·69
4. Reserves	2·25
5. Borrowings	8·53
6. Working capital	14·47
7. Loans advanced	12·20
8. Purchases	15·60
9. Sales: as owners	9·83
as agents	16·88

Of the 2,380 primary marketing societies at the end of 1958-59, 766 had received share contribution from the state governments, the amount of Government capital being Rs. 1·44 crores. The average membership and the average owned funds of the primary marketing societies were 407 and Rs. 24,959 respectively as on 30 June, 1959 as compared to 285 and Rs. 20,145 respectively as at the end of the previous year. They sold produce valued at Rs. 9·83 crores and Rs. 16·88 crores as owners and as agents respectively during 1958-59 as against Rs. 4·76 crores and Rs. 11·33 crores respectively during 1957-58. These societies owned 938 godowns and used 1,457 hired godowns.

Besides, there were 8,382 sugarcane supply societies (at the central and primary level) and and 2,334 milk supply unions and societies as on 30 June 1959. The working capital of these societies amounted to Rs. 7·18 crores and Rs. 2·83 crores respectively at the end of 1958-59 compared to Rs. 7·12 crores and Rs. 2·39 crores respectively at the end of the previous year. Sugarcane supply societies are mostly concentrated in Bihar and Uttar Pradesh. They marketed cane of the value of Rs. 44·51 crores during 1958-59 as against Rs. 43·43 crores during the previous year. The business handled by milk unions and societies is steadily increasing. Their sales of milk and milk products during 1958-59 were valued at Rs. 8·30 crores compared to Rs.6·66 crores during 1957-58.

PROCESSING SOCIETIES

There were 88 cotton ginning and pressing societies (excluding marketing societies engaged in processing) and 50 sugar factories with a membership of 39,903 and 1,30,819 respectively at the end of 1958-59. Their working capital amounted to Rs. 3·03 crores and Rs. 35·08 crores respectively on 30 June 1959 compared to Rs. 1·86 crores and Rs. 26·77 crores respectively on 30 June 1958. The cotton ginning and pressing societies ginned cotton weighing 13·17 lakh cwts. and pressed 2·02 lakhs bales and the sales effected by them amounted to Rs. 6·21 crores during 1958-59. The sugar factories crushed cane weighing 17·02 lakh tons and produced 1·75 lakh tons of sugar and their sales of sugar were valued at Rs. 22·47 crores during 1958-59. There were 740 other societies engaged in processing activities such as groundnut decorticating, coffee curing, paddy-hulling, etc., and their membership stood at 35,806 at the end of 1958-59. Their working capital amounted to Rs. 94·36 lakhs as on 30 June 1959 as against Rs. 65·51 lakhs on 30 June 1958. The fixed assets in the form of land, building, plant and machinery owned by these societies were of the value of Rs. 26·42 lakhs. The sales effected by these societies during the year under review aggregated Rs. 1,16 lakhs compared to Rs. 88 lakhs during the previous year.

OTHER NON-CREDIT SOCIETIES

Table 9 below shows the working of other non-credit societies during 1958-59.

It may be seen that the weavers' societies stand out as the most important among non-credit societies. Their membership was 11·93 lakhs and their sales aggregated Rs. 47·52 crores. Though the consumers' societies had a

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larger membership at 13·99 lakhs, their sales were relatively less than weavers' societies and amounted to Rs. 34·08 crores during the year under review.

Other industrial societies had a membership of 8·03 lakhs and their sales amounted to Rs. 12·52 crores. The membership of housing societies was 2·81 lakhs and they constructed houses valued at Rs. 33·17 crores. There were 4,193 farming societies and they brought under cultivation 4·55 lakh acres of land.

A table below (Table 7) shows the assistance given by the state governments to different types of co-operative institutions in the form of contribution to their share capital.

It may be seen that at the end of June 1959 the total contribution of state governments towards the share capital of co-operative societies of all types aggregated Rs. 24·86 crores. Of this amount Rs. 10·46 crores or 42·1 per cent were for primary agricultural societies (credit and non-credit), Rs. 5·62 crores for central co-operative banks and Rs. 4·61 crores for state co-operative banks.

SUPERVISORY UNIONS

There were 8 state unions, 2 in Bombay,* one in Punjab and 5 in Delhi, and all of them were federations of special types of societies such as co-operative sugar factories, labour and construction societies etc. The number of primary supervising unions rose from 725 to 931 during the year under review and the number of societies affiliated to them stood at 37,612 compared to 31,278 at the beginning of the year. Of the States which reported primary supervising unions, Andhra Pradesh, Bombay,* Kerala Madras and Mysore had unions which arranged for supervision of credit societies while in other States they were organised for supervising special types of societies *viz.* housing societies, farming societies, purchase and sale unions, labour and construction societies etc. The number of supervising staff maintained by the central banks and primary supervising unions was 1,938 and 399 respectively at the end of 1958-59.

STATE UNIONS AND INSTITUTES

There were 29 State Unions and Institutes at the end of 1958-59. The number of societies affiliated to them was 43,971 at the end of 1958-59. During the year they imparted trainning to 1,00,130 members, 16,908 honorary office bearers and 11,171 paid staff of co-operative societies. Their total income during the year rose from Rs. 64·48 lakhs to Rs. 90·72 lakhs and included government grants amounting to Rs. 70·83 lakhs.

INSURANCE SOCIETIES

The six insurance societies which were working at the beginning of the year continued to work during the year. Their membership rose from 5,528 to 7,306. Premia less reinsurance received by them during the year ended 31 December 1958 amounted to Rs. 19·73 lakhs.

SOCIETIES UNDER LIQUIDATION

There were 14,493 societies under liquidation at the end of June 1958. During 1958-59, 2,607 societies were brought under liquidation and 1,672 societies were finally wound up. The value of assets realised and liabilities paid off during 1958-59 amounted to Rs. 64·61 lakhs and Rs. 46·48 lakhs respectively against Rs. 38·91 lakhs and Rs. 39·25 lakhs respectively during the preceding year. At the end of 1958-59, 15,028 societies were under liquidation. The liabilities and assets of the societies under liquidation amounted to Rs. 7·57 crores and Rs. 6·25 crores respectively against Rs. 7·21 crores and Rs. 5·86 crores respectively at the beginning of the year.

The net results of the operations of different types of societies during the year under review are given in Table 2.

While the position regarding the state and central co-operative banks and agricultural credit societies shows a distinct improvement, other societies do not appear to have fared well. The position regarding the working of large-sized and small-sized agricultual credit societies indicates that in the case of the former the percentage of societies which worked on profit during 1958-59 was 83 as compared with 64 in the case of the latter.

TABLE 1. FIGURES AT A GLANCE (1958-59)

Amount in lakhs of rupees

Type of society	Number	Membership (in thousands)	Working capital	Loans advanced	Value of goods	
					Received or produced	Sold
I. ALL SOCIETIES	2,83,971	2,74,34	879,59	509,44	145,08	258,60
II. Credit Societies						
(A) SHORT-TERM						
1. State Co-operative Banks	22	32	147,77	101,06	..	..
2. Central Co-operative Banks	402	3,41	189,62	130,76	..	..
3. Primary Credit Societies						
(a) Agricultural	1,82,905	1,19,01	170,94	125,50	18,28	18,39
(b) Grain Banks	9,740	11,51	3,89	1,03	..	..
(c) Non-agricultural	11,084	40,22	121,47	110,18	3,63	3,28
(B) LONG-TERM						
1. Central Land Mortgage Banks	15	1,85	31,35	6,01	..	..
2. Primary Land Mortgage Banks	363	4,40	16,50	3,27	..	..
III. Non-credit Societies	79,440	93,63	198,05	31,63	123,17	236,93

TABLE 2. NET RESULTS OF THE OPERATIONS OF CO-OPERATIVE SOCIETIES

Amount in lakhs of rupees

Type of Society	1957-58				1958-59			
	Profit		Loss		Profit		Loss	
	No. of societies	Amount	No. of societies	Amount	No. of societies	Amount	No. of societies	Amount
State Co-operative Banks	19	74	2	3	21	91	1	1
Central Co-operative Banks	356	210	62	12	367	193	35	3
Primary Agricultural Credit Societies—								
(i) Large sized	1,13,694	296	35,499	73	6,833	113	1,184	11
(ii) Small sized	6,539	22	1,929	9	1,11,033	226	33,765	63
(iii) Grain Banks					6,394	24	1,402	3
Central Land Mortgage Banks	15	13	1	—	14	25	2	—
Primary Land Mortgage Banks	257	20	75	2	265	9	82	3
Primary Non-agricultural Credit Societies	7,600	186	1,705	13	7,645	216	1,928	14
Non-credit Societies	30,870	696	19,181	323	31,315	671	22,339	484
TOTAL	1,59,350	1,516	58,454	435	1,63,887	1,567	60,738	582

* Bilingual.

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TABLE 3: NUMBER, MEMBERSHIP AND WORKING CAPITAL, END OF 1958-59—BY STATE

Amount in thousands of rupees

State	No. of societies	Membership of primary societies	WORKING CAPITAL[1]						
			Total	Share capital paid-up	Reserve and other funds	Loans from			
						Central financing agencies	Reserve Bank	Government	Other sources
	1	2	3	4	5	6	7	8	9
Andhra Pradesh	21,937	27,81,808	95,69,35	14,17,01	7,97,32	37,03,00	11,55,88	4,88,04	1,81,07
Assam	6,183	7,87,790	13,28,90	1,96,72	36,37	3,69,09	2,33,33	36,31	88,62
Bihar	26,114	8,97,580	20,07,77	3,75,89	1,40,80	2,92,79	4,35	3,30,06	1,65,21
Bombay*	35,943	43,83,513	279,79,50	49,63,66	21,81,83	59,22,99	15,88,45	9,33,26	32,80,76
Jammu and Kashmir	2,051	2,70,188	3,99,91	53,42	31,40	1,61,68	24,00	66,24	35,96
Kerala	5,587	12,02,522	18,03,44	3,61,49	2,29,70	3,93,34	1,21,93	1,61,80	81,89
Madhya Pradesh	23,001	9,71,477	45,58,83	6,56,16	2,96,26	17,89,47	5,29,69	1,63,20	76,43
Madras	15,263	31,75,895	116,59,64	13,54,29	10,11,17	37,54,10	8,79,13	7,29,17	8,38,21
Mysore	12,596	18,71,406	70,52,79	11,54,79	5,20,84	21,48,18	6,14,22	3,63,23	3,66,42
Orissa	10,365	9,96,445	16,26,32	2,92,57	90,78	4,54,69	57,17	1,18,03	1,40,19
Punjab	27,392	15,23,389	53,19,79	11,43,96	2,81,05	14,78,14	4,79,29	1,95,76	4,13,42
Rajasthan	11,353	5,60,233	15,63,84	3,10,40	69,82	5,11,66	2,42,75	1,05,92	58,01
Uttar Pradesh	62,935	33,82,267	76,34,26	17,20,58	9,13,41	17,97,98	3,14,01	6,71,85	7,27,06
West Bengal	19,764	16,78,016	45,59,40	7,06,94	4,77,76	4,04,54	1,47,50	1,44,78	2,42,27
Andaman & Nicobar Islands	72	5,390	1,75	1,32	27	..	..	10	2
Delhi	1,789	1,31,180	5,85,28	1,07,70	23,11	52,28	..	20,08	2,09,00
Himachal Pradesh	786	63,101	1,57,97	32,44	18,20	29,73	..	9,14	3,36
Manipur	291	18,355	25,39	11,08	52	16	..	7,22	1,78
Pondicherry	85	15,457	35,24	12,21	2,35	9,70	..	5,14	1,50
Tripura	464	45,120	89,22	19,11	1,61	8,24	4,00	30,23	3,99
Total 1958-59	2,83,971	2,47,61,132	879,58,59	148,91,74	71,24,57	232,81,76	63,95,70	45,79,56	69,15,17
Total 1957-58	2,57,822	2,14,35,150	696,17,10	121,69,50	65,32,57	168,33,55	44,07,67	40,67,06	53,00,96

State	WORKING CAPITAL—*Contd.*				Population in millions[2]	Number of societies per lakh of inhabitants	Number of members of primary societies per 1000 inhabitants	Average working capital (in rupees) per head of population
	Deposits from			Debentures of land mortgage banks				
	Central societies	Primary societies	Individuals and other sources					
	10	11	12	13	14	15	16	17
Andhra Pradesh	1,20,82	2,89,82	8,25,71	5,90,68	34·88	62·89	79·75	27·43
Assam	10,20	39,93	3,18,31	..	10·46	59·11	75·31	12·70
Bihar	1,33,71	1,43,97	4,21,29	..	42·08	62·05	21·33	6·26
Bombay*	8,52,93	17,89,31	55,97,27	8,69,05	55·81	64·40	78·54	50·13
Jammu and Kashmir	51	12,38	14,32	..	4·75	43·17	56·88	8·42
Kerala	24,29	1,32,24	2,65,17	31,60	16·07	34·76	74·83	11·22
Madhya Pradesh	86,74	1,82,24	7,37,58	41,06	27·94	82·32	34·77	16·32
Madras	1,09,28	7,61,37	15,98,68	6,22,27	33·60	45·42	94·52	21·75
Mysore	2,96,57	3,34,00	10,10,57	2,44,14	22·48	56·03	83·24	31·37
Orissa	46,45	1,37,95	2,41,01	47,50	15·41	67·26	64·66	10·55
Punjab	2,25,54	1,64,28	9,38,35	..	17·39	157·50	87·60	30·59
Rajasthan	31,79	84,12	1,49,37	..	17·97	63·12	31·18	8·70
Uttar Pradesh	3,84,03	1,74,39	9,38,00	..	69·36	90·73	48·76	11·01
West Bengal	52,03	1,30,81	22,45,70	..	29·16	67·78	57·54	15·63
Andaman and Nicobar Islands	..	1	..	..	0·03	24·00	17·96	5·83
Delhi	1,76	27,68	1,43,68	..	2·25	79·51	58·30	26·01
Himachal Pradesh	2,35	6,54	56,21	..	1·15	44·91	54·87	13·73
Manipur	21	3,54	87	..	0·64	45·47	28·68	3·96
Pondicherry	..	92	4,41	..	0·38	48·68	40·67	9·27
Tripura	44	12,92	7,69	..	0·77	60·52	58·60	11·58
Total 1958-59	23,79,65	44,28,42	155,14,19	24,46,30	402·75	70·51	61·48	21·83
Total 1957-58	14,53,65	37,98,40	130,06,33	20,47,85	397·37	64·69	53·93	17·52

[1] Excludes figures relating to General Insurance Societies. [2] Statutory estimates furnished by the Registrar General, Ministry of Home Affairs, Government of India. * Bilingual.

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TABLE 4: NUMBER AND MEMBERSHIP, 1958-59—BY TYPE

State	CREDIT SOCIETIES						NON-CREDIT SOCIETIES					
	State and Central		Primary									
	State and central banks and banking unions	Central land mortgage banks	Agricultural	Non-agricultural	Grain banks	Land mortgage banks	Marketing societies	Sugar-cane supply societies	Milk supply societies	Farming societies	Irrigation societies	Other agricultural societies
	1	2	3	4	5	6	7	8	9	10	11	12
						Number						
Andhra Pradesh	28	2	11,302	834	3,559	86	188	7	327	1,101	29	290
Assam ..	10	1	3,070[1]	302	..	2	76	..	15[2]	216	..	3
Bihar	48	1	15,766	136	17	..	114	8,189	47	53	..	58
Bombay* ..	57	2	20,531	2,149	2,806	32	545	1	304	621	239	454
Jammu and Kashmir ..	5	..	1,247	87	..	..	36	..	2	5	..	555
Kerala ..	7	2	2,220	401	..	5	68	..	105	106	27	185
Madhya Pradesh ..	47	..	19,618	538	131	16[3]	128	..	21	302	24	298
Madras ..	16	1	8,443	831	3	81	130	5	761	79	18	107
Mysore ..	24	1	7,216	1,066	1,092	99	231	8	68	129	35	234
Orissa	18	1	6,351	227	2,007	..	56	20	1	28	3	101
Punjab ..	37	1	15,623	2,251	..	..	125	24	131	736	230	2,377
Rajasthan ..	28	2	7,244	279	7	24	88	..	46	191	7	349
Uttar Pradesh	58	..	50,133	963	..	6	699	123	271	332	502	3,060
West Bengal ..	36	1	12,868	584	118	12	261	5	195	239	483	1,760
Andaman and Nicobar Islands ..	..	..	1	..	..	..	30	..	1	5	..	..
Delhi	1	..	377	365	..	..	5	..	27	6	1	121
Himachal Pradesh ..	1	..	600	50	..	..	27	..	8	7	5	19
Manipur ..	1	..	31	7	..	..	2	..	..	16	..	4
Pondicherry ..	1	..	32	5	..	..	3	..	2	..	..	..
Tripura ..	1	..	232	9	..	..	41	..	2	21	..	..
Total 1958-59..	424	15	1,82,905	11,084	9,740	363	2,851	8,382	2,334	4,193	1,603	9,975
Total 1957-58..	439	17	1,66,543	10,430	9,549	347	4,600	7,655	1,987	3,637	1,557	11,944
						Membership						
Andhra Pradesh	17,627	86	11,15,000	2,32,000	3,29,875	1,45,371	1,60,526	9,004	23,596	1,20,309	4,608	84,406
Assam ..	5,618	1,559	1,59,000	26,000	..	946	8,957	..	493	8,745	..	76
Bihar	23,392	776	6,20,000	89,000	26,711	..	3,909	3,60,890	1,067	1,541	..	2,083
Bombay* ..	93,148	1,47,893	17,77,000	13,07,000	2,33,554	77,472	2,01,551	394	45,623	21,219	12,534	91,904
Jammu and Kashmir ..	2,224	..	2,22,000	3,000	..	..	8,053	..	206	582	..	22,189
Kerala ..	2,407	6,992	5,57,000	2,29,000	..	4,781	24,768	..	13,847	10,654	2,637	21,942
Madhya Pradesh ..	61,923	..	7,05,000	73,000	3,860	12,796	39,158	..	454	7,705	382	33,611
Madras ..	13,520	379	13,04,000	6,42,000	564	1,22,835	1,67,316	865	87,977	6,435	2,128	11,969
Mysore ..	31,015	99	9,37,000	3,05,000	78,748	68,801	1,02,446	3,133	7,477	8,340	1,772	31,093
Orissa	10,590	18,196	3,42,000	46,000	4,56,195	..	14,002	1,334	74	880	559	6,486
Punjab ..	29,487	8,764	9,27,000	1,22,000	..	..	20,451	55,229	2,426	13,110	6,406	1,01,628
Rajasthan ..	13,518	532	3,63,000	39,000	595	2,833	9,845	..	885	3,812	125	9,010
Uttar Pradesh	49,739	..	21,94,000	2,06,000	..	402	3,20,242	18,38,403	10,592	6,730	7,642	2,64,546
West Bengal ..	14,812	15	5,65,000	6,40,000	21,223	3,980	46,517	170	13,743	9,779	12,536	95,362
Andaman and Nicobar Islands ..	..	..	..	..	..	..	773	..	53	263	..	..
Delhi	1,057	..	22,000	52,000	..	..	457	..	784	68	11	2,754
Himachal Pradesh ..	967	..	55,000	3,000	..	..	1,062	..	269	219	327	377
Manipur ..	155	..	4,000	1,000	..	..	185	..	..	697	..	130
Pondicherry ..	96	..	3,000	6,000	..	..	349	..	1,540	..	..	..
Tripura ..	251	..	30,000	1,000	..	..	4,690	..	25	2,262	..	..
Total 1958-59..	3,71,548	1,85,291	1,19,01,000	40,22,000	11,51,325	4,40,217	11,35,257	22,69,422	2,11,131	2,23,350	51,667	7,79,566
Total 1957-58..	3,23,194	1,51,484	1,02,21,000	36,74,000	10,86,296	3,75,980	11,46,298	21,39,298	1,77,585	1,89,752	45,167	5,84,252

[1] Excluding 209 non-functioning societies. [2] Excluding 2 defunct societies. [3] Including 12 central banks also working as primary land mortgage banks. * Bilingual.

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TABLE 4: NUMBER AND MEMBERSHIP, 1958-59—BY TYPE—*Contd.*

State	NON-CREDIT SOCIETIES—*Contd.*								
	Sugar factories	Cotton ginning and pressing societies	Other processing societies	Weavers' societies	Spinning mills	Other Industrial societies	Consumers stores	Housing societies	Fisheries societies
	13	14	15	16	17	18	19	20	21
				Number					
Andhra Pradesh	9	..	70	926	3	1,784	469	275	342
Assam	1	2	119	1,208	..	172	816[4]	..	143
Bihar	1	..	206	724	1	307	218	22	117
Bombay*	18	65	15	898	2	1,992	1,422	2,304	137
Jammu and Kashmir	..	..	2	53	..	18	30	4	1
Kerala	..	..	3	385	1	921	193	24	215
Madhya Pradesh	..	2	5	371	..	826	340	161	33
Madras	3	..	..	1,012	3	1,903	852	423	222
Mysore	4	3	13	568	2	680	379	306	63
Orissa	2	..	..	498	..	453	290	114	83
Punjab	8	11	18	642	2	2,046	250	203	7
Rajasthan	1	5	..	810	..	1,507	436	92	2
Uttar Pradesh	3	..	12	1,084	..	1,211	425	441	39
West Bengal	..	..	208	1,093	..	509	599	150	494
Andaman and Nicobar Islands	..	..	..	..	..	..	14	..	..
Delhi	..	..	..	61	..	305	151	222	3
Himachal Pradesh	..	..	..	9	..	35	3	1	..
Manipur	..	..	61	61	..	62	14	..	20
Pondicherry	..	..	..	16	..	13	2	1	7
Tripura	..	..	8	53	..	62	16	1	6
Total 1958-59	50	88	740	10,472	14	14,806	6,919	4,744	1,934
Total 1957-58	51	76	554	9,608	10	10,117	6,510	4,177	1,599
				Membership					
Andhra Pradesh	16,006	..	2,506	2,54,376	843	1,22,597	84,003	25,048	39,902
Assam	6,221	123	3,643	28,319	..	4,086	1,80,142	..	6,782
Bihar	2,779	..	4,765	91,617	204	9,017	29,266	3,255	8,022
Bombay*	25,090	34,963	3,076	1,06,471	581	79,943	2,45,668	99,397	31,776
Jammu and Kashmir	..	..	59	1,333	..	2,542	9,504	230	217
Kerala	..	..	513	51,163	2,549	1,39,071	30,775	1,652	29,801
Madhya Pradesh	..	297	759	36,103	..	17,851	22,947	8,621	1,671
Madras	4,092	..	..	2,02,432	1,955	1,95,544	3,50,659	34,775	28,595
Mysore	7,776	1,502	1,437	90,906	829	70,699	92,194	29,344	9,841
Orissa	4,929	..	..	47,383	..	24,954	28,461	4,269	10,588
Punjab	55,948	2,465	4,601	11,833	64	36,386	26,299	8,012	110
Rajasthan	1,719	553	..	37,420	..	35,576	40,511	5,058	62
Uttar Pradesh	6,259	..	4,750	1,17,692	..	27,749	1,64,018	16,347	1,472
West Bengal	..	..	7,590	1,04,182	..	24,716	70,704	21,190	27,127
Andaman and Nicobar Islands	..	..	..	..	..	..	4,017	..	..
Delhi	..	..	..	1,078	..	6,684	17,593	24,138	100
Himachal Pradesh	..	..	..	373	..	1,278	469	19	..
Manipur	..	..	1,925	4,445	..	1,645	609	..	2,556
Pondicherry	..	..	..	2,056	..	562	325	231	1,047
Tripura	..	..	182	3,339	..	1,724	997	56	733
Total 1958-59	1,30,819	39,903	35,806	11,92,521	7,025	8,02,624	13,99,161	2,81,642	2,00,402
Total 1957-58	1,23,251	34,380	28,335	11,22,351	4,079	6,04,593	13,97,846	2,46,302	1,71,358

[4] Excluding 81 non-functioning societies. * Bilingual.

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TABLE 5 : CENTRAL CO-OPERATIVE BANKS AND AGRICULTURAL CREDIT SOCIETIES—1950-51 AND 1958-59

(Average per Bank or Society).

Amount in thousands of rupees.

Item	Central co-operative banks		Agricultural credit societies		Item	Central co-operative banks		Agricultural credit societies	
	1950-51	1958-59	1950-51	1958-59		1950-51	1958-59	1950-51	1958-59
1	2	3	4	5	1	2	3	4	5
1. Number	5,05	4,02	11,54,62	18,29,05	6. Borrowings	1,93	19,89	1	6
2. Membership					7. Working Capital	11,16	47,17	4	9
(*i*) Individuals	2,41	3,74	45	65	8. Advances	16,40	52,40	2	7
(*ii*) Banks and societies ..	2,13	4,74	—	—	9. Outstandings	6,76	32,54	3	7
3. Share capital paid-up ..	80	5,76	1	2	10. Overdues	59	3,71	1	1
4. Reserve and other funds ..	95	2,12	1	1	11. *Overdues as % to outstandings*	8·7	11·4	33·0	14·3
5. Deposits	7,48	19,39	2	1					

TABLE 6 : LOAN TRANSACTIONS DURING 1958-59

Amount in thousands of rupees.

State	No. of members (in thousands)	Loans Advanced	Loans Repaid	Loans outstanding	Of which overdue	Amount advanced per member (in rupees)
Andhra Pradesh	27,82	21,31,93	16,26,33	29,62,77	4,38,92	76
Assam	7,88	1,89,04	1,06,77	2,54,82	95,08	24
Bihar	8,98	4,57,71	4,12,06	5,63,34	1,32,63	51
Bombay*	43,84	97,39,53	81,60,27	81,89,61	10,03,28	222
Jammu & Kashmir	2,70	1,66,05	1,23,53	1,22,12	26,17	98
Kerala	12,03	4,89,95	4,09,20	5,21,34	1,09,74	49
Madhya Pradesh	9,71	12,41,84	9,50,57	14,76,59	2,04,57	128
Madras	31,76	30,93,75	25,49,26	34,27,88	2,85,94	97
Mysore	18,71	25,18,39	20,89,09	21,58,60	4,21,88	135
Orissa	9,96	3,01,39	2,61,71	4,75,48	1,32,15	30
Punjab	15,23	10,69,88	8,78,21	13,95,55	3,64,98	70
Rajasthan	5,60	3,74,42	3,25,54	3,83,95	78,53	67
Uttar Pradesh	33,82	18,56,07	14,72,79	17,77,25	1,95,52	55
West Bengal	16,78	21,78,60	18,58,90	26,47,47	1,78,44	130
Andaman & Nicobar Islands ..	5	16	4	19	7	..
Delhi	1,31	1,67,43	1,21,22	1,89,15	15,08	128
Himachal Pradesh	63	15,25	12,41	24,21	7,81	24
Manipur	18	59	43	64	10	3
Pondicherry	15	15,80	13,88	11,18	1,18	105
Tripura	45	11,70	5,64	11,42	50	26
Total 1958-59	2,47,61	260,19,48	213,77,85	265,93,56	36,92,57	..
Total 1957-58	2,14,35	202,24,84	154,05,50	217,57,47	32,03,19	..

TABLE 7 : GOVERNMENT CONTRIBUTION

GOVERNMENT CONTRIBUTION TOWARDS THE SHARE CAPITAL OF CO-OPERATIVE SOCIETIES

Amount in thousands of rupees

State	Grand Total	CREDIT SOCIETIES					NON-CREDIT SOCIETIES					
		Total	State Co-op. Banks	Central Co-op. Banks	Agrl. Credit Societies	Central Land Mortgage Banks	Total	Sugar Factories	Marketing Societies			Others[1]
									State	Central	Primary	
	1	2	3	4	5	6	7	8	9	10	11	12
Andhra Pradesh	2,47,27	1,44,39	34,00	60,00	34,39	16,00	1,02,88	48,00	2,50	3,10	11,43	37,85
Assam	96,97	58,37	22,00	12,37	15,00	9,00	38,60	27,00	4,00	..	6,77	83
Bihar	1,38,37	99,00	40,00	29,00	20,00	10,00	39,37	5,00	10,00	..	14,41	9,96
Bombay*	6,94,16	4,27,62	1,06,40	1,67,44	1,13,78	40,00	2,66,54	1,78,00	7,50	28,82	4,64	47,58
Jammu and Kashmir ..	17,70	12,90	12,90	..	..	..	4,80	..	..	2,00	2,80	..
Kerala	68,20	65,39	15,00	8,00	10,10	32,29	2,81	..	..	50	2,00	31
Madhya Pradesh	2,17,28	1,80,30	54,60	74,10	51,60	..	36,98	..	7,73	..	23,59	5,66
Madras	1,53,80	76,42	40,00	25,00	11,41	1	77,38	40,00	5,00	..	7,60	24,78
Mysore	2,07,96	1,22,43	40,00	26,20	36,23	20,00	85,53	40,00	1,43	..	17,08	27,02
Orissa	84,19	64,33	9,00	12,76	31,32	11,25	19,86	10,00	1,00	..	7,43	1,43
Punjab	2,26,25	1,24,57	34,00	43,14	32,43	15,00	1,01,68	82,10	..	..	13,98	5,60
Rajasthan	52,41	43,62	12,93	11,56	14,13	5,00	8,79	..	2,00	..	4,65	2,14
Uttar Pradesh	2,33,68	1,65,20	10,00	92,00	63,20	..	68,48	30,00	15,00	..	19,45	4,03
West Bengal	20,58	15,00	15,00	..	..	..	5,58	..	11	..	5,34	13
Andaman & Nicobar Islands	..	..	..	..	..	..	..	..	..	..	..	..
Delhi	4,12	3,80	1,50	..	2,30	..	32	..	..	..	30	2
Himachal Pradesh	10,06	9,55	8,00	..	1,55	..	51	..	1	..	50	..
Manipur	4,26	3,38	2,00	..	1,38	..	88	..	73	..	15	..
Pondicherry	3,70	3,50	3,00	..	50	..	20	..	..	..	20	..
Tripura	5,00	3,50	1,00	..	2,50	..	1,50	..	..	..	1,50	..
Total	24,85,96	16,23,27	4,61,33	5,61,57	4,41,82	1,58,55	8,62,69	4,60,10	57,01	34,42	1,43,82	1,67,34

[1] Including Non-Agricultural Credit Societies. * Bilingual.

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TABLE 8: FARMING SOCIETIES, END OF JUNE 1959

Amount in thousands of rupees

State	NO. OF SOCIETIES: Total	Better farming	Joint farming	Collective farming	Tenant farming	No. of members	COVERAGE IN ACRES: Commanded	Under cultivation	Total liabilities	Working capital (Total of cols. 11-13)	Paid-up capital[1]	Reserve and other funds	BORROWINGS: Total	Government
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Andhra Pradesh	1,101	..	9	12	1,080[2]	1,20,309	82,389	59,435	43,74	30,79	6,04 (4,03)	2,86	17,86	8,72
Assam ..	216	22	24	144	26	8,745	19,000	10,000	18,31	16,15	3,33 (1)	7	12,74	57
Bihar	53	5	40	6	2	1,541	4,323	2,575	4,20	2,86	1,39	46	1,01	28
Bombay* ..	621	91	82	220	228	21,219	1,33,375	76,309	1,11,71	92,87	16,93 (5,01)	12,92	58,01	27,73
Jammu and Kashmir ..	5	1	4	..	..	582	1,543	1,076	23	18	6	10	2	..
Kerala ..	106	19	74	10	3	10,654	16,260	10,756	10,50	7,41	2,89 (22)	90	3,40	1,11
Madhya Pradesh ..	302	143	39	114	6	7,705	65,122	51,962	33,65	30,11	4,99 (2,92)	1,08	21,12	10,14
Madras ..	79	..	10	13[3]	56	6,435	18,548	13,310	19,40	10,02	2,67	1,54	5,81	4,34
Mysore ..	129	44	16	20	49	8,340	27,652	15,815	16,77	12,28	1,93 (22)	1,23	8,90	4,58
Orissa	28	..	21	4	3	880	5,007	2,586	7,93	5,45	43	26	4,76	3,79
Punjab ..	736	148	558	1	29	13,110	1,37,211	1,17,857	1,14,66[4]	1,14,66	36,21	1,37	77,08	9,22
Rajasthan ..	191	22	26	74	69	3,812	42,211	22,727	19,47	8,78	3,82	20	4,76	2,31
Uttar Pradesh[5]	332	97	217	17	1	6,730	73,321	58,000	63,49	54,74	22,76	3,53	28,45	3,74
West Bengal ..	239	155	42	40	2	9,779	9,529	4,986	24,67	19,57	9,78	1,85	7,94	1,41
Andaman and Nicobar Islands ..	5	..	..	..	..	263	..	..	..	..	..	..	..	..
Delhi	6	..	6	..	..	68	2,775	2,775	1,03	96	17	..	79	20
Himachal Pradesh ..	7	7	..	..	..	219	678	570	3	2	2	..	..	..
Manipur ..	16	..	..	12	4	697	363	362	56	52	23	..	29	15
Tripura ..	21	17	..	2	2	2,262	7,767	3,887	4,71	4,64	2,63	6	1,95	53
Total 1958-59..	4,193	771	1,168	689	1,560	2,23,350	6,47,074	4,54,988	4,95,06	4,12,01	1,16,28 (12,41)	28,43	2,54,89	78,82
Total 1957-58..	3,645	618	1,215	429	1,383	1,89,896	5,78,886	4,30,617	4,71,43	3,87,30	1,04,31 (7,72)	26,16	2,49,11	1,15,55

State	BORROWINGS Contd.: Central financing agencies	Others	All other liabilities	Total assets	FIXED ASSETS: Total	Land and buildings	Land improvement or reclamation[6]	Machinery and implements	Others	LOANS: Outstanding	Of which overdue	Bad and doubtful debts	All other assets	Difference between assets and liabilities (+ or −)
	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Andhra Pradesh..	2,23	6,91	12,95	43,66	9,90	6,10	62	1,03	2,15	8,74	2,91	32	25,02	− 9
Assam	10,30	1,87	2,16	17,37	6,84	4,27	30	93	1,34	2,67	11	1	7,86	− 94
Bihar	49	24	1,35	4,32	1,10	37	18	32	23	27	2	..	2,95	+ 12
Bombay* ..	13,67	16,61	18,84	1,08,18	44,94	17,05	9,94	10,67	7,28	19,75	1,63	..	43,49	− 3,53
Jammu and Kashmir ..	1	1	5	24	2	..	..	..	2	9	2	..	13	+ 1
Kerala	1,84	45	3,08	10,27	2,41	69	17	1,08	47	1,73	48	..	6,13	− 23
Madhya Pradesh	8,60	2,37	3,54	31,12	10,01	2,61	..	6,28	1,12	8,06	89	3	13,05	− 2,53
Madras	92	55	9,38	18,63	4,96	1,60	1,77	26	1,33	3,38	46	3	10,29	− 77
Mysore	1,45	2,87	4,49	17,06	5,62	1,62	1,31	1,32	1,37	4,36	2,25	24	7,08	+ 29
Orissa	50	47	2,48	7,40	276	1,52	1,10	9	5	52	7	..	4,11	− 53
Punjab	28,78	39,08	..	..	52,73	8,96	..	43,04	73	4,08	1,84	..	..	..
Rajasthan ..	1,47	98	10,69	19,90	10,07	6,30	98	2,19	60	1,95	16	4	7,88	+ 43
Uttar Pradesh ..	3,40	21,31	8,75	63,31	5,24	1,39	..	3,85	..	3,33	1,61	..	54,74	− 18
West Bengal ..	2,70	3,84	5,09	21,65	1,312	10,81	10	1,99	23	1,01	47	..	7,52	− 3,02
Andaman and Nicobar Islands	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Delhi	24	35	7	89	75	1	..	68	6	..	..	..	14	− 13
Himachal Pradesh	..	..	..	2	..	..	..	..	..	1	1	..	1	..
Manipur	..	14	4	80	50	16	32	2	..	6	6	..	24	+ 24
Tripura	43	99	7	4,42	3,35	44	1,76	17	98	33	5	..	74	− 29
Total 1958-59 ..	77,03	99,04	83,03	3,69,24	1,74,32	63,90	18,55	73,92	17,96	60,34	13,04	67	1,91,38	− 11,15
Total 1957-58 ..	57,59	75,97	84,15	4,64,41	1,46,15	51,26	12,15	66,70	16,04	1,00,28	14,60	61	2,18,01	− 6,92

1. Figures in brackets indicate share capital contribution by Government and central financing agencies and figures given above represent paid-up capital by others. 2. Including 39 colonisation societies. 3. Including 11 Gramdan and Bhoodan societies. 4. Excludes all other liabilities the figure in respect of which is not available. 5. Excluding land colonisation societies. 6. Representing capital expenditure to be written off over a period of years. * Bilingual.

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TABLE 9 : OTHER NON-CREDIT SOCIETIES

Amount in lakhs of rupees

Type of societies	Number	Membership	Working capital	Production	Sale
1	2	3	4	5	6
1. Farming societies ..	4,193	2,23,350	412·01	137·56	94·87
2. Irrigation societies ..	1,603	51,667	194·18	1,75,812 (acres irrigated)	..
3. Fisheries societies ..	1,934	2,00,402	112·94	53·63 (catch)	69·81
4. Consumers' societies:					
Wholesale	62	23,128	490·23	944·80 (purchases)	699·54
im	6,857	13,76,033	826·90	2623·47 (purchases)	2708·65
5. Housing societies:					
State	5	1,717	400·53	44·84	..
Primary	4,739	2,79,925	4133·21	3271·98 (value of houses constructed)	..
6. Weavers' societies:					
State	21	7,592	643·28	609·34	773·78
Central	99	9,266	112·80	129·25	157·27
Primary	10,352	11,75,663	1636·33	3566·69	3,820·73
7. Other industrial societies	14,806	8,02,624	1036·34	1103·85	1251·56
8. Spinning mills	14	7,025	293·08	61·34	74·24

About 67,000 service cooperatives ware expected to function in the country by the end of the Second Plan. By the end of Nov. 1959 there were 15,000 service cooperatives.

The nearly 1·67 lakh village societies which existed in June 1958 mainly providing credit will be reorganised to enable them to take over all functions of service cooperatives. New societies are to be set up, where necessary, according to a phased programme. The plans for 1960-61 provide for the establishment of 9,545 new service cooperatives and the reorganisation of 19,065 existing societies. Of the Second Plan outlay of Rs. 52 crores for schemes of co-operative development, about Rs. 28 crores were to be spent by the end of 1959-60. The proposed outlay for 1960-61 was Rs. 14 crores, including direct Central expenditure.

The membership of village societies would have increased from 10·2 mln. in June 1958 to about 12 mln. in June 1959 and was expected to be about 18 mln. by June 1961—that is, the end of the Second Plan. About the credit supplied, the Second Plan target is Rs. 200 crores. The credit actually provided by then will be, it is estimated, Rs. 190 crores. Land Mortgage Banks advanced about Rs. 8 crores in 1959-60 (Rs. 6·35 crores in 1958-59).

About godowns the Plan target was 5,500. By 1958-59 there were 3,150 and by the end of the Plan it was expected to be 5,780. There were 98 processing societies by 1958-59. It was expected to be another 280 by the end of Plan.

PUBLIC HEALTH

MATTERS connected with health fall largely in the State field.

The Centre is, however, directly responsible even for State subjects in the Centrally administered areas of Manipur, Delhi, Tripura and Himachal Pradesh.

A Central Health Service has been constituted with effect from 1st June 1959. The strength of the Service at its initial constitution is 441 (240 class I and 201 class II) posts.

A 18-member Health Survey and Planning Committee was appointed in June 1959 to review developments in public health under the chairmanship of Dr. A. Lakshmanaswamy Mudaliar and to make recommendations for the Third and subsequent Five Year Plans. Information on different subjects has been gathered from several States. The report was expected to be submitted to the Govt. early in 1961.

CENSUS

Second Plan : Rs. 274 crores.

The statistical position about health personnel, Medical institutions, training institutions, etc. in 1960 was provisionally estimated at: registered medical Practitioners 100,598; (1959) vaids 150,000; compounders 20,801*; vaccinators 5,872*; nurses 30,400 (1959); midwives 35,798 (1959); dentists 3,681 (1958); trained visitors 1,979 (1958); trained dais 7,499 (1958).

Number of medical institutions (Hospitals and Dispensaries) 11,270 (1958); number of beds 1,66,759 (1958); number of maternity and child Welfare centres 4,500; number of primary health centres 2,000.

Number of medical colleges 59, number of medical schools 1, number of dental colleges 10, number of nursing colleges 2, number of medical post graduate institutions 42, number of medical research institutions 20, number of colleges for indigenous systems 94.

VITAL STATISTICS

The registered All-India birth rates, death rates and infant mortality rates are given below :

—	Birth rate.	Death rate.	Infant Mortality rate.
1940 ..	33·0	22·0	160
1947 ..	26·6	19·7	146
1948 ..	25·4	17·1	130
1949 ..	26·7	15·8	123
1950 ..	24·8	16·6	127
1951 ..	24·9	14·4	123
1952 ..	25·4	13·8	116
1953 ..	24·8	13·0	118
1954 ..	24·4	12·5	109
1955 ..	27·0	11·7	100
1956 ..	23·1	10·6	106
1957 ..	22·5	11·5	103
1958 ..	23·0	11·9	102

The infant and maternal rates in some of the Indian cities are given below.

Name of the City	Infant mortality rate per thousand live births.		Maternal mortality rate per 1,000 live and still births.	
	1958	1959	1958	1959
Ahmedabad ..	152	117	0·9	0·2
Bombay ..	110	92	1·3	1·2
Calcutta ..	129	130	1·4	N.A.
Delhi ..	92	73	1·7	1·8
Lucknow ..	141	N.A.	1·5	N.A.
Madras ..	145	129	2·0	1·9
Nagpur ..	212	201	11·0	10·3

N.A. = Not available.

TROPICAL DISEASES

The following table gives the number of deaths and rates (number of deaths for every 1,000 of the population) from different diseases recorded in the country for 1957 and 1958.

	1957*		1958**	
	Total	Rate	Total	Rate
Cholera	49,715	0·2	49,818	0·13
Dysentery & Diarrhoea ..	1,84,412	0·6	2,00,265	0·54
Fever	16,28,787	5·0	16,75,067	4·54
Malaria	†	†	2,19,970@	0·60
Plague	167	0·00	206	0·00
Respiratory disease ..	3,47,578	1·1	3,27,039	0·89
Small-pox	54,129	0·2	1,57,514	0·43
Tuberculosis	†	†	51,906‡	0·14
Other Causes	13,08,405	4·0	15,21,623	4·1
Total	35,73,193	11·0	42,03,408¶	11·4

* Excluding Delhi, Madhya Pradesh, Jammu & Kashmir and Tripura.

** Excluding Rajasthan, Jammu & Kashmir and Tripura. @ Excluding Orissa, Bihar, Himachal Pradesh, Rajasthan, Jammu & Kashmir and Tripura. ‡ Information is only for Pulmonary T.B. and excludes Andhra Pradesh, Madras, Orissa, Bihar, Himachal Pradesh, Jammu & Kashmir, Rajasthan and Tripura. ¶ Excluding Jammu & Kashmir and Tripura.

† Not available.

* These figures do not include figures from Assam, Bihar, Tripura, Andaman & Nicobar Islands, Public Health, Andhra and Public Health, Mysore.

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Death rates from certain causes recorded in the various States of India for 1958:

State	Cholera	Small-pox	Plague	Fevers	Dysentery & Diarrhoea	Respiratory diseases	All other causes	Total
Andhra Pradesh ..	0·25	0·49	0·00	3·92	0·53	0·61	4·59	10·4
Assam	0·01	0·006	0·00	2·03	0·33	0·24	1·23	3·8
Bihar	0·14	0·50	0·002	5·93	0·05	0·06	1·01	7·7
Bombay*	0·14	0·52	0·00	5·87	0·75	2·20	6·23	15·8
Delhi	0·01	0·06	0·00	1·73	0·65	2·25	4·18	8·9
Himachal Pradesh	0·00	0·01	0·00	5·24	0·87	0·52	1·66	8·3
Kerala	0·00	0·07	0·00	1·00	0·45	0·77	5·20	7·5
Madhya Pradesh ..	0·14	0·40	0·00	6·58	0·54	0·82	3·15	11·6
Madras	0·07	0·17	0·00	2·00	1·05	1·29	8·51	13·1
Mysore	0·13	0·28	0·008	3·39	0·71	1·25	4·71	10·5
Orissa	0·56	1·86	0·00	9·73	0·99	0·55	4·70	18·4
Punjab	0·00	0·02	0·00	9·39	0·42	2·03	2·33	14·2
Uttar Pradesh ..	0·1	0·42	0·00	6·24	0·44	0·85	1·65	9·7
West Bengal ..	0·2	0·53	0·00	3·60	0·53	1·01	3·60	9·5
Andaman and Nicobar Islands**	†	†	†	†	†	†	†	†
Jammu & Kashmir	†	†	†	†	†	†	†	†
Manipur	0·03	0·03	0·00	0·68	0·13	0·23	0·53	1·6
Rajasthan ..	†	†	†	†	†	†	†	†
Tripura	†	†	†	†	†	†	†	†

* Bilingual. † Information not available. ** The midyear estimated population for this territory is not available and hence the rates have not been shown.

Venereal Diseases: Syphilis occurs in sporadic venereal and endemic non-venereal forms. Gonorrhoea is widely prevalent. Other venereal diseases like Chancroid, Lymphogranuloma Venereum and Granuloma Inguinal are localised in their distribution.

In large cities and industrial areas, prevalence of venereal diseases is estimated to be 5 to 7 per cent of the population for syphilis alone.

The problem in rural areas is not defined. From limited surveys conducted in recent years it appears that sub-Himalayan tracts extending from Kashmir in the West to Assam in the East have a high incidence of syphilis.

A review of the annual clinic admissions in hospitals in Madras, Bombay and Calcutta reveals that of the total admissions for syphilis 66 to 75 per cent are for early infectious syphilis. The age-group at greatest risk is that between 15 and 35 and this group is responsible for 80 per cent of the reported total infectious load.

The sex ratio of early infectious syphilis has been found to be 6 males to one female from which it follows that there must be a considerable reservoir of infection among women which is undiscovered.

Studies among pregnant women in the communities of the larger cities show a seropositivity rate ranging from 5 to 12 per cent.

In a survey of 1,000 pregnancies sustained by 260 women with untreated syphilis, the end result of the pregnancy as related to the infant was as follows:—

Healthy non-syphilitic children	30 per cent
Syphilitic Babies	40 ,,
Still-births and neo-natal deaths	30 ,,

Andhra Pradesh, Himachal Pradesh, Jammu & Kashmir and West Bengal have full-time V.D. Control Officers.

In 1949, Government of India set up in collaboration with the World Health Organisation a Venereal Disease Demonstration Centre in Himachal Pradesh. Besides survey and mass treatment among the people, the Centre was engaged in the training of personnel. Seventeen teams from different States participated in the training programme at the end of which each team was supplied with laboratory equipment and penicillin by the UNICEF to establish control activities in the States.

Venereal disease control was included in the First Five Year Plan. Some States had already developed limited control facilities. The Himachal Pradesh administration established a full scale Venereal Disease organisation at Simla. A Venereal Disease Training and Demonstration Centre was established at Safdarjung Hospital in New Delhi in March 1954. The Venereal Disease Department of the Madras General Hospital was upgraded in 1952. These Training Centres provide improved training facilities and the latter caters for post-graduate training.

A Cardiolipin production unit and a Penicillin production unit were established in co-operation with WHO and UNICEF.

A central V. D. Organization with an adviser in venereal diseases was set up in the Directorate General of Health Services to co-ordinate the V. D. Control activities of the different States. A scheme was also included in the Second Five Year Plan at a cost of Rs. 58·67 lakhs to the Central Government and Rs. 84·28 lakhs to the State Governments for the establishment of 75 District V. D. Clinics and 8 Headquarter V. D. Clinics with laboratories on an approved pattern; free supply of penicillin (PAM) to these V. D. Clinics, and training of personnel.

The Government of India will meet 75 per cent of the non-recurring expenditure and 50 per cent of the recurring expenditure.

So far (upto Nov. 1959) a total of 3 headquarters clinics and 46 District clinics have been established in the different States.† Upto November 1960, 71 V.D. Clinics have been established in the different States. On an average 675 patients report in each of these clinics every month for treatment. Intensive control schemes which include field survey and mass treatment have been initiated in the Mahasu district of Himachal Pradesh and Ankola and Gulburga of Mysore.

A short term intensive anti-V. D. programme based on treatment of the total population in the Kulu sub-division of Punjab with a population of 130,000 in an area of 1,934 square miles was launched on 1st September 1959 and the work was expected to be completed by the end of 1959. This area is reported to have a seropositivity of 30 per cent. Penicillin (PAM) required for this project (approx. 78,600 vials of 10 cc each) is supplied by UNICEF.

Pilot survey work was to be undertaken in Jaunsar Bawar area of Uttar Pradesh in order to assess the extent of the problem in that area, attached to the Institute of Venereology, Madras.

A scheme to standardize procedures of serological tests for syphilis (STS) is under active consideration.

Yaws: Yaws is a treponemal disease. Compared to venereal diseases, yaws is a small problem in the country. It is prevalent in some of the districts of Andhra Pradesh, Bombay*, Madhya Pradesh and Orissa. Anti-Yaws Campaigns are in progress in the States of Andhra Pradesh, Madhya Pradesh and Orissa. The entire work is to be completed by 1962.

Cancer: The number of persons who die of cancer annually is believed to be in the neighbourhood of 2 lakhs.

Limited surveys conducted by the Indian Cancer Research Centre, Bombay, during the past few years showed that in India all types of cancer occurring in the different parts of the body were prevalent; that the total incidence of cancer was probably the same in India as in the other countries of the world; that there was a greater frequency of oral cancer in Western India than in Europe and North America; that smoking and chewing of tobacco had some causal relationship to the incidence of oral cancer; and that lung cancer was not prevalent in India on the same scale as in Western countries.

There are only two institutions exclusively for the treatment of cancer in India: Tata Memorial Hospital at Bombay and the Chittaranjan Hospital at Calcutta. Both are now under the Central Government.

There are 40 general hospitals in the country where facilities for cancer treatment are available.

There are three in the Punjab (Amritsar, Gurdaspur, Patiala), four in U.P. (Agra, Lucknow, Allahabad), four in Madras (Madras and Madurai), three in Maharashtra (Bombay, Nagpur), three in Gujarat (Ahmedabad, Bhavnagar, Jamnagar), four in Mysore (Bangalore, Mysore, Mangalore), three in Kerala (Trivandrum and Ernakulam), two in Assam (Dibrugarh and Shillong), four in Rajasthan (Jaipur, Bikaner, Jodhpur, Ajmer), one in Orissa (Cuttack), one in Bihar (Patna), four in West Bengal (all in Calcutta), two in Delhi and two in Andhra Pradesh (Visakhapatnam, Hyderabad).

The Government of India have arranged for three Cobalt Bomb Therapy Units under the Colombo Plan for supply to the Tata Memorial Hospital, Bombay, the Chittaranjan National Cancer Research Centre, Calcutta, and the Christian Medical College, Ludhiana. It is understood that three more units will be made available from Canada under the Colombo Plan.

Research is conducted at the Cancer Research Centre at the Tata Memorial Hospital in Bombay, the Chittaranjan National Cancer Research Centre, Calcutta; and the Cancer Institute, Madras. The Indian Cancer Society has its headquarters in Bombay and its divisional headquarters in Calcutta and Madras as shown above.

Under the Second Five-Year Plan Rs. 35 lakhs had been provided to establish cancer wards and units in certain hospitals.

PUBLIC HEALTH AGENCIES

A Central Council of Health exists with the Union Health Minister as chairman and State Health Ministers as members.

Dr. T. R. Tewari, Director, Contributory Health Service Scheme, is the Secretary of the Council. The Council is an advisory body and in that capacity performs the following duties:— (*a*) to consider and recommend broad lines of policy in regard to matters concerning health in all its aspects, (*b*) to make proposals for legislation; (*c*) to examine the whole field of possible co-operation on a wide basis in regard to inter-State quarantine during times of festivals, outbreaks of epidemic diseases and serious calamities such as earthquakes and famines and to draw up a common programme of action; (*d*) to make recommendation to the central Govt. regarding distribution of available grants-in-aid for health purposes to the States and to review periodically the work accomplished in different areas through the utilization of these

* Bilingual. † No. of cases treated upto Oct. 2,26,972.

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grants-in-aid and (*e*) to establish any organization or organizations invested with appropriate functions for promoting and maintaining cooperation between the Central and State Health administrations.

The body in charge of research is the Indian Council of Medical Research.

(For a list of research institutions see under "Research".)

A sum of Rs. 4 crores is provided for research programmes.

The annual grant to the Council amounts to about Rs. 50 lakhs.

The following medical bodies are in existence: The Indian Medical Council, the Indian Nursing Council, the Dental Council of India and the Pharmacy Council of India.

The object is to control and regulate the respective professions and standards of qualification.

There are State Pharmacy Councils in Punjab, W. Bengal, Maharashtra, Madras, Bihar, U.P. Delhi, M.P., Orissa, Assam and Andhra Pradesh.

Among important Acts in force are Vaccination Act, Drugs Act of 1940, Drugs Rules of 1945. Then there are the Indian Medical Council Act, the Nursing Act of 1947, the Dental Act, the Pharmacy Act.

There are four main medical depots—one each at Bombay, Calcutta, Karnal and Madras. The depots at Bombay and Madras have factories attached to them. It has been decided to open another medical depot in Hyderabad.

CONTROL OF DISEASES

Steps are being taken to control a number of diseases that are rampant.

Malaria

About 23 crores of people live in areas where malaria is endemic and another 16 crores where malaria though not endemic is still a problem.

The National Malaria Control Programme was launched from April, 1953.

From April 1, 1958 it was decided to convert this control programme to one of eradication of malaria.

According to the approved plan of operations the following is the schedule of targets during the Second Five Year Plan period :—

At the end of 1958-59, 230 eradication units, designed to afford protection to 230 million people, had been allotted out of which 225·5 were functioning. They afforded protection to about 214·15 million people. Against 390 units (230 endemic and 160 hypo-endemic) allotted during 1959-60, 386·25 units (230 endemic and 186·25 hypo-endemic) are functioning at present (Jan. 1960) covering the whole population exposed to malaria.

1960-61: Spraying of insecticides in 390 units areas as in 1959-60 and institution of surveillance procedures in 365 out of 390 units. No surveillance team would be set up in the 25 units out of which 20 are in areas bordering neighbouring countries and 5 in certain problem areas.

The total estimated cost of the eradication programme during the years 1958-59 to 1960-61 is Rs. 43·57 crores out of which the Government of India and the State Governments are expected to spend Rs. 10·09 crores and Rs. 15·19 crores respectively. The balance of Rs. 18·29 crores (equivalent to $ 38·4 million) in foreign exchange is expected to be made available by foreign agencies, *e.g.* U.S.T.C.M./W.H.O. The U.S.T.C.M. has made a further grant of $ 2·5 million to India's malaria eradication programme (Aug. 1960).

The two DDT factories at Delhi and Alwaye supplied 200 tons of DDT Technical, 14 tons of DDT 75 per cent and 2,630 tons of DDT 50 per cent during 1959-60 (upto October 1959). It was expected that these factories will be able to supply 1,550 tons more of DDT 50 per cent during 1959-60. (For more details about the D.D.T. factories see under "Govt. Industrial Undertakings".)

Six Regional Co-ordinating Organisations with headquarters at Hyderabad, Coonoor, Baroda, Cuttack, Shillong and Delhi are functioning for co-ordinating the activities of N.M.E.P. A high level administrative Committee constituted for guidance in administrative matters and a special working committee constituted for advice in technical matters have been established at the Centre. High level working committees have been formed in 17 States.

While the Medical Officers are to be trained at the Malaria Institute of India, Delhi the inspectors and technicians required are being trained in the States and at the Regional Co-ordinating Organisations. From Jan. 1958 to Nov. 1959, 262 officers, 1,296 malaria inspectors and 541 technicians were trained.

The plan of operations of the N.M.E.P. during the Third Five Year Plan period has been drawn up. The cost during the Third Five Year Plan period, it is estimated, would be Rs. 58·4 crores.

Filaria

Among mosquito-borne diseases filaria is second only to malaria. No satisfactory cure has been found for this disease. What is aimed at is the control of the carrier species combined with mass drug administration to control the reservoir of the infection. Anti-mosquito measures have to continue for five years before results become apparent.

It is estimated that over 64 million persons are in the filarious areas of the country exposed to the risk of the infection/disease.

The National Filaria Control programme had 13 control units and 22 survey units allotted during the first Plan. Thirty-four more were allotted, 13 during the year 1956-57, 20 during 1957-58 and one in 1959-60.

In view of the tight foreign exchange position in the country and the absence of aid from the USTCM, it was decided, on the advice of the Planning Commission, that the programme should be continued at the existing level and no new Filaria Control units should be allotted during the remaining period of Second Five Year Plan beginning from 1958-59. However as a special case one unit was allotted to Pondicherry Administration in 1959-60.

The National Filaria Control Programme cost 6·7 crores of rupees during the Second Five-Year Plan (Central Rs. 3·7 crores, States Rs. 3 crores).

Filaria survey units have been disbanded in all the participating States except Andhra, Kerala and M.P.

The number of control units have been cut down from the original 78 to 47.

Upto 31st Oct. 1960 sample surveys have been carried out covering a population of nearly 24·28 million persons residing in places known to be or suspected to be filarious.

Mass drug administration with Diethylcarbamazine (Hetrazan) is in progress as part of the control programme.

About 54·53 lakh persons have been treated till October 1960.

Anti-mosquito measures are in progress in all States except Assam and Pondicherry. About 1·84 lakh houses have been protected by residual spraying during 1960-61 (upto Oct. 1960).

A course of training in filariology is being arranged at the Ernakulam branch of the Malaria Institute of India in January 1961.

So far 77 medical officers, 7 entomologists and 195 filaria inspectors have been trained.

Leprosy

It is estimated that there are over two million leprosy patients in India (April 1961), the incidence in some places being as high as 40 per thousand. About half a million of these are of the infections type.

The areas of highest incidence are Andhra, Assam, Bihar, M.P., Madras, Kerala, some parts of U.P., Maharashtra and Gujarat.

The futility of attempting isolation of leprosy cases in special leprosy homes is now recognised. With the discovery of sulphone therapy in leprosy, a new approach has become available for the control of the disease. Treatment with sulphone is now regarded as the most potent and generally applicable weapon in the control of leprosy. Apart from clinical improvement, sulphone therapy brings about a gradual reduction in the number of leprosy bacilli in the skin, and, by promoting healing of ulcers in nose and elsewhere. It also reduces infective discharge from patients.

The question of legislation for control of leprosy was considered by the Central Council of Health at its 8th meeting held in October 1960 at Jaipur and the Council recommended the setting up of a Committee to examine the various aspects connected with the legislation for the control of leprosy. The Government of India have accepted the recommendation of the Central Council of Health and appointed a Committee for the purpose in November 1960.

The Directorate General of Health Services have published an All India Leprosy Directory giving first hand information of the activities of both the Government and the voluntary organizations working in the field of leprosy.

According to the Directory there are 146 in-patient institutions, 1,248 clinics and 66 leprosy control centres with 19,264 beds in the country.

Under the Leprosy Control Scheme of the Government of India a budget provision of Rs. 35 lakhs was made in the First Five Year Plan by the Central Government. Four Treatment and Study Centres and 29 Subsidiary Centres were established during the 1st Plan in various States. The object of this Scheme is to put into action the new approach to the problem, *i.e.*, to try to control the spread of leprosy in an area by extensive and intensive mass scale treatment with modern chemotherapeutic drugs, specially sulphone.

The Subsidiary Centres provide for a survey of the population (50,000 to 60,000 each centre) for detection of early cases and to carry out mass treatment with sulphone. The Treatment and Study Centres in addition to the above measures, carry out epidemiological surveys and scientific assessment of the results of sulphone therapy. The Scheme has been placed in the charge of the Director, Leprosy Control Work, who is responsible for the proper implementation of the Scheme.

An amount of Rs. 409·48 lakhs had been allocated in the States' Plans for leprosy control programmes during the 2nd Plan.

For the 3rd Plan period an allocation of Rs. 7 crores has been made for anti-leprosy work.

The Leprosy Control Scheme of the Government of India has been continued in a more expanded form in the Second Five Year Plan. The Central Assistance under the Scheme is given to the State Governments on the following terms :—Government of India to meet full non-recurring expenditure. Government of India to meet recurring expenditure to the extent of 80 per cent for the first year, 70 per cent for the second year, 50 per cent for the third year, 30 per cent for the fourth year and 20 per cent for the fifth year. The grant to be given when the State Governments submit their proposals. During 1954-58 the Govt. of India incurred an expenditure of Rs. 67 lakhs as their share of expenditure on the Leprosy Control Programme.

It was proposed to establish 100 additional Subsidiary Centres during the Second Five Year Plan.

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Upto the end of June 1960, 33 Leprosy Control Centres were established during First Plan period and eighty Leprosy Control Centres during the Second Plan period. Upto the end of June 1960, the population surveyed by the above centres in the project area was 82,28,665. During the same period the number of persons examined was 58,49,500, the number of cases detected was 81,365, cases registered for treatment 99,269 and persons attended for treatment were 59,390. During the same period the number of healthy contacts under observation was 2,60,888.

With the collaboration of the State Government of Maharashtra, a training centre at the Medical College and Hospital, Nagpur has been started for giving short-term re-orientation course for a period of six weeks to doctors who would be required to man leprosy control units. So far, 49 medical officers from the various State Governments have been trained as against a target of 60 medical officers. Besides this, this training centre provides for short-term refresher courses for medical officers in charge of health centres and other public health personnel. 197 para-medical personnel and 33 medical officers underwent refresher courses at this Centre.

In collaboration with the Gandhi Memorial Leprosy Foundation, Wardha, a training programme was to be started with effect from 15th December 1960, at Chilakalapalli in Andhra Pradesh for training one senior medical officer from the public health department of each State which has established leprosy control units.

A Central Leprosy Teaching and Research Institute has been established at Tirumani in Madras State in collaboration with the Madras Govt. by taking over the Lady Willingdon Leprosy Sanatorium, Tirumani and the Silver Jubilee Children Clinic for Child Leprosy at Saidapet.

A number of private bodies are also fighting to control leprosy. The important amongst them are Mission to Lepers, Hind Kusht Nivaran Sangh (formerly Indian Council of British Empire Leprosy Relief Association), Gandhi Memorial Leprosy Foundation, Kasturba Gandhi Trust, Maharogi Seva Mandal and the Ramakrishna Mission.

Under the Leprosy Control Scheme, up to the end of December 1958 the population surveyed in the project area was 53,00,470. During the same period the number of persons examined was 34,98,445 while the number of cases detected was 53,637. Cases registered for treatment were 64,586 and 45,935 persons were attended for treatment.

The Mission to Lepers runs 50 leper homes with about 10,000 inmates and gets grants from State Governments.

The Hind Kusht Nivaran Sangh has as its president the President of the Indian Republic.

The Sangh has its headquarters in New Delhi and branches in 11 States.

The Sangh's activities include financial assistance to leprosy homes and clinics, propaganda through publication of posters and other material, assistance in the training of medical workers and physiotherapists, and publication of the quarterly journal "Leprosy in India".

Tuberculosis

Mortality figures for cities show a tuberculosis death-rate ranging from 200 to 450 per 100,000 as far as can be ascertained. Little information is available from rural areas. The overall mortality rate from tuberculosis is high and can safely be estimated at 500,000 annual deaths. About 25 lakh people are estimated to be affected by the disease.

A national tuberculosis survey on a sample basis made by the Indian Council of Medical Research, completed in 1958, has shown that there are about 1·5 million infectious cases of pulmonary tuberculosis (T.B. of the lungs).

The findings of the survey in brief are : 1. The morbidity of T.B. varies from 7 to 30 per thousand persons in different areas ; 2. The prevalence of T.B. in villages, small towns and cities is not so markedly different as orginally expected ; 3. The morbidity rates are lower for females than for males ; 4. The prevalence of T.B. among the persons of the age group of 45 years and above was considerably higher than for the age group of 5 to 34 years ; and 5. Bacteriologically positive cases varied from 1 to 11 per thousand persons in different areas.

The Government of India has an Adviser on Tuberculosis, who advises the Central Government and the various State Governments on tuberculosis policy and helps in co-ordinating various tuberculosis control activities. He is also Technical Adviser to the Tuberculosis Association of India.

Prophylactic (BCG) Vaccination against tuberculosis was introduced in India on a restricted scale in August, 1948 with the assistance of WHO/UNICEF. The mass campaign was started in April, 1951 and is now (Dec. 1960) in progress in all the States. Upto the end of Oct. 1960, about 15·52 crore persons had been tuberculin tested of whom about 5·45 crores were vaccinated with BCG and thus given protection against tuberculosis. Another 100 million would be similarly afforded protection during the 3rd Plan.

Now (Dec. 1960) the number of BCG teams each containing one team leader and six BCG technicians has risen to 170.

The contribution of UNICEF and WHO in terms of services of international personnel, provision of equipment and supplies consisting of vaccination kits, vehicles, film projectors, public address equipment, etc. would amount to approximately 2·55 million dollars upto end of 1960.

In furtherance of the object of promoting B.C.G. Vaccination in India, a laboratory for the manufacture of this vaccine was established by the Government of India at the King Institute, Guindy, in 1949. It supplies vaccine not only to centres in India but also to centres in South-East Asia.

It is the largest laboratory of its kind in the world.

A freeze-dried vaccine plant for manufacturing dry BCG vaccine has been installed at the laboratory. The production of freeze dry vaccine has been started in 1961 on pilot basis. If results are good, liquid vaccine will replace dry vaccine.

There are at present six anti-tuberculosis demonstration and teaching centres, one each at New Delhi, Patna, Trivandrum, Madras, Hyderabad and Nagpur. The seventh centre is under establishment in Patiala. The Madras centre which was established in 1956 began its career with an important research project namely the study of the role of modern tubercular drugs in the prevention of the spread of tuberculosis by treatment of patients in their homes. The findings have shown that home treatment with antibiotics is not only feasible but that there is little difference between T. B. patients treated in homes and those treated in sanatoria. Centres are also being established at Bangalore, Agra and Calcutta.

A National Tuberculosis Institute has been started at Bangalore by the Government of India with the help of WHO and UNICEF, to train key tuberculosis workers in the community and public health approach to TB control. This Institute will train doctors, home visitors, laboratory technicians and X-ray technicians in batches of 60 each when fully developed. The special training, to be given at the Institute, will supplement university and institutional courses and provide intensive practical training in the field. The institute was inaugurated by the Prime Minister on Sept. 16, 1960. The training of the first batch of 80 doctors, technicians and public health nurses etc. was expected to start in March 1961.

It was proposed to establish or upgrade about 300 TB Clinics in the country during the Second Plan so as to have at least one TB Clinic in each District. Sixty TB clinics had been established or upgraded by Jan. 1960 and another 20 were expected to be established by 1960-61. 20 more clinics are expected to be established by 1961-62. There are about six University Training Centres in the country which train doctors for Diploma in Tuberculosis (T.D.D.).

Attached to the Delhi University is the 'Patel Chest Institute' for teaching and research in TB and other diseases of the chest.

Two hospitals for tubercular children have been established, one in Delhi and the other at Arogyavaram in Andhra State with 52 and 76 beds respectively.

According to the latest available figures there are for the treatment of TB patients, 71 sanatoria, 70 hospitals, 225 clinics, 151 wards with a strength of a little over 26,000 beds.

This includes beds established for isolating advanced cases of TB for which such treatment is not possible, and for which the Government of India is helping the State Governments with a subsidy.

There are about ten After Care and Rehabilitation Colonies in the country for giving vocational training to ex-tuberculosis patients. The Government of India has formulated a scheme of establishing work centres attached to TB clinics/hospitals where TB patients could be given vocational training while under home treatment.

One centre at Madras has started functioning. The building of a Rehabilitation Centre at Dhubulia (West Bengal) has been completed and equipment is being procured. The centres at Amargarh, Hyderabad and Delhi are under construction.

The Government of India have also approved a scheme for the establishment of open air centres for isolation and treatment of advance TB cases. Under the scheme, centres will be established by District TB Associations where patients will be treated in conjunction with the nearest TB clinics. The Government of India will give non-recurring grant to the Association for the purpose. The Government of India have also provided for research in various aspects of tuberculosis by providing funds to the Indian Council of Medical Research for the purpose.

The Union Ministry of Health proposes to establish 200 tuberculosis clinics, 5 T.B. Demonstration and Training Centres, 5,000 isolation beds, 7 Rehabilitation Work Centres and about 25 mobile T.B. clinics for rural areas during the Third Plan.

Goitre

The scheme for goitre control envisages estimation of the problem in areas where it is yet to be defined, the supply of iodised salts and the assessment of the results of iodine prophylaxis.

The estimated cost is about Rs. 18 lakhs.

Two survey teams are to undertake survey of the areas to delimit the areas of goitre endemicity and define areas of distribution of iodised salt. Only iodised salt will be made available in the selected areas for human consumption at the same price as ordinary salt. The cost of iodisation will be met by the Central Government.

One survey team had already completed survey in the Districts of Bilaspur, Mandi, Mahasu and Sirmur of Himachal Pradesh and is now undertaking survey in the District of Bijnor in Uttar Pradesh after completing survey in the Dehra Dun Tehsil of District Dehra Dun. The other team after completing survey in the Naga Hills is undertaking survey in the District of Champaran in Bihar.

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The average incidence of Goitre in the four Districts of Himachal Pradesh is 28·8 per cent, in Bijnor and Dehra Dun Tehsil of District Dehra Dun 29·2 per cent and 36·9 per cent respectively while in Naga Hills the average incidence is 32·7 per cent and in District Champaran in Bihar it is 41·3 per cent.

UNICEF Assistance : An iodisation plant that UNICEF Executive Board has agreed to supply, has arrived at Bombay and this plant will process 16,000 metric tons of salt per year and will meet the need of a population of 2·75 million. This plant will be shortly installed at Sambhar Lake. The Board has also supplied two vehicles on loan for the two survey teams.

WHO Assistance: WHO will make available such technical advice and guidance as may be useful to the Project.

Goitre Pilot Survey Project : The Government of India in collaboration with the Government of Punjab and the Indian Council of Medical Research, started the Goitre Pilot Survey Project in the Kangra District of Punjab in the First Five-Year Plan in October 1954, for the control of Goitre with iodised/iodated salt. The project has conducted survey in the Districts of Kangra, Hoshiarpur and Gurdaspur of Punjab to demarcate the areas of Goitre endemicity. Iodised salt is being supplied to 33 villages of Kangra Tehsil with a population of 29,539 and Iodated salt to 16 villages of Palampur Tehsil with a population of 30,728 since December 1956 and a control zone consisting of 30 villages in the Kangra and Palampur Tehsils with a population of 30,513 has been supplied with normal salt.

In May 1959 re-survey has been undertaken to evaluate the results of the consumption of iodised/iodated salt. In zone with iodised salt the incidence of Goitre has been reduced among adults from 43 per cent to 24 per cent, among boys from 34 per cent to 23 per cent and among girls from 30·9 per cent to 18 per cent. Similarly in the zone with iodated salt the incidence of disease which was 41 per cent among adults, 34 per cent among boys and 49·5 per cent among girls, has gone down to 24 per cent, 29 per cent and 37 per cent respectively. It was found that there has been no appreciable decrease in the incidence of the disease in the zone which has been supplied with common salt—48 per cent among adults, 33·7 per cent among boys and 49·1 per cent among girls during initial survey and in re-survey it has been found to be 41 per cent, 32 per cent and 41 per cent respectively.

Smallpox : The launching with the least possible delay of a national smallpox eradication programme has been recommended by the Central Expert Committee on Smallpox and Cholera appointed in 1958 by the Union Ministry of Health.*

Suggestions made by the Committee are mentioned in the 1960-61 Directory.

Studies carried out by the committee reveal that smallpox showed a definite seasonal prevalence and that the incidence reached epidemic proportions during the first six months of the year. Another interesting feature noticed by the committee was that smallpox generally showed periodicity, the incidence being significantly high every five or six years. This has been attributed by public health authorities to the accumulation of susceptibles as a result of faulty registration of births leading to non-vaccination of unregistered infants, indifferent techniques of vaccination, waning immunity after primary vaccination and absence of a definite programme of revaccination.

The Government of India has financed the execution of 16 smallpox pilot projects in the country one in each of the States and one in Delhi. These were to be completed by 1960-61 and the total expenditure on these projects estimated at Rs. 34 lakhs during 1960-61 was to be borne by the Union Government. Action has been initiated to step up the country's lymph production to meet the requirements of the eradication programme, likely to be launched from Sept. 1961.

Cholera : The incidence of cholera is of a considerable magnitude in the States of West Bengal, Bihar, Uttar Pradesh, Orissa, Andhra Pradesh, Madhya Pradesh, Bombay,† Madras and Mysore. At present the incidence is low in the Punjab, Assam and Kerala and is not a major public health problem in Rajasthan and Jammu and Kashmir. The incidence is more marked in most States in the second half of the year in contrast to smallpox which is prevalent in the first half of the year.

In accordance with the recommendations of the Central Expert Committee on Smallpox and Cholera, the Indian Council of Medical Research has decided to establish a Cholera Research Centre in Calcutta to carry out continuous research on various aspects of the problem of cholera with a view to developing ultimately practical measures for the control and prevention of the disease.

The Government of West Bengal who are collaborating in the project have agreed to place two wards of 40 beds each in the Infectious Diseases Hospital, Calcutta, at the disposal of the Indian Council of Medical Research for this purpose. The question of allotment of and for setting up a laboratory is being negotiated by the Indian Council of Medical Research with the Government of West Bengal.

Maternity

It is now recognised that Maternity and Child Welfare is an important service. Sixteen States have established posts of Assistant Directors of Health Services to direct Maternity & Child Welfare Services in the States of Orissa, Assam, Delhi, U.P., Punjab, Madhya Pradesh, Bihar, Andhra, Himachal Pradesh, Kerala, Bombay,† Rajasthan, Mysore, Madras, W. Bengal and Kashmir. The Union Govt. has an officer in the Directorate General of Health Services who assists States in Maternity & Child Welfare activities.

Non-official bodies engaged in welfare work are the Indian Council for Child Welfare, New Delhi; The Kasturba Gandhi Memorial Trust; and the Indian Red Cross.

The Central Social and Welfare Board assists the State Boards in promoting Maternity and Child Welfare services. As a result, a large number of agencies undertake services for mothers and children and training programmes for staffing the services with trained personnel.

The total number of maternity and child health centres is about 4,500. Besides, 2,000 primary health centres also provide these services. The medical institutions have 22,000 maternity beds and 4,000 beds for treatment of children.

A sum of Rs. 50 lakhs was earmarked by the Government of India in the First Five-Year Plan for establishing Maternal and Child Health Centres in rural areas of the States.

This sum was utilised by the States, and 201 Maternity and Child Welfare Units, each serving a population of 60,000 to 70,000, were established. These Units are now included in Primary Health Centres. Training schemes for training health workers have received considerable attention both during the 1st and the 2nd Plan.

The large bulk of midwifery services in the villages continue to be rendered by *dais* already practising in the villages. Under the Second Five-Year Plan a short six months course had been designed to orient them in modern techniques of asepsis, and make better and fuller use of their services. Provision had been made in the Plan for training 36,000 *dais*. A sum of Rs. 90 lakhs had been provided in the Plan for the purpose.

A sum of Rs. 45 lakhs had been provided in the Second Five-Year Plan to assist medical colleges to improve paediatric training so that medical personnel can, during the training receive adequate instruction in paediatrics and are better equipped to play their role in Child Health Services.

The centres which receive assistance are Hyderabad, Trivandrum, Bombay, Darbhanga and Agra.

The nine schools for training of health visitors have been expanded and new schools established to train 1,600 health visitors during the Second Plan. Nearly 1,300 have been trained at the 21 health schools and nearly 1,500 candidates are under training.

During the last 10 years there is a steady decline in infant and maternal mortality.

Defectives

The last census of handicapped persons (blind, deaf, crippled, mentally retarded, etc.), took place in 1931. These put the number of blind at about 600,000 and the number of deaf and hard-of-hearing at 230,000.

It is estimated that today the total number of blind is about 2,000,000 and the deaf about 700,000.

There is a Training Centre for the Adult Blind at Dehra Dun to impart vocational training. It imparts training in cottage-industry-type handicrafts to about 185 adult blind. There is also a common Braille code for Indian languages known as Bharati Braille. The Central Braille Printing Press at Dehra Dun has already published several Braille books in English, Hindi and other regional languages.

At Dehra Dun Government of India have also established a Model School for Blind Children. At present (Jan. 1960) only the primary, and kindergarten sections are open. Eventually this school will become a Secondary School for blind children.

There are in all 90 institutions for the blind and 50 for the deaf and 10 for the mentally handicapped. Ten institutions cater for the orthopaedically handicapped children. About 3,000 blind children and adults and about 2,000 deaf children and adults receive training at these institutions.

The Government of India give scholarships to blind and deaf persons over the age of 16 in order to help them to undertake higher academic education, or, professional, vocational or technical training in normal institutions of learning. Scholarships are also awarded to orthopaedically handicapped children and adults.

The number of scholarships awarded at present is 659.

In September, 1955 the Government of India appointed a National Advisory Council for the Education of the Handicapped to advise Government, to formulate new schemes, and to serve as liaison between Government and voluntary bodies.

One of the most difficult problems in the welfare of the handicapped is to secure employment for suitably trained handicapped persons. In order to deal with this problem the Government of India had a proposal to establish a special organisation during the Second Plan period to assist handicapped persons in finding employment in the public services, industry and commerce.

The first Pilot Employment office for the physically handicapped under this scheme was established at Bombay in March 1959. In 1960-61 two more were to be opened.

Mental Disease

The number of insane persons in India who need institutional treatment is estimated at 1·5 million, and of psycho-neurotics about 3 million. The number of hospital beds is a little less than 15,000. Qualified psychiatrists number about 100, and those practising but formally unqualified about 1,000.

* Chingleput in Madras, Bijapur in Mysore and Kozhikode in Kerala have been selected for the first experiments. † Bilingual.

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There are at present four institutions for mentally retarded children.

These are :

The Heaven School, Modi Minar, Char Bangla near Versova), Bombay.

Hermini Villa, St. Andrew's Road, Bandra, Bombay 50.

School for the Training and Care of Children in Need of Special Care, Sewree Hill, Sewree, Bombay.

B.M. School of Psychology and Child Development, Ahmedabad.

At present there are 32 mental hospitals with accommodation for about 20,000 patients.

The Mysore Government Mental Hospital at Bangalore and the Hospital for Mental Diseases at Ranchi* are the ones which are best equipped.

The following is a list of mental hospitals in India :

Mental Hospital, Tezpur ; Inter-Provincial Mental Hospital, Kanke, Ranchi ; Indian Mental Hospital, Kanke, Ranchi ; N. M. Mental Hospital, Thana (Bombay) ; Mental Hospital, Ratnagiri (Maharashtra); Central Mental Hospital, Yeravda; Mental Hospital, Ahmedabad ; Mental Hospital, Dharwar ; Mental Hospital, Baroda ; Mental Hospital, Nagpur ; Government Mental Hospital, Madras ; Government Mental Hospital, Waltair ; Government Mental Hospital, Kozhikode ; Punjab Mental Hospital, Amritsar ; Mental Hospital, Agra ; Mental Hospital, Bareilly ; Mental Hospital, Banaras ; Mental Hospital, Mankunda, Calcutta ; Lambini Park Mental Hospital, P.O. Tiljala, 24 Parganas ; Bangiyaunmad Ashram, 29-A, Vivekananda Road, Dum Dum ; Mental Observation Ward, Bhawanipur, Calcutta ; Mental Hospital, Jalna ; Mental Hospital, Srinagar ; Mental Hospital, Lashkar ; Mental Hospital, Bonganga, Indore ; Mental Hospital, Bangalore ; Mental Hospital, Jaipur ; Mental Hospital, Jodhpur ; Mental Hospital, Udaipur ; Mental Hospital, Bhavnagar ; Mental Hospital, Trivandrum ; Mental Hospital, Trichur.

In view of the Health Survey & Development Committee's findings that the provision for mental health facilities were wholly inadequate and based on the short term proposals made by Prof Mayer-Gross, W.H.O. Consultant in Psychiatry and Dr. M. V. Goindaswamy, the Government of India in collaboration with the Government of Mysore established the All-India Institute of Mental Health at Bangalore to work in close association with the Mental Hospital, Bangalore.

The Mental Hospital, Bangalore had built up certain traditions in the matter of undergraduate and post-graduate teaching and research and hence upgraded it for the purpose.

The Institute came into being on 15th September 1954.

The courses for the post-graduate Diploma in Psychological Medicine (D.P.M.) and Medical (Clinical) Psychology were started on 3rd January 1955. Diploma in Medical Psychology (D.M.P.) was redesignated as Diploma in Medical and Social Psychology (D.M.P. & S.P.). A post-certificate course in Psychiatric Nursing was also started in 1956 January.

The development of mental health services in India was envisaged at this Institute under the Second Five Year Plan, and a sum of Rs.26 lakhs had been made available for this purpose. The chief measures contemplated as part of the plan are : To start and render assistance in the starting of Guidance and Counselling centres in selected rural and urban areas; to open psychiatric wards in general hospitals and staff them adequately with properly trained personnel ; to establish Child Guidance Centres in different parts of the city ; to train teachers and educate the public in the principles and methods of mental hygiene, all of which are intended to bring the problem of mental ill-health in the country under control.

PUBLIC HEALTH MEASURES

About 2,000 primary health centres had been opened by the State Governments/Administration by the end of February 1960 and about 750 additional primary health centres proposed to be established before the end of the Second Five-Year Plan *i.e.*, before the end of March 1961.

State Governments also propose to convert some of the existing dispensaries into primary Health units and to set up a number of secondary health units.

The Second Plan provided about Rs. 19 crores for this programme and a provision of Rs. 20·00 crores has been made for this programme in the Third Five-Year Plan.

There is medical coverage for industrial labour through the Employees' State Insurance Scheme (See under 'Labour' for details).

149 dental clinics in various States had been sanctioned by the Government of India from 1956 to the end of November 1960, against the plan target of 350 clinics as per details below :— 1956-57 : 27 ; 1957-58 : 26 ; 1958-59 : 25 ; 1959-60 : 29 ; 1960 : 42.

Contributory Health Service Scheme

The Contributory Health Service Scheme which was introduced in 1954 to provide improved medical facilities to Central Government servants and members of their families in Delhi and New Delhi on a contributory basis; has been functioning satisfactorily and has gained much popularity. The scheme provides comprehensive medical coverage to about 4,56,000 beneficiaries through 38 dispensaries set up in various parts of the city.

In order to provide medical facilities to the Government servants living in far away localities, four mobile dispensaries are also functioning under the Scheme. Under a reorganization and expansion programme, it has been possible to bring down the work load per doctor per day from 143 cases in 1956 to 120 cases in 1959.

The C.H.S. Scheme has been extended to a number of semi-Govt. bodies and statutory organizations. The industrial and non-industrial civilian employees of the Defence Ministry living within the jurisdiction of the scheme have also been brought within the purview of the scheme.

The total attendance in the C.H.S. Dispensaries during 1959 was 40,75,479 as against 37,14,981 during the previous year. During the first ten months of 1960, a total no. of 39,32,921 patients attended the dispensaries. The expenditure incurred on the Scheme during 1959-60 amounted to Rs. 63,04,391 against which an amount of Rs. 29,36,438 was realized as contribution. The Budget Estimates of the Scheme for 1960-61 amount to Rs. 69,81,000. The cost per family and per beneficiary under the Scheme works out at Rs. 54·37 and Rs. 12·08 for the year 1959 as against Rs. 50·16 and Rs. 11·15 for the preceding year respectively.

A Health Clinic has been set up under the Scheme to provide facilities to the Government servants for their periodical physical check-up. During the period from 1st September 1959 to 31st October 1960, 4,111 Government servants registered themselves for the medical check up, out of which 3,040 cases were examined during the period.

To detect any early cases of tuberculosis amongst the Government servants, a mass X-ray campaign has been initiated. A morbidity survey among all grades of Government employees and their family members covered under the C.H.S. Scheme is also being carried out to determine the nature, extent and the effects of various types of diseases prevailing among them.

It has also been decided to extend the C.H.S. Scheme to the Central Government servants in Bombay, Calcutta and Madras during the Third Five-Year Plan.

In addition to the medical aid facilities, arrangements have also been made for giving advice in Family Planning to the beneficiaries covered under the Scheme. Ten Family Planning Centres in different localities now function under the Scheme and it is proposed to open four more centres shortly. Arrangements have also been made at these centres to sell contraceptives at cheap rates. Some of the contraceptives are supplied free of cost to those with an income below Rs. 100/- p.m. Members of the general public are also allowed to seek advice at these centres.

The CHS Scheme has also been extended to Members of Parliament.

The States have provided Rs.237·24 lakhs in the Revised Plan for the development of the Public Health Laboratory Services. Out of this amount Rs.180·54 lakhs are provided for opening new laboratories and Rs.56·40 lakhs for expanding the existing laboratories.

The Government of India contributes 75 per cent of the non-recurring expenditure (including building expenditure) and 50 per cent of recurring expenditure. During the year 1959-60 a provision of Rs. 6·95 lakhs was made in the budget as the Central Government's share of the expenditure.

The number of laboratories established is as follows. The first number refers to Principal Laboratories and the second to Regional: Orissa (1, —), Andhra (3, 4), Rajasthan (—, 10), U.P. (—, 7), Bihar (1, 15), Madras (—, 7), M.P. (—, 5), Kashmir (—, 7), Mysore (1, 7), H.P. (1,12), Gujarat (—, 1), Kerala (—, 1), West Bengal (—, 7), Tripura (1, —), Assam (1, —).

The Second Plan target was 15 principal and 122 regional laboratories.

Water Supply and Sanitation

Protected water supply is one of the most important factors in sanitation.

Prior to the First Five-Year Plan, according to the report of the Environmental Hygiene Committee (1949), only 6·15 per cent of the total population had protected water supply while three per cent enjoyed the amenity of a sewerage system. During the First Five-Year Plan, all the States included provisions for water supply and sanitation schemes under their Development works. But a fillip to the programme was given when in August 1954, the National Water Supply and Sanitation Programme was inaugurated by the Union Ministry of Health. Urban water supply and sanitation projects approved under this programme are eligible for a hundred per cent loan on their estimated cost whereas the rural water supply and sanitation schemes are eligible for a fifty per cent grant-in-aid on the estimated cost of the scheme.

In the Second Five-Year Plan, greater emphasis was given to this problem and larger provisions were made. 340 water supply and 75 underground drainage projects in urban areas estimated to cost Rs. 69·5 crores have so far been approved under the programme. On the rural side the programme covers some 15 thousand villages at an estimated cost of Rs. 18·6 crores. In addition to the above, 9 water supply and 6 sewerage projects estimated to cost Rs. 8·8 crores are also in progress in the Corporation towns. A sum of Rs. 78 crores has been provided for urban water supply and sanitation during the 3rd Plan.

Training : As a part of the scheme, the Union Ministry of Health have also sanctioned a comprehensive programme for the training of public health engineers and auxiliary engineering personnel at different institutions with suitable programmes drawn up for the purpose. The training programme is implemented at the All India Institute of Hygiene and Public Health, Calcutta, the Engineering College, Guindy, Madras, the Engineering College, Roorkee and at regional field centres selected specifically for the purpose. The entire cost of the training is

* No. of beds 453.

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borne by the Union Ministry of Health, the candidates sponsored by the State Governments being paid monthly stipends for the duration of the course. The programme also includes financial assistance to the institutions where the training facilities are provided. Over 550 trainees drawn from all over the country have so far benefited by this programme.

The United States Technical Co-operation Mission is also participating in the implementation of the programme by providing materials and equipment worth $ 6 million, most of which have been procured already and distributed to the States for use in their water supply and sanitation schemes.

Organisation : The Central Public Health Engineering Organisation has been created as a wing of the Directorate General of Health Services in the Union Ministry of Health to assist the States in the implementation of the National Water Supply and Sanitation Programme and for providing technical advice and guidance wherever necessary. There are at present nine public health engineers and a sanitary chemist in the Central Public Health Engineering Organisation. Public Health Engineering Organisations have also been set up in most of the States since the inception of the National Water Supply and Sanitation Programme.

INDIGENOUS SYSTEMS

The general policy of the Government is that there should be only one system—the allopathic—and that steps should be taken to eradicate quackery from the indigenous systems and put them on a more scientific basis. It is held that in any reorganised training anatomy, physiology and surgery should be part of the curriculum.

The reports and recommendations of the Chopra Committee, the Pandit Committee, the Homœopathic Committee, etc., are givn in the 1960-61 Directory.

A committee consisting of Dr. K. N. Udupa, Surgical Specialist, Himachal Pradesh (Chairman); Mr. Kaladi K. Parameswaran Pillai, Research Professor in Ayurveda, Government Ayurvedic College, Trivandrum (Member); and Mr. R. Narasimhan, Under-Secretary to the Government of India, Ministry of Health (Member-Secretary) was appointed to assess the present status of the Ayurvedic System. It presented its report on Jan. 27, 1959.

Among the recommendations are the setting up of a Central Council of Indian Medicine and a Central Council of Ayurvedic Research for planning and co-ordination.

A Central Council of Ayurvedic Research was set up in Oct. 1959 with the Minister for Health, Mr. D. P. Karmarkar as Chairman and Mr. V. K B. Pillai, Secretary, Ministry of Health as vice-chairman and Dr. C. Dwarkanath, Adviser, Indigenous Systems of Medicine, Ministry of Health as member-secretary.

With the setting up of this council the then existing Advisory Committee on Ayurveda attached to the Ministry of Health ceased to function.

The committee has made suggestions regarding the improvement of Ayurvedic training, research, pharmaceutical concerns and the status of Ayurvedic practitioners. The committee went into the question of the position of Ayurveda in great detail and collected valuable statistics.

The committee has observed that for the time being training in both the integrated and *shudh* Ayurvedic systems may have to continue.

The committee observes that the establishment of a Chair of Indian Medicine in modern medical colleges will definitely tend to create an interest in the Ayurvedic System of Medicine in students of modern medicine and will incidentally clear the prejudice at present existing among modern medical men against Ayurveda.

The committee has made suggestions regarding a new method of approach in the field of research. The present research may briefly be described as diagnosis and treatment both on Ayurvedic lines. It has been suggested that research can be four-fold *viz.*, diagnosis and treatment on Ayurvedic lines, diagnosis on Ayurvedic lines and treatment on modern lines, diagnosis on modern lines and treatment on Ayurvedic lines and lastly diagnosis and treatment on modern lines as a control measure. More model post-graduate-cum-research centres have been suggested by the committee under the control of the Central as well as State Governments.

The report, it is understood, states that more than Rs. 6 crores worth of Ayurvedic medicines are being manufactured and consumed in the country today, although no standards in the matter of raw materials or in the process of preparation have been laid down so far. Remedies for these drawbacks have been suggested by the committee.

Since independence there has been an increase in the number of ayurvedic colleges and pharmaceutical concerns and greater control over the registration of Ayurvedic practitioners. The committee feels that it is time to consolidate the position of Ayurveda on a stronger foundation. It has suggested that Government should make a clear declaration of policy in regard to the place of Ayurveda in the country for providing medical relief.

There are about 50 colleges which afford a training in the indigenous systems of medicine and about 8 in homoeopathy.

Research is conducted at the School of Tropical Medicine, Calcutta; Central Drug Research Institute, Lucknow; the Drugs Research Laboratory in Jammu, and the Central Research Institute in Indigenous Systems of Medicine, the Ayurvedic Research Institute under the Thakurdatta Sharma Dharmarth Trust. There is also a Board in Bombay to promote research.

The Union Ministry of Health has published what is the first complete national pharmacopœia of India. It gives information about the standards to be prescribed and tests to be used to establish the identity and purity of a number of indigenous medicinal preparations.

The Government of India in the Ministry of Food and Agriculture have established a Central Indian Medicinal Plants Organisation.

In the Second Five-Year Plan of the Central Government a provision of Rs. 100 lakhs had been made for the development of Indigenous Systems of Medicine—Ayurveda, Unani, Homœopathy and Nature Cure. A provision of Rs. 521·83 lakhs had also been made in State Plans for the development of indigenous systems of medicine out of which a sum of Rs. 221·49 lakhs had been earmarked for the improvement of existing colleges and establishment of new ones.

The Central Government have been giving grants to the various institutions for research, upgrading and establishment of teaching institutions. A total amount of Rs. 71·82 lakhs was sanctioned upto the end of 1959-60 under this scheme. In 1960-61 a sum of Rs. 6·78 lakhs had been granted to various private institutions by way of direct grants.

The Govt. of India have set up an advisory committee for homœopathic and unani systems of medicine.

A provision of Rs. 8 crores is proposed to be made in the 3rd Five-Year Plan for the development of indigenous systems of medicine.

The amount spent by the Central Government on the indigenous systems were Rs. 6,79,827 in 1956-57; Rs. 13,72,550 in 1957-58; Rs. 6,06,300 in 1958-59.

DRUGS

The Drugs Act, 1940, is now in force in the whole country except Kashmir.

The Act regulates the import into, and the manufacture, sale and distribution of drugs.

The control over import is exercised by the Central Government through its offices at the ports of Bombay, Calcutta, Cochin and Madras.

The control over manufacture, sale and distribution is exercised by State Governments.

The Drugs Act has been recently amended empowering the Central Government to assist State Governments in exercising control over the quality of manufactured drugs.

There is a Central Drugs Laboratory in Calcutta set up in 1947 under the Drugs Control Act.

A Drugs Technical Advisory Board advises the Central and States Government on technical matters concerning the Drugs Act.

A Drugs Consultative Committee advises on how to bring uniformity in the administration of the Act.

The Hindusthan Antibiotics have achieved a capacity of 40 M.M.U./ annum of penicillin. Their scheme for the manufacture of streptomycin was to be completed by the middle of 1961. They also undertake the production of tetracycline on a pilot plant scale.

The third team of Soviet experts arrived in India in December 1959 and had discussions with the Indian Counterpart team. The location for the four public sector projects to be set up under Russian collaboration was finalised as follows:—Antibiotics Plant at Rishikesh (U.P.); Phytochemical Plant at Neriamangalam, Kerala State; Synthetic Drugs Project at Sanatnagar, Hyderabad (A.P.); Surgical Instruments Plant at Nandam Vakham, Madras.

The detailed project reports are expected to be completed soon.

The setting up of a glandular products project envisaged under the Indo-Soviet agreement is still under consideration.

On the basis of the recommendation of the Drug Projects Location Committee, Govt. had provisionally decided to establish drug farms in the following regions for growing specific medicinal plants in each region : Jammu and Kashmir, Darjeeling area in West Bengal, Kerala, Nilgiris in Madras and Chakrata hills in U.P.

Hormones

Four firms are at present engaged in the manufacture of cortical and sex hormones with a total installed capacity of 398 kgs./annum.

A scheme for the manufacture of various corticosteroid hormones and intermediates based on indigenous raw materials with a total capacity of 3,000 kgs./annum is under implementation.

Vitamins

Two units have been set up for the manufacture of Vitamin A with a total capacity of 20 MMU/annum. Production commenced in 1959. Production of Vitamin B_{12} also started in the latter half of 1959.

A scheme for the production of vitamin B_6 (1 ton/annum), Vitamin C (60 ton/annum) has been licensed and is expected to go into production in 1961.

A new undertaking has been established with a licensed capacity of 4 kgs./annum for the manufacture of Vitamin B_{12}. The firm has already gone into production from imported intermediate.

Antibiotics

Besides the Hindusthan Antibiotics, two units have been licensed for a capacity of 20 MMU/annum of penicillin and are expected to go into production early in 1962. In addition, three more units are going ahead with their plans for the basic manufacture of tetracyclines in the country. Four units have been licensed for the production of Chloramphenicol besides one firm which is already manufacturing it.

Sulpha Drugs

A few units in the private sector produce sulpha drugs and the combined annual capacity is about 400 tons/annum. Two schemes have been approved for the basic manufacture of sulpha drugs.

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Anti-Malarial

Chloroquin and Amodiaquin are being produced by two units one in West Bengal and another in Bombay.

Quinine salts are being manufactured by three Government factories two in Madras State and one in West Bengal.

Anti-Diabetic Drugs

At present only one firm is producing anti-diabetic drugs tolbutamide and carbutamide on a small scale. Shemes have been licensed to other parties also for expansion in the capacity of those drugs and are under implementation.

Anti-Leprosy Drugs

In addition to the three units already existing, a fourth unit has installed capacity for this item. The total installed capacity is 18·3 tons per annum.

Surgeons' Requisites

A new unit has been established for the production of plaster of Paris, bandages etc., in addition to the two units already licensed.

The Indian Pharmacopoeia Committee helps to keep the Indian Pharmacopoeia first published in 1955 up-to-date. A revised edition of the Indian Pharmacopoeia is under compilation.

A National Formulary of India, which contains a list of essential drugs and formulations was published in April 1960.

The Drugs & Magic Remedies (Objectionable) Advertisements Act, 1954, is in force to protect people from self-medication with drugs and remedies advertised in the lay press. Action against advertisements contravening the Act is taken by the State Governments while the Central Government regulates the import and export of such advertised drug. The Rules under the Act are framed by the Central Government.

AUXILIARY WORKERS

In order to meet extreme shortage of doctors in the country as a whole and particularly in the rural areas, it was proposed to introduce a new type of Auxiliary Medical and Public Health Worker.

He would not be entrusted with diagnosis and treatment of diseases beyond what is necessary as a part of ordinary first-aid work, and the training should be such as to enable him to assist the health authorities, in as large a measure as possible, in preventive measures including sanitation, health education, etc. The syllabus of training throws more emphasis on the preventive aspects of the training, rather than the curative side.

During training it was proposed to give the trainees free lodging and a stipend of Rs. 50 p.m.

The Government of India have approved the establishment of training centres at the following institutions :— Public Health Institute, Patna (Bihar), Medical College, Visakhapatnam (Andhra), S.M.S. Medical College, Jaipur (Rajasthan).

NURSING

At the end of the year 1959 there were 30,400 registered nurses and 35,798 registered midwives, 1,321 registered health visitors and 1,605 auxiliary nurse-midwives. The total number of qualified health visitors in India on 31st Dec. 1959 was between 2,000 and 3,000. Separate figures for urban and rural areas are not available.

The Health Survey and Development Committee recommended that there should be a ratio of one nurse to 500 of population, and one midwife for every 100 births. On this basis, the total requirements for nurses would be 8,00,000 and 1,68,900 midwives for the present number of births in the country.

The Second Plan targets were : Nurses 31,000; Midwives 32,000 ; Health Visitors 2,500 ; *Dais* 41,000.

The number of nurses and midwives available in India falls far short of actual requirements. In order to meet the increasing demand for health personnel in connection with the expansion of health programmes under Community Development Projects a scheme for the training of about 6,000 additional auxiliary nurse-midwives had been included in the Second Five-Year Plan at an estimated cost of Rs. 89 lakhs to be shared by the Central and State Governments concerned.

2,514 auxiliary nurse-midwives have been trained under this programme upto the end of Nov. 1960, and about 3,000 were under training.

Training in nursing is offered in centres attached to almost all large hospitals. The College of Nursing, New Delhi, the School of Nursing of the Christian Medical College, Vellore and the Nursing College at Hyderabad offer basic courses in nursing leading to B.Sc. degree. A Nursing College has also been established at Indore and Bombay. Apart from the degree course in Nursing, the College of Nursing, New Delhi, also offers a course leading to Master in Nursing degree of the Delhi University, and post-certificate courses for Ward Teaching Sisters, Sister Tutors, Midwife Tutors and in Nursing Administration. Courses in Public Health Nursing are being given at the All India Institute of Hygiene and Public Health, Calcutta, the J. J. Gruoup of Hospitals, Bombay, and the Graduate School for Nurses, Indore. A course in Public Health Nursing has also been established at the Lady Reading Health School, Dehi, in 1961.

The number of training institutions for nursing personnel and of students under training at the end of 1959 were as follows (The second figure gives the number of trainees) :—

Nurses : 234—9,596 ; Midwives : 264—3,096 ; Health Visitors : 21—1,167 ; Auxiliary Nurse-Midwives : 191—4,120.

About 2,000 trained lady health visitors were expected to be available during the Second Plan period to staff maternity and child welfare centres.

Short-term orientation courses in public health nursing has been established by the States of Assam, Andhra Pradesh, West Bengal, Gujarat, Madhya Pradesh, Madras and Rajasthan besides the Sirur Health Unit, Poona and the Health School at Singur (West Bengal). Over 400 nurses have taken these courses so far.

The Indian Nursing Council started compiling the Indian Nurses Register during 1959 which is expected to be completed in 1961-62. This register will include the names of all the nurses, midwives, health visitors, auxiliary nurse-midwives etc. borne on the registers of the State Nursing Councils. The Indian Nursing Council has also started the work of conducting inspections of training institutions for nurses etc. So far 37 inspections have been carried out by the Council.

FIVE-YEAR PLANS

The total provision for Health schemes in the First Five-Year Plan was Rs. 140 crores : Rs. 101 crores were provided by the States and Rs. 39 crores by the Centre. During the period 1951-56 expenditure on medical and public health amounted to Rs. 105·46 crores which is about 75 per cent of the planned outlay.

The progress under broad heads of development is given below.

Rs. 30 crores were provided by the States in their plans for water supply and sanitation of which Rs. 14 crores were meant for rural and Rs. 16 crores for urban areas.

For the urban areas 196 water supply and 58 sewage schemes were sanctioned. The total amount of money sanctioned was Rs. 12·90 crores and the money paid was Rs. 8·3 crores. The number of water supply schemes actually taken in hand was 187 and of sewage schemes 42 in March 1956.

In the rural areas 134 schemes were sanctioned. The total amount of money sanctioned was Rs. 5·8 crores, and the money paid Rs. 2·8 crores upto March 1956.

The urban programme has been more successful than rural, but even here some of the schemes were just getting started and the majority only about 40 to 50 per cent completed in March 1956.

During the First Plan the number of doctors went up by 11,000, of nurses by 5,000, of midwives by 8,000 and of health assistants by 500.

The Planning Commission has estimated that at the end of the Second Plan the number of doctors will be 83,000 and the number needed 7,000.

There were about 1,13,000 beds in the country and 8,600 hospitals and dispensaries at the commencement of the First Plan. By 1955-56, the number of institutions rose to about 10,000 and beds to 1,25,000. The Second Five Year Plan placed a target of additional 30,000 beds and about 2,600 institutions. It is likely that the target in both these categories would be exceeded and that the country would be having about 1,60,000 beds by 1961.

Adequate health protection to the rural population is the most outstanding feature of the Second Five-Year Plan programme—the establishment of more primary health units in as many development blocks as possible. The primary health centre is the cornerstone of the health-care organization of the rural population. While 725 health units were set up in the First Plan, it was hoped that with a provision of about Rs. 19 crores, 3,000 health units would be started in the Second Plan.

The State Governments opened 2,013 primary health centres upto the end of Feb. 1960 and 2,743 were expected to be opened by the end of the Second Plan.

The Second Plan included a provision of Rs. 63 crores for urban Water Supply and sanitation schemes. Till October, 1960, 405 schemes (331 water supply and 74 sewage schemes) estimated to cost about Rs. 77 crores had been sanctioned under the programme including those approved in the First Plan. It is estimated that these schemes when completed would benefit an additional urban population of some 13 million.

There is a provision of Rs. 28 crores for the rural water supply schemes. So far 297 schemes (including those approved in the First Plan) estimated to cost Rs. 18·46 crores have been approved, and grants-in-aid totalling to Rs. 9·8 crores have been paid. These schemes cover some 15,000 villages and the population benefited would be roughly 16 million.

Arrangements have also been made for training public health engineers, overseers, sanitary inspectors for which a sum of Rs. 30 lakhs had been earmarked in the Plan.

There were about 3,681 registered dentists in the country in 1958.

In order to meet the shortage of qualified dental surgeons in the country, the Government of India, included in the Second Five-Year Plan a scheme for opening of new dental colleges and expansion of existing ones. A provision of Rs. 75 lakhs has been made in the Central Plan for this purpose. At the beginning of the plan period there were only 6 dental colleges with an annual admission capacity of 178. The number of dental colleges rose in 1959 to ten with annual admission capacity of 351 students. This is partly due to the opening of a Dental Wing at Government Medical College, Patiala during 1958 where 12 students are admitted annually and partly due to expansion of admissions in Dental Wing, Madras Medical College, Madras, Calcutta Dental College & Hospital, Calcutta, King George's Medical College, Lucknow. The State Governments of Andhra Pradesh and Kerala have also

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started Dental Wings at Osmania Medical College, Hyderabad and Medical College, Trivandrum with an admission capacity of 25 and 40 respectively from 1959. During 1955 the number of students who passed out from 6 dental colleges was 39. The number of students who passed out from dental colleges in 1959 was 83.

Other schemes include establishment of dental clinics in district hospitals, development of public health, laboratory services and school health service and school feeding.

149 dental clinics in various States were sanctioned by the Government of India during 1956-60 against the Plan target of 350.

Funds have been set apart for launching a pilot project under the scheme for school health services, including school nutrition service.

About the utilisation of funds, against the total Plan allocation for each State, it was officially estimated that one State would have used over 50 per cent by the end of this financial year, four over 40 per cent, five between 30 and 40 per cent and the rest less than 50 per cent.

The overall average of utilisation of provision made in the Central Plan for assistance to the States for various schemes was 49 per cent, ranging from 4·5 per cent to 74 per cent.

MEDICAL EDUCATION

There were at the end of 1959, 53 medical colleges with an admission capacity of over 4,000. At the end of 1960 there were 60 medical colleges.

The Second Plan underlined the expansion of facilities for medical education. Admissions went up from 2,500 in 1950-51 to 3,750 in 1957. About 15,500 doctors were expected to qualify during the Second Plan period, adding to the present strength of over 70,000 against the country's estimated requirement of 90,000. A provision of Rs. 20 crores had been made for this purpose.

There are seven dental Colleges in the country. The colleges have an admission capacity of 230. In 1958 there were about 3,681 registered dentists in the country.

Below we give a list of medical and dental colleges :

The Andhra Medical College, Vishakapatnam.
The Assam Medical College, Dibrugarh.
The B. J. Medical College, Ahmedabad.
The B. J. Medical College, Poona.
The Medical College, Baroda.
The Christian Medical College, Ludhiana.
The Christian Medical College, Vellore.
The Darbhanga Medical College, Laherisarai (Bihar).
The Gajra Raja Medical College, Gwalior.
The Grant Medical College, Bombay 8.
The Guntur Medical College, Guntur.
Karnatak Medical College, Hubli.
The Kasturba Medical College, Manipal (South Kanara Dt., Mysore State).
The Lady Hardinge Medical College, New Delhi 1.
The Medical College, Madras.
The Mahatma Gandhi Memorial Medical College, Indore.
The G. S. V. M. Medical College, Kanpur.
The Medical College, Ranchi.
The Medical College, Amritsar.
The Medical College, Calcutta.
The Medical College, Mysore.
The Medical College, Nagpur.
The Government Medical College, Patiala.
The Medical College, Trivandrum.
The Calcutta National Medical Institute, Calcutta.
The Nilratan Sarkar Medical College, Calcutta.
The Osmania Medical College, Hyderabad.
The P. W. Medical College, Patna.
The R. G. Kar Medical College, Calcutta.
The S. N. Medical College, Agra.
The Sawai Man Singh Medical College, Jaipur.
The Seth G. S. Medical College, Bombay 12.
The Sriram Chandra Bhang Medical College, Cuttack.
The Stanley Medical College, Madras.
The Topiwala National Medical College, Bombay 8.
The Medical College, Bangalore.
The Gandhi Medical College, Bhopal.
The Medical College, Jabalpur.
The M. P. Shah Medical College, Jamnagar.
The K. G. Medical College, Lucknow.
The Madurai Medical College, Madurai.
All-India Institute of Medical Sciences, Safdarjang, New Delhi.
Govt. Medical College, Aurangabad.
Medical College, Kurnool (Andhra).
Medical College, Pondicherry.
The Gandhi Medical College, Hyderabad.
The Medical College, Kozhikode.
The Bankura Sammilini Medical College, Bankura (W. Bengal).
The Maulana Azad Memorial Medical College, New Delhi.
S. R. M. Medical College, Kakinada.
Bikanir Medical College, Bikanir.
Burla Medical College, Orissa.
Medical College, Calicut.
S. V. Medical College, Tirupati.
Tanjavur Medical College, Tanjavur.
Medical College, Rohtak.

Medical Schools

The Arya Medical School, Ludhiana.
The University Medical School, Bangalore.

Dental Colleges

The Calcutta Dental College & Hospital, Calcutta.
The Punjab Govt. Dental College & Hospital, Amritsar.
The Dental College & Hospital, Lucknow.
The Madras Medical College (Dental Wing), Madras.
The Nair Hospital Dental College, Bombay 8.
The Sir Currimbhoy Ebrahim Memorial Dental College and Hospital, Bombay 8.
Government Medical College (Dental Wing), Patiala.
The Dental College, Bangalore 2.
The Dental College, Trivandrum.
The Osmania Medical College (Dental Wing), Hyderabad.
The Patna Dental College & Hospital Patna.

Others

The All-India Institute of Hygiene and Public Health, Calcutta.
The College of Nursing, Delhi.
The Malaria Institute of India, Delhi.
The School of Tropical Medicine, Calcutta.
Sri Vallabhbhai Patel Chest Institute, Delhi.
All-India Institute of Mental Health, Bangalore.

AYURVEDIC AND UNANI INSTITUTIONS

Below we give a list of Ayurvedic institutions (it is not an exhaustive list) :

Ayurvedic College, Gauhati, Assam.
Gopobandhu Ayurvedic Institute, Puri, Orissa.
The Asafia Tibbia College, Bhopal.
Shri Narain Prasad Awasthi Ayurvedic School, Raipur (M.P.).
Ayurvedic Vidyalaya, Jamnagar, Saurashtra.
Ayurvedic Medical School, Bhawnagar, Saurashtra.
Govt. Ayurvedic College, Gwalior (M.P.).
Shri Raj Kumar Singh Ayurvedic College, Indore (M.P.).
Nizam's Tibbi College, Hyderabad.
Govt. Ayurvedic College, Hyderabad.
Govt. Aided S.Y.N.A. Ayurvedic College, Bhagalpur, Bihar.
Govt. Ayurvedic College, Patna.
Govt. Tibbi College, Patna.
Ayodhya Shiva Kumari Ayurvedic College, Begusarai, Monghyr, Bihar.
Ayurvedic Vibhag Vidyalaya, Patiala.
Shri Dhanwantri College, Sangrur, Punjab.
Shri Ayurved Vidyalaya, Barnala, Punjab.
Shri Venkateswara Ayurvedic Kalasala, Vijayawada, Krishna District, Andhra Pradesh.
Shri Ram Mohan Ayurvedic College, Guntur.
Aryavaidyapatasala, Kottakkal, Kerala.
The Venkataramana Dy & Ayurvedic College, Mylapore, Madras.
College of Indigenous Medicine, Kilpauk, Madras.
Madhava Memorial Ayurvedic College, Cannanore.
Keraleeya Ayurvedic Mahapatasala, Shoranur (Kerala).
Akhila Travancore Sidhamruth, Kalloore & Siddha Medical Training College.
Govt. Ayurvedic College, Trivandrum.
J. S. Maha Gujarat Ayurvedic Medical College, Nadiad (Gujarat).
Shri Ochhavlal N. Ayurvedic Mahavidyalaya, Surat.
Ayurveda Mahavidyalaya, Poona.
Aryangla Vaidyak Mahavidyalaya, Satara City.
Ayurveda Vidyalaya, Jamnagar.
R. A. Podar Medical College (Ayurvedic), Worli, Bombay.
Ayurved Mahavidyalaya, Ahmednagar.
Jamini Bhushan Ashtanga Ayurved Vidyalaya (College), Calcutta.
Vishvanath Ayurvedic Mahavidyalaya (College), Calcutta.
Shyamadar Vaidya Shastrapith (College), Calcutta.
Govt. Ayurvedic College, Jaipur.
Maharana Ayurvedic College, Udaipur.
Rajputana Ayurvedic & Unani Tibbi College, Jaipur.
Dayanand Ayurvedic College, Amritsar.
Govt. Ayurvedic & Unani College, Mysore.
Ayurvedic College, Hindu University, Banaras.
Ayurvedic College, Lucknow University, Lucknow.
Ayurvedic College, Gurukul University, Kangri.
Ayurvedic College, Gurukul Vrindaban, Distt. Mathura (U.P.).
Budelkhand Ayurvedic College & University, Jhansi.
Rishikul Ayurvedic College, Hardwar.
Lakit Hari Ayurvedic College, Pilibhit.
Kanya Kubja Ayurvedic College, Lucknow.
Ram Sahai Ayurvedic College, Meerut.
Lekh Ram Ayurvedic College, Dorli (Distt. Meerut).
Ayurvedic College, Dehra Dun.
Arjuna Ayurveda Vidyalaya, Banaras.
Baldeo Ayurvedic College, Baragaon, Banaras.
Ayurvedic College, Farrukhabad.
Narendra Vidya Mandir, Kirooli (Distt. Agra).
Moolchand Rastogi Ayurvedic College, Lucknow.
Uttra Khand Vidyapith Vidyalaya, Guptakashi (Distt. Garhwal).

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Tibbia College, M.U., Aligarh.
Takmil-ut-Tib College, Lucknow.
Unani Medical College, Himmat Ganj, Allahabad.
Tibbia College, Saharanpur.
Darshanand Ayurvedic College, Banaras.
Shiv Ganga Ayurveda Mahavidyalaya, Madhubani, Bihar.
The Suddha Ayurved Vidyalaya, Sion, Bombay.
The Punarvasu Ayurved Vidyalaya. Bombay.
The Ashtang Ayurved Mahavidyalaya, Poona.
The Karnatak Ayurved Vidyalaya, Belgaum, Mysore.
The Suddha Ayurved Vidyalaya, Hubli.
The Suddha Ayurved Vidyalaya, Nasik.
The Suddha Ayurved Vidhalaya, Bijapur.
Vidarbha Ayurveda Mahavidyalaya, Amravati.
Government Ayurvedic College, Raipur.
Bidyabhushan Sanskrit College, Bolangir, Orissa.
Sanskrit College, Parlakimedi, Orissa.
Sadasiv Sanskrit College, Puri, Orissa.
Dayanand Ayurvedic College, Jullundur.
Ayurvedic College, Sikar.
Ayurvedic College, Bikaner.
Gurukul Vishwa Vidhyalaya, Virmdaban.
State Ayurvedic College, Lucknow.
Nabadwip Ayurvedic College, P.O. Nabadwip, District Nadia, West Bengal.
Vaidya Sastrapith Parisad College, Calcutta.
Ayurvedic Sewak Sangh Vaidyak Pathshala, P.O. Contai, Midnapore.
Banwari Lal Ayurvedic Vidyalaya, Delhi.
Jamia Tibbia College, Delhi.
Dharma Samaj Sanskrit College, Muzaffarpur, Bihar.
Shudha Ayurved Vidyalaya, Malbipole, Baroda.
Shri Ayurved Mahavidyalaya, Samanvaya Rugnalaya Mahal, Nagpur.
Ayurved Medical College, Nanded, Maharashtra.
Radhakrisan Toshniwal Ayurved Mahavidyalaya, Akola.
Government Ayurvedic College, Dabala.
Birla Sanskrit (Ayurvedic) College, Pilani.
Meerut Ayurvedic College, Nanchandi, Meerut.
Ayurvedic College, Atarra, District Band.
Mahila Ayurvedic College, Meerut.
Divedi Ayurvedic College, Kanpur.
Ayurvedya Partisthan, 123, Harish Mookerjee Road, Calcutta-26.
Dayanand Ayurvedic Kanaya Mahavidyalaya, Delhi.
Government College of Indian Medicine, Mysore.
Taranath Ayurveda Vidyapeetha, Bellary (Mysore).

OTHERS

Training of nurses, midwives and auxiliary nurse-midwives is offered in most of the hospitals in the States. The names of States and the number of hospitals in each State offering such training: Andhra Pradesh 37; Assam 20; Bihar 14; Maharashtra and Gujarat 70; Kerala 15; Madhya Pradesh 28; Madras 35; Mysore 20; Orissa 7; Punjab 24; Rajasthan 13; Uttar Pradesh 34; West Bengal 23; Delhi Union Territory 6; Tripura 1; Manipur 1; Himachal Pradesh 3. There are eight military hospitals in the country where the training is offered. The College of Nursing, New Delhi, offers higher training in B.Sc. (Honours) course in Nursing and the following post certificate courses:— Ward Sisters course; Nursing Administration course; Sister Tutors course; Midwife Tutors course.

The Christian Medical College, Vellore, provides training in B.Sc. course in Nursing and Sister Tutors course.

Health Visitors are trained in Bombay, Calcutta, Delhi, Hyderabad, Madras, Lucknow, Nagpur, Poona, Ludhiana, Amritsar, Visakhapatnam, Indore, Patna, Ranchi, Trivandrum, Allahabad, Bareilley, Srinagar, Khed and Rajkot.

Courses in malaria are conducted at the Malaria Institute of India, Delhi.

Pharmacy

Facilities for training in pharmacy are being developed or improved in the following institutions:—

Department of Pharmaceutics, Andhra University; Department of Pharmacy, Saugor University; Department of Pharmacy, Banaras Hindu University; Department of Pharmacy, Punjab University; Department of Pharmacy, Medical College, Madras; Department of Pharmacy, Birla College of Science, Pilani; L. M. College of Pharmacy, Ahmedabad; Department of Chemical Technology, Bombay University.

The total cost of the scheme for the above institutions is of the order of non-recurring Rs. 13·5 lakhs and recurring Rs. 1·73 lakhs.

The Central Government or the University Grants Commission have agreed to provide about Rs. 9·81 lakhs of the non-recurring cost and Rs. 70,000 of the recurring cost.

When the scheme is fully implemented, facilities will be available for an annual admission of about 200 candidates for a three-year degree course in pharmacy.

The All-India Council for Technical Education has recommended that efforts should be made for developing at least one centre in each major State for training in pharmacy. Accordingly, those States which do not have such training facilities at present have been addressed by the Central Government regarding the setting up of necessary centres.

The All-India Council is also examining the question of developing facilities for training in pharmaceutics technology in certain selected institutions which conduct courses in chemical engineering and chemical technology.

A course of study in Pharmacy aimed at training pharmacists who will be eligible for registration under the Pharmacy Act is being provided by the following institutions:—

1. Medical College, Amritsar.
2. L. M. College of Pharmacy, Ahmedabad.
3. Birla College, Pilani.
4. D.A.V. College, Kanpur.
5. Madras Medical College, Madras.
6. Pharmacy Training Centre, Jalpaiguri.
7. Bombay College of Pharmacy, Bombay.

The pharmacy Council of India has approved these courses of study under Section 12 of the Indian Pharmacy Act, 1948.

LABOUR

THE achievement of Independence and the emergence of India as a Republic wedded to the idea of a welfare State has made the welfare of the working classes a prime responsibility of the State. Several administrative and legislative measures of far-reaching significance have already been introduced in the country. Health, education, housing and social welfare for the masses find a prominent place in the First and Second Five Year Plans.

The general position in 1957-58 was as follows:—

Total Labour Force .. .. (men 98,700,000; women 40,600,000).	139,300,000
No. employed in factories coming under the Factories Act of 1948	3,412,985
No. of trade unions on register ..	10,045
No. of trade unions which submitted returns of membership	5,520
No. of members of trade unions submitting returns	3,015,052

The Central co-ordinating authority in India for questions connected with labour legislation is the Ministry of Labour and Employment of the Government of India with the Labour Minister in charge. The administration of matters, connected with the English and Indian Merchant Shipping Acts, the Mercantile Marine Department and Indian Seamen is with the Ministry of Transport and Communications. In respect of all the Railways, the Labour Minister is responsible for the administration of the Payment of Wages Act, 1936, trade disputes, hours of work for employees not covered by the Factories Act and regulation of employment of children. He is also responsible for regulation of labour and safety in respect of mines and oilfields; trade disputes in industries, businesses or undertakings carried on by the Central Government, and inter-State migration.

Among the more important Acts that govern labour conditions and relations in India are the following: 1. Indian Factories Act, 1948; 2. Indian Mines Act; 3. Payment of Wages Act; 4. Minimum Wages Act; 5. Workmen's Compensation Act; 6. Maternity Benefit Acts (States); 7. Indian Trades Union Act; 8. Industrial Disputes Act; 9. Industrial Disputes (Appellate Tribunal) Act; 10. Tea Districts Emigrant Labour Act; 11. Shop Assistants Acts (States); 12. Employees' State Insurance Act; 13. Collection of Statistics Act; 14. Employees Provident Funds Act.

FACTORIES ACT, 1948

The Act covers all industrial establishments employing 10 or more workers and using power and establishments employing 20 or more workers and not using power. The State Governments have been empowered to apply the provisions of the Act to any premises, irrespective of the number of persons employed, where a manufacturing process is carried on with or without the aid of power, except where the work is done by the worker solely with the aid of his family.

The Act prescribes that every factory should be kept clean and free from effluvia arising from drains, privies, etc., and lays down stipulations regarding sweeping, cleaning, disinfecting, white-washing, ventilation, temperature, drinking water, latrines, etc.

In existing factories 350 cubic feet of space should be provided for every workman. In new factories to be built the space for each workman should be 500 cubic feet.

Elaborate provision regarding safety such as fencing of machinery, etc., has been laid down. Women and children are prohibited from employment on certain types of machinery.

Washing facilities for the workers, appliances for first-aid, rest shelters, creches, canteens, etc., are prescribed under the Act. In every factory where 500 or more workers are employed the occupier shall employ Welfare Officers.

Weekly hours of work have been fixed at 48 and daily hours at 9. The maximum spread-over allowed is 10½ hours. No worker shall work for more than 5 hours before he has had an interval for rest of at least half an hour.

Payment for overtime has been prescribed at double ordinary rate of wages.

No woman or child shall be employed in any factory except between the hours of 6 a.m. and 7 p.m.

A weekly day of rest has also been prescribed.

No child who has not completed his fourteenth year shall be required or allowed to work in any factory. A child who has completed his fourteenth year or an adolescent (a person who has not completed his eighteenth year) shall not be allowed to work in a factory unless a

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certificate of fitness by a certifying surgeon is in the custody of the manager of the factory and he carries while at work a token giving reference to such certificate. No 'child' shall be employed or permitted to work in any factory for more than 4½ hours in a day or between the hours of 7 p.m. and 6 a.m.

Every adult worker who has completed a period of 12 months' continuous service in a factory (later amended, see below) shall be allowed during the subsequent period of 12 months leave with wages including dearness allowance for a period calculated at the rate of one day for every 20 days of work performed by him during the previous 12 months, subject to a minimum of 10 days. In the case of children the leave should be at the rate of one day for every 15 days of work subject to a minimum of 14 days.

It may be added here that the recent tendency for many units particularly in south India has been to allow holidays with pay in excess of the minimum stipulated.

In many awards given by Adjudicators leave with pay upto 14 days has been granted.

Where any worker in a factory contracts any disease specified in the schedule appended to the Act, the manager of the factory shall send notice thereof to such authorities, and in such form and within such time, as may be prescribed.

The administration of the Act is left to the State Governments. The Central Government have set up an advisory organisation, namely the Office of the Chief Adviser, Factories.

The Act was amended in 1954. Under this amendment eligibility for leave with pay would be 240 days' service during a calendar year. Proportionate leave will be granted to those whose service starts after the beginning of the calendar year.

The annual leave with wages will be exclusive of holidays during or immediately before or after the period of leave.

The leave can be carried forward from one calendar year to another provided the maximum does not exceed 30 days in the case of an adult and 40 days in the case of a child.

No prior notice will be necessary when a worker requires leave to cover a period of illness.

The Act permits six hours' work at a stretch without any interval when the total number of hours to be worked on any day in a shift does not exceed six.

It also permits newspaper printing presses to work their entire night shift of six hours at a stretch.

It allows a worker a maximum of 50 overtime hours in a quarter year which is deemed to have begun on the first day of January, April, July or October.

It enables continuous employment of workers in case some of the subsequent shift workers do not turn up in time.

For the purpose of computing the rate of wages of a person who takes advantage of the concessional sale of foodgrains and other articles the basis will be the maximum ration admissible to a standard family of a specific number of consumption units.

Women and children are also prohibited from cleaning, lubricating or adjusting any prime mover of transmission machinery while it is in motion if such work exposes them to risk of injury.

FACTORY STATISTICS

Under the provisions of the Factories Act, 1948, registered factories submit annual and half yearly returns on employment to the Chief Inspectors of Factories in the various States. All-India figures are compiled by the Labour Bureau and are published in the *Indian Labour Gazette*.

The number of factories on registers in the areas covered by the States during 1957 and 1958 were 37,896 and 41,579 respectively.

The following table sets out the statistics of the average daily numbers of persons employed in factories during the half year ending 31st December 1958.

WORKERS EMPLOYED 1958.

Industry	Average Number of Workers Employed Daily
Processes allied to agriculture ..	148,034
Food except beverages	489,087
Beverages	6,887
Tobacco	191,431
Textiles	1,140,766
Footwear, other wearing apparels and made up textile goods	18,526
Wood and Cork except furniture ..	43,190
Furniture and fixtures	13,528
Paper and paper products	35,293
Printing, publishing and allied industries	94,211
Leather and leather products (except footwear)	19,780
Rubber and rubber products	31,388
Chemicals and Chemical products ..	119,464
Products of petroleum and coal ..	16,694
Non-metallic mineral products (except products of petroleum and coal)	158,236
Basic metal industries	133,029
Metal products (except machinery and transport equipment) ..	103,638
Machinery (except electrical machinery)	146,205
Electrical machinery, apparatus, appliances and supplies	46,174
Transport equipment	300,674
Miscellaneous industries	100,246
Electricity, gas and steam	34,575
Water and sanitary services ..	6,498
Recreation services	4,704
Personal services	10,727
Total ..	3,412,985

State-wise Figures

The following para shows the average daily employment in factories in 1958 by State :—

Andhra Pradesh 221,954; Assam 75,378; Bihar 183,238 ; Bombay* 1,066,677 ; Kerala 166,182 ; Madhya Pradesh 161,059 ; Madras 326,305 ; Mysore 122,359 (1957) ; Orissa 25,974 ; Punjab 103,981 ; Rajasthan 53,075 ; Uttar Pradesh 278,178 ; West Bengal 686,428 ; Delhi 59,399 ; Himachal Pradesh 1,344 ; Andaman & Nicobar Islands 1,609 ; Manipur 136 ; Tripura 2,068 ; Total 3,412,985. Figure for the 1st half of 1959 for Mysore : 1,86,289 (Provisional).

MINES ACT

With a view to amending and consolidating the law relating to the regulation of labour and safety in mines, the Mines Act, 1952 was passed and brought into force from July 1952. The Act extends to the whole of India except Jammu and Kashmir. The main features of the Act are given in the 1960-61 Directory.

The Mines Amendment Act 1959, received the assent of the President on 27th December 1959. Some of the important features of the Amendment Act are as follows :—The definition of the term "mine" has been made clear so as to include quarries, open cast workings, private railways, aerial ropeways and conveyors etc. The Act provides for the maintenance of first-aid rooms in mines where more than 150 persons are employed instead of 500 persons as under the original Act. The Act prohibits the employment of persons in a mine when its owner fails to comply with the notice of the Mines Inspectorate for remedying any matter connected with a mine which is dangerous to human life, limb or safety. The Act provides also for the payment of over-time at a uniform rate of twice the ordinary rate of wages for persons employed both above and below ground whereas in the original Act the rates were 1½ times and twice for persons employed above, and below ground respectively. Under the Amendment Act, workers employed below ground are entitled to annual leave with wage at the rate of one day for every 16 days of work and those below ground to one day for every 20 days of work. The workers can accumulate the leave period upto a maximum of 30 days. The present Act enhances the penalty for contravention of the different provisions of the Act by raising the scales of fines and also provides for improvement with fine for contravening orders under section 22 of the Act.

MINING STATISTICS

Figures are published in a Monthly Bulletin which is issued by the Chief Inspector of Mines. The average daily number of workers employed in mines in 1939, 1951, 1952, 1953, 1954, 1955, 1956, 1957 and 1958 was 298,650 ; 549,048 ; 559,196 ; 593,868 ; 568,254 ; 590,776 ; 428,581 ; 651,321 and 649,360 respectively. The available figures are given in the following table :—

EMPLOYMENT IN MINES BY STATE—1958

State	Underground Men	Open workings		Surface		Total
		Men	Women	Men	Women	
Andhra Pradesh	15,910	4,909	3,401	7,275	2,998	34,493
Assam	2,870	567	12	1,351	196	4,996
West Bengal	72,565	7,058	1,495	28,616	8,998	118,732
Bihar	109,438	42,179	17,428	57,823	18,491	245,359
Bombay*	4,786	11,943	7,368	4,793	1,678	30,568
Madhya Pradesh	27,876	18,130	13,830	15,029	4,667	79,532
Madras	137	6,683	3,516	513	641	11,490
Orissa	3,423	18,143	13,218	10,669	5,175	50,628
East Punjab	80	1,017	..	327	4	1,428
Uttar Pradesh	..	1,096	29	20	..	1,145
Mysore	10,464	19,570	9,878	9,129	2,226	51,267
Rajasthan	4,794	7,589	1,709	4,142	651	18,885
Kerala	..	117	153	180	56	506
Delhi	..	111	7	29	..	147
Himachal Pradesh	72	12	..	85	15	184
Total (India)	252,415	139,124	72,044	139,981	45,796	649,360

* Bilingual.

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EMPLOYMENT IN MINES BY TYPE OF MINING—1958

Below we give the figures for 1958 by the type of mine :—

Mine	Underground Men	Open workings		Surface		Total
		Men	Women	Men	Women	
Coal	215,078	31,736	13,109	93,898	28,351	382,172
Mica	19,857	4,091	560	6,858	2,182	33,548
Manganese	2,167	40,084	27,991	10,320	6,295	86,857
Iron Ore	14	20,992	10,442	8,923	2,800	43,171
Gold	10,396	..	..	5,651	792	16,839
Limestone	..	21,741	10,691	5,407	1,681	39,520
Others	4,903	20,480	9,251	8,924	3,695	47,253
Total	252,415	139,124	72,044	139,981	45,796	649,360

DOCK WORKERS' ACT

The Dock Workers' (Regulation of Employment) Act, 1948 passed in March 1948 has in view the elimination of hardship caused to workers on account of the casual nature of the work. It enables the Central and State Governments to frame schemes for the registration of dock workers to ensure greater regularity of employment and to regulate the employment of workers whether registered or not and the terms and conditions of such employment.

It provides for registration, rates of wages, hours of work, holidays with pay, prohibits, restricts or controls the employment of workers to whom the scheme does not apply, training and welfare, health and safety measures, minimum payment for the period of unemployment. It also provides for the setting up of an Advisory Committee consisting of Government, labour and employers, and for the employment of Inspectors.

PAYMENT OF WAGES ACT

The Act applies only to wages and salaries which average below Rs. 400 per month.

For the purpose of the Act "wages" means all remuneration capable of being expressed in terms of money and includes any sum payable under an award or settlement, any remuneration for overtime work or holidays and bonus but does not include the value of housing, employer's contributions to pension or provident funds or travelling allowance.

No wage period is to exceed one month and wages are to be paid within a prescribed time not exceeding 10 days from the end of the wage period. All wages are to be paid in coin and, or currency notes. Fines are not to exceed half anna in the rupee. Permissible deductions from wages have also been specified.

The administration of the Act, as far as factories are concerned, has been entrusted to the Inspectors of Factories in the States. In regard to persons employed in mines and in railways the responsibility of administering the Act rests upon the Chief Labour Commissioner (Central).

MINIMUM WAGES ACT, 1948

The Act covers the following industries or types of establishments. Woollen carpet making or shawl weaving; rice, flour or dal mills; tobacco manufactories (including bidi making); plantations; oil mills; employment under any local authority; road construction or building operations; stone breaking or stone crushing; lac manufactories; mica works; public motor transport; tanneries and leather manufactories; and agriculture. The appropriate Governments can extend the application of the Act to any industry wherein, in their opinion, minimum wages should statutorily be fixed.

The Act requires the Central or State Governments, as the case may be, to fix minimum rates of wages payable to persons employed in the industries mentioned above.

The Act provides for the fixation of minimum time rates, minimum piece rates, guaranteed time rates and overtime rates appropriate to different occupations, or localities and for adults, adolescents, children and apprentices. The minimum rate may consist of a basic rate and a cost of living allowance and/or cash value of concessions or it may be an all-inclusive rate.

The Act authorises the appropriate Governments to appoint Committees and Sub-Committees to hold inquiries and advise them to fix minimum rates of wages in respect of any scheduled employment or for the revision of these rates. They may also appoint an Advisory Board for co-ordinating the work of various Committees and also to advise Government generally in the matter of fixing or revising minimum rates of wages.

The Central Government have set up a Central Advisory Board for advising the Central and State Governments and for co-ordinating the work of State Advisory Boards. The Committees and Sub-Committees as well as the Central and State Advisory Boards are to consist of equal number of representatives of employers and employees, and of independent persons not exceeding a third of the total number of members.

The Central or the State Governments, as the case may be, can fix the number of hours of work per day, provide for a weekly holiday, etc., in regard to any employment in which minimum wages have been fixed under the Act.

WORKMEN'S COMPENSATION ACT

Under the Act payment of compensation has been made obligatory on all employers whose employees come within its scope, and injured workmen or the dependents of those killed can obtain compensation in all cases where personal injury has been caused by accident *arising out of and in the course of employment* and where, except in the case of injury resulting in death, the accident is not directly attributable to the workman having been at the time of the accident under the influence of drink or drugs or to wilful disobedience of rules or orders or wilful disregard of safety devices.

Besides bodily injuries the contracting of certain occupational diseases such as anthrax and mercury, lead and phosphorus poisoning were deemed and treated for the purposes of compensation, as injuries caused by accident, provided however, that the worker concerned was in the service of the same employer for more than six months.

The main provisions of the Workmen's Compensation Act as it stands today are as follows:

In all cases persons employed in an administrative or clerical capacity and those whose monthly earnings exceed Rs. 400 (except Railway Servants) are excluded.

As far as seamen are concerned, those employed on ships registered in India are covered. But if accidents take place within the three mile limit of the territorial waters the Act applies even to those employed on ships not registered in India.

Not only workmen employed within the precincts of a factory or a mine but also men engaged in any kind of work incidental to or connected with a factory or any mining operation are entitled to the benefits of the Act.

Any person who is covered by the Employees' State Insurance Act, 1948, and who is entitled to receive disablement or dependent's benefit from the Employees' State Insurance Corporation is not entitled to claim any compensation from the employer under this Act.

The amount of compensation payable depends, in the case of death, on the average monthly wages of the deceased workman and in the case of an injured workman both on the average monthly wages and the extent of disablement. The term 'wages' includes overtime pay and the value of any concessions or benefits in the form of food, clothing, free quarters, etc.

The amounts of compensation payable in the case of an injured workman whose monthly wages are not more than Rs. 10 are Rs. 500 for death, Rs. 700 for permanent total, and half the monthly wages for temporary disablement. For a workman whose monthly wages are between Rs. 50 and Rs. 60, the corresponding figures are Rs. 1,800, Rs. 2,520 and Rs. 15 respectively. The maxima for persons earning over Rs. 300 per month are Rs. 4,500, Rs. 6,300 and Rs. 30 per month respectively. In the case of minors the amounts of compensation for death and for permanent total disablement are at the uniform rate of Rs. 200 and Rs. 1,200 respectively, and half the monthly wage for temporary disablement.

The interests of dependents in cases of fatal accidents have been safeguarded by ensuring that (1) all cases of fatal accidents should be brought to the notice of the Commissioner; (2) in all cases where an employer admits liability the amount of compensation payable is to be promptly deposited with the Commissioner; and (3) in cases where the employer disclaims liability and there are good grounds for believing compensation to be payable, the dependents get the information necessary to enable them to judge if they should make a claim or not.

An employer is permitted to make to any dependent advances on account of compensation not exceeding an aggregate of one hundred rupees.

The Act is administered by Commissioners appointed by State Governments. In areas in which the Employees' State Insurance Scheme has been implemented, the payment of workmen's compensation is the responsibility of the E.S.I. Corporation.

The Workmen's Compensation Act was first enacted as already mentioned in 1923 and has since undergone a number of important amendments. The basic structure of the Act, however, has remained more or less the same and a comprehensive amendment of the Act has been for long under consideration.

The basic points relating to such an amendment were: a revision of the current rates of compensation and extension of its coverage by raising the present wage limit from Rs. 400 to Rs. 500.

These two important matters were before an Actuarial Committee, which went into the question of the financial burden any such proposal would impose on the industry. The Sub-Committee constituted to examine the report of the Actuarial Committee has recommended that the present system of payments of compensation should be replaced by a system of periodical payments which should be disbursed through the agency of the Employees' State Insurance Corporation and the rates of compensation should be raised in accordance with

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the recommendations of the Study Group on Social Security. The Sub-Committee has also supported the proposal to increase the wage limit for coverage from Rs. 400 to Rs. 500 p.m.

An Amendment Bill—Workmen's Compensation Amendment Bill 1958—was passed by Parliament in Feb. 1959.

The Amendment aims broadly speaking at the following:

The removal of distinction between adult and minor in the matter of compensation; the waiting period during which the worker is not entitled to compensation would be reduced from seven to five; if the disablement lasts 28 days or more there would be no waiting period; if payment of compensation is delayed more than one month from the due date an interest of 6 per cent would be levied on the employer; there would be a penal compensation of 50 per cent if the delay in payment was not justified; the time limit for filing claims would be raised from one year to two years, delays in this might also be condoned; in case of transfer of assets of factory compensation would be the first charge; failure to carry out provisions of the Act would entail a penalty of Rs. 500 as against Rs. 100; factory inspectors and mine inspectors could be authorized to file claims; the number of injuries mentioned in the schedule would be raised from 14 to 54; the definition of workman would be enlarged; the definition of establishments to which the Act refers would also be enlarged; the schedule relating to occupational diseases would also be amended.

STATISTICS

An annual note on the working of the Act is published regularly in the *Indian Labour Gazette*.

The latest available statistics on the subject will be found in the following table :—

Year	Total number of cases	Total compensation paid
		Rs.
1947	53,574	33,26,495
1948	66,776	42,20,068
1949	60,511	52,17,162
1950	61,958	57,37,278
1951	63,133	58,98,253
1952	58,734	56,37,368
1953	61,742	61,38,389
1954	66,118	64,25,062
1955	75,793	59,67,194
1956	61,610	51,83,057
1957	71,908	61,86,746
1958	83,338	84,87,795

Facilities for accident insurance are now being provided by a number of leading insurance companies in the country and the most important of these are the Claims Bureau in Calcutta and Madras.

The table below shows the accident rate per thousand workers and the average compensation paid in the main industry groups during 1958.

INDUSTRY	1958	
	Accident Rate per thousand.	Average compensation paid per case.
		Rs.
Factories	18·51	87
Plantations ..	2·06	100
Mines	49·39	110
Railways	20·35	92
Docks and Ports ..	45·55	131
Tramways.. ..	26·16	80
Posts & Telegraphs	0·72	119
C.P.W.D.	2·29	981
Buildings & Construction.. ..	22·21	239
Municipalities ..	3·09	202
Miscellaneous ..	17·01	129
Average ..	18·99	102

MATERNITY BENEFIT ACT

The first Maternity Benefit Act in India was passed by the Government of the former Bombay State in 1929. After that, Maternity Benefit Acts were passed by the Governments of all the States.

The West Bengal Legislature passed a separate Act in 1948 for women employed in tea-plantations under the title of the West Bengal Maternity Benefit (Tea Estates) Act, 1948.

The Government of India passed the Mines Maternity Benefit Act in 1941.

The scope, qualifying conditions and rate of benefit are not uniform under the various State Acts.

The qualifying period of service is generally 9 months.

The rate of benefit is annas eight per day in Madras and Andhra under the Acts. In the Hyderabad Act and the Mines Benefit Act the rate is Ans. 12 or average daily earnings whichever is more. In Orissa, it is the actual daily wage or salary subject to a maximum of Ans. 12 per day. The Travancore-Cochin and West Bengal (Tea Estates) Acts provide for Rs. 5-4-0 per week. Women workers on plantations in Assam receive under the Act Ans. 11 Pies 6 per day in addition to the usual food concessions and women in other industries in the State get their average weekly earnings subject to a minimum of Rs. 2. Although maternity benefit legislation does not apply to plantations in other parts of South India, the employers' associations have recommended payment of benefit on a voluntary basis at the rate of Ans. 12 per day for a period of 8 weeks.

The Mines Maternity Benefit Act and the Assam, Bihar and U.P. Acts provide for some additional benefits which take the form of free medical treatment, maternity bonus, provision of creches, additional rest intervals for nursing mothers, etc. In the Central Act for women employed in mines and in the U.P. and Bihar Acts, an additional bonus of Rs. 3 and in Rajasthan Rs. 5 is paid if the women avail themselves of the services of a qualified midwife. But if such assistance is provided by or in an institution of an employer, the bonus is not paid.

The U.P. and Bihar Acts lay down that factories employing 50 or more women or where women employed form 25 per cent. or more of the workers, should maintain creches, and appoint female attendants to look after the children.

The administration of the Acts in the States is the responsibility of the Factory Inspectorates. The enforcement of the Mines Maternity Benefit Act in the coal mines is the responsibility of the Coal Mines Welfare Commissioner. In other mines, it is administered by the Chief Inspector of Mines.

MATERNITY BENEFIT IN THE VARIOUS STATES AND MINES DURING 1958

States.	Average No. of women employed.	No. of women who claimed maternity benefit.	No. of women who were paid maternity benefit in full or in part.	No. of cases in which a bonus was given or maternity benefit was paid for miscarriage or death.	Total amount paid.
					Rs.
Andhra Pradesh ..	68,425	1,041	1,022	1	16,091
Assam	82,563	17,897	17,335	21	15,47,666
Bihar	9,479	668	687	7	95,467
Bombay†	50,011	2,125	2,219	5	69,743
Kerala	1,57,771	23,923	23,328	1,582	13,67,970
Madhya Pradesh ..	10,538	106	96	7	6,207
Madras	47,647	1,872	1,193	565	78,253
Orissa	2,521	81	76	–	6,340
Punjab	3,317	2	2	–	204
Rajasthan	1,957	46	17	–	890
U.P.	2,009	16	16	6	1,329
West Bengal	86,783	17,268	16,273	–	9,92,413
Total 1958*	5,23,021	65,045	62,264	2,194	41,82,573
Total 1957	3,60,706	31,359	29,064	549	31,37,266
Mines—					
Coal	27,997	2,481	2,643	–	1,08,475
Others	55,217	5,788	5,772	620	2,18,301
Total Mines 1958 ..	83,214	8,269	8,415	620	3,26,776
Total Mines 1957 ..	92,031	8,089	8,168	716	3,24,603

† Bilingual.

* Excluding Mysore State.

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AMOUNT OF MATERNITY BENEFIT PAID UNDER THE EMPLOYEES' STATE INSURANCE ACT, 1948 DURING 1957 AND 1958

State	1957		1958	
	No. of women who received maternity benefit.	Amount of benefit paid.	No. of women who received maternity benefit.	Amount of benefit paid.
		Rs.		Rs.
Andhra Pradesh	296	26,753	318	42,880
Bombay*	1,347	2,39,744	1,519	3,60,847
Kerala	1,128	35,130	693	79,425
Madras	1,011	1,10,755	1,566	2,29,287
Madhya Pradesh	340	37,604	438	58,812
Punjab	50	1,792	26	1,932
Rajasthan	58	1,486	163	14,766
Uttar Pradesh	27	2,266	29	3,430
West Bengal	420	33,275	446	44,699
Delhi	53	3,290	40	5,214
Total	4,730	4,92,095	5,238	8,41,292

The average amount of benefit paid in the years 1957 and 1958 was Rs. 104 and Rs. 161 for all the States.

STATISTICS OF TRADE UNIONS

REGISTERED TRADE UNIONS AND MEMBERSHIP—MARCH 1959

State	Number of unions		Membership of unions submitting returns		
	on registers	submitting returns	Men	Women	Total
Central Unions					
Bombay*	51	24	60,449	343	60,792
Kerala	13	7	7,306	53	7,359
Madhya Pradesh	48	15	14,246	1,551	15,797
Madras	51	40	20,375	352	20,727
Punjab	36	19	2,878	54	2,932
Rajasthan	1	20	6,126	563	6,689
Uttar Pradesh	25	9	55,624	98	55,722
West Bengal	21	7	4,188	..	4,188
Delhi	36	23	1,21,591	30,14	1,24,605
Total	282	164	2,92,783	6,028	2,98,811
State Unions					
Andhra Pradesh	585	269	1,61,173	16,774	1,77,947
Assam	137	89	1,67,346	80,873	2,48,219
Bihar	565	428	3,38,615	32,553	3,71,168
Bombay*	1,686	1,007	5,04,212	48,461	5,52,673
Kerala	1,533	909	2,79,704	88,794	3,68,498
Madhya Pradesh	272	70	43,846	2,924	46,770
Madras	898	711	2,90,115	23,838	3,13,953
Mysore	403	188	88,543	20,163	1,08,706
Orissa	141	63	35,318	9,518	44,836
Punjab	430	218	54,244	467	54,711
Rajasthan	N.A.	121	30,889	2,203	3,30,092
Uttar Pradesh	986	675	1,87,756	2,964	1,90,720
West Bengal	1,976	868	6,77,670	53,638	7,31,308
Delhi	283	220	91,816	745	92,561
Himachal Pradesh	12	12	2,463	25	2,488
Andaman and Nicobar Islands	9	9	2,940	29	2,969
Tripura	30	19	5,361	2,357	7,718
Total	3,946	5,876	29,62,011	3,86,326	33,48,337
Grand Total of State & Central Unions	10,228	6,040	32,54,794	3,92,354	36,47,148

Number of Indians and non-Indians employed by foreign-owned/controlled companies on salaries on Rs. 1,000 and above from 1954 to 1959 as on 1st January. The first figure within brackets indicates Indians and the second non-Indians: 1954 (3,455; 7,008); 1955 (4,139; 6,810); 1956 (4,862; 6,566); 1957 (5,906; 6,025); 1958 (6,959; 5,652); 1959 (7,916; 5,304).

The membership of the four Central Trade Union Organisations recognised by the Central Government, *viz.* the Indian National Trade Union Congress, the All-India Trade Union Congress, the Hind Mazdoor Sabha and the United Trade Union Congress, was as follows:

Name of Organisation.	No. of Affiliated Unions		Membership	
	1957-58	1958-59	1957-58	1958-59
Indian National Trade Union Congress	727	885	9,10,221	10,20,653
All-India Trade Union Congress	807	814	5,37,567	5,07,654
Hind Mazdoor Sabha	151	185	1,92,948	2,41,636
United Trade Union Congress	182	172	82,001	90,629

* Bilingual.

TRADE UNIONS ACT, 1926

This Act was brought into operation with effect from 1st June 1927 and was slightly amended in 1928.

Apart from the necessary provisions for administration and penalties, the Indian Trade Unions Act, 1926, makes provision for three matters: (1) conditions governing the registration of trade unions; (2) the obligations to which a trade union is subject after registration; and (3) the rights and privileges accorded to registered unions. 'Trade Union' has been defined in such a way as to cover both combinations of workers and of employers but not of workers and employers. Persons under the age of 15 are debarred from membership of any registered union.

The administration of the Act is entirely on a State basis and each State Government is required to appoint a Registrar of Trade Unions. Any seven or more members of a union can apply for registration but no union can be registered unless at least fifty per cent of the executive consist of members actually engaged in the unit or group of units which the union proposes to cover.

The general funds of registered trade unions cannot be spent on objects other than those specified in Section 15 of the Act nor on political objects; but the Act makes provision for the creation of a separate political fund, subscription to which may be collected from such members as voluntarily desire to contribute to it. All registered unions are required to submit annually to the Registrar duly audited statements of accounts in prescribed forms together with changes in officers and the executive and a copy of the rules corrected up to date.

A registered trade union is immune from prosecution for criminal conspiracy in respect of an agreement, unless it is one to commit an offence, made between its members for the furtherance of a trade dispute or for restraint of trade and from any legal difficulties arising therefrom.

INDUSTRIAL DISPUTES ACT

The Act provides for the setting up of two types of organisations, namely, (1) Works Committees and (2) Industrial Tribunals for the prevention or settlement of disputes. It makes conciliation compulsory in all disputes in public utility services and optional in other cases.

Section 22 of the Act declares any strike or lock-out in a public utility service to be illegal if it is commenced or declared (i) without giving to the employer or employees, as the case may be, a notice of strike or lock-out in a prescribed manner, within six weeks before striking or declaring a lock-out, or (ii) within 14 days of giving such notice, or (iii) before the expiry of the date of strike specified in any such notice; or (iv) during the pendency of any conciliation proceedings before a conciliation officer and 7 days after the conclusion of such proceedings, etc. The Act also prohibits certain other strikes and lock-outs and declares them illegal if commenced or declared during the pendency of (i) conciliation

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proceedings before a Board and 7 days after the conclusion of such proceedings ; (ii) proceedings before a Tribunal and 2 months after the conclusion of such proceedings, or (iii) during any period in which a settlement or award is in operation, in respect of any of the matters covered by the settlement or award.

The Act was amended once in 1953 and twice in 1956. It now provides that no workman, who has been in continuous employment for more than a year, shall be retrenched unless he has been given a month's notice or wages in lieu thereof and also compensation calculated at the rate of 15 days' average pay for every completed year of service. If a workman who has put in more than a year's continuous service is laid off, he is required to be paid compensation which should be equal to 50 per cent. of the total of basic wages and dearness allowance for a maximum of 45 days in a year unless periods of lay-off after the first 45 days are of the duration of one week or more on each occasion.

According to a decision of the Supreme Court in November 1956 on retrenchment compensation, workers cannot, under the Act, claim compensation for retrenchment in case of *bona fide* closure of business or termination of their services by the employer on the business being sold to another employer.

The definition of the term "workman" has been extended to cover technical personnel and supervisory staff drawing upto Rs. 500 per month.

The machinery for adjudication of disputes has been recast and a three-tier machinery consisting of National Tribunals, Industrial Tribunals and Labour Courts is brought into being. Functions of these tribunals are demarcated and the importance of the dispute will determine which tribunal should adjudicate upon it. The tribunals are authorised to appoint experts having special knowledge as assessors to advise them. Schedules covering subjects which should go before each tribunal are attached to the Act.

Every employer who proposes to effect any change in the conditions of service of his workmen in respect of wages, hours of work, rationalisation, shift-working, increase or reduction in complement, etc. is required to give 3 weeks' prior notice to the workmen concerned.

The Act also provides for voluntary reference of disputes to arbitration by agreement between the employer and the workmen. Such a reference may be made to the Tribunals constituted under the Act.

All State Acts relating to the settlement or adjudication of disputes are expressly saved and the Industrial Disputes Act will not override them.

STATISTICS

While in 1958 the time-loss was 7·8 million man-days, it was 5·6 million in 1959 and 4·6 million in 1960.

As for 1959, there was a decrease of 27·8 per cent over the figure for 1958 in time-loss due to industrial disputes in the country.

The percentage distribution of industrial disputes by duration, however, did not show any marked variation from that in 1958 which was 8·4 days.

About 76·6 per cent of the total time-loss was accounted for by disputes in the manufacturing sector as compared with 51·9 per cent in the previous year. In this sector the time-loss recorded in the cotton mill industry was 26·3 per cent of the total. Next in order came cement (6·8 per cent) and jute mill industry (3·2 per cent). Mining and quarrying also recorded a considerable time-loss during the year accounting for nearly 10·9 per cent. Transport and communications accounted for 3·2 per cent of total time-loss.

About 67 per cent. of the work-stoppages did not last more than 5 days. The disputes which lasted for a month or more accounted for only about 10 per cent.

Classification of the disputes by causes shows that wages, allowance and personnel involved 41·4 per cent of the workers and 43·5 per cent of the man-days lost; bonus 14·3 per cent workers and 9·3 per cent of man-days; leave with wages 3·8 per cent. workers and 0·5 per cent man-days; retrenchment 2·0 per cent. workers and 4·8 per cent man-days; others 38·5 per cent workers and 41·9 per cent. man-days.

32·3 per cent. of the disputes during 1959 were unsuccessful from the point of view of the employees. 23·7 per cent. were decided in their favour, and 14·0 per cent. resulted in their favour partially. In about 30 per cent. of the disputes, employees resumed without any final decision having been reached. The percentage of 'indefinite' disputes increased to 30 per cent. from 23·7 per cent. in 1958.

About 40 per cent. of the disputes terminated as a result of Government's intervention. About 26 per cent. of disputes terminated through mutual settlement.

The following table sets out the number of disputes in some of the years since 1950, the number of persons affected by these disputes and the total time lost in man-days :

Year	Number of disputes	Number of workpeople involved	Number of man-days lost
1950 ..	814	719,883	12,806,704
1951 .	1,071	691,321	3,818,928
1952 ..	963	809,242	3,336,961
1953 ..	772	466,607	3,382,608
1954 ..	840	477,138	3,372,630
1955 ..	1,166	527,767	5,697,848
1956 ..	1,203	715,130	6,992,040
1957 ..	1,630	889,371	6,429,319
1958 ..	1,524	928,566	7,797,585
1959 ..	1,531	693,616	5,633,148

An analysis of the disputes for the year 1959 by State is given in the following table :—

State	No. of disputes	No. of workers involved	No. of man-days lost
Andhra ..	90	42,405	3,34,794
Assam ..	27	15,019	39,918
Bihar ..	127	47,288	3,23,888
Bombay† ..	299	1,99,681	6,64,244
Kashmir ..	9	443	3,101
Kerala ..	128	35,402	2,93,262
Madhya Pradesh ..	67	15,555	2,00,302
Madras ..	200	86,788	10,53,267
Mysore ..	78	56,274	3,11,265
Orissa ..	10	13,757	4,54,827
Punjab ..	21	4,258	11,479
Rajasthan ..	29	7,320	1,03,427
Uttar Pradesh	80	14,817	1,52,900
West Bengal..	330	1,42,767	16,42,735
Andaman & Nicobar Islands ..	4	1,730	5,013
Delhi ..	26	8,780	27,966
Himachal Pradesh ..	1	110	660
Tripura ..	5	1,222	10,100
Total ..	1,531	6,93,616	56,33,148

Time-loss per dispute was 3,679.

Time-loss per dispute by State was as follows : The figures show the number of days :—Andhra 1,691 ; Assam 2,797 ; Bihar 7,081 ; Bombay† 5,216 ; Kashmir 2,280 ; Kerala 5,138 ; M.P. 2,522 ; Madras 3,135 ; Mysore 5,781 ; Orissa 13,022 ; Punjab 725 ; Rajasthan 3,140 ; U.P. 1,138 ; W. Bengal 9,428 ; Andamans 9,594 ; Delhi 461 ; Tripura 2,227 ; Total 5,117.

Statistics presented in this section relate to industrial disputes which have resulted in work-stoppages involving 10 or more workers.

In March 1960 Government set up a tribunal to deal with the disputes between employees and management of banks consequent on the strike in the State Bank.

LABOUR APPELLATE TRIBUNAL

The Tribunal was abolished on May 31, 1959. The Law Commission has recommended that the Tribunal should be revived. This proposal is now under the active consideration of the Government of India.

The Industrial Disputes Amendments and Miscellaneous Provisions Act, 1956 abolished the Tribunal with effect from 1st September 1956. After that date no appeals were to be entertained. Pending appeals were however, to be disposed of by the Tribunal as if the Act had not been repealed.

COLLECTIVE AGREEMENTS

A description of some major collective agreements between employers and labour is given in the 1959-60 edition of the *Directory*.

WORKING JOURNALISTS' ACT

(See under article on the Press)

THE EMPLOYEES' PROVIDENT FUNDS ACT, 1952

The Employees' Provident Funds Scheme, 1952 framed under section 5(1) of the Employees' Provident Funds Act, 1952 came into force in its entirety with effect from 1st November, 1952.

The rate of contribution is 6¼ per cent of the basic wage and dearness allowance including cash value of food concession if any. The provisions of the amending Bill which has since been passed by both the Houses of Parliament will come into force shortly (Dec. 1960). It provides for deduction of provident fund contribution from retaining allowance usually paid in sugar factories and other seasonal establishments. The question of raising this rate to 8⅓ per cent is under consideration of the Government who have appointed a technical committee to examine which of the industries are able to bear the burden of the enhanced rate of contribution.

The Act initially applied to factories engaged in any of the following six industries :—Cement; Cigarettes ; Electrical, mechanical or general engineering products ; Iron and Steel ; Paper ; Textiles.

The Act has since then been extended to the following additional industries raising the total number of industries covered to 47 :—Edible oils and fats ; Sugar ; Rubber and rubber products ; Electricity including generation, transmission and distribution thereof ; Tea (except in the State of Assam where the Government of Assam have instituted a separate provident funds scheme for the Industry including plantations) ; Printing, including the process of composing types for printing, printing of letter-press, lithography, photogravure or other similar process or bookbinding, but excluding printing presses, covered under "newspaper establishments" to which the Employees' Provident Funds Act has separately been extended under section 15 of the Working Journalists (Conditions of Service) and Miscellaneous Provisions Act, 1955 ; Stoneware pipes ; Sanitary-wares ; Electrical porcelain insulators of high and low tension ; Refractories ; Tiles ; Match factories having a production of over 5 lakh gross boxes of matches a year ; Sheet glass factories, glass shell factories and other glass factories having an installed capacity of over 600 tons per month ; Heavy and fine chemicals, including fertilizers, turpentine, rosin, medical and pharmaceutical preparations, toilet preparations, soaps, inks, intermediates, dyes, colour lakes and toners and fatty acids, oxygen, acetylene and carbon-dioxide gases industry.

† Bilingual.

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The Act was actually enforced in oxygen, acetylene and carbon dioxide gases industry with effect from the 31st of July, 1957.

Indigo; Lac including shellac; Non-edible vegetable and animal oils and fats; Newspaper establishments; Mineral oil refining industry; Tea plantations (other than the tea plantations in the State of Assam); Coffee Plantations; Rubber Plantations; Cardamom Plantations; Pepper Plantations; Iron-Ore Mines; Limestone Mines; Manganese Mines; Gold Mines; Industrial and Power Alcohol Industry; Asbestos Cement Sheets Industry; Coffee Curing Establishments; Biscuit making industry including composite units making biscuits and products such as bread, confectionery and milk and milk powder; Road motor transport establishments, mica factories, mica mines, plywood industry, automobile servicing and repairing industry, cane farms owned by a sugar factory, rice milling, dal milling, flour milling.

The Act applies to all establishments engaged in any of the scheduled industries employing 50 or more persons (20 or more persons in the case of newspaper establishments) and having completed 3 years of their existence irrespective of whether they are owned by Government, a local authority or by private employer. The scope of the Act has now been extended to cover small establishments employing a minimum of 20 workers.

The amending Bill seeking to prescribe the employment strength for purpose of coverage to 20 or more has been passed by both the Houses of Parliament and its provisions will come into force shortly (Dec. 1960).

Qualifications for membership:—Basic wage, dearness allowance and cash value of food concession not to exceed Rs. 500 per month; and one year's continuous service or 240 days' actual work during a period of 12 months or less.

Employees working outside the precincts of a covered establishment in connection with its work and also those with emoluments exceeding Rs. 500 per month, if they apply for membership of the Fund with the consent of their employers, have now been brought within the ambit of the Scheme.

Where an establishment has its own Provident Fund, gratuity or pension scheme and if the total quantum of benefits is not less than that under the statutory Scheme, either such an establishment could apply for exemption under section 17(1) of the Act from the provisions of the Scheme or its employees as a class can opt out under para 27-A of the Scheme.

Full accumulations with interest are refunded in the event of death, permanent disability, superannuation, retrenchment or migration from India for permanent settlement abroad and also on leaving service for any reason after 15 years' membership. In other cases, the member's own share of contribution together with the interest thereon is refunded along with the employer's contribution depending upon the length of membership.

Under para 69(4) of the Scheme, the Central Government have also authorised full refund of employer's contribution in the following contingencies:—Where a factory is closed, the employees who are not retrenched but transferred by the employers to other establishments not covered under the Employees' Provident Funds Act; Where the office establishment is shifted with its employees from the factory premises; Where a member is transferred from a covered establishment to another under the same employer but not covered under the Act; Where employees are discharged and are given retrenchment compensation under the Industrial Disputes Act.

Advances from the Fund can be made for payment towards a policy of life insurance of the member; For serious or prolonged illness of a member or of a member of his family; for purchase of a dwelling house, a dwelling site or for construction of a dwelling house privately or under the subsidised housing schemes for industrial workers.

The Fund vests in the tripartite Central Board of Trustees. The Central Provident Fund Commissioner is the Chief Executive Officer. He is appointed by the Central Government and is subject to its general control and superintendence. He is assisted by fifteen Regional Provident Fund Commissioners one in each region.

In the following regions tripartite Regional Committees have been constituted to advise the Central Board of Trustees on matters referred to them:—Bombay,* Bihar, Madhya Pradesh, Madras, Uttar Pradesh and West Bengal.

A special reserve fund has been created to pay the provident fund accumulations to outgoing members or their heirs, where the employers have failed to pay the whole or a part of the provident fund contributions, to the fund and which were deducted from the wages of the members. A sum of Rs. 20 lakhs has been transferred to this fund from the reserve and forfeiture account of the fund. Initially, relief from this fund will be restricted to cases of death, permanent disability and superannuation.

Statistical data as on 30th November 1960:—

No. of industries covered: 47 (upto Dec. 1960).

No. of Covered establishments: 7,825.

No. of subscribers: About 28 lakhs (out of about 32·5 lakhs—about 86 per cent).

No. of workers getting benefit at end of Dec. 1960: 28·2 lakhs.

Amount of provident fund contributions: Out of Rs. 250·35 crores received a sum of Rs. 63·39 crores was paid as loans, advances, final settlement etc. leaving a balance of Rs. 186·96 crores. This amount includes interest.

No. of exempted and unexempted establishments covered by the Act upto end of Aug. 1960: 7,825. No. of subscribers in such establishments: 27·70 lakhs (ending Aug. '60); total accumulations of provident fund in such establishments: Rs. 180·24 crores.

Rate of interest paid at present on members' accumulations: 3¾ per cent.

Provident fund for workers in the coal industry was introduced by an Ordinance, namely, the Coal Mines Provident Fund and Bonus Schemes Ordinance, promulgated in December 1948. The Ordinance was later repealed by an Act which authorised the Central Government to frame a scheme for bonus and another for provident fund in coal mines.

The scheme applies to the coal mines, in Bihar, West Bengal, Orissa, Madhya Pradesh, Assam, Rajasthan and Andhra Pradesh.

The rate of contribution is one anna per rupee of the total of basic wages, dearness allowance and value of food concessions in cash or in kind. An equal contribution is paid by the employer. Accumulations with interest are refundable to the members or their nominees in the event of death, permanent disability retrenchment or migration from India for permanent settlement abroad, retirement after the attainment of 50 years of age, of the members. A portion of the employers' contribution and interest thereon are forfeited to the fund according to the period of membership.

Full accumulation with interest are also refunded in the event of death, retirement on attaining the age of 50 years, permanent disability and retrenchment.

Statistical data as on 30th Oct. 1960: Members enrolled till end of Oct. 1960: 12,72,832; actual subscribers during 1959-60: 3,49,101; total amount of C.M.P.F. contribution: Rs. 20,89,26,086·82 nP.; total Govt. securities punchased: Nominal value Rs. 23,63,51,400; cost price Rs. 22,93,39,843·23 nP.; total claims settled upto 31st Oct. '61: Rs. 1,09,279; total amount refunded: Rs. 1,84,81,117·91 nP.; amount of employers' contribution and interest thereon forfeited: Rs. 22,49,159·40 nP.; total no. of workers in whose cases employers' contributions have been forfeited: Rs. 62,102; rate of interest paid on members' accumulations: 4 per cent; monthly income and expenditure: Income Rs. 1,00,000; expenditure Rs. 50,000.

TEA DISTRICTS EMIGRANT LABOUR ACT

The Tea Districts Emigrant Labour Act, 1932, was brought into effect from the 1st of October 1933.

The forwarding of recruits to Assam must be made through the prescribed routes where arrangements for feeding, rest and medical treatment have been made and by authorised forwarding agents. It is made unlawful to assist persons under 16 to migrate unless they are accompanied by their parents or guardians. A married woman who is living with her husband may only be assisted to emigrate with the consent of the husband.

To start with, power was vested in the State Governments, subject to Central control, over recruitment as well as over the forwarding of assisted emigrants. Now this power is vested in the Central Government alone.

Repatriation.—It is provided that where an employer fails to make all the necessary arrangements for the repatriation of a worker within fifteen days from the date on which a right of repatriation arises to an emigrant labourer, the Controller may direct the employer to despatch such labourer and his family or to pay him such compensation as may be prescribed within such period as the Controller may fix (sections 13 and 15).

Section 3 of the Act makes provision for the appointment of a Controller of Emigrant Labour with some staff and possibly one or more Deputy Controllers for supervising the general administration of the system which the Act seeks to establish.

The cess is collected by the Controller by the sale of certificates of emigration. Every assisted emigrant has to be provided by the employing interest on whose behalf he was recruited with such a certificate. All particulars about the emigrant together with a running record of the details of his employment in Assam are given on it. Failure to provide a certificate is punishable with a fine which may extend to Rs. 500. The rate of the cess is fixed at Rs. 8.

According to the statistics collected under the Act the labour force in Assam in 1959 consisted of 157,479 men, 155,487 women and 22,847 minors representing 321 gardens out of 603.

In 1959 the number of adults recruited was 4,620 and of minors and dependents 2,056.

There has been a fall in recruitment since 1953. This fall is largely attributable to illicit recruitment as is evident from the fact that by occasional checks on the forwarding route 2,991 such cases were detected in 1959.

During 1959 the number of emigrants and their dependents repatriated was 27,892.

PLANTATION LABOUR ACT, 1951

The Plantation Labour Act was passed by the Government of India in 1951 with a view to ameliorating the working and living conditions of about 12 lakhs of workers employed in plantations. The Act applies to tea, coffee, rubber and cinchona plantations and the State Governments have been empowered to extend it to any other class of plantations.

Though the Act came into force on April 1, 1954 only such provisions as could be given effect to without framing rules became operative on that date. Only seven States have (Feb. 1960) so far framed the Plantation Labour Rules: Assam, Bihar, Madras, Mysore, Punjab, U.P., W. Bengal, Himachal Pradesh and Tripura. In Kerala both the Travancore Cochin and Madras Rules are in force.

* Bilingual.

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The Act fixes the maximum weekly hours of work for adults at 54 and for adolescents and children at 40. The daily hours of work are so arranged that they do not spread over including rest intervals and the time spent in waiting 12 hours a day. Grant of leave with wages at the rate of one day for every 20 days of work for adults and for every 15 days of work for young persons has been provided.

The more important provisions of the Act in respect of health and welfare relate to supply of drinking water, provision of housing and medical facilities, establishment of canteens, maintenance of creches and appointment of Welfare Officers.

The Act applies to plantations of 25 acres or more or where 30 or more persons are employed or were employed on any day during the preceding twelve months.

In the Second Plan Rs. 2 crores were allotted for welfare schemes.

Names of States showing within brackets the dates from which the plantation labour rules were effected in the respective States, the number of estates covered and the number of workers employed in the estates (1957 position):

Madras (Dec. 28, 1955; 261 estates; 79,489 workers).

Mysore (Oct. 1956; 705 estates; 78,000 workers).

Uttar Pradesh (March 30, 1957; 16 estates; 1,994 workers).

West Bengal (Dec. 1956; 283 estates; 1,37,281 workers). This relates only to the 172 estates which submitted returns.

Tripura (Sept. 12, 1955; 55 estates; 11,000 workers). The number of workers is approximate.

SHOPS AND COMMERCIAL ESTABLISHMENTS ACTS

Subject to certain exceptions the Acts apply to shops, commercial establishments, restaurants and places of amusement in certain selected urban centres. Some employees such as those employed in a confidential capacity and those whose work is of an intermittent character are excluded from the scope of the Acts.

The Bombay, Madhya Pradesh and Assam Acts have fixed daily hours of work at nine. In the U.P. and Madras Acts the daily hours are eight while in the West Bengal and the Punjab Acts a ten-hour day has been prescribed. Rest intervals, of half an hour are prescribed in the West Bengal, U.P. and the Punjab Acts while an hour's interval has been granted in the Assam, Bombay*, U.P. and Madras Acts. Opening and closing hours have also been fixed by the Acts. The Assam and West Bengal Acts, however, prescribe only closing hours. Most of the Acts also fix the maximum overtime work that can be taken from the employees. In some cases slightly different hours of work have been fixed for employees of commercial establishments, restaurants and places of amusement.

Provision has been made in all the Acts for weekly closure of shops and establishments although in some Acts, for example the Bombay and Assam Acts, theatres, hotels, etc. are exempted from this provision. In addition to the weekly holiday, provision for privilege leave of 12 to 15 days in a year has been made in all the Acts. The Assam, West Bengal, Madras and U.P. Acts make further provision for casual leave and sick leave of 10 to 12 days and 12 to 30 days respectively.

All the Acts, except the Bengal Act, have made provision for the regulation of employment of children and young persons. The minimum age for the employment of children in the Assam, and Madhya Pradesh Acts is 12 while in the Madras and U.P. Acts it is 14. The hours of work for children and young persons are 7 per day in the Punjab, Madras and Madhya Pradesh Acts and 6 in the Bombay* and U.P. Acts. Children cannot work after 7 p.m. according to the Bombay*, Madras and the Punjab Acts and after 9 p.m. according to the Madhya Pradesh Act.

By the Madras and U.P. Acts the wage period should not exceed one month and by the Punjab Act it should not exceed a fortnight. The Assam Act fixes the wage period at one month. After they become due wages should be paid within 10 days in Assam and West Bengal, 7 days in U.P. and 5 days in Madras. In the area covered by the Punjab Act wages should be paid on demand at the expiry of the wage period. Overtime wages are payable at twice the ordinary rates in Madras, U.P. and the Punjab, at one and a half times in Bombay* and the area covered by the Madhya Pradesh Act and at one and a quarter times the ordinary rate in West Bengal. Hotels, restaurants and other eating places in Bombay* are, however, required to pay overtime wages at twice the ordinary rate. Fines and deductions are regulated under the Madras and U.P. Acts.

One month's previous notice or one month's wages in lieu of notice before discharge is stipulated in the U.P., Punjab, Madras and Madhya Pradesh Acts. The Bombay* Act provides for only 14 days' notice or pay in lieu thereof. The Madras and Bombay* Acts make provisions relating to cleanliness, ventilation, lighting and precautions against fire in establishments covered by the Acts.

The Weekly Holidays Act, 1942 provides for a weekly closure of shops and for the grant of a weekly holiday to employees. The Act has been in force in the Bihar, Ajmer, Coorg, Orissa, Rajasthan, Vindhya Pradesh and Hyderabad areas.

The number of establishments and the number of persons employed by States for 1958 are given below. The first figure shows the number of establishments and second of persons employed :—

Andhra Pradesh 1,08,111; 83,655; Assam 5,936; 9,813; Bihar 7,961; 6,005; Bombay* 4,33,643; 6,52,336; Kerala 24,951; 48,350; Madhya Pradesh 65,676; 45,085; Madras 1,76,021; 2,19,010; Mysore 71,321; 80,556; Orissa 1,752; 6,756; Punjab 1,39,561; 75,168; Rajasthan 11,579; 7,299; West Bengal 1,84,573; 3,79,836; Andaman & Nicobar 219; 261; Delhi 47,367; 85,969; Himachal Pradesh 2,353; 1,435; Tripura 1,283; 2,016;

There was no information from Jammu and Kashmir, U.P. and Manipur.

INDUSTRIAL EMPLOYMENT (STANDING ORDERS) ACT, 1946

The Industrial Employment (Standing Orders) Act, 1946 which applies to industrial establishments employing 100 or more workers provides for the framing of Standing Orders laying down the conditions of employment of workers employed in the establishments.

The Act extends to the whole of India except the State of Jammu and Kashmir, and is administered both by the Central and State Governments.

So far as the Central Government is concerned it is responsible for administering the Act on railways, major ports, mines, oil-fields and other establishments under its control. Both the Central and the State Governments have been empowered to extend the scope of the Act to establishments in any industry employing less than 100 workers or to any other class or classes of establishments or to exempt any establishment from any of the provisions of the Act.

The total number of establishments coming within the purview of the Act at the end of 1958 was 12,352 of which 10,872 establishments with 32·68 lakh workers belonged to the State sphere and 1,480 with 6·06 lakh workers, to the Central sphere. The employment strength of all these establishments was about 38·74 lakhs.

The number of establishments which had certified Standing Orders in both the spheres at the beginning of 1958 was 5,797 which formed 46·9 per cent of the total covered. Of these 4,700 were in the State sphere and 1,097 in the Central sphere.

The percentage of workers having certified Standing Orders to the total number of employees came to 79·8.

COLLECTION OF STATISTICS ACT, 1953

This Act which replaces and embodies the main provisions of the Industrial Statistics Act is designed to facilitate the collection of statistics of certain kinds relating to industries, trade and commerce. It empowers the Central and the State Governments to direct that statistics shall be collected about—

(a) any matter relating to any industry or class of industries,

(b) any matter relating to any commercial or industrial concern or class of commercial or industrial concerns and in particular any matter relating to factories, and

(c) any of the following matters, so far as they relate to the welfare of labour and the conditions of labour, namely, (1) price of commodities, (2) attendance, (3) living conditions including housing, water supply and sanitation, (4) indebtedness, (5) rents of dwelling houses, (6) wages and other earnings, (7) provident fund and other funds, (8) benefits and amenities provided for labour, (9) hours of work, (10) employment and unemployment, (11) industrial and labour disputes, (12) labour turnover, and (13) trade unions.

The Central or State Government can appoint an officer to be the Statistics Authority for the purpose of collecting any statistics and such authority has the power to call upon the owner of an industrial or commercial concern to furnish the necessary information. He has also the right of access to any relevant records or documents in the possession of any person required to furnish the information and can enter any premises where he believes such records or documents are kept for the purpose of inspecting them or taking copies. The Act prescribes penalties for improper disclosure of information or returns or for wilfully furnishing false information.

WAGES

Central Wage Boards were set up for three industries—cotton, cement and sugar. All the three Boards have made their reports. (See under individual industry.)

The function of a Wage Board is to fix a wage structure on the principle of fair wages.

A steering group consisting of representatives of Government, employers and workers is engaged in drawing up a wage map of India both industry and region to serve as a guide for authorities who have to fix wages.

A census inquiry about wages is also in progress. Its object is to collect occupational wage rates. About 3,000 establishments are planned to be covered.

No serial statistics of wages and earnings are available in India except for those compiled under the Payment of Wages Act. The returns under the Act, however, relate only to persons in receipt of wages and salaries of Rs. 200 per month.

* Bilingual.

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AVERAGE ANNUAL EARNINGS OF FACTORY EMPLOYEES DRAWING LESS THAN Rs. 200 PER MONTH.
(Excludes the groups of food, beverages, tobacco, gins and presses.)

State	1956	1957	1958
Andhra Pradesh	594·9	1,030·8	708·1
Assam	1,525·9	1,833·6	1,223·0
Bihar	1,235·6	1,299·2	1,283·2
Bombay†	1,414·8	1,452·6	1,458·0
Kerala	735·9	805·0	..
Madhya Pradesh	982·4	1,138·7	1,217·1
Madras	950·1	978·9	..
Mysore	852·5	967·3	..
Orissa	948·5	956·8	981·0
Punjab	991·0	955·3	1,212·2
Rajasthan	769·6	907·1	944·1
Uttar Pradesh	1,014·1	1,077·5	1,213·4
West Bengal	1,141·6	1,173·6	1,198·9
Andaman & Nicobar Islands	688·8	657·1	1,017·4
Delhi	1,466·9	1,493·4	1,329·7
Tripura	854·3	933·0	1,147·1
Average	1,186·8	1,233·9	1,295·2

† Bilingual.

MINIMUM WAGES AND DEARNESS ALLOWANCE IN THE COTTON MILL INDUSTRY FOR A STANDARD MONTH OF 26 WORKING DAYS

Period	Bombay	Ahmedabad	Sholapur	Baroda	Indore	Nagpur	Madras	Kanpur	West Bengal
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Min. Basic wages	30·00	28·00	26·00	26·00	30·00	26·00	26·00	30·00	28·17
D.A.									
Average 1955	64·75	54·71	40·98	49·36	42·84	40·18	41·45	43·34	30·00
,, 1956	68·75	63·94	57·68	57·37	48·00	46·86	47·75	51·76	30·00
,, 1957	74·00	71·31	63·22	64·17	55·31	51·35	51·13	55·80	30·00
,, 1958	81·58	75·31	44·01	67·78	55·17	54·99	55·84	58·48	31·25
,, 1959	86·42	89·03	46·74	80·21	60·61	63·18	61·41	59·60	32·50
*1960 January	89·15	95·77	50·44	86·19	65·81	66·62	64·31	57·66	32·50
February	89·70	91·53	50·44	82·38	65·81	66·76	63·94	57·81	32·50
March	88·60	88·84	55·12	79·56	65·81	66·62	65·25	59·06	32·50
April	87·45	85·00	55·12	76·50	62·44	66·56	64·87	58·44	32·50
May	89·45	82·30	55·12	80·50	62·44	66·56	64·87	58·28	32·50
June	89·45	82·69	60·06	74·42	62·44	66·82	66·00	57·97	32·50

The cotton mill industry has been chosen for the figures because it serves as a reference in industrial questions.

* The figures do not include the increase granted pursuant to the implementation of the recommendations of the Central Wage Board for Cotton Textile Industry.

The Chief Inspector of Mines in his Monthly Coal Bulletin publishes figures of average weedly cash earnings* of certain categories of workers in different coalfields. The position in Dec. 1959 (the latest available information) is given in the table below:

AVERAGE WEEKLY CASH EARNINGS* IN COAL MINES DURING DECEMBER 1959.

Category	Assam	Raniganj		Jharia	Madhya Pradesh	Orissa	Bombay (Bilingual)	Andhra	Rajasthan	Indian Union
		West Bengal	Bihar							
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Underground										
Overmen and Sirdars	39·06	38·10	36·31	37·54	43·48	42·15	35·05	37·78	21·33	38·43
Miners and Loaders	21·11	22·75	20·81	23·51	21·58	20·05	20·59	22·96	19·25	22·77
Others	18·12	20·70	19·98	21·69	19·45	19·32	19·02	21·50	16·34	20·71
Open Cast-Workings										
Overmen and Sirdars	30·00	30·74	25·58	30·81	30·35	..	..	..	..	30·73
Miners & Loaders	16·17	22·32	22·17	20·33	21·62	..	..	..	..	20·94
Others — Men	16·73	19·78	18·38	17·66	21·78	..	..	..	..	19·02
Others — Women	16·70	18·84	18·81	17·80	22·24	..	..	..	..	18·67
Surface										
Clerical & Supervisory Staff	39·82	37·46	31·40	45·06	44·07	41·28	35·80	41·43	20·46	41·30
Men	16·70	19·87	18·29	19·75	19·20	16·66	16·20	19·39	17·09	19·46
Women	14·82	18·47	18·11	20·23	17·13	18·31	14·69	20·89	17·68	19·17
Overall	19·87	21·95	20·65	22·73	21·21	19·84	19·64	22·57	17·63	22·02

* Obtained by dividing the total cash earnings for the week by the daily employment during the week.

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SHARE OF LABOUR

The Study Group on Wages appointed by the Central Government has prepared a paper on the share of labour in factory output. The available data covers the period 1948 to 1953 beyond which year it was not possible to carry forward the estimates.

The percentage share of workers' earnings in net value of factory output (29 major industries) was as under for different States :

PERCENTAGE SHARE OF WORKERS' EARNINGS IN NET VALUE OF FACTORY OUTPUT (29 MAJOR INDUSTRIES)

	1948	1949	1950	1951	1952	1953
All India	42·43	54·27	49·20	45·14	52·87	50·64
Assam	39·34	43·99	60·46	56·44	64·13	53·45
Bihar	41·32	41·81	37·51	44·81	37·89	41·60
Bombay*	44·52	57·72	47·30	47·24	59·51	59·05
Madhya Pradesh ..	47·83	72·72	59·31	53·23	50·94	54·60
Madras	39·42	43·04	49·55	42·32	49·74	47·96
Orissa	41·81	49·22	39·64	32·89	35·15	29·09
Punjab	43·35	49·73	46·48	41·02	48·08	45·13
Uttar Pradesh	38·56	52·25	44·25	44·32	47·87	48·06
West Bengal	48·69	58·68	45·05	44·42	47·59	49·83
Delhi	37·41	58·26	56·48	42·16	51·69	46·05

* Bilingual.

This table shows that Bombay had the highest percentage for workers' share and Orissa the lowest.

The following table shows the percentage share of workers' earnings in net value of factory output for 7 major industries :

PERCENTAGE SHARE OF WORKERS' EARNINGS IN NET VALUE OF FACTORY OUTPUT (7 MAJOR INDUSTRIES)

	1948	1949	1950	1951	1952	1953
Sugar	26·96	18·44	24·11	29·81	27·59	28·73
Paper and Paper Products	39·11	38·08	38·58	30·13	30·60	30·26
Jute Textiles	55·86	60·20	52·01	42·68	57·57	29·47
Iron and Steel	39·72	34·01	38·42	46·56	42·23	35·64
General & Electrical Engineering	50·07	53·04	50·52	45·68	50·01	53·05
Cement	27·38	29·64	25·78	26·31	21·32	23·31
Cotton Textiles	46·22	64·68	64·97	53·84	66·45	62·42

The State-wise distribution of the above figures shows that for the Cement Industry the share was highest for Uttar Pradesh and lowest for Bombay.

In the Paper Industry the figures for Bombay and West Bengal were comparatively stable while in Uttar Pradesh and Madras they were not. The share in the jute industry was generally highest but Madras was an exception. As regards the Iron and Steel Industry workers in the Punjab fared the best, those in Bihar the worst. In the Cotton Textile Industry no consistent trend in the inter-State variations was noticeable but Bombay,* Madhya Pradesh and Uttar Pradesh were generally in the vanguard.

An interesting departure from normal practice was recently suggested by the Ministry of Labour.

The Union Ministry of Labour and Employment has recommended that all State-owned industrial undertakings should try to increase productivity by introducing the system of payment by results as recommended by the Planning Commission.

The Labour Ministry circulated a memorandum in November 1957 directing those Ministries of the Government of India employing industrial labour to investigate the possibilities of bipartite agreements at the unit level in all industrial undertakings under their control to give effect to this system of payment of wages.

The Planning Commission had recommended that in addition to a basic minimum wage, all extra earnings of the workers should be based on a piece-rate system to step up productivity.

The Commission added, however, that adequate measures should be taken to avoid fatigue and undue speed-up of production.

A piece-rate scheme has been functioning for some years with success in Bombay port and has been extended to Madras. The private sector has made a beginning, notably at the Tata Steel Works, Jamshedpur.

At Jamshedpur, where the piece-rate scheme was introduced after the 1958 strike, it was made clear that wages could be stepped up only in line with increasing production.

DEARNESS ALLOWANCE

The scale of the allowance varies not only from centre to centre and industry to industry, but also, except where these matters are adjudicated upon, from unit to unit in the same industry at the same centre.

Several Adjudicators have granted dearness allowance either at the Bombay Millowners' Association scale which was Rs. 85·85 in January 1961, or at a percentage, varying from 66⅔ per cent to 85 per cent, of that scale. The rate of dearness allowance payable to Bombay City cotton mill workers itself was increased by a decision of the Labour Appellate Tribunal by 5 per cent when the Bombay Cost of living Index Number is between 326 and 335 ; by 7½ per cent when it is between 336 and 350 ; and by 10 per cent when it is above 350. The enhanced rate was given retrospective effect from May 1953 ; the average dearness allowance for a month of 26 working days comes to Rs. 89·25 for 1960.

INDEX OF EARNINGS (1939 = 100)

Year	All India Consumer Price Index	Factory workers		Miners	
		Index of earnings	Index of real earnings	Index of earnings	Index of real earnings
1950	371	334·2	90·1	391·9	105·6
1951	387	356·8	92·2	413·0	106·7
1952	379	385·5	101·8	436·9	115·3
1953	385	384·6	99·9	437·4	113·6
1954	371	381·2	102·7	441·9	119·1
1955	356	403·5	113·3	451·5	126·8
1956	390	411·7	105·6	593·0	152·1
1957	412	431·0	104·6	660·8	160·2
1958	430	424·2	98·7	704·6	163·9

CENTRAL PAY COMMISSION

On 21st August 1957, the Government of India appointed a 6-member Commission of Enquiry under the Chairmanship of Mr. Justice B. Jagannath Das, Judge of the Supreme Court to examine the structure of emoluments and conditions of service of Central Government employees and recommend changes therein.

The Commission submitted its report to Government in August 1959 and the report was published for general information in November 1959.

The main recommendations of the Commission are as follows :—

(*a*) The minimum remuneration should be increased from Rs. 75 to Rs. 80 per month.

(*b*) Dearness allowance should be paid at the rate of Rs. 10 to employees whose basic pay is below Rs. 150 and at Rs. 20 if the pay is between Rs. 150 and 300.

(*c*) Typical scales of pay have been recommended for all services and posts.

(*d*) The age of superannuation should be 58 years for all classes of public servants.

* Bilingual.

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(*e*) The rate of gratuity should be changed so as to make the maximum amount available on completion of 30 years' qualifying service.

(*f*) All employees should subscribe at least at 6¼ per cent of their pay to a General Provident Fund.

(*g*) The revised scales of pay and dearness allowance should be given effect to from 1st July 1959.

(See detailed note under 'Late Particulars').

The Central Wage Board for the Cotton Textile Industry appointed by the Government of India on 30th March 1957, to evolve a wage structure based on the principles of fair wages as enunciated in the Fair Wages Committee's Report, has submitted its report to Government. The Board consisted of two independent members, two representatives each of the employers and workers with an independent Chairman.

The Wage Board for the Cement Industry, whose composition was similar to that of the Cotton Wage Board, has also submitted its report to Government. Both these reports have been accepted by the Central Government and have been published.

The Wage Board for the Sugar Industry recommended an interim relief in February 1959. Later, the Board has recommended a basic minimum wage of Rs. 60 for unskilled workers in the industry throughout the country. The Board's decisions were to take effect from November 1, 1960.

The Industrial Committee on Jute had resolved that Wage Board for the Jute Industry should be appointed.

The Government of India have constituted a Central Wage Board for the Jute Industry consisting of the following: L. P. Dave (*Chairman*); G. L. Oza, M.P., Dr. P. Prasad (*Independent Members*); D. C. Pilkinton, Dr. D. P. Gonekor (*Employers' Representatives*); Inderjit Gupta, M.P., Kali Mukerjee (*Workers' Representatives*).

Terms of Reference of the Board: (*a*) To determine the categories of employees (manual, clerical, supervisory, etc.), (*b*) to work out a wage structure based on the principles of fair wages as set forth by the Committee on Fair Wages, (*c*) to bear in mind the desirability of extending the system of payment by result, and (*d*) to work out the principles that should govern the grant of bonus if any to workers in jute industry.

The Board has recommended an interim relief that every worker employed in jute industry shall be paid interim relief at the rate of Rs. 2·85 per month from 1st Oct. 1960 to 31st Dec. 1960 and at the rate of Rs. 3·42 from 1st Jan. 1961.

COST OF LIVING

The Government of India has sponsored family budget inquiries—the enquiry started in Sept. 1958—covering factory workers, miners and plantation labour with a view to compiling a new series of consumer price index numbers on a uniform basis.

It is stated that the existing series of consumer price index numbers are based on old and out-of-date inquiries and, therefore, do not reflect correctly the present cost of living of industrial workers.

The enquiry is undertaken by the Labour Bureau of the Central Government with the help of the National Sample Survey Organisation which will do the field work.

The survey will take about a year to complete. The selected centres are:

Factory Centres: Digboi, Jamshedpur, Monghyr, Jamalpur, Bombay, Ahmedabad, Nagpur, Bhavnagar, Sholapur, Bhopal, Indore, Gwalior, Madras, Madurai, Coimbatore, Guntur, Hyderabad, Sambalpur, Kanpur, Varanasi, Saharanpur, Calcutta, Howrah, Asansol, Bangalore, Alwaye, Alleppey, Amritsar, Jamunanagar, Jaipur, Ajmer, Delhi and Srinagar.

Mining Centres: Jharia, Kodarma, Naomundi, Balghat, Gudur, Barbil, Raniganj and Kolar Gold Fields.

Plantation: Labac, Rangapara, Mariani, Doomdooma, Coonoor, Darjeeling, Jalpaiguri, Chikmagalur, Ammathi and Mundakkayam.

INDEX FIGURES

Consumer Price Index Numbers for Working Class (Excluding Labour Bureau Series) for 1959.

(*Base August* 1949 = 100).

State	Bombay*					Madras	Mysore			Andhra	Kerala		Uttar Pradesh
Centre	Bombay	Ahmedabad	Sholapur	Jalgaon	Nagpur	Madras City	Bangalore	Mysore	Kolar Gold Fields	Hyderabad City	Ernakulam	Trichur	Kanpur
1959													
January	129	121	108	114	127	130	134	131	133	126	119	125	103
February	130	121	109	115	129	127	134	133	136	126	118	123	103
March	131	117	107	112	129	125	135	134	137	127	120	123	99
April	130	119	105	112	130	128	137	134	139	124	121	125	95
May	132	124	110	114	131	131	138	135	139	123	123	127	95
June	135	125	113	116	132	134	140	137	140	128	124	134	97
July	136	127	115	118	133	134	141	141	141	133	124	134	97
August	137	125	116	117	134	134	142	144	142	132	123	132	98
September	137	129	117	117	135	134	143	145	141	132	124	135	97
October	139	131	122	121	135	137	143	147	141	134	124	133	98
November	138	130	121	119	136	139	144	146	142	136	125	132	99
December	137	125	121	116	136	137	144	144	143	133	122	128	96

* Bilingual.

The consumers price index figures for some other centres from 1953 to 1959 are given below with 1949 = 100 as base.

Year	Delhi	Ajmer	Jamshedpur	Jharia	Dehri-on-Sone	Monghyr	Cuttack	Berhampur	Gauhati	Silchar	Tinsukia	Ludhiana	Akola	Jabalpur	Kharagpur	Mercara	Madras Plantation Centres	Bhopal	Beawar	Satna
1953	106	104	112	104	102	91	107	101	102	95	108	90	96	100	101	..	120	97	90	..
1954	105	91	102	82	85	78	100	101	95	93	103	90	89	93	93	100	104	91	83	86
1955	99	83	98	77	82	89	99	97	87	86	99	84	79	88	92	94	93	87	78	77
1956	109	95	106	87	95	88	106	108	96	99	110	92	94	100	102	104	102	98	91	91
1957	114	99	115	99	108	99	110	108	103	105	118	96	96	107	109	114	108	101	95	99
1958	113	103	123	108	104	102	116	115	103	107	118	96	101	109	113	121	118	111	100	104
1959	120	106	125	108	100	97	118	115	98	109	117	101	109	108	110	125	125	116	105	102

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EMPLOYMENT AND TRAINING

Many of the larger and more progressive concerns have Labour Officers who are directly responsible for all new recruitment.

The Millowners' Association, Bombay conducts special classes for the training of Mill Labour Officers and actively supervises and controls the work done by all such Officers where they have been appointed through the Association. Following the example of the Millowners' Association, Bombay, the University of Calcutta, in co-operation with the Indian Jute Mills Association, has a special course of social work for giving suitable training to Labour Welfare Officers engaged in jute mills. Among other institutions imparting training for Labour Officers mention may be made of the Tata Institute of Social Sciences, Bombay; Institute for Training of Welfare Workers, Bombay; Delhi School of Social Work, Delhi; Institute of Social Sciences, Banaras; Xavier Labour Relations Institute, Jamshedpur; Department of Labour and Social Welfare, Patna University; J. K. Institute of Sociology and Human Relations, Lucknow University; and the training course conducted by the Madhya Bharat Millowners' Association, Indore.

Employment

The Directorate-General of Resettlement and Employment set up by the Government of India periodically conducts training course for Employment Officers. Intensive training is given during such courses on employment exchange work and procedure as well as the collection of employment market information and administration of Vocational Guidance and Adult Counselling.

Employment Exchanges

The number of exchanges was to be increased from 135 at the commencement of the Second Five Year Plan to 330 by the end of the Plan—to provide in course of time an exchange in each District as recommended by the Shiva Rao Committee.

The number of Exchanges functioning in Nov. 1960 was a little over 300 which includes 5 University Employment Bureaux* and one Special Exchange for the Handicapped.

Under the existing rules recruitment to all Central Government posts and services except those within the purview of the Public Service Commission or those for which special methods are prescribed is made through the exchanges. With the Employment Exchanges (Compulsory Notification of Vacancies) Act coming into force on May 1, 1960 private employers have to notify certain categories of vacancies and furnish staff strength returns at regular intervals to Employment Exchanges.

Government has also devised a scheme for the collection of employment market information so as to be in a better position to advise on future manpower requirements. The collection of employment market information in respect of the private sector has commenced in 82 selected employment market areas in different States. The collection of information in respect of the public sector is being collected all over the country including Jammu and Kashmir.

D.G.R.E. has, in fact, as one item on the programme, the collection and dissemination of occupational information. A National Classification of Occupations containing standard and alternative titles, definition and description of all occupations in the country has been published under this programme. Information useful for young persons and school-leavers on various careers are also being prepared as a part of this programme. Eighty-five pamphlets on careers have been published in English and 82 in Hindi and are available for sale at the nominal price of 5 nP. per pamphlet at all Employment Exchanges and establishment selling Government publications. Another publication issued by the D.G.R.E. is the handbook on Training Facilities which contains training facilities, both inplant and institutional, available throughout the country. Separate State volumes giving training facilities in each State have also been brought out.

The number of registered unemployed was 15,84,868 in September 1960. This was 2,983 less than the figure at the close of the previous month. 24,718 persons were helped to secure jobs. 47,147 vacancies were notified. Of the placements, 5,768 were under the Central Government, 12,840 under the State Governments and 3,621 under quasi-Government establishments.

In 1960 over 14,800 women sought employment opportunities through the exchanges every month. On an average 1,740 women were provided jobs every month.

WORKING OF THE EMPLOYMENT EXCHANGES IN INDIA

1959-60	No. of exchanges at the end of the month	No. of registrations during the month	No. of applicants placed in employment during the month	No. of applicants on the live registers at the end of the month†	No. of employers using the exchanges	No. of vacancies notified during the month
1959‡	230	2,05,704	22,594	13,14,204	7,470	35,366
1960						
January	253	1,93,515	22,106	14,25,589	7,633	33,214
February	258	1,75,591	22,256	14,00,965	7,635	32,959
March	270	1,85,310	22,430	13,87,525	7,832	35,757
April	274	2,10,341	21,052	14,05,510	8,332	43,603
May	274	2,14,528	26,113	14,23,700	8,527	48,104
June	276	2,60,270	28,422	14,61,925	8,953	41,456
July	276	3,10,825	28,869	15,63,562	9,209	51,303
August	276	2,54,602	30,011	15,87,851	9,475	45,124
September	276	2,22,196	24,718	15,84,868	9,111	47,147

* The Universities are Delhi, Calcutta, Kerala, Varanasi and Aligarh. † At the end of 1960 the number on the live register was a little over 16 lakhs. ‡ Average for 1959.

There is a Working Group of the National Employment Service consisting of reprenentatives of the Government of India and representatives of Governments of States. This meets periodically to review Employment Exchanges procedures and to effect such changes as are warranted by the experience gained in the working of the Employment Exchanges in all the States.

The Central Government has doubled the strength of the pool constituted for temporary placement of well-qualified scientists and technologists returning from abroad, to 200 (Aug. 1960).

Rural Employment Bureau

The scheme for setting up employment information and assistance bureau in selected community development blocks has been put into operation (Nov. 1960). These bureaus will disseminate information regarding employment opportunities and be a link between the rural employment seekers and the employment exchange in the districts.

Training of Craftsmen

Before the start of the Second Plan there were 59 industrial training institutes in the country where training was imparted in 29 engineering and 20 non-engineering trades. The number of seats was 8,622 in engineering and 1,912 in non-engineering trades, thus making a total of 10,534 seats. To meet this increased need of trained craftsmen during the Second Plan, about 31,600 more seats were sanctioned bringing the total seating capacity to 42,134 at the existing institutes as well as at the new institutes. 98 new institutes had been sanctioned during the Second Plan bringing the total number of institutes to 157. It is proposed to add another about 55,000 seats with 150 new institutes during the Third Five Year Plan.

Bisides, there are two other schemes, viz., National Apprenticeship Scheme and the scheme for the Evening Classes for Industrial Workers. During the Second Five Year Plan about 2,000 seats under each of these schemes had been sanctioned. It is proposed to increase the seating capacity of these two schemes by 14,000 and 12,000 seats respectively. The object of the former scheme is to provide apprenticeship training to the persons with a view to enabling them to find suitable jobs in the industry and that of the latter is to improve the theoretical knowledge of the workers by providing training in Evening Classes. Certain salient features of the schemes mentioned above are as given below :—

(1) *Craftsmen Training Scheme :* The period of training extends to two years in engineering trades and one year in non-engineering trades. 12½ per cent of the seats are reserved for scheduled caste candidates and 5 per cent for those belonging to the scheduled tribes. Training is free and no fees of any sort are charged from the trainees. A stipend of Rs. 25 p.m. each is awarded to about 33⅓ per cent of the trainees. Successful trainees are awarded Trade certificates of the N.C.T.V.T.

(2) *National Apprenticeship Scheme :* Training is given free and each trainee is awarded a stipend of Rs. 40 p.m. during the period of training. The period of training extends from 3-5 years.

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(3) *Evening Classes for Industrial Workers:* Selected workers attend these classes after their hours of work and an examination is given at the end of the course. Successful candidates become eligible for a certificate.

(4) *Training of Craft Instructors:* In May 1948, a Central Institute was set up at Koni-Bilaspur in Madhya Pradesh for the training of instructors. The seating capacity was for training 120 in the beginning.

The duration of training in each trade extends at present to five and a half months and it has since been decided to extend it further to nine months. Admission to the institute is open to instructors deputed by the Central and State Governments, to those nominated by private industrial concerns and educational institutions and to private candidates who have already qualified in one of the trades and who desire to take up the profession of instructors. Training is given free to Government nominees. Those deputed by private industrial concerns and educational institutions are charged Rs. 10 p.m. and private candidates Rs. 15 p.m. Proficiency certificates are awarded to Instructor-trainees on the results of an examination held on completion of their courses.

In April 1955, a Central Training Institute for craft women instructors' training was started in the industrial training institute for women at Curzon Road, New Delhi. Its seating capacity is proposed to be increased from 32 to 112 in the Third Five Year Plan.

During Second Plan the seating capacity of the Central Training Institute at Koni-Bilaspur in Madhya Pradesh was raised to 258 and it was decided to permanently locate this institute at Calcutta with a seating capacity of 400. The training with 100 seats, in the first instance, was expected to commence at Calcutta in January 1961, with 9 months training course and the entire institute was to shift to Calcutta during 1961 and the first training course with 400 seats will start from Oct. 1961. Another institute has been established temporarily at Aundh-Poona with 144 seats, pending construction of a permanent one at Bombay. It is now proposed to transfer the institute from Aundh to Bombay in July 1962 and the attached industrial training centre for craftsmen trainees is proposed to be established there in February 1962.

During the Third Five Year Plan, it is proposed to establish four more Central Training Institutes for Instructors at Kanpur, Madras, Hyderabad and Ludhiana and to reorganise and expand the Central Training Institute for Instructors for Women, New Delhi. The Institute at Kanpur was being established from January 1961 with a seating capacity of 152 and its seating capacity is proposed to be increased to 324 before the close of the Third Plan. The C.T.I. at Madras has proposed to have a seating capacity of 244. With the implementation of these schemes the seating capacity of craft instructors will increase from 544 at the end of the Second Plan, to 1,844 at the end of the Third Plan.

Training of Principals and Inspecting Officers: The Government of India have established a refresher course of training for the principals of various Industrial Training Institutes and Inspecting Officers to keep them up-to-date on matters both administrative and technical connected with the training of craftsmen. Three courses have so far been arranged at C.T.I., Aundh (Poona).

(5) *National Council for Training in Vocational Trades:* Government of India have set up the National Council for Training in Vocational Trades.

It is a Central body, tripartite in character with representatives from industry, labour and government, as members for co-ordinating training programme in the country with a view to setting down uniformity of standards and lay down policies in respect of matters connected with different types of training. The Council operates through committees and sub-committees in regard to various training programmes.

Special emphasis is being laid on the affiliation of private training centres, so as to make the best use of the existing training facilities in the country.

Trade tests on all-India basis are being organised under the aegis of National Council for Training in Vocational Trades. Papers are set and moderated by experts from industry. The tests in the institutions are also conducted by experts drawn from industry. In the year 1958-59, 11,088 trainees passed from the various institutions all over India.

It is estimated that the first four years of the Second Plan have created 4·5 to 5 million jobs as against the Plan target of 6·5 million. The back-log at the end of the Second Plan would be between 7·5 and 8 million people. The number of new entrants into the labour market during 1961-66, that is, the Third Plan would be 14·5 million.

WOMEN LABOUR FORCE

(A note on this is given in the 1959-60 *Directory.*)

EMPLOYMENT IN FOREIGN COMPANIES

The position in regard to employment of Indians and non-Indians on salaries of Rs. 1,000 and above in foreign-owned/controlled concerns on the 1st January each year was as follows :—

Year	Indians	Foreigners	Total
1948 ..	742	6,360	7,102
1949 ..	1,085	6,709	7,794
1950 ..	1,406	6,871	8,277
1951 ..	1,784	6,953	8,737
1952 ..	2,290	7,104	9,394
1954 ..	3,455	7,008	10,463
1955 ..	4,139	6,810	10,949
1956 ..	4,862	6,566	11,428
1957 ..	5,906	6,025	11,921
1958 ..	6,959	5,652	12,611
1959 ..	7,916	5,304	13,220

The percentages of the total "wage-bill" paid to Indians and non-Indians in each of the five salary groups are given in the table below :

Salary Groups	Indians	Non-Indians	Total
Rs. 1,000 to Rs. 1,500	16·1	3·1	19·2
Rs. 1,501 to Rs. 2,000	8·5	5·3	13·8
Rs. 2,001 to Rs. 3,000	8·2	14·5	22·7
Rs. 3,001 to Rs. 5,000	4·3	22·2	26·5
Rs. 5,001 and above	0·9	16·9	17·8
Total (All Salary Groups)	38·0	62·0	100·0
	(Rs. 108·44 lakhs)	(Rs. 176·97 lakhs)	(Rs. 285·41 lakhs)

Of the total of 5,652 foreigners employed in foreign controlled concerns in 1958, 4,927 (87·2 per cent) were British. Americans constituted 3·5 per cent, their number being 200 in 1958. Italians, Germans, Australians, Chinese, Norwegians and Ceylonese had recorded small increases in their number as against a diminution in the number of Britishers, Americans, Swiss, Greeks, Danish, French, New Zealanders, Dutch, Swedish, Austrians, Czechs, Japanese and Pakistanis.

ABSENTEEISM

One of the commoner complaints of Indian industrialists has been the high percentage of absenteeism and the large labour turnover in Indian factories, mines, etc.

ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA

(Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Cotton Mill Industry							Woollen Industry	
	Bombay	Ahmedabad	Sholapur	Madras	Madura	Coimbatore	Kanpur	Kanpur	Dhariwal
1952	12·7	8·8	20·2	9·7	10·5	10·3	11·7	9·4	6·3
1953	12·6	9·4	20·5	9·3	10·9	8·2	12·3	11·0	5·0
1954	10·8	8·7	17·4	9·1	11·0	8·8	12·4	10·7	5·2
1955	8·2	6·8	18·0	6·6	12·2	9·9	12·8	10·6	5·0
1956	8·3	6·5	18·4	6·2	13·0	11·4	11·1	7·3	5·2
1957	7·1	6·8	16·0	7·0	13·2	11·3	13·0	8·5	4·8
1958	7·0	7·1	13·6	7·4	18·5	12·3	13·1	8·5	6·1
1959	7·3	6·6	13·4	7·7	13·4	11·3	10·7	6·9	7·9

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ABSENTEEISM IN MANUFACTURING INDUSTRIES IN INDIA—*Contd.*
(Percentage of man-shifts lost to man-shifts scheduled to work)

Period	Engineering Industry		Telegraph Workshops	Tramway Workshops	Iron and Steel Industry	Ordnance Factories	Cement Factories	Match Factories	Leather Industry
	Bombay	West Bengal	All India	All India	All India	All India	All India	All India	Kanpur
1952	13·4	10·3	9·0	10·6	10·9	9·4	11·5	10·6	9·2
1953	13·7	10·8	10·1	7·0	10·9	9·9	11·9	10·1	9·2
1954	14·9	1·7	12·0	7·1	12·0	11·8	12·1	10·4	9·8
1955	15·6	12·8	12·1	7·2	11·4	12·4	11·7	10·6	10·1
1956	14·6	12·5	12·9	8·1	11·6	12·4	12·2	10·1	11·2
1957	14·6	12·5	12·9	7·8	12·7	12·1	12·5	11·8	10·0
1958	14·5	12·2	12·3	8·0	14·0	11·6	11·9	11·7	9·4
1959	14·5	12·3	—	—	—	—	—	—	7·1

EMPLOYEES' STATE INSURANCE CORPORATION

Head Office : 2A-3, Asaf Ali Road, New Delhi.

Region :

Delhi : B-9, Pusa Road, New Delhi 5.

Kanpur : 7-202, Swarup Nagar.

Bombay : E.S.I.C. Building, Colaba Causeway, Bombay 5.

Madras : 2, Sir Desikachari Road, Madras 4.

Calcutta : 64, Ganesh Chandra Avenue, Calcutta 13.

Indore : 65, Race Course Road, Indore.

Jaipur : Station Road, Jaipur.

Hyderabad : Mushirabad, P.O. Hyderabad 20.

Trichur : Madhavi Mandir, Sankara Iyer Road, Trichur.

Amritsar : 1016A-XIII, Circular Road, Amritsar.

Bangalore : 13, Kumara Park East Extension, Bangalore 1.

Patna : Salimpur Ahra, Patna 3.

Gauhati : Dr. D. Bhujan's Building, Dr. Bhubaneshwar Barooah Road, Gauhati.

Cuttack : 10, Cantonment Road, Cuttack 1.

Ahmedabad : Gomtipur Road, Ahmedabad 10.

The Employees' State Insurance Corporation came into existence as an autonomous body with the passing of the Employees' State Insurance Act in 1948, which applies to all non-seasonal factories using power wherein 20 or more persons work. All employees employed directly or through an immediate employer on any work of the factory whether in a manual or non-manual capacity, on a remuneration not exceeding Rs. 400 per month, are covered by this Act. The Corporation is entrusted with the administration of the Act, whereas a Standing Committee acts as the executive of the Corporation. On matters concerning administration of medical benefit, certification and the like, the Corporation is advised by a Medical Benefit Council. All these bodies are tripartite in character *i.e.* they include representatives of industrial workers, employers and the Government. The Scheme is contributory.

The Scheme at present provides for medical care for the insured persons and in some areas for their families also and sickness, maternity, disablement and dependants' benefit in cash.

The year 1960 saw implementation of the Scheme in Fort Cochin, Mattancherry, Ballia-patam, Cannanore, Tellicherry in Kerala State, Brajrajnagar, Chawdwar, Barang, Rajgangpur and Cuttack in Orissa. Perianaickenpalayam, Peelamedu, Sivakasi, Rajapalayam, Dalmia-puram in Madras, Rajnandgaon in Madhya Pradesh, Hubli in Mysore, Sirpur, Adoni and Kakinada in Andhra Pradesh, Dalmianagar, Japla, Banjari and Dhanbad in Bihar, Udaipur and Bharatpur in Rajasthan, and Shyampur Police Station in West Bengal. Families were also covered for medical care in the areas of Cuttack, Rajgangpur, Brajrajnagar, Chowdwar, Barang, Dalmianagar, Barjari, Japla, Hubli, Sirpur, Adoni, Kakinada, Udaipur, Bharatpur, Dhanbad, Rajnandgaon and Nagpur.

The Scheme covered an additional number of 81,450 employees and 213,400 family units during 1959-60. A sum of about Rs. 3,05,00,000 was disbursed by way of cash benefits during 1959-60.

The Scheme has been enforced in the Union Territory of Delhi and all States except Gujarat (Dec. 1960). The benefit provisions of the E.S.I. Act were extended to about 5,000 workers in Meerut, Moradabad and Firozabad in U.P. from the midnight of March 25, 1961. During 1960-61 the Act was extended to cover about 16 lakh workers in 112 centres. One-third of this number has been covered along with their families.

In Assam, Bihar and West Bengal about 24 to 50 per cent of insurance workers have been covered while in other States the coverage ranges between 50 and 100 per cent.

As on Oct. 30, 1960 the scheme covered 51,76,850 employees in over 100 industrial centres. By the end of March 1962, the scheme would cover an additional 6,61,750 persons—both employees and family units.

The Mahatma Gandhi Memorial Hospital, a 600-bed hospital at Parel, Bombay, exclusively for the benefit of industrial workers insured under the E.S.I. Scheme and estimated to cost Rs. 115 lakhs is nearing completion and will be declared open on Oct. 2, 1961.

During the Second Plan it was proposed to implement the scheme in every industrial centre which has a concentration of 1,500 factory workers, thus carrying the benefits of the scheme to about 2,200,000 employees.

Total receipts of Corporation for 1959-60 : Rs. 7,87,37,163·81. Total benefits : Rs. 5,25,61,301·49. Administrative Expenses : Rs. 90,14,889·84. Employees' Contribution : Rs. 4,08,09,251·63. Employers' Contribution : Rs. 3,18,53,731·01.

Budget estimates for 1961-62 : Receipts Rs. 10,62,78,000 ; expenditure Rs. 10,32,16,000 ; surplus Rs. 30,62,000.

The rates of contribution payable in respect of an employee have been fixed as follows :—

Group of employees	Employees' contribution (recoverable from employees)		Employers' contribution		Total contribution (employees' and employers')	
	Rs.	nP.	Rs.	nP.	Rs.	nP.
1. Employees whose average daily wages are below Re. 1	*Nil*		0	44	0	44
2. Employees whose average daily wages are Re. 1 and above but below Rs. 1-50	0	12	0	44	0	56
3. Employees whose average daily wages are Rs. 1-50 and above but below Rs. 2	0	25	0	50	0	75
4. Employees whose average daily wages are Rs. 2 and above but below Rs. 3	0	37	0	75	1	12
5. Employees whose average daily wages are Rs. 3 and above but below Rs. 4	0	50	1	00	1	50
6. Employees whose average daily wages are Rs. 4 and above but below Rs. 6	0	69	1	37	2	06
7. Employees whose average daily wages are Rs. 6 and above but below Rs. 8	0	94	1	87	2	81
8. Employees whose average daily wages are Rs. 8 and above	1	25	2	50	3	75

The insured persons are entitled to the following benefits : (*i*) sickness benefit, (*ii*) maternity benefit, (*iii*) disablement benefit, (*iv*) dependents benefit and (*v*) medical benefit.

Amounts (Rs.) distributed under some heads for 1959-60* are as follows :—

State	Maternity	Temporary Disablement	Sickness	Dependent Benefit
Andhra Pradesh	82,039	50,000	5,15,000	3,600
Assam	—	3,000	21,000	—
Bihar	1,737	12,000	1,40,000	—
Bombay (Greater)	5,26,693	8,77,000	87,76,000	6,96,100
Bombay (Vidarbha)				
Delhi	24,167	26,000	3,59,000	
Kerala	6,332	1,02,000	8,34,000	15,700
M.P.	1,27,883	44,000	7,43,000	14,000
Madras	75,283	1,19,000	11,48,000	16,100
Mysore	3,76,023	2,02,000	29,15,000	1,07,300
Punjab	52,815	61,000	7,44,000	—
Rajasthan	3,036	38,000	1,77,000	40,700
U.P.	21,781	21,000	1,96,000	15,800
W. Bengal	3,049	1,56,000	13,85,000	69,000
Total	58,734	4,90,000	36,47,000	48,600
	13,59,572	22,01,000	2,16,00,000	10,26,900

* Subject to audit.

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The areas covered, the date of implementation and the date of extension of benefit to families —all these State-wise are shown below :—

Andhra : Hyderabad and Secunderabad (May 1, 1955 ; Jan. 26, 1959) ; Chittivalsa, Eluru, Guntur, Mangalagiri, Vishakapatnam, Nellimarla, Vijayawada (Oct. 9, 1955 and Jan. 26, 1959) ; Warrangal (Nov. 15, 1959 and Feb. 14, 1960) ; Sirpur (March 27, 1960)—48,000 (No. of persons covered upto the end of 1959-60).

Assam : Gauhati, Dhubri, Dibrugarh, Tinsukia-Makun (all 28th Sept. 1958 and 28th Dec. 1958)—4,150.

Bihar : Patna, Monghyr, Katihar, Samastipur (all 15th Dec. 1957 ; 2nd Oct. 1958) ; Banjari, Dalmianagar, Japla (March 27, 1960)—28,000.

Bombay (Greater) : Bombay (Oct. 3, 1954)—5,90,000.

Bombay (Vidarbha) : Nagpur (11th July 1954), Akola and Hinganghat (27th May 1956)—35,000.

Delhi : (24th Feb. 1952 and 1st July 1959)—66,000.

Kerala : Alleppey, Quilon, Trichur including Alagappanagar, Alwaye, Udyogamandal including Ernakulam (all 16th Sept. 1956), Trivandrum (31st Aug. 1958), Feroke, Kozhikode (12th July 1959), Fort Cochin including Mattancherry (3rd Jan. 1960)—52,000.

Madhya Pradesh : Gwalior (23rd Jan. 1955 and 15th Feb. 1959), Indore (23rd Jan. 1955 and 26th Jan. 1959), Ujjain (23rd Jan. 1955 and 1st March 1959), Ratlam (23rd Jan. 1955 and 1st March 1959), Burhanpur (2nd Sept. 1956 and 15th Feb. 1959), Jabalpur (29th Sept. 1957 and 26th Jan. 1959), Bhopal, Nagda (27th Sept. 1959 and 27th Dec. 1959)—80,000. The scheme was extended to Rajnandgaon from Sept. 24, 1960 and 3,200 more factory workers will get medical benefits.

Madras : Coimbatore (23rd Jan. 1955), Madras (20th Nov. 1955), Madurai, Tuticorin, Vikramsingapuram including Ambasamudram (all on 28th Oct. 1956), Salem including Mettur, Tirupur including Udumalpet (all on 30th Nov. 1958), Peelamedu, Periyanayakanpalayam, Rajapalayam, Sivakasi (all on 28th Feb. 1960), Dalmiapuram (27th March 1960)—1,80,000.

Mysore : Bangalore (27th July 1958 and 10th Oct. 1958), Hubli (27th March 1960 and 26th Oct. 1960)—66,000.

Orissa : Barang, Brajrajnagar, Choudwar, Cuttack, Rajgangpur (31st Jan. 1960)—23,000.

Punjab : Amritsar including Verka, Batala, Chheharta, Bhiwani, Jullunder, Ludhiana, Yamunanagar including Abdullapur, Jagadhri and Ambala (17th May 1953 and 1st Nov. 1958), Khasa (10th May 1959 and 9th Aug. 1959), Dhariwal (29th Nov. 1959 and 28th Feb. 1960)—46,500.

Rajasthan : Bhilwara, Bikaner, Jaipur, Jodhpur, Lakheri, Pali Marwar (2nd Dec. 1956 and 2nd Oct. 1958), Beawar (27th Oct. 1957 and 2nd Oct. 1958), Sawai Madhopur (2nd March 1958 and 2nd Oct. 1958), Dholpur, Sri Ganganagar (29th March 1959 and 28th June 1959)—30,000.

Uttar Pradesh : Kanpur (24th Feb. 1952), Kalyanpur, Allahabad, Rampur, Varanasi (31st March 1957), Agra, Lucknow, Saharanpur (15th Jan. 1956), Aligarh, Bareilly, Hathras, Shikohabad (30th March 1958), Ghaziabad, Modinagar, Mirzapur, Sahjanwa (29th March 1959), (Date of extension of medical care for families—14th Nov. 1959 in all the above cases)—1,65,000.

W. Bengal : Calcutta City and Howrah Dt. (14th Aug. 1955)—3,00,000.

SOCIAL SECURITY REPORT

There is a report by a Study Group on Social Security published in Dec. 1958.

A summary of this is given in the 1959-60 edition of the *Directory*.

ACCIDENTS

The Indian Factories Act requires the manager to report all accidents which cause death or bodily injury whereby the person injured is prevented from returning to his work in the factory during the 48 hours next after the occurrence of the accident.

It is the duty of the Inspector of Factories to make an investigation as soon as possible into the causes of and the responsibility for a fatal or serious accident, and to take steps for the prosecution of the person concerned if it is found that the death or serious injury resulted from any infringement of the provisions of the Act or of the rules framed under the Act.

The Department of Mines has been strengthened to facilitate more frequent inspection of mines. As an emergency measure, the Coal Mines (Temporary) Regulations, 1955 have been promulgated for the prevention of apprehended danger and for the speedy remedy of the conditions likely to cause danger. The entire codes of coal and non-coal mines regulations are being revised to provide for more comprehensive measures for safety in mines.

Figures for the years 1951 to 1958 are given in the table below.

Year	FACTORIES			MINES		
	Fatal	Non-Fatal	Total	Fatal	Non-Fatal	Total
1951	234	75,713	75,947	425	2,658	2,993
1952	257	91,033	91,290	453	3,887	4,340
1953	256	93,431	93,687	388	4,286	4,674
1954	267	92,709	92,976	407	4,491	4,898
1955	274	1,16,010	1,16,284	377	4,385	4,762
1956	278	1,28,177	1,28,455	335	4,281	4,616
1957	346	1,31,149	1,31,495	261	3,732	3,993
1958	369	1,36,031	1,36,400	504	3,925	4,429

From 1951 to 1954 the non-fatal accidents in mines represent 'serious accidents'.

WELFARE ACTIVITIES

Welfare work is undertaken by the Central Government, the State Government, private employers and trade unions.

HOUSING

The total provision for industrial housing under the Second Plan as originally earmarked was Rs. 45 crores. As a result of the re-appraisal of the Plan, this figure had to be curtailed to Rs. 27 crores. However, it was decided that projects under this scheme may be sanctioned upto a total of Rs. 37 crores to enable advanced planning of the construction of houses, provided the actual expenditure during the plan period did not exceed Rs. 27 crores. A sum of Rs. 10·87 crores was utilised by various constructing agencies during the first three years of the Second Plan period. A sum of Rs. 7·22 crores had been provided for the construction of houses under the scheme during 1959-60. The remaining amount of Rs. 8·91 crores was expected to be available for utilisation in the fifth year of the plan.

Administrative sanction was accorded for 1,16,101 houses out of which construction of about 85,000 houses was completed by the end of 1959, the remaining being at various stages of construction. Since September 1952 when the Subsidised Industrial Housing Scheme was launched upto the end of 1959, a sum of Rs. 23·8 crores (Rs. 11·1 crores as loans and Rs. 9·7 crores as subsidy) was disbursed to various constructing agencies. The total number of houses constructed during the First Plan was 77,000.

The measures taken by Government for popularising the scheme include increasing the loan assistance to 50 per cent in case of employers and 65 per cent in case of co-operative societies against assistance of 37½ per cent and 50 per cent respectively originally provided ; raising the cost of construction to a maximum of Rs. 3,300 for one-room tenements in places other than Bombay and Calcutta ; provision of short-term loans to State Governments for acquisition and development of land ; giving employers the option to pay loans either in 15 or 20 years. However, these steps have not succeeded in evoking any appreciable response from employers. The subject was considered at the last Housing Ministers and Indian Labour Conferences and it was agreed that the proposal to enact suitable legislation to compel the employers should be seriously considered in case the employers continue to show inadequate response.

OTHER AMENITIES

Section 47 of the Factories Act, 1948 makes it obligatory for all factories employing more than 150 workers to provide adequate shelters and a suitable lunch room for the use of workers during periods of rest. Almost all large industrial establishments had provided tiffin rooms and rest shelters for their workmen. Most concerns had also permitted the establishment of tea stalls on the premises but apart from this, little effort had been made to run co-operative canteens on the lines of those which are associated with most of the large factories in the West.

The Act of 1948 provides for the setting up of creches in factories that employ more than 50 women.

Except for the Ahmedabad Textile Labour Association, the Railwaymen's Unions, and the Mazdoor Sabha of Indore, labour unions have not done much by way of labour welfare. This has been due largely to lack of funds. Some of the Railwaymen's Unions have organised co-operative societies, and various kinds of funds for the provision of specific benefits, such as, legal defence, death and retirement benefits, unemployment and sickness benefits and life insurance, etc.

Labour welfare centres exist in most States.

Other types of welfare work done by factories relate to the provision of recreational facilities, amenities for the education of workers and their children, the provision of cost price grain shops, the establishment of co-operative societies, etc.

On railways there are educational facilities for the children of the employees mostly free of charge. Staff Benefit Funds have also been created which give monetary help to the children and widows of the deceased employees.

Medical facilities provided by employers range from first-aid posts and dispensaries to first-class hospitals.

COAL MINES WELFARE FUND

This Fund was constituted under the Coal Mines Labour Welfare Fund Act of 1947 for financing measures for promoting the welfare of labour employed in the coal mining industry. The principal objects for which this fund is to be utilised are : (1) the improvement of standards of living including housing and nutrition, the amelioration of social conditions and the provision of recreational facilities for the benefit of the labour employed in the coal mining industry ; (2) the provision of transport to and from work ; (3) the improvement of educational facilities ; (4) the provision and improvement of supplies of water ; and (5) the improvement of public health and sanitation, the prevention of disease, the provison of medical facilities and the improvement of existing facilities. The Fund is administered by the Central Govt. on the advice of an Advisory Committee consisting of Government Officers and an equal number of members

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representing colliery owners and workers employed in the coal mining industry with at least one woman.

Miners in about 900 collieries derive benefit from the Fund.

The main source of income to the Fund is a cess levied on all coal and coke despatched from collieries by rail and road. The Government has decided to increase the cess from 36·9 nP. per metric ton to 49·21 nP. with effect from Jan. 1, 1961: (Dec. 1960). The income of the Fund which was Rs. 1·63 crores during 1959-60 was expected to be Rs. 1·80 crores during 1960-61.

The Fund is maintained under two accounts, *viz.*, Housing Account and General Welfare Account. The money in the former account is utilised for providing housing accommodation to colliery workers and that in the latter on other general welfare measures. Up to 1956-57 the cess was apportioned between the Housing Account and the General Welfare Account in the ratio of 2 : 7. With effect from April 1, 1957 the ratio has been changed to 31 : 6 with a view to providing more funds for the Housing Account.

Two modern well-equipped hospitals of 250 beds each for specialised treatment one in Bihar and the other in West Bengal are functioning. A deep X-ray Therapy Section and a Blood Bank have been provided at the latter. A net work of Regional Hospitals—with facilities for maternity treatment has been provided at Katras and Tisra in the Jharia Coalfields, Chora and Searsole in Raniganj Coalfields, Naisarai and Phusro in the Hazaribagh Coalfields and Jamai and Dhanpuri in Madhya Pradesh Coalfields where another hospital is also under construction.

Besides the maternity and child welfare facilities provided in the hospitals, about 50 centres are also run through Mines Boards in Bihar and West Bengal in addition to 3 centres run by the Fund in Madhya Pradesh, Andhra Pradesh and Orissa Coalfields. Six more centres are to be provided in Madhya Pradesh and Assam Coalfields.

Facilities provided for the treatment of T.B. include 49 beds maintained by the Fund in Clinic or Hospital and 86 beds reserved in various Sanatoria in Bihar, Madhya Pradesh, Andhra Pradesh and Assam. A scheme of domiciliary treatment has been introduced in Bihar, West Bengal, Madhya Pradesh, Andhra Pradesh and Rajasthan Coalfields.

In addition to free treatment the Fund gives grants-in-aid for special diet up to a maximum of Rs. 50 per month per patient for a maximum period of 6 months. Subsistence allowance up to Rs. 50 is also paid to dependents of each T.B. patient under treatment for a maximum period of 6 months. Two 100 bedded T.B. blocks as adjuncts to the two Central Hospitals are under construction.

Two allopathic and 13 ayurvedic dispensaries are run in various coalfields. Two mobile medical units by Colliery owners are paid annual grants-in-aid for maintaining dispensary services of the prescribed standard and interest-free loan is also given to them for building and equipping dispensaries.

Fifty-four beds are maintained for the treatment of leprosy cases at three Leprosy Hospitals run by voluntary organisations in Bihar and West Bengal. Supply of X ray plants to colliery hospitals and of artificial limbs, dentures and spectacles free of cost to miners are also made by the Fund.

Free advice on family planning is given and contraceptives supplied free of cost at the Funds hospitals. Two more family planning clinics, 10, urban and 20 rural clinics are to be opened shortly (Dec. 1960). A scheme for payment of grants-in-aid to colliery owners for family planning work has been introduced.

The Malaria Control Operations of the Organisations have been switched over to eradication programme. Filaria survey is being carried out.

Miners' Institutes each comprising a Welfare Centre for women and children and an Adult Education Centre for miners are maintained—29 in Bihar, 10 in West Bengal, 9 in Madhya Pradesh, 7 in Andhra Pradesh, 2 each in Chanda and Orissa and 1 in Assam. Over 80 Feeder Adult Education Centres are also being run. Four Mobile Cinema Units have been provided, 2 in Bihar and one each in Raniganj and Madhya Pradesh coalfields.

Award of scholarships to the children of colliery workers at Rs. 20 per month per scholar for higher general education and Rs. 30 per month per scholar for technical education, grants-in-aids to educational institutions, organising games and sports, miners' welfare weeks and health weeks in different coalfields are some of the other welfare measures on the educational and recreational side. All-India Coalfield sports meet and All-India Coalfield Football Tournament are also being arranged.

A little over 2,100 houses for miners were constructed by the Fund in the beginning under its township scheme. Under the subsidised housing schemes introduced later, about 3,700 more houses have been constructed. A new housing scheme envisaging the construction of about 30,000 houses direct by the Fund has now been introduced. Upto end of Aug. 1960, construction of 11,463 houses had been completed and construction of 6,017 more houses was in progress. A sum of Rs. 26 crores had been invested.

Other Welfare measures include a scheme of financial assistance to the wives and school-going children of those colliery workers who die of accidents in mines, provision of a Holiday Home for miners at Rajgir, running of a Special Train for Bharat Darshan, provision of rehabilitation centres for disabled colliery workers and cured T.B. patients, etc.

The Fund Organization is also responsible for enforcement of Coal Mines Pithead Bath Rules, 1946 and Mines Creche Rules, 1959, which required provision of pithead baths and creches at collieries by their owners.

The Govt. of India have constituted a Court of Inquiry to examine the question of abolition of contract labour in the coal mining industry.

No. of subscribers to the The Coal Mines Provident Fund Scheme was about 3·49 lakhs in 1959-60. Total accumulations at the end of Oct. 1960. about Rs. 20·89 crores.

Mica Mines Labour Welfare Fund.—The Mica Mines Labour Welfare Fund Act, 1946, which was designed to constitute a similar fund for the benefit of mica workers, provides for the levy of an *ad valorem* duty not exceeding 6¼ per cent on all mica exported from India. The Govt. of India apportions the cess so realised annually among Bihar, Andhra Pradesh, Rajasthan and other States. Under the Act Advisory Committees for Bihar, Madras, and Rajasthan were constituted.

In Bihar, the Fund has provided the following facilities for the Welfare of mica miners:—

Medical Facilities: A 70 bedded Central Hospital, attached with a T.B. Ward of 12 beds; 6 Static Dispensaries; 3 Mobile Medical Units; 2 Maternity and Child Welfare Centres; 2 Ayurvedic dispensaries; 10 beds for the Mica miners and their family members suffering from T.B. at the Mahadevi Birla T.B. Sanatorium, Ranchi.

Educational and Recreational Facilities: 6 Primary schools; 6 Miners' Institutes; 2 Community Centres; 6 Feder Centres; 2 Mobile Cinema Units; Provision of 22 Radio Sets at different mines; Provision of Scholarships to miner's children for technical and general education; Excursion-cum-Study tour of mica miners.

Departmental Wells: 9 (14 are under construction).

Other Welfare Activities: Payment of financial assistance to dependents of mica miners who die from accidents in mines; Payment of subsistence allowance to mica miners suffering from T.B. and undergoing treatment at the Funds Clinic or at the Sanatorium; a Unit is maintained for carrying out anti-malaria programmes in the mica fields.

Andhra-Pradesh: The percentage share of cess is 18·5. The income and expenditure of the Mica Mines Labour Welfare Fund in Andhra Pradesh in 1959-60 was Rs. 2,05,233 and Rs. 3,26,511 respectively.

Facilities provided by the Fund: Medical: A 14 bedded hospital at Kalichedu, two dispensaries at Sydapuram and Talupur, a mobile dispensary at every mine, four maternity centres at Kalichedu, Talupur, Sydpuram and Utukur.

Educational and recreational: One high School and six elementary schools; midday meals to children of mica mine labourers, free books, slates, dress, etc. to the children, two boarding homes at Kalichedu and Sydapuram, scholarships to the children, two community centres at Kalichedu and Shah mine, nine radio's and 11 recreation clubs.

Wells: Three wells by the Fund and six at subsidised rates.

Financial Assistance is granted to the widows of deceased labourers who die from accidents in mines and also to the dependents of the deceased.

Iron Ore Labour Welfare Fund: A proposal to set up the above fund on the pattern of the Coal Mines Labour Welfare Fund was approved by the tripartite industrial committee on mines other than coal at a meeting at Delhi on 24th April 1961.

AGRICULTURAL LABOUR

A second all-India agricultural labour enquiry ended in Sept. 1957.

The report was placed on the table of Lok Sabha on December 21, 1960. The first enquiry was conducted in 1950-51.

The first agricultural Labour Enquiry was conducted in 1950-51 and, as the Report states, one of the main objects of the Second Enquiry was broadly to assess the impact of developmental schemes undertaken under the First Plan on the conditions of agriultural labourers as between 1950-51 and 1956-57.

The results thrown up by the Second Enquiry as compared to those of the First Enquiry are briefly given below: The findings of the first enquiry are given in the 1960-61 Directory.

Occupational structure of agricultural labour households

(*i*) The estimated number of agricultural labour households was 16·3 millions in 1956-57 as against 17·9 millions in 1950-51 i. e. a fall of 1·6 millions.

(*ii*) The landless agricultural labour households in 1956-57 accounted for 57 per cent of the total as against 50 per cent in 1950-51.

(*iii*) According to the 1950-51 Enquiry, the proportion of attached and casual agricultural labour households was 10 : 90. The results of the 1956-57 Enquiry showed that attached labour households accounted for about 27 per cent of the total for all-India, the remainder being casual labour households.

(*iv*) The average size of the agricultural labour household rose slightly to 4·40 in 1956-57 from 4·30 in 1950-51. The average number of wage earners was 2·03 per household, comprising 1·13 men, 0·74 women and 0·16 children. The corresponding figures for 1950-51 were 2·0 wage earners, made up of 1·1 men, 0·8 women and 0·1 children. The slight increase in the earning strength during 1956-57 would appear to be due to more children having come to the labour market in 1956-57.

(*v*) The estimated number of agricultural labourers during 1956-57 was 33 millions composed of 18 million men, 12 million women and 3 million children. The corresponding figures for 1950-51 were 35 millions consisting of 19 million men, 14 million women and 2 million children.

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Employment and Unemployment

(*i*) Casual adult male workers were employed, on an average, for wages for 200 days in 1950-51 and for 197 days during 1956-57. They were self-employed for 75 days in 1950-51 and for 40 days in 1956-57.

(*ii*) Casual adult female workers were employed on wages for 134 days during 1950-51 and for 141 days during 1956-57.

(*iii*) As regards children, their wage-employment had increased from 165 days in 1950-51 to 204 days in 1956-57.

(*iv*) Casual adult male workers were unemployed for 128 days in 1956-57, as compared to 90 days in 1950-51.

According to the Report, measurement of employment was not meticulously done in the First Enquiry (1950-51). Wage-employment for half the day or more was counted as full day's occupation and less than that was ignored. All those who worked even for a day in a month were taken to have been gainfully employed. In respect of unemployment, data were collected only for those adult male labourers who reported wage-employment in each month. In the Second Enquiry (1956-57), four intensity classes were laid down, namely, full, half, nominal and nil. A full-day's work meant three-fourth or more of the normal working hours, the "norms" being 10 hours. More than one-fourth and less than three-fourth of the normal hours was considered as work with half intensity. Less than one-fourth was deemed as work with one-eigth intensity. In the tabulation of employment data, the intensities were duly taken into account.

Self-employment data were not collected separately in the First Enquiry, but were only of an inferential nature, as the residual days left after deduction of wage-employment and unemployment from 365 days were taken to represent the quantum of self-employment.

Wages

(*i*) About 76 per cent of the average income of agricultural labour households was derived from wage-employment in agricultural operations as well as from non-agricultural occupations during 1950-51 as against 81 per cent during 1956-57. About 56 per cent of the man-days worked were paid for in cash in 1950-51 and 48·7 per cent in 1956-57. Payments made entirely in kind accounted for 31·3 per cent in 1950-51 and 40·5 per cent in 1956-57. Wage payments made partly in cash and partly in kind related to 9·8 per cent of the total man-days worked in the First Enquiry and formed 10·8 per cent in the Second Enquiry.

(*ii*) The average daily wage rate of adult male workers decreased from 109 nP. in 1950-51 to 96 nP. in 1956-57 and, the average daily wage-rate of adult women also fell from 68 nP. in 1950-51 to 59 nP. in 1956-57. Child labour received an average wage of 70 nP. in 1950-51 and 53 nP. in 1956-57.

(*iii*) In comparing the average wage-rates obtaining in 1956-57 and 1950-51 the difference in imputation procedure of payments in kind as between the First and Second Enquiries, and the relative importance of payments in kind at both the points of time have to be kept in mind, since evaluation of kind payments was done at wholesale prices during 1956-57 as against ruling retail prices during 1950-51.

(*iv*) The estimated wage-bill in agriculture worked out to roughly Rs. 520 crores in 1956-57 as against Rs. 500 crores in 1950-51. The increase was mainly due to the proportion of attached labour households being considerably higher (above 27 per cent) in 1956-57 as compared with 1950-51 (about 10 per cent), and the average annual income per attached labour household as also of all households taken together from agricultural wage-employment in 1956-57 being higher than in 1950-51.

Household income

(*i*) The average annual income of an agricultural labour household in 1950-51 was Rs. 447, while in 1956-57 it was Rs. 437.

(*ii*) The average income realised from different sources during the First and Second Enquiries by agricultural labour households is given below:

Source of income	1950-51	1956-57
	Rs.	Rs.
Cultivation of land ..	59·90	30·07
	(13·49)	(6·87)
Agricultural labour ..	286·97	319·55
	(64·02)	(73·04)
Non-agricultural labour..	53·19	34·94
	(11·09)	(7·99)
Others	46·94	52·91
	(10·51)	(12·10)

Figures in brackets are percentages to total income from all sources.

Income from farming and non-agricultural labour declined during 1956-57 but that from agricultural labour had increased.

Consumption and cost of living

(*i*) The average annual consumption expenditure of agricultural labour households increased from Rs. 461 in 1950-51 to Rs. 617 in 1956-57. The percentage expenditure according to different consumption groups is given below for 1950-51 and 1956-57:

Period	Food	Percentage to total		
		Clothing and footwear	Fuel and lighting	Miscellaneous and services
1950–51	85·3	6·3	1·1	7·3
1956–57	77·3	6·1	7·9	8·7

(*ii*) The average income per household during 1956-57 was Rs. 437 while average consumption expenditure was Rs. 617. The deficit was thus Rs. 180. This deficit, to a considerable extent would seem to have been met from past savings, sale of stocks, remittances received and loans.

Indebtedness

(*i*) About 64 per cent of agricultural labour households was indebted during 1956-57 as against 45 per cent in 1950-51. The average accumulated debt per household increased from Rs. 47 in 1950-51 to Rs. 88 in 1956-57.

(*ii*) The average debt per indebted household also rose from Rs. 105 in 1950-51 to Rs. 138 in 1956-57. One of the reasons for the higher percentage of indebted households as also the higher volume of debt in 1956-57 was the higher proportion of attached labour households, some of whom were under debt bondage and/or tie-in-allotment.

(*iii*) The total estimated volume of indebtedness of agricultural labour households in 1956-57 was Rs. 143 crores as against Rs. 80 crores in 1950-51.

(*iv*) Of the total debt, about 46 per cent was incurred for meeting the consumption expenditure. Social purposes accounted for 24 per cent and productive purposes for 19 per cent, the remaining 11 per cent of the total debt being incurred for meeting the expenditure on other miscellaneous items.

(*v*) Of the total loan, 34 per cent was taken from money-lenders, 44 per cent from friends and relatives, 15 per cent from employers, 5 per cent from shop-keepers and one per cent from co-operatives.

The above is the all-India picture. In the Report, however, the variations in the different States have also been given and significant differences as between 1950-51 and 1956-57 highlighted and accounted for.

Below we give some relevant tables:

The table below shows the average number of days worked by casual male workers in a year:

State and Zone	Wage employment	Self-employment	Unemployment
Central Zone	252	53	60
Uttar Pradesh	280	37	48
Madhya Pradesh	213	75	77
Eastern Zone	216	70	79
Bihar	198	82	85
West Bengal	232	40	93
Orissa	237	75	53
Assam	242	53	70
Manipur	98	145	122
Tripura	283	3	79
Southern Zone	172	73	120
Andhra Pradesh	157	76	132
Madras	178	80	107
Kerala	194	46	125
Western Zone	171	71	123
Bombay *	181	47	137
Mysore	155	112	98
Northern Zone	143	105	117
Rajasthan	156	110	99
Punjab	109	91	165
Delhi	188	87	90
Himachal Pradesh	179	121	165
Jammu & Kashmir	204	46	115
All-India	200	75	90

* Bilingual.

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Below we show the average daily wages in nP.:

Adult Men.

State, Zone	Agricultural operations	Non-agricultural operations
Central Zone	100	106
Uttar Pradesh	118	116
Madhya Pradesh	79	93
Eastern Zone	124	114
Bihar	126	110
West Bengal	166	153
Orissa	72	76
Assam	186	180
Manipur	113	110
Tripura	220	210
Southern Zone	101	83
Andhra Pradesh	97	52
Madras	97	103
Kerala	126	117
Western Zone	97	99
Bombay*	101	93
Mysore	90	109
Northern Zone	156	151
Rajasthan	123	116
Punjab	190	182
Delhi	182	174
Himachal Pradesh	131	146
Jammu & Kashmir	160	100
All-India	109	186

The average annual income per agricultural labour family (casual and attached taken together) was Rs. 447 and average annual expenditure Rs. 461 at the all-India level.

Of the total income of Rs. 447, an agricultural labour family derived 64·2 per cent of it in the form of agricultural wages, 11·9 per cent from non-agricultural wages, 13·4 per cent from land and 10·5 per cent from other sources.

Of the total expenditure incurred, 85·3 per cent was spent on food, and 6·3 per cent on clothing and footwear and bedding and household requisites.

About 44·5 per cent of the agricultural labour families (casual and attached taken together) were in debt. The average debt per indebted family was Rs. 105. The following table gives the average annual income, expenditure and indebtedness per agricultural labour family:

State, Zones	Average annual income per family	Average annual expenditure per family†	Average debt per indebted family
Central Zone	478	478	62
Uttar Pradesh	551	548	32
Madhya Pradesh	391	395	79
Eastern Zone	506	529	78
Bihar	535	575	95
West Bengal	608	625	44
Orissa	340	331	50
Assam	601	589	17
Manipur	320	323	116
Tripura	675	908	254
Southern Zone	391	403	89
Andhra Pradesh	381	407	100
Madras	371	373	89
Kerala	486	487	43
Western Zone	406	421	137
Bombay*	415	428	98
Mysore	388	407	191
Northern Zone	648	666	336
Rajasthan	605	580	343
Punjab	692	749	335
Delhi	687	772	646
Himachal Pradesh	628	656	262
Jammu & Kashmir	654	785	63
All-India	447	461	105

† Excluding ceremonies.

One of the protective measures to improve incomes of agricultural labourers is the Minimum Wages Act, 1948, which *inter-alia* applies to employments in agriculture. The Act envisages the fixation of wage minima before Dec. 31, 1959. In so far as agricultural employments are concerned section 3(1)(*ii*) of the Act lays down that the appropriate Government may, instead of fixing minimum rates of wages for the whole State, fix such rates for a part of the State or for any specified class or classes of such employment in the whole State or part thereof.

Minimum wages for agricultural workers have been fixed for the whole State in Kerala, Orissa Punjab, Rajasthan, Bihar, Madhya Pradesh, Mysore, West Bengal, Himachal Pradesh, Delhi and Tripura and for part of the State, *i.e.* for specified areas in Assam, Andhra Pradesh, Bombay* and Uttar Pradesh. Wages have also been fixed by the Central Govt. in certain agricultural farms/research institutes under the Ministry of Food and Agriculture, military farms and depots under the Ministry of Defence and archaeological gardens at Delhi, Agra, Lucknow, Deeg and Khajuraho.

* Bilingual.

The Minimum Wages Act also envisages that minimum rates of wages fixed or revised under the Act in respect of scheduled employments may consist of a basic rate of wages and special allowance to be adjusted periodically according to variation in the cost of living index to the practicable extent; it may be a basic rate of wages with or without the cost of living allowance and the cash value of concessions allowed; or it may be an all-inclusive rate allowing for the basic rate, the cost of living allowance and cash value of concessions, if any.

In view of this statutory provision, the Ministry of Labour and Employment have undertaken the construction of consumer price index numbers for agricultural labourers on the basis of "weights" provided by the 1950-51 Agricultural Labour Enquiry. The collection of retail prices for about 70 selected commodities from a number of villages selected on the principle of stratified random sampling was entrusted to the field staff of the National Sample Survey Directorate. The price collection started simultaneously with the conduct of the Second Agricultural Labour Enquiry from the end of 1956.

On the basis of prices furnished by the National Sample Survey Directorate, consumer price index numbers for re-organised States have been compiled by the Labour Bureau, Ministry of Labour and Employment upto October 1960. It is proposed to publish the index numbers at the All-India and State levels.

WORKERS' EDUCATION

The Government of India in co-operation with the Ford Foundation appointed an International Team to suggest steps to be taken for (*a*) education of trade union representatives in the techniques of trade union organisation, management and financing, (*b*) education of union members for intelligent participation in union affairs and (*c*) education of union representatives in responsible and effective participation in management.

The Team submitted its report in June 1957.

The main recommendations of the Team are given in the 1960-61 edition of the *Directory*.

A Central Board for Workers' Education was constituted by the Central Government in September 1958 and a sum of Rs. 48 lakhs had been provided for the scheme for the Second Plan period.

The Board has established 12 workers' education centres in different parts of the country. It has organised two training courses for top-level instructors known as teacher-administrators at Bombay and Calcutta respectively in 1958 and 1959 and trained 67 teacher-administrators for employment under the Board. 33 trade union nominees were also trained along with them by way of helping the trade unions to organise their own Workers' Education Programme. The third training course for teacher-administrators for a batch of about 40 trainees is expected to be held in Bombay.

Ten workers' education centres had upto Oct. 31, 1960 trained 777 worker-teachers in 34 sessions and 186 were under training. 219 unit level classes were in existence by the end of Oct. 1960 against 38 at the end of Oct. 1959.

The duration of courses for the Teacher-Administrators, Worker-Teachers and Workers is about six, three and four months respectively.

The scheme is being continued in the Third Five Year Plan with a tentative provision of Rs. 2 crores.

Other training schemes are given below:—

Craftsmen Training in Institutes: The object of this scheme is to train craftsmen for the engineering and non-engineering trades. The training period is of two years of which six months are spent in industry. Before the commencement of the Second Five Year Plan, there were 10,534 seats at the various Institutes. It was hoped that by the end of the Second Plan 30,530 more seats would be added.

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National Apprenticeship: The object of this scheme is to provide apprenticeship training to men in existing industrial establishments. The response from the industrialists to take in apprentices has not been encouraging, and therefore, it is proposed to enact legislation to make it obligatory on industry to take in apprentices. It was expected to have 3,296 apprentices in industry by the end of the Second Five Year Plan.

Evening Classes: This scheme is for providing facilities to industrial workers to improve their theoretical knowledge of the craft. The workers are required to attend evening classes of two hours thrice a week. It was expected to have 2,645 workers attending evening classes by the end of the Second Five Year Plan.

Principals and Inspecting Officers: The object of this Scheme is to provide a refresher course to Principals and Inspecting Officers employed in the Training Schemes for Craftsmen. The first course of this Scheme was conducted in September, 1959. Other courses were to be held in the remaining period of the Second Plan.

Scheme for the Training of Craft Instructors: The object of this Scheme is to train Instructors for the Industrial Training Institutes. At present there are two Institutes, one at Koni-Bilaspur and the other at Aundh-Poona with a seating capacity of 258 and 144 respectively. It has been proposed to move the Institute at Koni to Calcutta and that at Aundh to Bombay. The seating capacity of these Institutes would be raised to 400 each.

There is a proposal to set up four more such Institutes in the Third Five Year Plan.

There are schemes for the educated unemployed as already mentioned:

Work and Orientation Centres: The object of this scheme is to assist educated unemployed persons to equip themselves for employment in other than white-collar jobs. A review Scheme has been working in Delhi and Kerala since Feb. 1959. Sanctions for 16 more Centres have been given.

Small Scale Industries: Two production Centres were sanctioned by the Ministry of Commerce and Industry to be established in Kerala and the Ministry of Labour and Employment arranged for training for about 344 persons. Of these 84 per cent have been absorbed in suitable employment and efforts to absorb the remaining are being made by the Small Scale Industries Organisation. There has been a proposal to start more production centres on these lines.

Goods Transport Co-operatives: A pilot scheme for the establishment of five Goods Transport Co-operatives one each in West Bengal, Bombay,* Madras, Kerala and Delhi was prepared by the Ministry of Transport and circulated to States. The Government of Madras, West Bengal and Kerala have already agreed to implement the scheme. Proposals from the Government of Orissa and Tripura Administration for allotment of one unit each to them have been received. These requests are under consideration of the Ministry of Transport.

CODE OF DISCIPLINE, EFFICIENCY

A Code of Discipline was evolved in Oct. 1957 and was adopted by the Indian Labour Conference at its session at Naini Tal in May 1958.

This Code lays down certain do's and don'ts both for managements and unions with a view to ensuring better discipline in industry and includes (1) no strike or lock-out without notice and no go-slow tactics, (2) no acts of violence, intimidation or coercion, (3) utilisation of existing machinery for settlement of disputes and (4) speedy implementation of awards and agreements.

A model procedure for the redress of grievances was evolved and accepted by both parties.

The Code also provides for sanctions against breaches of the Code. The sanctions will be enforced by the Central Organizations of employers and workers against the constituent units.

The sanctions are: ask the unit to explain the infringement of the code; give notice to the unit to set right the infringement within a specified period; warn and in cases of a more serious infringement, censure the unit concerned; impose on the unit any other penalty open to the organization; disaffiliate the unit from its membership in case of persistent violation of the code.

Code of Efficiency: The Committee appointed for exploring the means for realising the objectives for which the code of efficiency has been suggested, has drawn up a questionnaire on guiding principles in labour-management co-operation. The questionnaire have been widely circulated with a view to collecting necessary data for the purpose of the background material for further discussion in due course.

The Labour Ministry has established an Evaluation and Implementation Division and an Implementation Committee consisting of four members each from employers and employees and four officials.

An important function of the Evaluation & Implementation Division is to assess the working of important labour laws, awards, policy decisions and major breaches of the Code. The Officer-in-charge of the Division conducted case studies of strikes in T.I.S.C.O., Jamshedpur, Premier Automobiles Ltd., Bombay and Calcutta Tramways which took place in 1958. He enquired into the working of the Calcutta Dock Labour Board also.

The Code has met with a large measure of success. It has produced a sobering effect on the parties and has created a favourable climate for industrial peace. The number of man-days lost during 1959 and 1960 due to strikes and lockouts has already shown a decline as compared to that in the preceding years.

All State Governments have now appointed Implementation Officers and almost all of them have set up tripartite Implementation Committees to deal with the complaints of non-implementation of labour enactments, awards, Code of Discipline, etc. in the State sphere. The Central E & I Machinery co-ordinates the activities of the State Implementation Machineries to ensure uniform implementation of major policy decisions, Code of Discipline, etc.

The Central E & I Division and some of the State Implementation Machineries have met with a fair measure of success in the new policy of bringing about out-of-court settlement of industrial disputes pending in High Courts or Supreme Court. To minimise litigation in future, the Central E & I Division has been able to persuade all the Central Employers' and Workers' Organisations to set up committees to screen cases of industrial disputes before they are taken by their members to higher courts. It is one of the tasks of the Division to ensure that these committees function effectively.

WORKERS' PARTICIPATION IN MANAGEMENT

A study group set up to report on the question of workers' participation in management published its report at the end of May 1957.

The study group was led by the Secretary to Government, Ministry of Labour (at the time Mr. Vishnu Sahay).

The main recommendations of the group are mentioned in the 1960-61 Directory.

The Indian Labour Conference which met in July 1957 appointed a tripartite Committee to compile a list of major industries in the public and private sectors in which workers' participation in management could be introduced.

This Committee compiled a list early in August.

The industries selected from the private sector are: cotton textiles, jute, engineering, chemicals, tobacco, paper, sugar, cement, mines and plantations.

Those from the public sector include: railway workshops and yards, posts and telegraphs, ports, shipyards, transport workshops, mines, printing presses and electricity undertakings.

A seminar on labour-management co-operation was held in New Delhi on 31st Jan. 1957. Workers' and employers' representatives from more than 30 units attended the seminar.

Position in 1959

Till March 1960, 24 joint management councils had been set up.

Public Sector: Hindustan Machine Tools Ltd., Jalahalli P.O., Bangalore. Kerala State Transport Department, Trivandrum. The Punjab Government Press, Chandigarh. The Travancore Rubber Works, Trivandrum. The Hindustan Insecticides Ltd., New Delhi. The Fertilizers & Chemicals Travancore (P) Ltd., Udyogmandal P.O., Kerala. Messrs. Nalan Foundry, Nahan (Himachal Pradesh). Messrs. Gwalior Leather, Tannery & Tent Factory, Morar (Gwalior).

Private Sector: Messrs. Simpson Group & Co. Ltd., 202, Mount Road, Madras. The Indian Aluminium Co. Ltd., 31, Chowringhee Road, Calcutta-16. Messrs. Modi Spinning & Weaving Mills Co. Ltd., Modinagar (U.P.). Messrs. Bally Jute Co. Ltd., Bally, District Hooghly. The Kanknarrah Co. Ltd., 4, Clive Row, Calcutta-1. Panitola Tea Estate, Assam, c/o Indian Tea Planters' Association, Royal Exchange, Calcutta. Sonabheel Tea Estate, c/o Indian Tea Planters' Association, Royal Exchange, Calcutta. Messrs. Malleable Iron & Steel Castings (P) Ltd., Lower Parel, Bombay-13. The Rajkumar Mills Ltd., Indore. Bombay Silk Mills Ltd., Industrial Estates, Lalbaug, Bombay. Messrs. Tata Iron & Steel Co. Ltd., Jamshedpur. Shri Digvijay Cement Co. Ltd., Sikka *via* Jamnagar, Saurashtra. Shri Arvind Mills Ltd., Post Box No. 56, Ahmedabad. Hahairathe Tea Estate, Dooars, West Bengal. Messrs. Devidayal Cable Industries (P) Ltd., Bombay-10. Shri Ganganagar Sugar Mills, Ganganagar, Rajasthan.

A meeting of the Workers' Participation Sub-Committee in Delhi in Sept. 1958 reviewed the progress made generally in this direction and came to the conclusion that this left much to be desired. Every effort, it said, should be made to bring in more units into the scheme.

Position in 1960

Second Seminar on Labour Management Co-operation was held on 8th and 9th March, 1960.

At the Seminar the participants shared their experience in the matter of functioning of Joint-Management Councils, brought out the difficulties they had to face at the initial stages and how these difficulties were met. The discussions at the Seminar revealed a wide measure of agreement that the stage had now been reached when the Scheme could be taken out of the pilot stage and extended to as many establishments as possible. The main recommendations made by the Seminar for intensifying the drive for the extension of the scheme were as follows: (i) The existing arrangements at the Centre for promoting the scheme should be strengthened and suitable machinery should also be created at the State levels; (ii) Suitable arrangements should be made for collection and dissemination of information on the working of Joint Management Councils in various undertakings; (iii) A small tripartite committee should be constituted at the Centre which should review the progress of the scheme from time to time, sort out difficulties that might have arisen in the functioning of Joint Management Councils, and suggest measures for overcoming these difficulties; (iv) The recommendation

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made by the Indian Labour Conferece at its 15th Session, that it was not necessary to undertake legislation for the present for implementing the scheme, was endorsed by the Seminar and it was agreed that it should continue to be operated on a voluntary basis.

In pursuance of the recommendations made by the Seminar, the Government of India have already set up a small cell in the Ministry of Labour and Employment to deal with all matters connected with the scheme. The Ministry have addressed the Central Organisations of employers and workers requesting them to suggest names of suitable units from amongst their affiliates where Joint Management Councils could be set up. Assistance of the National Productivity Council has also been sought for the selection of units where the Scheme could be introduced. State Governments have been requested to set up suitable machinery at the State level to look after matters connected with the implementation and extension of the Scheme. The existing Sub-Committee on Workers' Participation in Management, set up by the Indian Labour Conference, has been reconstituted as an independent body.

The details of the scheme for giving workers a voice in the management of the public sector undertakings through joint management councils, are being worked out (Feb. 1961).

TRIPARTITE LABOUR MACHINERY

The Tripartite Labour Machinery at the centre consists of (*a*) Indian Labour Conference, (*b*) Standing Labour Committee and (*c*) Industrial Committees. Besides, there are such bodies as the Joint Consultative Board, the Central Advisory Council, the Labour Ministers' Conference etc.

The Indian Labour Conference is composed of 24 members representing the Central and State Governments and 9 members each representing the employers and workers, nominated by the Government of India in consultation with the all-India organisations of employers and workers.

The function of the Conference as laid down at the fourth Indian Labour Conference is to "advise the Government of India on any matters referred to for advice taking into account suggestions made by the Provincial Governments, States and Chamber of Princes† and the representative organisations of employers and workers recognised for the purpose of the Conference".

The Standing Labour Committee was constituted by a resolution of the Indian Labour Conference adopted in August 1952. At present the Committee consists of 5 representatives each of the employers and workers and 12 representatives of the Governments. The representatives are nominated by the Government of India in consultation with the all-India organisations of employers and workers.

The function of the Committee is to consider and examine such questions as may be referred to it by the Plenary Conference or the Central Government.

The Eighth Session of the Indian Labour Conference decided to establish Industrial Committees to discuss various specific problems special to industries covered by them and submit their reports to the Conference. The first Industrial Committee to be set up in pursuance of the decision was that on Plantations in January 1947. In 1948 Industrial Committees were set up for four important industries *viz.* Cotton Textiles, Coal Mining, Cement and Leather goods, and in 1955 for Building and Construction Industry. There is no uniformity in the representation accorded to Government, employers and workers in these Committees but the representation given to employers and workers is equal in all cases.

The Joint Consultative Board for Industry and Labour was constituted to promote agreements between employers and workers and to ensure their proper implementation following a recommendation in that regard made by the Development Committee on Industries in 1951. The Board as originally constituted consisted of three representatives each of employers and workers with the Union Minister for Planning as Chairman. Since February 1954 the Board has been reconstituted as a purely bi-partite body and it now consists of 8 members, 4 representing employers and 4 workers. It considers such questions as rationalisation, productivity studies, payment by results, association of workers with management, etc. At its last meeting held in September 1956 the Board decided to set up a subsidiary Joint Consultative Board for the Cotton Textile Industry.

Bombay* was the first State to set up a tripartite Labour Advisory Board in March 1947. This example was followed by Uttar Pradesh, Bihar, West Bengal, Madras, etc.

The function of these boards is to help maintain harmonious industrial relations and advise Government on matters affecting labour.-

LABOUR ADMINISTRATION

Apart from the main Secretariat of the Ministry of Labour it has several attached and subordinate officers. The activities of some of these have been described in the relevant sections, such as Miners' Welfare Fund, and notes on some others are briefly given below.

Labour Bureau.—To meet the ever growing needs of Government, industry and labour for accurate and reliable information relating to labour conditions, labour legislation, etc., the Central Government established on 1st October 1946, a Labour Bureau.

Among other things the Bureau edits the *Indian Labour Journal* and the *Year Book*.

Chief Labour Commissioner.—The Central Government, in the Ministry of Labour, have also appointed a Chief Labour Commissioner. This officer is in charge of industrial relations and conciliation, labour welfare, operation of labour laws, and maintenance of information regarding wage rates and conditions of work in Central undertakings. There are a number of deputies working under him known as Regional Commissioners.

Chief Adviser of Factories.—In order to ensure uniformity in the administration of the Indian Factories Act and to improve conditions generally in Indian factories, the Government of India have appointed an officer designated the Chief Adviser of Factories. The Chief Adviser has a number of deputies, including deputies who attend to matters relating to the health of the workers and the sanitation and cleanliness of factories.

CENTRAL LABOUR INSTITUTE

As a step towards meeting the need for an agency designed to afford facilities for the scientific study of the various aspects of industrial development as relating to the human factor, the Planning Commission, as part of the First Five Year Plan, recommended the establishment of a National Museum of Industrial Safety, Health and Welfare to serve as a nucleus of an Insitute for conducting specialised courses of training and education in labour and allied problems.

The Institute will be a composite one, comprising (1) a Museum of Industrial Safety, Health and Welfare, (2) an Industrial Hygiene Laboratory, (3) a Productivity Centre, (4) a Training-Within-Industry Centre, (5) an Industrial Physiology Section, (6) an Industrial Psychology Section, (7) a Library-cum-Information Centre, and (8) a Training Centre.

The Government of Maharashtra has made available free of cost an 18-acre plot of land near Sion in Bombay. The Central Government has issued sanction for an expenditure of about Rs. 25 lakhs for the construction of the main building. Sanction has also been issued for an expenditure of Rs. 5 lakhs for the construction of an administrative block. The construction work of these two buildings has just started (Dec. 1960) and it is expected to be completed in 2-3 years' time. Under the various technical assistance programmes, such as operated through T.C.M., I.L.O., plant, equipment and technical publications have been procured for equipping the various sections of the institute. Some more equipment are also expected to be received under the Colombo Plan of Technical Assistance. Certain equipment have also been received either on loan or as free gift from some of the indigenous manufacturers and through the representatives of foreign Firms in India. The following sections of the Institute have already started functioning:

Museum of Industrial Safety, Health and Welfare: Pending construction of the building a 10,000 sq. ft. floor space has been acquired in the Old Victoria Mills Compound at Gamdevi (Bombay) where the various exhibits on Safety, Health and Welfare aspects are being displayed. So far (Dec. 1960) wood working machinery, docks and steam plant sections have been completed. Display arrangements of other machinery and personnel protective equipment sections are in hand.

Industrial Hygiene Laboratory: The Laboratory was established under the Chief Adviser, Factories, New Delhi, in 1952 with the assistance of a team of Industrial Hygiene Experts made available under the Point Four Programme. It has carried out a number of investigations on health and environmental problems and has made available considerable amount of basic information on hazards associated with a variety of occupations and processes. So far 18 technical reports have been published (Dec. 1960). A separate section of the laboratory now functions in Bombay.

Industrial Physiology Section: This section has been set up recently with the object of conducting research on reduction of fatigue and on influence of environmental factors on man.

Productivity Centre: The Centre was set up in Bombay in 1955 with the I.L.O. technical assistance. The main function of the Centre is to help in creating among labour and management attitudes receptive to the idea of higher productivity and assist in the application of industrial engineering techniques with a view to increasing productivity and improving conditions of work. During the five years of its existence, the Centre has conducted 9 projects concerning top management, foremanship for the middle supervision, methods improvement for technical personnel and labour seminars for workers and trade union representatives. Nine courses on advanced work study of 6-14 weeks duration for technical personnel from different industries were conducted by the Centre. The Centre has also undertaken ten other training courses in the various fields of Industrial Engineering for junior technical personnel, for shop supervisors and foremen. These courses are essentially either Refresher Courses or Appreciation Courses. Ten field investigations were undertaken by the Centre which were either in collaboration with professional institutions or in response to a specific request from the Government. Some of the field investigations are (a) Survey of Industrial Estates at Rajkot. (b) Technical assistance to the Industrial Tribunal on wages for Air India International in carrying out the Job Evaluation Programme. (c) Layout of new workshops for the Posts & Telegraphs Department, in Bombay. (d) Study of Grain Storage in Calcutta. (e) Study of Central warehousing in Warrangal, Andhra Pradesh. (f) Study of office procedures and paper work at the Regional Provident Fund Commissioner's Office in Bombay and (g) Study of procedures at the Purchase Department at Sachivalaya, Government of Maharashtra, Bombay.

† Does not now exist.

* Bilingual

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Training-Within-Industry Centre : This Centre was also set up in Bombay in 1955 with the I.L.O. assistance. It carries out training programmes for trainees in Job Instruction, Job Relations and Job Methods on a project basis. The Centre also organises conferences and management seminars on supervisory training and publishes a quarterly News Letter containing articles and information which will be of interest to management supervisors and training officers. The Centre has so far conducted 19 Projects (Nov. 1960) training over 200 training officers. The scheme has been introduced in over 170 Organisations.

The remaining sections of the Central Labour Institute are also being set up and when the Institute building is ready for occupation, all these sections will be brought together.

Regional Labour Institutes : As a part of a coordinated plan for education, research and training in labour and allied problems and to meet the specific needs of the various regions which cannot be effectively served from one single centre, it was proposed to set up under the Second Five-Year Plan three Regional Labour Institutes in Calcutta, Madras and Kanpur, with the Central Labour Institute, Bombay, serving as a focal point of the planned programme of work. The Institutes will be modelled on the lines of the Central Labour Institute.

The State Governments concerned have made available free of cost plots of land for the location of the Institutes. The Govt. of India have accorded administrative approval for the construction of the buildings. The Institutes will be fully equipped to carry on research and investigations on problems of particular importance or significance to the region. A request for technical aid under the U.N. Special Fund to the extent of $ 3,30,000 ($ 1,50,000 for equipment and $ 1,80,000 for experts) for the Regional Institutes has been approved. According to the plan of operation which was signed on 6th Oct. 1960 by the rpresentatives of the Govt. of India and the U.N.T.A.B. these institutes were to start functioning from March 1, 1961.

INDIA AND THE I.L.O.

India joined this organisation at the very start and since 1922 has been one of the ten countries of chief industrial importance and as such has been allotted a permanent seat on the Governing Body of the Organization. India also contributes liberally towards the finances of the Oranisation. For 1961 India's contribution amounts to U.S. $ 323,313 which is 3·28 per cent of the total contribution of all member States, as against U.S. $297,129 for 1960 which is 3·30 per cent. of the total contribution of all member States. India's share in the appointments of the office is, however, somewhat inadequate.

At the headquarters in Geneva the number of Indian nationals employed in 1960 as Assistant Members of Division and above is 13. Among these the highest post is held by Mr. R. Raghunath Rao who is the senior-most Assistant Director General. The entire staff of the Indian Branch in New Delhi is Indian, while in the I.L.O. Asian Field Office in Bangalore the number of Indians varies from time to time.

India has been the venue of two Asian Regional Conferences, the first in 1947 and the fourth in 1957. Both these were presided over by India's Labour Ministers.

India has been receiving technical assistance from the I.L.O. in the spheres of Manpower, Training-Within-Industry, Productivity, and so on and experts from India have been recruited by the I.L.O. for assignments in other underdeveloped countries in such subjects as cooperation, cottage industries and employment information.

Whether in following international standards, or participating in the work of the International Labour Conference, Industrial Committees and Regional Conferences, and so on, India has been one of the keenest members of the I.L.O. Out of 114 Conventions adopted by the International Labour Conference, India has so far ratified 26 Conventions. She has in addition incorporated into her national legislation the essential features of many other Conventions.

The following is a list of Conventions ratified by India together with the dates of ratification within brackets :—

*1. No. 1 Hours of Work (Industry), 1919 (14-7-1921).
†2. No. 2 Unemployment, 1919 (14-7-1921).
3. No. 4 Night Work (Women), 1919 (14-7-1921).
4. No. 5 Minimum Age (Industry), 1919 (9-9-1955).
5. No. 6 Night Work of Young Persons (Industry), 1919 (14-7-1921).
6. No. 11 Right of Association (Agriculture), 1921 (11-5-1923).
7. No. 14 Weekly Rest (Industry), 1921 (11-5-1923).
8. No. 15 Minimim Age (Trimmers & Stokers), 1929 (10-12-1922).
9. No. 16 Medical Examination of Young Persons (Sea), 1921 (20-11-1922).
10. No. 18 Workmen's Compensation (Occupational Diseases), 1925 (30-9-1927).
11. No. 19 Equality of Treatment (Accident Compensation), 1925 (30-9-1927).
12. No. 21 Inspection of Emigrants, 1926 (14-1-1928).
13. No. 22 Seamen's Articles of Agreement, 1928 (31-10-1932).
14. No. 26 Minimum Wage-Fixing Machinery, 1928 (10-1-1955).
15. No. 27 Marking of Weight (Packages Transported by Vessels), 1929 (7-9-1931).
16. No. 29 Forced Labour, 1930 (30-11-1954).
17. No. 32 Protection Against Accidents (Dockers) (Revised), 1932 (10-2-1947).
†18. No. 41 Night work (Women) (Revised), 1934 (21-11-1935).
19. No. 45 Underground Work (Women), 1935 (25-3-1938).
20. No. 80 Final Articles Revision, 1946 (17-11-1947).
21. No. 81 Labour Inspection, 1947 (8-4-1949).
22. No. 89 Night Work (Women) (Revised), 1948 (27-2-1950).
23. No. 90 Night Work of Young Persons (Industry) (Revised), 1948 (27-2-1950).
24. No. 100 Equal Remuneration for Men and Women Workers (25–9–58).
25. No. 107 Indigenous and Tribal Population, protection and integration (29–9–1958).
26. No. 88 Employment Service Convention (24-6-1959).
27. Discrimination (Employment and Occupation) Convention, 1958 (No. 111) (3–6–1960).

* Conventions containing special provisions applicable to India. † Ratification denounced.

FORESTS

TOTAL Forests: 280,896 sq. miles. Percentage of Forests to Land: 22·3. Per capita forest area will be about half an acre.

Revenue : 1955–56 : Rs. 26·83 crores ; 1956–57 : Rs. 34·50 crores ; 1957–58 : Rs. 42·10 crores ; 1958–59 : Rs. 46·37 crores.

Financial return per acre of Forest : Rs. 2·60.

Allotment under First Five-Year Plan : Rs. 9·89 crores.

Under Second Plan : Rs. 21·97 crores.

The forests are unevenly distributed and the production is also proportionately low, being only 2·5 c.ft. per acre per year as compared to 56·8 c.ft. in France, 37·3 c.ft. in Japan and 18·1 c.ft. in U.S.A.

Private forests : In Assam 400 sq. miles (in Khasi and Jaintia Hills), Orissa 600 sq. miles mostly in zamindari agencies, Punjab 340 sq. miles in scattered units, and Himachal Pradesh 29 sq. miles in Jabbal Division.

About 16 per cent of the total forest area is inaccessible and 45 per cent of these could yield timber and other forest products.

Systematic management and administration of forests in India dates back to over a century. The first enunciation of policy was in 1894, when forests were classified into four classes : (*a*) protection forests ; (*b*) timber forests ; (*c*) minor forests ; and (*d*) pasture lands.

The limited outlook of this policy was enlarged upon by the Government of India, and the new forest policy laid down in 1952. The details are given in 1960-61 Directory.

Most of the country's forests are worked according to Forest Working Plans prepared by special staff. On the basis of present conditions and past working, these plans lay down, for a 10-15-year period at a time, silvicultural systems, schedules for thinnings and other cultural work, methods of management, staff requirements and exploitation programmes, besides development schemes for roads, buildings.

The formation of forest plantations involving a long-term policy for increased production, is now-a-days an important feature of Indian Forestry, *e.g.* the very valuable and extensive plantations of Teak, Bluegum, Wattle, Casuarina, Sal, Deodar, as also evergreen species and softwoods for matches.

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'Forests' are a State subject.

The Government of India, however, are responsible for forest research and forest education. The Ministry of Food and Agriculture in the Government of India co-ordinates forest activities in the country, but no forests are directly worked by it except the Andaman forests. The Inspector-General of Forests is their technical adviser in forest matters.

All States have separate Forest Departments. Usually a Chief Conservator of Forests (C.C.F.) heads the Department.

For purposes of administration the States are divided into one or more Forest Circles, each in charge of a Conservator of Forests.

Each Circle is in turn divided into four to eight Divisions, each under a Divisional Forest Officer. The unit of administration and execution of forest works is the Forest Range, managed by a Range Forest Officer. Four to eight of these are included in each Division. A Division may be coextensive with Civil districts or larger or smaller than them depending on the importance of the locality and extent of forests in them.

EDUCATION AND RESEARCH

Forest research and education are centralised in one large institution known as the Forest Research Institute and Colleges located at Dehra Dun.

The Forest Research Institute as such came into being in 1906 as an adjunct to the Imperial Forest College, as it was then called. Through progressive stages of development the Institute has now attained a position which has earned for it international prestige as evidenced by its recognition by the Food and Agricultural Organisation of the United Nations as a Centre for training in Forestry for South-East Asia.

The Forest Research Institute and Colleges are under the administrative control of the Ministry of Food and Agriculture of the Government of India. Its administrative Head is designated the President. The Forest Research Laboratory at Bangalore and the newly established Forest Research Centre at Coimbatore Constitute parts of the Forest Research Institute, Dehra Dun.

The education wing of the Institute comprising three Colleges is in the charge of the Director of Forest Education.

The Indian Forest College trains recruits of the State Governments to their gazetted forest services. The course stretches over a period of three years.

The Northern Forest Rangers' College (Debra Dun) and the Southern Forest Rangers' College (located in Coimbatore) offer training for two years to rangers selected by State Governments in the northern and southern regions of the country respectively.

The various branches of the Institute have their research activities published in the technical journals. The work of the Silviculture Branch is to study the rates of growth of the different kinds of trees. The branch has also a museum, a demonstration area and experimental gardens also under its control.

The Botany Branch maintains a herbarium where there is an evergrowing collection of authentic specimens.

The Forest Pathology Branch specialises in investigations of tree diseases and timber decays caused by fungi with a view to evolving methods of control. This branch forms one of the centres of the Indian National Committee on Type-Cultures of Micro-organisms.

The Entomology Branch's function is to reduce the losses to forest trees and forest products caused by harmful insect pests. The Wood Anatomy Branch has one of the finest timber collections in the world at present comprising about 15,000 indigenous and foreign wood samples.

The Composite Wood Branch undertakes to study the problems of improved wood like plywood, compregnated wood, building boards, etc.

The Wood Seasoning Branch has designed a number of seasoning sheds and seasoning kilns including veneer dryers.

The Forest Research Institute conducts research in paper also. The Cellulose and Paper Branch is the only place in India where organised research is being done on the utilisation of forest produce and industrial and agricultural wastes for the production of pulp, paper and boards. A six-ton pilot paper plant has recently been added to the branch.

The Minor Forest Products Branch is engaged in economic research on plants which constitute about 30 per cent of the forest wealth of India and earns a foreign exchange of over Rs. 40 crores. The branch has established the artemisia and santonin industry in India.

Other branches in the Institute are the Wood Preservation Branch, the Chemistry Branch, the Timber Mechanics Branch, the Timber Engineering Branch and the Logging Branch.

The workers in the Institute are provided with adequate housing accommodation. The Institute has a high school, a hospital, a cooperative society, clubs, playground and a Telegraph office.

FOREST PRODUCE

Forest produce is divided into two main heads—(1) Major produce, *i.e.*, timber and firewood, and (2) Minor produce, comprising all other products, such as bamboos, canes, leaves, fruits, fibres, grasses, gums, resins, essential oils, medicinal and poisonous plants, fatty oils and fats, dyes, tans and animal and mineral products.

The annual outturn of timber and fuelwood from all sources averages about 2,696 million cubic feet.

The bulk of the timber supply is used for railway sleepers, constructional requirements, furniture, plywood (especially for tea chests), matches, etc.; but the country imports timber for specialized uses such as jute and textile mill accessories.

Exports from India are limited to selected rosewood logs for high grade furniture to Europe, teak poles for the Middle East and a few other items. Up-to-date, Indian rural economy (and perhaps only to a slightly less extent even its urban population) depends on wood fuel, much of which is derived from the forests. The large-scale use of bamboos and some forest grasses in the expanding paper industry, the exports of sandalwood and its oil and the development of medicinal plants deserve mention in connection with the utilisation of other forest produce.

In the Andamans, the North Andaman forests are leased out to a private agency for working the virgin forests of these islands. The Middle and South Andamans continue to be worked departmentally, mainly to meet the needs of the mainland especially for matchwood and plywood logs. The Andamans also contribute in an increasing measure (by restricting on exports abroad) towards the needs of railways, etc. on the mainland for Padauk, Gurjan and other hardwoods.

Nearly two million people are estimated to be employed on forest work; but the figures are probably below the actuals, as much forest labour is not full-time labour, devoting seven or eight months in the year to agriculture and the rest to forest work.

The general practice of the Forest Departments in the various States is to dispose of standing timber and forest produce by open auctions. Departmental conversion and sales of the produce itself are resorted to only where special considerations necessitate them, *e.g.* working of sandalwood because of its great value.

Timber production in India is not sufficient to meet internal needs. While foreign markets could be readily developed for Indian timber, exports are limited to small quantities of ornamental timbers for European countries, teak poles for the Middle East from the west coast and traditional despatches to markets in Pakistan.

Exports are regulated by quotas which are periodically re-examined.

Imports are regulated by protective or revenue duties and are restricted to such specialized items as are not readily obtainable from local production.

SECOND FIVE-YEAR PLAN

It is expected that over Rs. 18 crores would be utilisted for execution of Forest Development Schemes in the States and Union Territories. The expenditure incurred by the Union Territories Forest Department will be met by the Centre and the States will be helped with loans and grants for the execution of some important schemes. Besides, the Government of India have provided a sum of Rs. 30·55 lakhs for research programmes and development of the Forest Research Institute at Dehra Dun and Rs. 25 lakhs for research activities and development of the Southern Research Institute at Bangalore. A sum of nearly Rs. 70 lakhs has been provided for the Delhi Zoological Park which had made rapid progress in 1959.

During the 2nd Plan period nearly 4·3 lakh acres would be brought under commercial species like teak, sal, conifers, matchwood and other woods of economic value. This also includes afforestation programme along roads, canals and railway tracks, improvement of pastures for grazing and the development of minor Forest produce more specially medicinal plants. Schemes are also in hand wherein rehabilitation of degraded forests to the extent of 3·5 lakh acres, construction of 6,400 miles of forest roads and demarcation of 21,000 sq. miles and 31,000 miles, are likely to be completed. Work for preservation and development of wild life has also progressed satisfactorily during the Plan period.

THIRD FIVE-YEAR PLAN

About Rs. 50 crores would be utilised for forest development programme during the Third Five-Year Plan. The programme comprises mainly the following: Raising the production of forest produce by bringing large forest areas under economic plantations; raising trees along roads, canals and railway tracks and for the rational utilisation and use of the timber which is in short supply; Farm forestry under which quick growing species specially fuel and fodder would be raised over waste and common lands near villages with the co-operation of villagers; protecting forests from insect diseases, fires and illicit fellings; setting up seasoning and preservation plants to increase the durability of the soft woods making them endurable for hard uses in industries as well as in railways; construction of road in inaccessible forest areas; adopting scientific methods, improved tools and implements for better logging, economising in waste and extraction of forest produce; providing amenities such as good camping sites, drinking water, medical and sanitary facilities, for the labour residing in forest villages and working in forests.

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Forest Statistics.

(in Rs. 1,000)

States & Union Territories	1957-58 (in sq. miles) Classified forest area				1958-59		
	Reserved	Protected	Unclassed	Total	Revenue	Expenditure	Remarks (−) Deficit (+) Surplus
Andhra Pradesh	18,455	4,998	2,871	26,324	27,267	11,227	(+) 16,040
Assam	6,256	110	11,068	17,434	12,510	11,079	(+) 1,431
Bengal (West)	2,772	1,532	424	4,728	14,772	9,388	(+) 5,384
Bihar	1,502	10,031	1,403	12,936	14,157	10,976	(+) 3,681
Jammu & Kashmir	10,171	754	133	11,058	21,304	4,113	(+) 17,191
Kerala	3,265	1,877	539	5,681	31,164	9,109	(+) 22,055
Madhya Pradesh	30,438	22,517	12,967	65,992	80,083	23,168	(+) 56,195
Maharashtra including Gujarat	18,081	7,210	7,407	32,698	64,932	23,072	(+) 41,860
Madras	6,722	1,532	—	8,254	13,111	8,068	(+) 5,043
Mysore	9,097	2,680	2,097	13,874	56,794	20,443	(+) 36,351
Orissa	8,671	16,660	4	25,335	28,189	8,383	(+) 19,806
Punjab	215	4,807	490	5,512	11,133	8,719	(+) 2,414
Rajasthan	2,309	11,000	3,673	16,982	6,756	6,874	(—) 118
Uttar Pradesh	10,086	1,247	3,990	15,323	55,905	24,685	(+) 31,220
Andaman & Nicobar Islands	1,498	555	447	2,500	10,056	8,524	(+) 1,532
Delhi	3	4	3	10	5	125	(−) 120
Himachal Pradesh	637	2,950	473	4,060	14,179	4,819	(+) 9,360
Manipur	388	857	1,080	2,325	451	272	(+) 179
Tripura	1,020	2,438	—	3,458	888	909	(−) 21
TOTAL	1,31,586	93,759	49,069	2,74,414	4,63,656	1,93,453	(+) 2,70,203

AGRICULTURE

INDIA is predominantly an agricultural country. About half of the country's national income is derived from agriculture and allied activities which absorb nearly ¾ of its working force (of about 152 million in 1956 inclusive of dependents).

Some major facts about Indian agriculture (1956-57): Area of India, 806 mil. acres; area available for land utilization, 721 mil. acres (rest is mostly unsuitable for cultivation); uncultivated area 403 mil. acres (forest 126 mil. acres, area not available for cultivation 118 mil. acres, other uncultivated area 100 mil. acres and fallow 58·5 mil. acres); area actually sown 322·4 mil. acres; total cropped area taking into account area sown more than once 368·5 mil. acres; area sown with foodgrains 275 mil. acres*; area sown with non-food crops 93 mil. acres; total area irrigated 55·7 mil. acres.

India virtually holds the monopoly in lac, leads the world in groundnut and tea production, and is the second largest producer of rice, jute, raw-sugar, rape, sesamum and castor seeds.

Average rainfall 45"; deficiency of 25 per cent is classed dry; deficiency of 40 per cent severe drought; usually one year in five is a dry year, one in ten, a year of severe drought, one in 20 to 25 years widespread severe drought.

Out of the total cultivated area in the Indian Union of 368·5 million acres about 55·7 million acres are irrigated annually. Of this area 22·9 million acres are irrigated by canals, 11·1 million acres by tanks, 16·2 million acres by wells, and 5·5 million acres from other sources. The percentage of irrigated area to total cultivated area is, however, small, being only a little over 17 per cent. Protective irrigation works have made agriculture stable instead of precarious in many districts.

About one-fourth of the total irrigation of the country is got from lifting water from wells ranging in depth from a few feet to over fifty feet.

It is officially estimated that ten to 15 per cent of the annual agricultural production is lost on account of insects, pests, crop diseases and weeds. The annual loss in the yield of foodgrains and sugarcane crop alone comes to about Rs. 162 crores. Total loss would amount to Rs. 1,000 crores per annum.

The 2,400 million Indian rat population alone eats away about 2·6 million tons of grain every year.

High priority is being proposed for the establishment of a special insecticidal and plant protection service. The necessary equipment, such as sprayers and dusters, may be manufactured within the country.

Simultaneously, the Warehousing Corporation is designing a new type of modern storehouse that should reduce losses from eight per cent to two per cent. Old storage accommodation is also to be improved and better facilities are to be provided for fumigation.

The Central Government, it is stated, is prepared to give the States financial assistance for a national rat eradication campaign on the same basis as other plant protection measures under the grow-more-food scheme.

The subsidy would go to provide the farmers with rat poison free of charge.

PRODUCTION

The following table will show the area under principal crops and the yield:

* Includes sugarcane.

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AREA AND PRODUCTION

Crops	Area in '000 acres		Production in '000 tons		Average yield per acre in lbs.	
	1958-59	1959-60	1958-59	1959-60	1958-59	1959-60
Rice	81,437	81,343	30,354	29,338	835	808
Wheat	31,141	31,508	9,772	9,734	703	692
Barley	8,243	8,220	2,672	2,605	726	726
Maize	10,457	10,457	3,381	3,615	724	774
Jowar	42,584	41,602	8,714	7,866	458	424
Bajra	27,999	26,699	3,789	3,484	303	292
Ragi	6,192	6,211	1,877	1,860	679	671
Small Millets	12,417	12,340	2,072	2,012	374	365
Total Cereals	2,20,470	2,18,380	62,631	60,514	636	621
Gram	24,685	25,046	6,881	5,390	620	482
Redgram	5,931	5,843	1,671	1,589	631	609
Black gram	3,716	3,617	446	410	269	254
Green gram	3,384	3,461	297	314	197	203
Horse gram	4,199	4,024	397	378	212	210
Lentil	1,531	1,572	249	274	364	390
Khesari	2,189	2,311	235	381	240	369
Peas	2,722	2,715	1,262	1,259	1,039	1,039
Moth	3,779	3,928	306	277	181	158
Other pulses	7,056	7,222	1,126	962	357	224
Total pulses	59,385	59,751	12,872	11,236	486	421
Total foodgrain	2,79,855	2,78,132	15,503	71,750	604	578
Sesamum	5,500	5,510	511	392	208	159
Groundnut	14,575	15,305	4,812	4,390	740	643
Rape & Mustard	6,021	7,167	1,025	1,037	381	324
Linseed	3,965	3,921	447	425	253	243
Castor seed	1,203	1,178	112	108	209	205
Total oilseeds	31,264	33,081	6,907	6,352	495	430
Coconut	1,630	..	4,455	..	..	..
Sugarcane	4,803	5,178	7,113	7,579	3,317	3,279
Tobacco	896	..	263	..	652	674
Cotton	19,926	19,252	4,686	3,835	92	78
Jute	1,811	1,707	5,188	4,548	1,139	1,066
Mesta	825	706	1,488	1,098	721	622
Sanhemp	807(546)	813(546)	(81)	(80)	(332)	(328)
Pepper	230	232	26	25	248	245
Ginger	36	37	12	13	772	811
Chillies	1,471	1,499	326	339	496	507
Turmeric	109	..	125	..	..	..
Tea	793	795	6,77,567	699,200	..	..
Coffee	..	..	..	..	..	..
Rubber	209·1	284·8	313	413	..	..
Banana	363	..	1,873	..	..	..
Papaya	13	..	168	..	..	..
Potato	822	..	2,319	..	6,319	..
Sweet Potato	552	..	1,530	..	..	..
Tapioca	609	..	1,748	..	..	..
Indigo	7	..	(a)	..	..	..
Opium	74	..	21	..	..	..
Lac	..	..	..	..	..	..

Area under arecanut, cashewnut and cardamon in 1957-58 was 304,000 acres, 207,000 acres and 133,000 acres respectively. The production under the above three in 1957-58 was 69,000 tons, 94,000 tons and 3,000 tons respectively. Area under fodder and green manure crops in 1957-58 was 14,155,000 acres and 218,000 acres respectively.

Green Manure:—According to the estimates about 40 lakh acres were green manured during 1958-59, 70 lakh acres in 1959-60 and 105 lakh acres during 1960-61. On an average about 5,000 lbs. of green manure (green matter) was used per acre, and an increase of one tenth ton per acre of food production was expected from the application of green manures.

A total area of about 18·5 lakh acres had been covered by land reclamation and land development schemes during the last five years. The annual additional food production from reclamation of new lands was estimated at about eight maunds per acre.

Note.—Data for 1958-59 and 1959-60, relate to Partially Revised and Final Estimates respectively and are subject to revision :—(*a*) Production of rice is in terms of cleaned rice ; groundnut as unshelled nuts ; sugarcane as raw sugar or gur ; cotton as lint in thousand bales (of 392 lbs.) and jute and mesta as dry fibre in thousand bales (400 lbs.) ; coconut as million nuts (the average yield being in the number of nuts). (*b*) Area and production of pepper, ginger and turmeric are in terms of 100 acres and 100 tons respectively. (*c*) Area and production of tea, coffee and rubber are in terms of 1,000 acres and 1,000 lbs. and those of tea and rubber relate to calendar year 1957-58. (*d*) Opium production in 1,000 maunds (of 82 2/7 lbs.). This also applies to lac. (*a*) Negligible or less than 500 tons. Figures in brackets indicate area for fibre.

INDEX OF PRODUCTION—ALL COMMODITIES

Year	INDEX NUMBERS OF PRODUCTION		
	Foodgrains.	Non-foodgrains.	All commodities.
1950–51	90·5	105·9	95·6
1951–52	91·1	110·5	97·5
1952–53	101·1	103·8	102·0
1953–54	119·1	104·7	114·3
1954–55	115·0	120·9	117·0
1955–56	115·3	119·9	116·8
1956–57	120·8	130·6	124·0
1957–58	107·9	128·1	114·6
1958–59	130·1	136·7	132·3
1959–60	124·3	133·1	127·2

Note.—Figures for 1950-57 are finally revised ; for 1957-59 are partially revised ; and for 1959-60 are Final Estimates subject to revision.

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INDEX OF PRODUCTION—INDIVIDUAL CROPS

The index numbers of production of individual crops are given below.

(Base 1949-50 = 100)

Commodity/Group	1952–53	1953–54	1954–55	1955–56	1956–57	1957–58	1958–59	1959–60
I. FOODGRAINS								
(a) *Cereals*—								
Rice	96·8	118·6	105·8	114·2	120·4	104·8	127·6	123·3
Maize	123·3	130·2	127·5	112·3	132·8	133·1	134·2	143·6
Jowar	106·6	117·0	132·3	96·7	105·3	120·4	127·2	114·8
Bajra	94·8	135·0	107·8	108·3	90·1	112·2	120·7	111·0
Ragi	82·0	115·0	108·6	119·7	118·7	112·0	126·3	125·2
Small Millets	97·9	125·9	126·8	105·1	98·0	87·9	108·4	105·3
Wheat	112·7	120·0	135·4	131·3	140·7	116·5	147·1	146·5
Barley	122·4	123·2	124·4	118·5	120·5	95·1	113·5	110·7
Cereals	*101·4*	*120·1*	*114·5*	*114·9*	*120·5*	*108·5*	*129·3*	*125·3*
(b) *Pulses*—								
Gram	109·2	125·4	145·9	138·9	159·8	129·7	179·1	140·3
Tur	90·9	99·5	91·8	99·4	106·2	76·6	90·9	86·4
Other Pulses	90·9	102·6	99·6	103·9	91·9	87·4	105·3	103·6
Pulses	*98·8*	*112·0*	*118·5*	*118·4*	*122·9*	*104·2*	*135·2*	*117·2*
TOTAL FOODGRAINS	*101·1*	*119·1*	*115·0*	*115·3*	*120·8*	*107·9*	*130·1*	*124·3*
II. NON-FOODGRAINS								
(a) *Oilseeds*—								
Groundnut	85·3	100·3	123·6	112·4	127·2	131·5	142·7	130·2
Sesamum	106·9	127·6	135·1	104·8	98·2	85·9	124·2	95·3
Rape & Mustard	105·5	107·3	127·7	105·8	128·3	115·4	128·2	129·7
Linseed	86·0	89·1	90·3	97·1	90·3	58·6	105·2	100·0
Castorseed	79·7	80·5	95·4	96·1	95·3	69·5	75	84·4
All Oilseeds	*91·9*	*103·7*	*122·6*	*108·6*	*120·3*	*115·6*	*133·4*	*122·5*
(b) *Fibres*—								
Cotton	121·0	151·8	163·6	153·9	181·2	179·7	178·0	145·7
Jute	148·6	100·0	94·8	135·8	138·7	131·0	158·6	139·8
Mesta	103·3	98·5	136·5	174·7	221·5	194·4	224·1	165·4
All Fibres	*128·4*	*132·1*	*140·4*	*149·7*	*170·7*	*165·5*	*175·0*	*145·2*
(c) *Plantation Crops*—								
Tea	115·4	100·6	110·4	107·2	108·7	116·9	122·9*	124·0*
Coffee	125·9	146·5	151·8	196·1	204·1	229·8	241·2*	245·7*
Rubber	106·1	131·8	127·6	146·1	143·4	140·1	143·4*	137·9*
All Plantation Crops	*115·7*	*104·0*	*113·2*	*113·2*	*115·0*	*123·8*	*130·0*	*131·1*
(d) *Other crops*—								
Sugarcane	101·6	89·5	115·9	119·8	137·2	134·7	139·4	148·5
Tobacco	91·3	101·5	95·1	112·9	113·7	89·8	99·7†	102·4*
Potato	128·9	126·5	114·1	120·3	111·6	125·9	148·5†	172·8*
Pepper (Black)	102·8	113·3	127·3	132·6	131·6	128·2	122·9	122·4
Chillies (Dry)	98·0	104·9	131·9	122·9	120·8	125·3	112·8	117·3
Ginger (Dry)	89·6	90·9	94·3	105·7	102·3	102·3	82·8	90·2
NON-FOODGRAINS	*103·8*	*104·7*	*120·9*	*119·9*	*130·6*	*128·1*	*136·7*	*133·1*
ALL COMMODITIES	*102·0*	*114·3*	*117·0*	*116·8*	*124·0*	*114·6*	*132·3*	*127·2*

* Based on provisional estimates. † Based on Final Estimates.

Note.—The indices for 1957-58 and 1958-59 are based on partially Revised Estimates and those for 1959-60 on Final Estimates. They are, therefore, subject to revision.

The agricultural season is divided into two main sub-divisions the Kharif season of the monsoon and the Rabi season of the cold weather. This is not well-marked in the extreme east or extreme south.

The ground is generally prepared for cultivation in April and May for kharif crops, and by the end of October or early November for rabi crops, *i.e.*, after the kharif crops have been harvested. Kharif crops are sown in the monsoon, generally after the first shower. The usual time for sowing of rabi crops is the middle of November. The crops are harvested from the middle of March to the end of April.

The chief Kharif crops are : rice, jowar, bajra, maize, cotton, sugarcane, sesamum and groundnut. The chief Rabi crops are : wheat, barley, tea, gram, linseed, rape and mustard ; and in south India rice, jowar and cotton.

The harvest comes on the market as follows: Kharif crop (Nov. 1), Rabi crop (May 1), Rice (Nov. 1), Wheat (May 1), Sugarcane (Nov. 1), Cotton (Sept. 1), Jute (July 1), Kharif oil-seeds (Nov. 1), Rabi oil-seeds (April 1), Tea (Jan. 1), Coffee (July 1), Sugar (Jan. 1).

RICE

Rice crop occupies the largest area in the Indian Union, over 81 million acres giving 30 million tons of rice.

Madras, Bihar, Bengal, Orissa, Madhya Pradesh, Uttar Pradesh, Assam, Andhra, Maharashtra, Mysore, Kerala and Gujarat are the main rice growing States and they together claim about 95 per cent of the total rice area in India. About a third of the crop is irrigated, the bulk of the rice is winter crop, *i.e.*, sown in June-July and harvested in November-December, but there are rices grown in different seasons the harvest coming in summer, autumn or winter.

Rice yield in India is, however, one of the lowest in the world. The average yield is a fourth of that of Spain and Italy, a third of Japan, and half of what the Chinese and the American rice farmers obtain. At present 76 research stations spread almost all over the States of the country are working on similar

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problems of rice. Though about 4,000 distinct types of rice differing in essential characteristics occur in this country, 455 superior strains giving an average of 10 to 20 per cent better yield than the farmers varieties have been evolved.

Japanese Method

In the last few years the Japanese method has been tried with good results specially in areas of assured water supply. But many individual steps in this were evolved through research in India.

The statistics about Japanese method of production are given below :

	1956–57	1957–58	1958–59
Area under Japanese Method (in million acres)	2·374	3·997	5·823
Additional production (of rice in million tons) due to Japanese Method	0·800	1·2	1·79†
Yield in maunds per acre (of rice) by			
(a) Japanese Method	19·90	19·25	18·97†
(b) Local Method	13·33	10·99	10·99†

Complete data for 1959-60 are not available. † Incomplete and provisional.

In the Second Plan it was proposed to cover 8 million acres with Japanese method—1·6 mln. acres every year.

WHEAT

The area under wheat is about 31 million acres and production about 9 million tons. Wheat is grown widely throughout the north as a winter crop, U.P., M.P. and Punjab supplying over 72 per cent of the total outturn in the country. This crop occupies, on an average, about 10 per cent. of the total cultivated area.

More than one-third of the crop is irrigated.

The crop is generally grown after a summer fallow and except in irrigated tracts, depends largely on the conservation of the soil moisture from the previous monsoon. The crop is generally harvested in February to April and the threshing and winnowing go on up till the end of May.

A virulent fungus disease called rust affects the production of wheat to a great extent. In normal years, the loss is about 5 per cent involving about sixty million rupees. In other wheat growing countries, generally, one kind of rust only is a serious menace. Though in peninsular India only black rust is serious, northern India with the largest wheat area has to face the onslaughts of three different rusts, *i.e.*, black, red and yellow, each with a number of races.

Systematically planned work on the development of rust resistant wheats is being done under the ægis of the Indian Council of Agricultural Research and a large number of rust resistant varieties have been produced.

Besides these, varieties which have greater adaptability and yielding power are also bred.

At present improved varieties form only 16 per cent in M.P., 33 per cent in U.P. and about 70 per cent in the Punjab, of the wheat area of the respective States.

MILLETS

Mostly of short duration (2½ to 6 months from seed to seed) millets are grown in localities and in conditions where most of the other cereal crops are not grown, such as poor and infertile soils and low rainfall (of 20–50"). They are associated with the staple diet of lower rather than upper strata of society, and provide the chief cereal supplement for all regions outside the main rice and wheat tracts. Millet stalk form the chief food of the cattle population for about half the year in the millet regions of the country either in green or dry form. Some of them like jowar are grown in substantial areas solely for fodder purposes and special varieties are developed for forage purposes.

Jowar :—Among the millets jowar occupies a premier position because of the size of the crop and the economic importance of the grain. Annually about 43 million acres are grown under this to yield about 9 million tons of grain. Maharashtra, Andhra, Mysore, M.P. and Gujarat contribute to over ¾ of the natural acreage.

Bajra :—U.P., Rajasthan, Punjab, Gujarat and Maharashtra are the chief growing tracts. The duration of the crop varies from about 2½ to 5 months.

Ragi :—Ragi ranks the third in importance among the Millets and occupies about 6 million acres to produce about 1·8 million tons of grain. Its average yield is rather high, 9 mds. per acre. More than half the area is in Mysore, Madras and Andhra. Sixteen improved strains of ragi evolved in Madras and two in Mysore are being grown in these States.

Other Millets :—The others grouped under lesser or minor millets form about 1/6 of the total area under millets and are grown in about 12 million acres and yield about 1·8 million tons of grain. Some of them are of regional or local importance only and also of limited consumer demands. The most important among them are Kora or Kangni, Kodon, Cheena or Varagu, Oodalu, and Sawan.

COTTON

The total production for 1959-60 was actually 38 lakh bales owing to heavy rains in some areas and drought in others.

In the matter of distribution of improved seed also there has been a certain failure. Quantity targeted for 1958-59 season was 1,494,950 Bengal maunds, the quantity procured was 898,074, and the quantity distributed was 773,211. About fertilizers out of 44,650 tons which was the target, only 15,708 tons were available for distribution. In the provision of irrigation facilities however, the target was exceeded. The target area to be covered was 291,811 acres and the area actually covered was 334,178 acres.

During 1957-58 and 1958-59, 71 per cent and 72 per cent respectively of the total acreage under cotton were under improved varieties.

The share of different staple, was as follows :

	Percentage		
	Long	Medium	Short
1958-59	34·8	48·7	16·5
1959-60	43·6	39·8	16·6

The Sea Island cotton is gradually assuming commercial status. The total of lint produced from this cotton was 208 bales in 1958-59. The total area covered by this during the year was 3,955 acres against 1,049 for 1957-58. This cotton is grown on marginal lands in Mysore and Kerala.

The target area for 1959-60 for Kerala was 20,000 acres and for Mysore 10,000 acres.

Hybrid cotton is grown in Surat. But it has not made much progress. It is hoped that the use of a chemical FW-450 might reduce sterility.

The most important in the matter of self-sufficiency is the long staple variety—those possessing 1" to 1⅛" which are capable of spinning 40's and over. The acclimatised Egyptian variety being grown in Mysore could be raised as a summer crop in the Babbur area.

The evolution of Indo-American varieties and of Sea Island Andrews and hybrid cottons which can replace imported cottons constitute an important landmark in the progress of cotton research. Further work for isolating still better and finer types continues under three schemes in operation in the Punjab, Bombay,* Madras.

The target set for the long staples is 8·4 lakh bales.

The most important State so far as the production of long staple cotton in India is concerned is, of course, the Punjab.

FRUIT

A wide variety of fruit and vegetables is cultivated in the country.

The total area under all fruit at present is about three million acres.

Mango : 1,460,000 acres (primarily in U.P., Andhra, Bombay,* M.P., Bengal, Bihar, Madras, Mysore and Kerala).

Over 177·9 million maunds of grafted and seedling varieties of mangoes are produced annually. Out of this it is estimated that 17·7 million maunds go to waste ; 1·1 million are exported and 159·1 million are consumed in the country. About 6·9 per cent of grafted and 41·4 per cent of seedling mangoes are retained by producers and about 36·1 million are utilized for manufacture of products such as pickles, chutney, syrup.

In 1959 from Jan. to May over 14,000 cwts. of mangoes were exported to 37 foreign countries and they earned foreign exchange worth Rs. 7 lakhs.

Citrus (Mosambi, Malta Santra, Kagzhi Lime and others) : total 223,000 acres.

Mosambi and Malta : Bombay,* M.P., Orissa, Punjab, U.P. and Andhra.

Santra : Andhra, Assam, Mysore, Bombay,* M.P., Madras, Bengal, Punjab and Kerala.

Kagzhi Lime : Bihar, Bombay,* U.P. and Punjab ; (*Others :* Assam, Bihar and U.P.).

Jack-fruit : 164,000 acres (Bihar, U.P., Kerala and Madras).

Guava : 69,000 acres (U.P., Bihar, M.P. and Bombay*).

Grapes : 1,600 acres (Bombay,* Andhra, Madras and Himachal Pradesh).

Custard Apple : 110,000 acres (Andhra, Bihar and M.P.).

Pomegranate: 2,000 acres (Bombay* and U.P.).

Litchi : 21,000 acres (in the temperate plains of Bihar and U.P.).

Pineapple : 21,000 acres (in the coastal laterite soils of Assam, Bihar, Bengal, U.P. and Kerala).

Temperate Fruits :

Apple : 3,300 acres in the hills of U.P., H.P., Punjab, Madras and in Kashmir.

Pears : 1,200 acres (in the hills of U.P., Bihar and in Delhi).

Peaches : 1,200 acres (in the hills of U.P., H.P. and in Kashmir).

Plums : 1,100 acres (in the hills of U.P., Punjab and in Kashmir).

Sapota : 758 acres (Bombay* and Andhra).

Fig : 746 acres (Bombay* and U.P.).

Phalsa : 250 (Uttar Pradesh).

Date : 889 acres (U.P., Bombay* and M.P.).

Apricots : 630 acres (U.P. and H.P.).

Walnuts : 474 acres (U.P., H.P., Punjab and Kashmir).

Other fruits grown in India include Strawberries and Cherries in U.P. and Passion fruit, Persimon and Mango stem grown elsewhere in the country.

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Fruit products amounting to over 23,000 tons are now manufactured in the country by over 800 licensed factories in Amritsar, Bombay, Calcutta, Delhi, Lucknow, Madras, Mathura and other centres.

The production of fruits and vegetable products increased from 14,000 tons valued at Rs. 158 lakhs in 1953 to 32,000 tons valued at Rs. 383 lakhs in 1957. The annual production in 1958 is estimated at approximately 38,000 tons. Since 1958 the indigenous industry has been able to meet fully the local demand for these products.

The export of fruit products has also been steadily increasing. In 1953 this export amounted to 1,432 tons valued at Rs. 26 lakhs which increased to 1,726 tons valued at Rs. 32 lakhs in 1958.

In order to encourage the production and export of fruit products several concessions are given to the manufacturers through Directorate of Marketing by way of loans for starting new factories and renovating old ones, subsidy on tin-plate, rebate on excise duty on sugar etc.

Five million rupees have been allotted in the Second Five Year Plan for the development of the fruit preservation industry in the country. This includes provision (1) to advance loans through State Governments for setting up five large-scale and 200 small-scale units of fruit and vegetable preservation, (2) to grant subsidies on tin plates used in the canning industry, and (3) to set up regional research stations to investigate problems connected with fruit and vegetable preservation. It is expected that by 1960-61 the average annual production of the industry will increase from 23,000 to 50,000 tons with a corresponding rise in their export from 2,000 to 11,000 tons.

Loans of Rs. 1·882 mln. had been allocated through State Govts. during 1959-60 for setting up and renovating fruit and fruit preservation units. Manufacturers were given subsidies of about Rs. one million upto 1960 on tin-plates for sanitary cans used by them.

REGULATED MARKETS

One of the visible benefits of regulated markets, which work on democratic principles, has been the reduction in the market charges to extents varying between 29 to 50 per cent. The saving to the producer on this account is estimated to be Rs. 3 for every Rs. 100 worth of goods sold by him. Open auction system which yields better price to the producer has also been introduced in a majority of the markets. New market yards with modern amenities are also being provided.

Training of officials is arranged in Nagpur, Sangli and Hyderabad. 51 superior personnel of the State Marketing Deptts. and 143 marketing secretaries have received training so far. (Jan. 1961).

The Directorate is also entrusted with the development of the fruit and vegetable preservation industry and administers the Fruit Products Order promulgated under the Essential Commodities Act of 1955. This Order envisages the compulsory licensing of the manufacturers of fruit products for sale. The number of licences issued was 990 in 1958.

The Directorate maintains control over subsidiary laboratories in Kanpur and Rajkot for ghee and oils, in Bombay and Jamnagar for wool and at Cochin for essential oils. There would be three more Regional Laboratories, one at Amritsar, Calcutta and Guntur, and 50 additional laboratories of the composite type.

It has its counterpart in the States, as in Andhra, West Bengal, Bihar, Bombay,* Madras, Mysore and the Punjab.

The main functions of the organisation are: (1) Surveys of markets to collect information for development work, (2) Promotion of grading by fixing grade standards and effecting quality control, and the administration of the Fruit Products Order, (3) Organisation of regulated markets, (4) Training in agricultural marketing as well as co-ordination of the working of the Marketing Acts in the States and other agricultural marketing problems of the country, and also giving advice to the State and the Central Governments.

Surveys of market conditions were started soon after the Directorate was set up. As a result, five reports dealing with the production, qualitative and quantitative, internal and external demands, prices and price spreads, standardisation, markets and their operation, distribution channels, and the improvements imperative for the better marketing of 41 agricultural commodities (including cereals and pulses), 12 dealing with live-stock and live-stock products, 24 dealing with special crops have been published.

Ten major commodities among these, have been re-surveyed and reported again.

During 1960 marketing reports on mangoes, sugarcane, gur, sann-hemp, and pulses and two atlases have been published.

Grading and Standardisation

The Government of India passed the Agricultural Produce (Grading and Marketing) Act of 1937 to promote orderly marketing on the basis of statutory grades.

The Act authorised the Agricultural Marketing Adviser, to fix grade standards for different types and varieties of agricultural produce, prescribe grade designation marks to indicate each quality, and issue certificate of authorisation to persons or co-operative societies to grade and mark with "Agmark" their commodities on the basis of the standards laid down.

The organisation has developed standards for 117 agricultural and livestock products so far.

The following important commodities are graded under "Agmark" for consumption within the country: Rice, wheat, atta, gur, jaggery, fruit (mangoes, oranges, grapes, apples and sapota), potatoes, cotton, sugarcane, creamery butter, ghee, vegetable oils and eggs.

The following commodities are graded primarily for export purposes: cigarette tobacco leaf, sann-hemp fibre, essential oils (sandalwood and lemon-grass oils), wool and bristles.

The value of commodities graded Agmark on compulsory basis during 1959 was Rs. 302·2 mln. as against Rs. 289·3 mln. in 1958.

Extension of compulsory grading for export to the following commodities is envisaged in the Second Five Year Plan: cardamom, pepper, ginger palmrosa oils, vegetable oils, oilseeds, hand-picked groundnuts, cashewnuts, goat skins, goat hair, tanned leather, kapok, lac and myrobalans.

Grading is voluntary in the case of commodities consumed in the country. But, in the case of exported commodities by a notification issued (under Section 19 of the Sea Customs Act), it is ensured that only after grading would specified commodities be permitted for export.

The State Agricultural Produce Market Acts are in force in eleven States, namely, Andhra, Bombay,* Delhi, M.P., Madras, Mysore, Orissa, Bihar, Kerala, Tripura and the Punjab.

Of the 2,300 wholesale assembly markets in the country 701 are under regulation (May 1960). It was expected that more markets would be regulated by the end of the Second Plan, when the remaining States would also enact the necessary legislation.

By the end of the Third Plan all the important centres—these number 2,309 including cattle vegetable and fruit market—will be brought under regulation.

The total number of markets and the number of regulated markets State-wise are as follows (July 1959):—

Andhra 247 and 83; Assam 65 and nil; Bengal 212 and nil; Bihar 146 and nil; Bombay* 354 and 292; Kerala 41 and 4; M.P. 223 and 86; Madras 99 and 26; Mysore 113 and 68; Orissa 69 and 11; Punjab 126 and 128; Rajasthan 130 and nil; U.P. 377 and nil; Delhi 24 and 3; H.P. 14 and nil; Manipur 13 and nil; Tripura 56 and nil. Total 2,309 and 701.

The regulated markets are managed by Market Committees consisting of the representatives of the growers, the traders, local bodies and the State Government nominees. Producers are generally in a majority, and in several cases are elected chairmen.

Marketing, Processing: An integrated programme of marketing development embracing rural credit, marketing, processing, and warehousing is now proposed in the country, as a result of the recommendations contained in the Rural Credit Survey Report.

The main features of the programme are:—(1) Linking credit with marketing in the form of marketing societies; (2) Developing processing and distribution of farming requisite on co-operative lines, and (3) Promotion of storage and warehousing.

The Second Plan provided for the organisation and development of 1,900 primary and district marketing societies and one apex marketing society for each State and Union Territory.

During the first three years of the 2nd Plan, 1,063 societies were organized. The programme for 1959-60 and 1960-61 was to organise 545 and 261 societies respectively with a view to achieving the targets. Govt. of India's assistance in the first 3 years amounted to Rs. 19·5 mln. and provision of Rs. 12·73 mln. for 1959-60.

A National Agricultural Co-operative Marketing Federation was established in 1958 to promote inter-State and export trade through co-operatives.

Besides arranging the sale of agricultural produce the primary marketing societies also undertake the supply of agricultural requisites and other essential commodities to members.

The marketing societies are also being encouraged to take up inter-State export of surplus agricultural commodities.

Provision had been made in the Second Five Year Plan for State contribution to share capital and loans for processing units, *e.g.* sugar factories, cotton gins, jute, barley, rice milling.

It is expected that there would be 50 co-operative sugar factories, which will account for 20 to 25 per cent of the total production. The total investment on this will be about Rs. 500 million. (*See* article on the Sugar Industry). There were 21 cooperative sugar factories in operation during 1954 as against 2 in 1954. During 1958-59 season the cooperative sugar factories contributed 0·179 mln. tons to the total sugar production of 1·919 mln. tons or nearly 10 per cent.

The Second Plan proposed the establishment in all of 166 processing societies for cotton ginning, and rice and oil milling. Against this target, 98 units were established in the first 3 years of the plan as below: cotton ginning and pressing 42, groundnut decordicating 6, rice mills 13, oil mills 5, jute baling 2 and others 30. By the end of 1960-61 another 280 units were expected to be set up.

WAREHOUSES

The Second Five Year Plan envisaged the establishment of 4,000 godowns by large-sized societies, 1,500 godowns (mostly at Mandi centres or centres of trade importance) by marketing societies which are expected to handle about 10 per cent of the marketable surplus of the country, and a number of warehouses by the Warehousing Corporations. This will facilitate the disposal of the produce and prevent distress selling, for the benefit of members.

The primary societies will have godowns of 20,000 to 30,000 tons capacity and the apex societies 25,000 to 100,000 tons. Besides the marketing of agricultural commodities, the marketing societies arrange for co-operative crop processing plants and also distribute essential farming requisites (*viz.*, seed, implements, fertilisers, etc.). About 2,300 rural

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godowns and about 840 godowns at Mandi centres were established by 1958-59 and 1,045 and 544 respectively had been provided for 1959-60. Loans and subsidies amounting to about Rs. 37 million were given in 1958 and Rs. 23·55 million had been provided for 1959-60.

To arrest wastage of agricultural produce warehousing has been adopted as a national programme in the public sector. It is estimated that about three million tons of foodgrains alone go waste in the country owing to lack of efficient storage facilities.

A Central Warehousing Corporation was established in 1956 under the Agricultural Produce (Development and Warehousing) Corporation Act, 1956. By the end of 1960, 27 Central warehouses with a total storage capacity of about 12 lakh maunds were opened. They were located as follows: Andhra 3, Bengal 1, Bihar 1, Bombay (Maharashtra & Gujarat) 5, Delhi 1, Kerala 3, M.P. 1, Madras 2, Mysore 3, Orissa 2, Punjab 1, Rajasthan 2 and U.P. 2. The State Warehousing Corporations opened 65 warehouses till the end of September 1959. It was expected that the Central and State Warehousing Corporations would start 10 and 120 more warehouses, respectively, during the remaining months of 1959-60. The 2nd and 3rd Plan targets of the Central Corporation are 40 and 35 respectively.

Under the Second Five Year Plan, 350 warehouses with a total storage capacity of 55 lakh maunds were to be set up all over the country both by the Central and State Corporations. About 59 commodities are now stored in the warehouses including foodgrains, oilseeds, cattle fodder, raw cotton, cotton seed, raw jute, turmeric, gur, ginger and pepper. The storage capacity in Central and State warehouses during 1959-60 were 11 lakhs and 6 lakhs respectively. It is now proposed to provide for storage of other commodities also. In fact, schemes were ready for an air-conditioned warehouse in the Hoogly District of West Bengal for storing lac, a cold storage for potatoes and apples at Theog in Himachal Pradesh and a warehouse for coffee at Mangalore. Special arrangements have already been made for the storage of jaggery at the Central warehouse at Kolhapur, turmeric at Sangli and pepper, ginger and copra at Kozhikode.

A warehouse receipt is acceptable to bankers on the strength of which a depositor can obtain loans at comparatively low rates of interest without transferring physical possession of his goods. The rate of interest charged by the bank on such loans is much lower than at present charged on hypothecation of goods. The producer and the trader can use this loan for carrying on trade or agricultural operations and can also sell the produce when the market price is favourable by simply transferring the receipt to the buyer.

Workable grade standards are being evolved in respect of commodities for storing in the warehouses.

Progress, Organization

The stock position in the Central Warehouses improved from 97,500 maunds in June 1958 to 5,92,278 maunds at the end of Oct. 1959, while the storage capacity increased from 2,52,500 maunds to 8,27,875 maunds. The credit facilities extended by the Scheduled and Co-operative Banks to the depositors against receipts issued by the Central warehouses increased from Rs. 12,10,000 in June 1958 to nearly Rs. 2 crores in September 1959.

The State Corporations which started their activities in 11 out of the 13 States only in 1959, have been able to provide storage accommodation for about 15 lakh bags (about six lakh maunds) in the first six months of the year. Assam and Kerala are yet to open their centres. It is expected that before the end of 1959-60 these States will have their own warehouses.

The State-wise progress in warehousing activities is as follows:—

The first figure gives the number of warehouses already working and the second the number proposed to be set up during the year 1959-60:

Andhra 4, 4; Assam —, 2; Bihar 7, 8; Bombay* 8, 7; Kerala —, 3; M.P. 9, 11; Mysore 3, 5; Madras 7, 3; Punjab 1, 4; Rajasthan 7, 10; U.P. 12, 18; Orissa 4, 4; W. Bengal 7, 2.

Two types of Corporations have been provided for in the Act—the Central Warehousing Corporation which may be called the focal body and a State Warehousing Corporation in each State. Whereas centres of all-India importance figuring in export trade or inter-State trade are to be provided warehouses by the Central Corporation, the State Corporations are supposed to take care of centres of State importance only.

The Central Warehousing Corporation is guided by a Board of Directors consisting of all members of the Executive Committee of the National Co-operative Development and Warehousing Board, two directors nominated by the same Board, representative of the State Bank of India, four directors elected by the shareholders of the Corporation from amongst representatives of Scheduled Banks, Co-operative Societies, Insurance Companies, Recognised Associations and Joint Stock Companies dealing in agricultural produce, and one Managing Director appointed by the National Co-operative Development and Warehousing Board in consultation with the directors mentioned above.

At the State level, each Corporation has a similar Board of Directors consisting of five directors nominated by the Central Corporation, five directors nominated by the State Government in consultation with the directors and with the approval of the Central Corporation.

The authorised capital of the Central Warehousing Corporation is Rs. 20 crores divided into two lakh shares of the face value of Rs. one thousand each. Of this authorised capital, half was issued in the first instance in June, 1957. Under the Agricultural Produce (Development and Warehousing) Corporations Act, 1956, authorised capital of a State Warehousing Corporation will not exceed Rs. 2 crores divided into shares of the face value of Rs. one hundred each. The Central Corporation and the State Government concerned subscribe to the share capital of the State Corporations equally.

To man the warehouses which are being set up all over the country for efficient storage of agricultural produce, 138 warehousemen and Technical Assistants are being trained at Nagpur.

Under the training programme, 138 candidates were trained in 1959 as against 22 in 1957 and 86 in 1958.

The Second Five Year Plan provided for contribution from State Governments to the share capital of the State Warehousing Corporations.

The assistance is sanctioned by the Warehousing Board. The sanctioned assistance is as follows:—

	(Rs. million)
1956-57 for 616 godowns	4·773
1957-58 for 367 godowns	12·432
1958-59 for 1,090 godowns	11·952

In 1957-58 the Central Government advanced Rs. 1·34 lakhs to the States for the construction of 984 godowns by large sized societies and 435 by marketing societies. During 1959-60 and 1960-61 Rs. 60 million and Rs. 74 million respectively were advanced Rs. 40 million and Rs. 47 million respectively being as loans and the rest as grants.

COLD STORAGE

The present capacity of cold storage in the country is about 2·5 million maunds provided by 200 cold storages mostly run by private traders. This may go up to 3·0 million maunds by the end of the 2nd Plan. The plan has, therefore, provided Rs. 4 million for setting up 8 cold storages. Third Plan aim: 20 cold storages.

The Central Warehousing Corporation has set up a warehouse at Theog near Simla to provide specialised storage and quality grading facilities to growers of potato and fruits. A similar cold storage is planned in Delhi. 15 to 20 per cent of fruits and vegetable produced in the country go waste due to want of proper storage and marketing facilities.

Rs. 2 million had been earmarked by the Cooperative Wing as financial assistance for 1960-61 for cold storage. West Bengal, Maharashtra, Gujarat, Jammu & Kashmir, Mysore and Punjab States are expected to have co-operative cold storage plants during 1961.

AGRICULTURAL ECONOMICS

The Directorate of Economics & Statistics is one of the main organizations under the Central Government which deals with all agro-economic problems in the sphere of food and agriculture.

Steps initiated during the First Five-Year Plan continued during the 2nd Five-Year Plan as well and a provision of Rs. 5 million is provided in the State plans for schemes of improvement of land records and statistics.

The Directorate has a scheme for the improvement of marketing intelligence. This is being implemented in Andhra, Assam, Bengal, Bihar, Bombay*, Madras, Mysore, Orissa, Punjab, Rajasthan, U.P. and Delhi, H.P. and Tripura.

A Price Intelligence Organisation has been set up in the Directorate to study on a regular basis the flow of market supplies, market sentiment, factors leading to rise or fall in prices, crop outlook, market behaviour etc. to advise the Govt. from time to time in formulating proper price control measures.

Index numbers of agricultural production were compiled by Andhra, Assam, Bihar, M.P., Madras, Mysore and U.P. Similarly the index numbers of parity between the prices received and prices paid by the farmers were worked out in Assam, Bengal, Orissa and Punjab.

A research division has been set up in the Directorate to co-ordinate Farm Management investigations and also to conduct research in production economics.

The statistical wing of the Indian Council of Agricultural Research does fundamental investigation in statistics and also trains statisticians for field work.

The co-ordination of oil conservation work between the States and Territories is achieved through the agency of the Central Soil Conservation Board which was set up in the Ministry of Food and Agriculture in 1953. Similar boards are also set up in most of the States and Territories.

The Union Ministry of Food and Agriculture have also set up a National Co-operating Committee to organize research in arid and semi-arid regions of India and to collect information on arid zone research in the country and abroad and make it available to other countries through the UNESCO.

The Union Minister for Agriculture is the chairman. The Committee will also approve fundamental and applied research programmes for the several Divisions of the Central Arid Zone Research Institute, Jodhpur.

The Secretary of the Soil Conservation Board is the Secretary of the Committee.

Altogether nine research-cum-training centres have been established at the following places:—

1. Ootacamund (Madras) for erosion control in the Nilgiri and other hills;
2. Bellary (Mysore) for soil conservation studies in black soils;
3. Kotah (Rajasthan) with sub-centre at Agra for erosion control in the Chambal and Jumna ravines;

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4. Jodhpur (Rajasthan) for afforestation in the Rajasthan desert;
5. Dehra Dun (U.P.) for studying problems of afforestation in the Sivalik hills with the sub-station at Chandigarh (Punjab) for training *chos* (hill torrents);
6. Vasad (in the Gujarat tract for erosion control in the ravines along rivers in Gujarat.
7. Chandigarh (outer Sivaliks).
8. Chatra (water shed management).
9. Agra (Yamuna ravines).

The Board proposes to set up two more, one each in Orissa and Andhra to undertake research in red soil areas.

The station at Jodhpur has been upgraded as a Central Arid Zone Research Institute to carry out research on fundamental and applied problems of arid zones.

It is estimated that in the country as a whole about 200 million acres are exposed to erosion. Out of this about 100 million come under land under cultivation, 50 million acres are fallow and other uncultivated land and 50 million are desert mainly in Rajasthan.

Rs. 20·5 crores were allotted in the Second Plan (original) for conservation. The target is three million acres. The staff requirements are estimated at two hundred officers and five thousand assistants.

During 1959-60, 180 oil conservation schemes designed to benefit 0·946 mlln. acres and involving Central assistance of Rs. 37·7 mlln., were in progress. Also six pilot demonstration projects in the catchment area of Bhakra-Nangal (three in each in Punjab and H.P.) were also working costing Rs. 2 million to the Centre.

The area of land protected by soil conservation was in 1958-59, 106,000 acres of forest and 385,000 acres of agricultural land and in 1959-60 66,000 acres and 350,000 acres.

A Pasture Development Scheme for the reclamation and control of the Rajasthan desert was launched in the nine districts of Barmer, Bikaner, Churu, Jaisalmer, Jodhpur, Jhunjhunu, Nagaur, Pali and Sikar. The main feature of the scheme is the improvement of grass lands so as to provide adequate grazing to livestock all the year round.

The Desert Afforestation Research Station, Jodhpur was reorganised and research activities accelerated. Over 15 miles of new road-side plantations and about 15 miles of wind-break plantings along the road-sides of the Central Mechanised Farm at Suratgarh were carried out for stabilisation of shifting sands. Thirty-five sq. miles of barren lands have been closed for the natural growth of grass. Two more new tree nurseries were established for raising seedlings, thus raising the total number of nurseries to 17.

A proposal to expand the Central Arid Zone Research Institute, in collaboration with UNESCO in their Major Project on Scientific Research on Arid Lands, is being finalised.

An Integrated All-India Soil and Land Use Survey Scheme has been and is being executed by the Central Soil Conservation Board with four Zonal Centres at Delhi, Nagpur, Bangalore, and Haringhata, with effect from 1st March 1959. In accordance with the recommendations of Dr. C. E. Kellogg, the Survey is being carried out in order of priority in the catchment areas of the six river valley projects, namely Machkud, Hirakud, Chambal, Bhakra Nangal, Kosi and Damodar Valley and also in the non-catchment areas. Till the end of 1960 about 3·25 lakh acres of detailed soil survey and 13·25 lakh acres of reconnaissance soil survey had been completed as against the target of 10 lakh acres and 150 lakh acres respectively.

RESEARCH

The Indian Council of Agricultural Research co-ordinates research work, suggests programmes of research, gives financial assistance for approved schemes, and also undertakes schemes of its own.

The annual grants made to I.C.A.R. fall under two main heads :—(*a*) An annual Government grant for running the administration. This varies from year to year according to requirements, and averages about Rs. 1·35 million a year. (*b*) Payment of the net proceeds of the cess on agriculture produce. The income from this source is estimated at about Rs. 4·4 million annually.

Besides these, specific grants are made to I.C.A.R. for undertaking certain schemes from time to time. The total estimated expenditure (including the special grant) will be Rs. 5 to 8·5 million annually.

During 1959-60, 147 new schemes (agriculture 98 and others 49) were sanctioned at an estimated cost of over Rs. 8 million. These new schemes include investigations on grapes in Andhra Pradesh, date palm in Gujarat, fodder and acid soils in Kerala, rice, pulse and fruits in Madras, fruits and vegetables in Maharashtra, soil and its reclamation in Punjab and dry fruits in Himachal Pradesh. Coordinated scheme for the control of field rats were sanctioned in five States. Studies on various aspects of duck farming were approved for Andhra and Punjab.

In the field of agricultural research, extensive and intensive research was conducted in green manuring of rice, wheat and other crops.

Soil research in the control of weeds at the Bose Institute and at Coimbatore made it possible to prepare a co-ordinated scheme on a model pattern which has been put in operation in Assam, Madhya Pradesh, Bombay,* Punjab and Himachal Pradesh.

Several schemes designed to improve the nutrient status of soil were also undertaken. These include soil tests with a view to reclamation of waste land, research on humification of organic matter in relation to physico-chemical properties of soils and a scheme for the standardisation of methods of soil analysis.

For all-round improvement in vegetables, extensive research was conducted in various directions such as hybridisation, agronomic practices and resistance to disease and pests in Punjab, Himachal Pradesh, Uttar Pradesh, Andhra Pradesh, Bombay,* West Bengal, Jammu and Kashmir and Delhi.

The vegetables covered were brinjal, tomato, cabbage, cauli-flower, bhendi, peas, beans, turnip, gourds and leafy vegetables. Varietal trials were conducted on tuber crops.

Central Committees

A number of Central Committees have been set up to promote the production and marketing of agricultural commodities :

Indian Central Cotton Committee, Bombay.

Indian Central Jute Committee, Calcutta.

Indian Central Tobacco Committee, Madras.

Indian Central Oil-seeds Committee, Hyderabad.

Indian Central Coconut Committee, Ernakulam.

Indian Central Sugarcane Committee, New Delhi.

Indian Central Arecanut Committee, Kozhikode (S. India).

Indian Central Lac Cess Committee, Ranchi (Bihar).

All India Cattle Show Committee, Karnal (Punjab).

A number of research institutes, stations and farms are also maintained by the Central Commodity Committees :

The Indian Central Cotton Committee has :

1. Technological Laboratory, Matunga.
2. Institute of Plant Industry, Indore.

There are also 85 cotton research stations in the country.

The Jute Committee has :

1. Jute Agricultural Research Institute, Barrackpore (West Bengal).
2. Technological Research Laboratories, Tollygunge, Calcutta.
3. Economic Research Section, Indian Central Jute Committee, Calcutta.

There are two main central stations and 13 sub-stations for jute research.

The Tobacco Committee has :

1. Central Tobacco Research Institute, Rajahmundry.
2. Cigar and Cheroot Tobacco Research Station, Vedasandur.
3. Hookah and Chewing Tobacco Research Station, Pusa, Bihar.
4. Cigarette Tobacco Research Sub-station, Guntur.
5. Wrapper Tobacco Research Station, Dinhatta (West Bengal).

The Coconut Committee has:

1. Central Coconut Research Station, Kasaragod.
2. Central Coconut Research Station, Kayangulam.

Three regional stations at Thodupuzha, Kumarakam and Neyyattinkara all in Kerala State. And two more at Rajole in Andhra and Ratnagiri in Maharashtra.

In all, there are 11 sub-stations.

The Sugar Committee has :

Sugarcane Sub-Station, Karnal (Punjab).

Further, about 70 sugarcane research stations exist in the States.

The Indian Central Oil Seeds Committee has two regional centres for research, one at Tindivanam in Madras for the southern region, and the other at Kanpur for the upper India oil seeds.

There are also 90 sub-stations in different parts of the country, under State Governments.

These Committees are financed by the proceeds of a cess levied on the particular commodity. For instance, for the Cotton Committee there is a cess of As. 4 per bale of 400 lb. of cotton ; for the Coconut Committee there is a cess of As. 4 per cwt. on copra consumed in Indian mills ; for the Lac Committee the cess is As. 14 per md. of export of lac and As. 10 for refuse lac exported ; for the Oil-seeds Committee the cess is 1 anna per md. of oil extracted in mills, and annas 2 per md. of oil-seeds.

The Central Arecanut Committee has one central station at Vittal (Mysore) and four sub-stations elsewhere—Kolehalli (Mysore), Panancheri (Kerala), Palode (Kerala), Jalpaiguri (W. Bengal). The States of Kerala, Mysore and Orissa have their own stations.

Research Laboratories

The Ministry of Food and Agriculture maintains directly a number of research laboratories :

1. Indian Agricultural Research Institute, New Delhi.
   Sub-stations at Karnal (Punjab) and Pusa (Bihar).
2. Central Potato Research Institute, Simla. Laboratory, at Potato Multiplication Sub-division, Bhowali (U.P.).
   Laboratory, at Potato Breeding Sub-Station, Patna.
3. Central Rice Research Institute, Cuttack.
4. Sugar Cane Breeding Institute, Coimbatore. Sub-station at Karnal (Punjab) and Sahni Institute, Lucknow.
5. Central Vegetable Breeding Station, Kulu, P.O. Naggar, District Kangra (Punjab).

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Five regional stations for conducting research on fruit and vegetable preservation have been opened in different States of India, one each in Punjab, U.P., Madhya Pradesh, Bombay* and West Bengal. This arises out of a recommendation made by the I.C.A.R. Fruit and Vegetable Development Committee. It was recommended that two of these regional stations should be opened in 1957-58 and the other three in 1958-59.

Agricultural Colleges

There are 34 agricultural colleges in India. Bapatla and Hyderabad (Andhra), Jorhat (Assam), Tollyganj (Bengal), Sabour and Ranchi (Bihar), Anand and Junagadh (Gujarat), Poona, Nagpur, Akola, Parbhani, Dhulia, Amravati (Maharashtra), Vellayani (Kerala), Coimbatore (Madras), Gwalior, Jabalpur, Sehore, Rewa (M.P.), Dharwar, Hebbal (Mysore), Cuttack (Orissa), Ludhiana, Amritsar (Punjab), Jobner, Udaipur (Rajasthan), Azamgarh, Allahabad, Baraut, Banaras, Agra, Lakhoti, Kanpur (U.P.).

The Central College of Agriculture has been converted into a university to provide courses in post-graduate degrees including Ph.D.

There is also an agricultural university now at Rudrapur in U.P. There will be three constituent colleges, Agricultural, Animal Husbandry and Veterinary Sciences, and Agricultural Engineering and Technology. There will be provision for training 325 graduates annually.

LAND POLICY

The land policy of the Government of India has been formulated for the promotion of agricultural production and for the provision of social justice in the rural economy. The agrarian reform undertaken by the various State Governments during the past few years fall generally into four broad classes :—

(1) The abolition of intermediaries.

(2) Tenancy reform designed to, (*a*) Scale down rents to 1/4–1/5 of the produce, (*b*) to give permanent rights to the tenants (subject to the landlord's rights to resume a minimum holding for his personal cultivation within a limited time) and (*c*) to enable tenants to acquire ownership of their lands (subject to the landlord's right of resumption for personal cultivation) on payment of moderate compensation to the landlord spread over a period of years.

(3) Fixation of ceiling on holdings.

(4) Reorganisation of agriculture including (*a*) Consolidation of holdings, (*b*) Prevention of fragmentation and (*c*) Development of co-operative village management and co-operative farming.

With the exception of Andhra (Hyderabad) and Punjab no State has so far made provision for regulating the standards of cultivation and management of land and resumption of land in case of failure to maintain these standards. Some of the agricultural legislations in Orissa and Himachal, however, have some provision for this, more or less of an obligatory nature.

Judging by the progress already made, it is expected that all the States in the Union would have enacted land reform legislation for the prescription of ceilings and ensuring fixity of tenure to the cultivator by the end of 1959.

This was the time-table adopted by the Nagpur Congress and subsequently endorsed by the National Development Council early in 1959.

With the completion of the necessary legislation, it should be possible to complete the process of implementation of these land reforms by the end of the current plan period.

The view taken in the Planning Commission is that once the land is redistributed on the basis of the current legislation, the land system should not be disturbed for a period of about 15 years thereafter.

Such an assurance of fixity of tenure is considered desirable so that the peasant can give his undivided attention to improving his cultivation and increasing yields without any sense of uncertainty or anxiety.

Since the farmer is being called upon to increase agricultural production in the Third Plan and produce about 110 million tons of food grains by 1965, it is also considered necessary to relieve his anxiety about the trend of agricultural prices.

The Government is accordingly working out a scheme for the fixation of guaranteed minimum prices for rice and wheat and possibly one or two other coarse grains.

It is proposed to announce prices for a period of between three and five years. This will be a long-term floor price at which the Government will undertake to support the market.

Additionally, it is proposed to announce official "purchase prices" before the commencement of each sowing season. The purchase price will be higher than the minimum price and will be the price at which the Government will purchase grains to build up its food reserves.

Ceiling prices may not be necessary as it will be possible for the Government to check any undue upward trend in prices by suitable buffer stock operations.

Guaranteed minimum prices are already in existence for sugar-cane and cotton, but jute prices collapsed last season following a spurt in production and the absence of any price guarantee.

In respect of land reforms, a number of States such as Punjab, Assam, Kashmir and West Bengal adopted the necessary legislation some time ago. Andhra, Madhya Pradesh, U.P., Bihar and Mysore have Bills on the anvil while the Kerala Agrarian Bill obtained the President's assent and has been passed by the Assembly.

Some States such as Mysore proposed to hold special sessions of their legislatures in order to enact legislation before the end of 1959.

The legislation already adopted or now before the legislatures is expected generally to conform to the ceiling and exceptions proposed by the Planning Commission.

The Commission has recommended ceilings at a level that will yield an income of Rs. 3,600 per annum on the basis of current agricultural prices.

In the interests of agricultural production, it has further recommended that large and efficiently managed farms as well as plantations and orchards should be exempted from the ceiling.

The Andhra Bill, which is before a select committee, proposes a ceiling of Rs. 5,400 per annum and makes no exemptions.

The Revenue Minister of the State was, however, advised by the Planning Commission that the Bill should conform to the pattern of ceilings and exemptions outlined in the Second Plan report.

The Madhya Pradesh Bill, which is also at the select committee stage, provides for a ceiling of 32 standard acres. The State Government has been asked to work out what this will mean in terms of income as it appears that the current income accruing on such a property is likely to exceed Rs. 3,600 per annum.

The U.P. Bill, also at the select committee stage, fixes the ceiling at 40 acres. The State authorities have been requested to work out the income ceiling on this acreage.

The Kerala Bill, sponsored by the Namboodiripad Government, placed the ceiling on an acreage—fifteen acres of wet land—that is likely to yield less than Rs. 3,600 per annum. The exemptions are also less liberal than those recommended by the Planning Commission.

The Maharashtra Bill, which has been passed, prescribes an acreage ceiling, but with an income yield of approximately Rs. 3,600.

Bihar proposes to introduce a Bill with a ceiling in terms of standard acres, but again with an income yield of about Rs. 3,600 per annum.

Details on specific questions are given below.

ABOLITION OF INTERMEDIARIES

Intermediaries have been abolished practically throughout the country with the exception of a few small pockets. There is no legislation yet for temporarily settled estates in Assam and for certain *Inam* estates in Madras.

In Orissa legislation for the abolition of intermediaries has not been fully implemented.

The share of the intermediaries who formerly cultivated about 43 per cent of the cultivated area of the country has now been reduced to about 8·5 per cent.

The position with regard to the abolition of intermediaries in the country as a whole is as follows :

	In million acres	Percentage of total area.
Area in which intermediary tenures existed	343·8	43
Area in which legislation for the abolition of intermediaries has been passed	322·3	40
Area in which the abolition of intermediaries has been effected ..	306·0	38
Area in which intermediaries remain ..	37·8	5

Andhra Pradesh : Intermediaries have been abolished in the former State of Andhra, and *Jagirs* have been abolished in the Telangana area. Legislation for the abolition of *Inams* (other than religious, charitable and village service *Inams*) has been passed but not implemented.

Assam : Zamindari rights have been abolished over an area of 1·82 million acres, of permanently settled estates in Goalpara District. Subordinate tenures remain as also temporarily settled estates.

Bengal (West) : Intermediaries have been abolished.

Bihar : Intermediaries have been abolished.

Gujarat : Intermediaries have been abolished in the Saurashtra area. A draft bill for the abolition of the *Jagirdari* system in the Kutch area was under consideration.

The State Assembly passed into law the Gujarat Land Ceilings Bill on February 23, 1961 fixing compensation for the excess land.

Jammu and Kashmir : Legislation for the abolition of intermediary interests in land held by occupancy tenants and inferior owners is under consideration.

Kerala : *Edavagai* estates are abolished. Bills are under consideration for the abolition of intermediary interests in *Pandaramvake* (Temple) lands and to acquire the interests of *Jemmies*.

Madhya Pradesh : Intermediaries have been abolished in the State except where land is held under *Muafis* and *Inams*.

Madras : Intermediaries have been abolished except in post-1936 *Inams* and *minor Inams*.

Maharashtra : Intermediaries have been abolished in the area covered by the former Bombay State with the exception of religious and charitable *Inams*. Intermediaries have been abolished in the Vidarbha area also.

Mysore : Religious and charitable *Inams* have been abolished in the area of the former Mysore State. Legislation for the abolition of personal and miscellaneous *Inams* has been passed. Proposals for the abolition of *Jagirs* in the Coorg area are under consideration. And *Jagirs* have been resumed in the North Karnatak.

* Bilingual.

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Orissa : All *Zamindaris* have been abolished. Abolition of *Inams* and subordinate tenures of intermediary nature is in progress.

Punjab : Intermediate tenures (superior owners and landlords of occupancy tenants) have been abolished and inferior owners and occupancy tenants made the owners of lands.

Rajasthan : In former Rajasthan all settled *Jagirs* with rental income of Rs. 5,000 resumed. *Jagirs* of religious and charitable institutions are being resumed. Legislation for the abolition of *Zamindari* and *Biswedari* tenure was passed in December 1958. Abolition of estates is being completed in Ajmer region. Estates with a total income of Rs. 1·469 million have been resumed.

Uttar Pradesh : Intermediaries have been abolished (except in the Kumaon Hills where a Bill for this purpose is on hand). 1·5 million sub-tenants and tenants of *Khudkasht* holding 2 million acres have thus been brought in direct contact with the State.

Delhi : All intermediary interests acquired.

Himachal Pradesh : Legislation for abolition of intermediary interests made, but not enforced.

Tripura : Legislation for abolition of intermediary interests is in progress.

COMPENSATION

Apart from the annual payment to be made to religious and charitable institutions whose estates were brought under the State, the compensation payable for the aquisition of intermediary rights was estimated at Rs. 625 crores (including 389, 86 and 150 crores of rupees for compensation, rehabilitation grants, and for interest payments respectively).

The entire position in regard to compensation as at the end of 1960 is shown by the table below:

(Rupees in Crores)

State.	Compensation and rehabilitation grant payable (including interest).	Amount paid.
Andhra Pradesh ..	16·24*a*	11·23*a*
Assam	5·18	0·96
Bihar	240·00	4·61
Bombay*	28·74	7·96
Madhya Pradesh ..	22·10	9·78
Madras	6·37	4·17*b*
Mysore	3·91	1·07
Orissa	10·50	0·47
Rajasthan	40·50	6·74
Uttar Pradesh	179·00	78·88*c*
West Bengal	70·00	3·01
Kerala	0·20	..
Total	622·74	128·38

a. Including the whole of former Hyderabad. *b.* Including interim payments to religious and charitable institutions in lieu of interests and annuities amounting to Rs. 11·9 and Rs. 7·2 million respectively. *c.* Excluding interim annuity, interest and contributions to religious and charitable institutions.

TENANCY REFORM

With the abolition of intermediaries, the tenures come under two broad categories, *i.e.* (*i*) owners who hold land directly from the State ; (*ii*) and the tenants who hold land from owners. Their rights and obligations are regulated under tenancy laws enacted in the States. Thus the multiplicity of tenancy has been considerably reduced, and in the most parts, tenants who hold land under intermediaries have now become owners of land.

Scaling down rents—Land revenue assessment : Legislation has been adopted in all States for the regulation of rent.

The Plan recommendation is that it should not exceed one-fourth or one-fifth of the gross produce.

But the rent fixed however varies with the State.

In the following States the maximum rent is fixed at one-fourth of the gross produce : Assam, parts of Mysore, Orissa, former Hyderabad, the territories of Delhi and Himachal Pradesh. It is seven-twentieths in Bihar, one-third to two-fifths in Madras, and one-third in the Punjab.

In the following the maximum is one-sixth : pre-reorganization Bombay and Rajasthan.

In the following the maximum is fixed at half: former Andhra, West Bengal and Jammu and Kashmir.

In Kerala the Agrarian Relations Act provides for a maximum rent of between one-fourth and one-sixth for paddy lands, and between one-third and one-twentieth for other lands. The Act came into force on March 1, 1961.

In other States the rent is fixed at one-third.

The enforcement of laws for the reduction of rent has been difficult, as rent regulation cannot be effective unless it is accompanied by security of tenure.

Further, regulation of crop share rent is difficult to enforce. Therefore in some States like Andhra and Bombay* the maximum rent is fixed as a multiple of land revenue as suggested in the Second Plan.

Security of Tenure : The Second Five Year Plan has recommended that ejectment of tenants and sub-tenants should be avoided except in the case of non-payment of rent and misuse of land. A large number of States have already taken steps to protect the tenants by the provision of (*i*) temporary protection to tenants from eviction till comprehensive Tenancy Act is passed, (*ii*) fixity of tenure on qualifying basis, and also by (*iii*) allowing resumption by the landlord on a prescribed basis, and (*iv*) giving permanent protection or ownership.

Temporary Protection : Pending enactment of adequate legislation, ejectment of tenants and sub-tenants have been stayed for varying periods prescribed by law in Andhra, Kerala, Madras, Madhya Pradesh, Manipur, Mysore, Orissa and Punjab.

Fixity of Tenure : A number of States legislated to provide for fixity of tenure and restricted grounds on which landlord could eject them, either on a qualifying basis (*i.e.* tenants holding land for a specified period and or by prescribing conditions for the resumption of limited land by the landlord). Security of tenure on the qualifying basis of occupancy or other conditions have been granted in some States 6-10 years in Andhra ; 12 years in Mysore, the PEPSU area of the Punjab and Bihar ; 3-7 years in Madhya Pradesh, and 6-12 years in the Punjab.

The following table shows the position about security of tenure :

Position.	Area in million acres.	Percentage of total.
I. *Complete Security :*		
Area in which landlord is not allowed resumption by ejecting tenants	73·0	9
II. *Partial Security :*		
(*a*) Area in which landlords' resumption is permitted after leasing a minimum holding to the tenant	278·4	34
(*b*) Area in which a ceiling limit is put on resumable area, but, no provision against tenant's becoming landless	193·8	26
(*c*) Area in which tenants have temporary protection	156·0	19
III. *No Security :*		
Area in which no security of tenure exists ..	99·7	12
TOTAL	800·9	100

Resumption : Security of tenure was conferred on tenants subject to landlords' right to resume land for personal cultivation in Bombay,* Himachal Pradesh, and Rajasthan. Tenants can retain a minimum holding or a portion thereof, such as half the area in Bombay,* ¾ in Himachal Pradesh, 5 standard acres in Punjab or a minimum holding with a net income of Rs. 1,200 (exclusive of the cost of the labour and the labour of the family) in Rajasthan. Subject to the above conditions the landlord's right to resume and for personal cultivation is limited to 3 economic holdings (*i.e.* 12-48 acres) in Bombay*, 5 acres in Himachal Pradesh, 30 standard acres in Punjab and the area in excess of the minimum holding to be left with the tenants in Rajasthan.

In other States also a limit has been fixed on the area which a land owner may resume for personal cultivation.

Legislation has been put through in most of the States prescribing a basis for the resumption of the land by the landlords, as shown below : *Assam :* Landlords can resume ⅔ of the area owned subject to a minimum of 5½ acres and a maximum of 33⅓ acres ; *Bengal :* Limit on resumption has been placed at ⅔ of the area owned ; *Jammu and Kashmir :* 2-6 acres ; *Madras :* Owners with 12½ acres of wet land or less can resume for personal cultivation half the area leased, subject to a maximum of 5 acres ; and in *Orissa :* Owner has a right to resume an area upto 7 standard acres of wet land or 14 acres of dry land for personal cultivation. But in Bengal with regard to *Bargadars* (crop sharers) the landlord may resume only ⅓ of the area if it is more than 7½ acres, but all, if it is less.

Himachal : ¼ upto a maximum of 3 acres ; *Andhra :* 3 family holdings ; *Mysore :* 50 to 75 per cent ; *former Bombay :* ½ upto a maximum of 3 economic holdings ; *Hyderabad :* 3 family holdings.

A basis for resumption had to be found to prevent large-scale ejectments. In the Second Plan a distinction was made between owners who own a family holding or less and others who own land exceeding a family holding. It was suggested that owners in the former class may be permitted to resume one-half of the area leased, and if thereby a tenant's holding is reduced to less than a basic holding the Government should find extra land for the tenant. About land-owners in the second category resumption is subject to the tenant's right to retain minimum land between a basic and a family holding.

The definition of 'personal cultivation' also presented difficulty. In most State legislation the definition is made specific and comprehensive.

* Bilingual.

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Ownership Right for Tenants: In most States legislation provides for the conferment of ownership right on tenants and in some cases with the option left to the tenants. The right of purchase relates only to areas which a landowner cannot resume even on grounds of personal cultivation.

In Uttar Pradesh, West Bengal and Delhi all tenants and sub-tenants were brought in direct relation with the State. No compensation was payable by tenants as the State undertook the reponsibility for paying compensation to landlords out of the rents recovered from the beneficiary tenants. But in Delhi compensation was recovered from tenants who would be required to pay land revenue to the State.

Restrictions and Conditions: In some States tenant's right to purchase was restricted as follows: *Andhra* (Hyderabad), *Bombay** (Marathwad, Kutch): Only protected tenants were conferred the rights; *Madhya Pradesh and Himachal:* Only for occupancy tenants; *Punjab:* Only such tenants of non-resumable areas (in continuous possession for six years) were permitted to buy; *Mysore:* For continuous possession for twelve years; *Bombay*:* Only protected tenants. The time limit for purchase was fixed as follows: Where the right to purchase ownership is optional, the tenant can exercise it in time at his discretion. But in Bombay* and Madhya Pradesh (former Madhya Bharat area) the right must be exercised within a prescribed period.

Compensation to Landlords: Compensation payable by tenants for the aquisition of ownership varied from State to State except in the Punjab (where it is fixed at ¾ of the average market value), compensation is generally a multiple of rent or land revenue. In Andhra (Hyderabad 6–15); Madhya Pradesh (Madhya Bharat: 2–8 of the net income of landlord); Ajmer: 12; former Vindhya Pradesh: 15; former Madhya Pradesh (7–10); Rajasthan (for unirrigated lands): 10 and Uttar Pradesh 10.

In the Travancore part of Kerala it is fixed at eight and a half times the net annual income.

The compensation is fixed as a multiple of the assessment in four States:—Bombay*: 20–200 times of the assessment; Delhi: 20–40; Himachal Pradesh: 48 and Punjab (PEPSU): 90 times of the assessment. This compensation is generally payable in instalments (except in former Madhya Pradesh) spread over a period of 5–15 years.

The optional right to purchase is seldom exercised. Tenants required persuasion and help. In Gujarat and Uttar Pradesh the State Governments had to organise administrative drives to persuade tenants to become owners of land. The State Government (in former Saurashtra) provided even credit facilities amounting to about Rs. 20 million through the Land Mortgage Banks to enable the tenants to acquire ownership rights.

The Second Five Year Plan had recommended that tenants of non-resumable areas should be brought into direct relationship with the State, but the total burden, including land revenue and instalment payments towards purchase price, should not exceed the level of rent recommended in the Plan.

FIXATION OF CEILING

Ceiling on Holding: There is a general movement towards fixing a maximum and minimum on land holdings, as an aspect of land reform. This relates to (1) the absolute amount of land which any individual may hold and (2) the future acquisition of land.

Existing Holding: Legislation was enacted in the following States for the fixation of ceiling on existing holdings:—Andhra (Telangana): 4½ family holdings (18-270) acres; Assam: 50 acres; Bengal: 25 acres; Gujarat (Kutch): 72-270 acres; Himachal Pradesh: 30 acres in Chamba (in other areas land assessment at Rs. 125); and Jammu and Kashmir: 22¾ acres.

Maharashtra (Marathwada 18-270 acres and Vidarbha 42-240 acres); Mysore (former Hyderabad area) 18-270 acres; Punjab (Pepsu) 30 standard acres and for displaced persons 40 standard acres.

The legislation is enforced only in Andhra† (Hyderabad), Bengal and Kashmir. Implementation has been completed in Jammu & Kashmir where 23 million acres have been distributed. In Bengal Government came into possession of 13 million acres of land which is given on yearly lease to landless workers. The Punjab Government has begun implementation of the law to assume management of lands held by owners under personal cultivation in excess of 30 standard acres (50 standard acres for displaced persons). This does not apply to the efficiently managed estates whose break up may lead to a fall in production.

Ceiling has also been applied to lands held by intermediaries in Madhya Pradesh, and Rajasthan (Ajmer). In Maharashtra the Land Ceiling Bill was passed in the Legislative Assembly on 30th March 1961.

Future Holdings.—In various States ceiling has been placed on future acquisitions:—Andhra (Telangana): 3 family holdings (12-180 acres); Assam: 50 acres; Bengal: 25 acres; Gujarat (former Bombay 12-48 acres, Saurashtra 60-120 acres and Kutch 36-135 acres); Delhi: 30 standard acres; Jammu and Kashmir: 22¾ acres; Madhya Pradesh (Madhya Bharat): 50 acres (and for displaced Persons) 40 standard acres; Maharashtra (former Bombay area 12-48 acres, Vidarbha 12-120 acres); Mysore (North Karnatak 12-48 acres, former Hyderabad 2-180 acres); and Uttar Pradesh: 12½ acres.

Legislation is under way in the following States:

Kerala: fixation of ceiling on future acquisition and existing holdings varying from 15 to 30 acres.

M.P.: provides ceiling on future acquisition.

Mysore: provides ceilings on existing holdings as well as future acquisitions at a level yielding a net annual income of Rs. 3,600.

Andhra: ceilings on existing holdings at a level yielding a net annual income of Rs. 5,400 and a ceiling on future acquisition at the level of Rs. 3,600 annual income.

The idea of ceilings is accepted. Census to collect data have also been held in most States. The ceiling recommended in the Second Plan is three family holdings. To define precisely what a family holding is Government appointed a a small group of experts.

State	Existing Holding		Future Holding	
	Land yielding net income of Rs.	Acres	Land yielding net income of Rs.	Acres
Andhra Pradesh	5,400	....	3,600	....
Bihar	....	30 – 90	....	30 – 90
Bombay*	3,600	–	3,600	–
			or existing limit whichever is lower	....
Kerala	....	15 – 37½	....	15 – 37½
Madhya Pradesh.. ..	....	32 – 96	....	32 – 96
Mysore	3,600	....	3,600	....
Orissa	....	33 – 99	....	33 – 99
Rajasthan..	....	30 std.	....	30 std.
U.P.	....	40 – 80	....	40 – 80
Delhi	....	30 std.	....	30 std.
Manipur	....	25	....	25
Tripura	....	25 std.	....	25 std.

CONSOLIDATION

(a) Size of Holding: The average size of a holding for the whole of India is 7·5 acres, but this varies from State to State: Assam 5·3 acres, Bihar 4·1 acres, Bombay* 4·5 acres, M.P. 13·9 acres, Madras 9·7 acres, Orissa 5·6 acres, Punjab 11·8 acres, U.P. 5·3 acres, W. Bengal 4·7 acres.

Kashmir 3·8 acres, Kerala 2·4 acres, Mysore 7·2 acres, Rajasthan 16·9 acres.

The majority of the holdings will be less than 5 acres, a great majority indeed less than 2.

The proportion of households that held either no land or less than five acres was about three-fourths, and the total share was about one-sixth of the whole area of cultivated land.

(b) Consolidation of Holdings: Legislation towards consolidation of holdings has been enacted in the States of Bombay*, Madhya Pradesh, Punjab, Delhi, U.P., Jammu and Kashmir, Assam and Himachal. Special provision for consolidation of holding has also been incorporated in the Tenancy Acts of Bengal, Bihar, Mysore, Orissa, Andhra. Consolidation work has so far been undertaken in Andhra (Hyderabad), Bihar, Bombay*, Delhi, Himachal Pradesh, Madhya Pradesh, Mysore, Rajasthan and Uttar Pradesh. The total area consolidated upto the end of June 1959—the latest available—

* Bilingual.

† The Andhra Govt. announced on May 4, 1961 Ceiling on Agricultural Holdings Act would come into force from June 1961.

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is over 19 million acres completed and 10½ million acres in progress as shown in the table below.

The Second Plan target was 38 million acres. The State plans had a provision of Rs. 3·82 crores for the purpose. The Centre was to contribute 50 per cent of the net expenses incurred by each State. During 1958-59 a Central grant of Rs. 5·935 million was approved and in 1959-60, Rs. 7·917 million.

Area consolidated

(In million acres)

States	Completed upto June 1959	In progress
Andhra Pradesh ..	..	0·236
Assam	..	..
Bihar	..	0·072
Bombay*	1·812	1·895
Delhi	0·202	..
Himachal Pradesh ..	0·063	0·020
Madhya Pradesh ..	3·339	0·260
Madras	..	..
Mysore	0·749	0·401
Orissa	..	..
Punjab	9·555	4·283
Rajasthan	0·397	0·716
Uttar Pradesh	3·070	2·645
Total	19·187	10·528

(b) Prevention of Fragmentation: Legislation disallowing fragmentation has either been enacted or in the process of enactment in fifteen states. U.P. below 6¼ acres; former Hyderabad below a basic holding ranging from 2-24 acres; Rajasthan below a size to be determined by the State Government; Delhi below 8 standard acres; Madhya Pradesh below 5 acres of irrigated or 10 acres of dry land.

SERVICE CO-OPERATIVES

The National Development Council reviewed the co-operative programme and called for the organisation throughout the country of service co-operatives.

In a sense, all co-operatives are engaged in providing services to their members. A distinction can, however, be drawn between production co-operatives, which undertake production in their corporate capacity like a joint co-operative farming society and service co-operative, where the operations of agriculture are carried out individually by the members while common services are provided by the co-operative.

The service co-operatives, are expected to assume total responsibility for economic development at the village level by providing all essential supplies and services necessary for increasing agricultural production. The aim is to ensure that every family engaged in agricultural production is represented in the service co-operative, and that everyone obtains credit and supplies necessary for implementing his agricultural production programme.

The service co-operative concerns itself with the provision of short and medium term credit, the supply of agricultural production requisites and standardised consumer goods. It should also arrange for the marketing of agricultural produce through marketing societies in mandis and help in formulating and implementing agricultural production plans of the members and do such educative, advisory and welfare work as may be feasible.

The membership and turnover of the service co-operative in the initial stages will naturally be restricted, while the minimum expenditure that it will have to incur will be considerable. Government have, therefore, decided to subsidise each society to the extent of Rs. 900 a year over a period not exceeding five years.

The village co-operatives are also to have the facility of godowns constructed for a group of villages by the marketing co-operatives to whom necessary loans and subsidies are to be provided by Government.

The service co-operatives are to be linked to district co-operative banks, on the one hand, and marketing societies in the Mandis on the other.

Deposits today constitute only about 8 per cent of the working capital of agricultural credit societies. Since nearly 45 per cent of the national income in India comes from the rural sector, it is obvious that, unless co-operatives mobilise savings from the rural sector, it will be difficult to find adequate resources from outside. Hence thrift and savings are to be an integral and vital function of the service co-operative.

According to the National Development Council's resolution, village co-operatives are to cover the entire rural population by the end of the Third Five Year Plan. During the Second Plan 3,000 co-operatives should be started. Six hundred were to be started in 1958–59. At the beginning of 1960 over 38,795 service co-operatives were in existence—about 50 per cent of the villages and 20 per cent of the rural population are within the fold of co-operatives. There are about 168,000 societies, out of which about 100,000 require activisation. The programme envisaged by the National Development Council involves revitalisation of these dormant and moribund societies and organisation of another 100,000 new societies and expansion of membership and functions of all village co-operatives.

The programme for 1960–61 envisaged the establishment of about 33,000 societies. By the end of Second Plan thus there would be 70,000 odd service co-operatives throughout the country. Together with the existing societies, these are expected to serve 20 million rural families and to supply credit of the order of Rs. 200 crores.

Co-operation is now a subject for the degree in commerce at the universities of Bombay, Madras, Gujarat, Baroda, Andhra, Kerala and Vallabh Vidyanagar.

CO-OPERATIVE FARMING

(For statistics see the tables in the article on the Co-operative Movement.)

A note on different types of co-operative farming would be in place here.

Co-operative farming is an organization "in which each cultivator would retain his right in his own land, but the cultivation operations would be carried on jointly. The expenditure would be met from a common fund and deducted from the gross income. The net income would be distributed among the cultivators in the proportion of the land belonging to each".

The main features of co-operative farming are thus: that land is formed into a single unit; proprietorship rests with the individuals; management is carried on jointly, the members are paid for their work; and the net profits distributed among the members after setting aside money for building reserves.

The main purpose of such type of farming is to secure economy in the use of machinery, and the advantages of large-scale farming.

The societies formed for co-operative farming get State assistance in the form of lower assessment, loans for the purchase of seeds, supply of manure and other implements at concessional rates, and contribution towards share capital without sharing in profits. The money along with the interest is repayable in instalments.

The co-operative farming societies have been classified into four kinds:—

(i) Co-operative Better Farming Society: This is organised for the purpose of introducing improved methods of agriculture. It helps to promote the use of improved seeds, implements and manures. It can undertake bunding, irrigation, joint harvest and marketing of produce. In this system each member is responsible for the cultivation of his own land except for the specific purpose for which he joins the society. Land is not pooled.

(ii) Co-operative Joint Farming Society: The objects are: to purchase or take on lease lands for cultivation; to purchase, erect and repair residential buildings, cattle-sheds and godowns to facilitate joint farming; to purchase farming requirements, to sell and process the farm produce; to raise funds on the security of lands, crops and other assets for the purpose of giving loans to the members; to undertake cattle breeding, dairy farming, vegetable growing and fruit gardening; to arrange for expert advice and the spread of agricultural education among the members of the society. This type of society is particularly suited for solving the problem for fragmentation and sub-division of holdings.

The land belonging to the members is pooled but proprietorship rests with the individual members. Members work on the pooled land in accordance with the decisions of a Committee elected by it. A manager is appointed by the Committee. They work jointly and each member gets wages for his daily labour. The produce is jointly disposed of and the proceeds after meeting all the expenses of cultivation are shared by the members in proportion to the wages earned by them.

(iii) Co-operative Tenant Farming Society: This type of society is suitable where large areas of land are available on lease from landlords or the Government. If the society owns land on free-hold or lease-hold, and its holding is divided into smaller holdings or plots, each of which is leased to individual tenants, who are members of the society for the purpose of cultivation, then it is called a co-operative tenant farming society. Every member agrees to cultivate the land allotted to him as a tenant member in accordance with a plan framed by the society in return for the payment of a fixed rent for his holdings and to make his contribution also by way of labour and also in other ways schemes of land improvement and reclamation in accordance with the rules and regulations prescribed by the society. The main functions of the society are to purchase or take on lease lands; arrange for the joint purchase of farming requirements of members and joint processing and sale of farm produce; arrange for the supply of credit, seed, manure. Such a type of society is generally suitable in places where new land is to be brought under cultivation. This method is employed in the Ganga khadir in U.P. and in Madras.

(iv) Co-operative Collective Farming Society: Such a society undertakes joint cultivation. Lands are cultivated jointly, and the produce is raised collectively and distributed among the workers in proportion to the labour and other resources contributed by them. The co-operative collective farming society has all the features of a joint co-operative farming society except that in the former, the lands belong to the society as free-hold or lease-hold, whereas in the latter, the lands are held by the members as owners or tenants.

For details on farming societies see article entitled Co-operative Movement.

Three regional centres would be set up for training personnel (North and Central, Western, Eastern) in co-operative farming.

Besides co-operative farming, collective farming is undertaken in some States, *i.e.* Andhra (Hyderabad), Gujrat (Saurashtra), Madhya Pradesh (Bhopal), Mysore (Coorg), U.P. and Tripura.

* Bilingual.

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One big State farm conducted by the Government of India is at Suratgarh (Rajasthan).

NIJALINGAPPA COMMITTEE

The Government of India have announced their decisions in regard to the recommendations of the Working Group on Co-operative Farming (Nijalingappa Committee).

A Co-operative Farming Board is to be formed at the Centre with State Co-operative Farming Boards for promoting co-operative farming and 3,200 co-operative farms are to be set up on a voluntary basis under a pilot project scheme. District co-operative unions will look after the co-operative farming societies along with other types of district co-operative societies.

Co-operative farming societies are to be eligible for assistance on a priority basis under the various schemes which provide for assistance to individual cultivators. But for purposes of special assistance the societies are required to attain a prescribed minimum size in terms of membership and area of operations in order to ensure that such assistance is available only to those societies as have a chance of becoming viable.

The State Governments are to participate in the share capital of co-operative farming societies (upto a limit of Rs. 2,000 per society) composed predominantly of landless cultivators and marginal and sub-marginal farmers. State's share which is not to exceed the amount raised by the members themselves is to be retired over a period of 10 years.

The short-term credit required by a co-operative farming society is to be made available either by the Central Bank direct, or by the village service co-operative according to convenience and local facilities and resources available. The co-operative farming society should be able to take full advantage of the primary service co-operatives in respect of supplies, marketing, etc. and thereby strengthen its activities.

A co-operative farming society is to receive the following assistance from the Government:—(1) A total subsidy not exceeding Rs. 1,200 for a period of 3 to 5 years for managerial expenses; (2) An amount not exceeding Rs. 5,000 (25 per cent subsidy and 75 per cent loan) for the construction of a godown-cum-cattleshed provided such assistance does not duplicate or overlap the construction of accommodation by service co-operatives; (3) Medium and long-term loans amounting to Rs. 4,000 for programmes of development; (4) Additional requirements, if any, are to be met out of the funds available in the agricultural sector of the Plan and those in the schematic budget of the community development blocks.

Membership of co-operative farming societies is to be confined to those who are prepared to work on the farm, or in its ancillary activities. Absentee landowners are not, ordinarily, to be admitted as members, except persons who cannot work on the farm due to physical disability, government service, etc. However, the number of absentee land holders is not to exceed ¼th of the total membership of the society.

Land is to be pooled by members for a minimum period of 5 years during which no withdrawals are to be permitted except under exceptional circumstances and subject to the terms and conditions prescribed by each society. Members are to receive a suitable return for the land pooled by them.

Cattle, implements, etc. of a member are to be taken over by a society after careful and fair valuation, the value so realised being treated as share capital, to the extent necessary, and the balance as deposits of the member concerned.

Consolidation of holdings is not to be a condition precedent to co-operative farming but advantage is to be taken of consolidation proceedings to encourage co-operative farming.

In order to enable a co-operative farming society to raise the necessary medium and long-term finance, its members are to be persuaded to authorise the society to mortgage the pooled land. Failing such authorisation, the Society may be enabled to create a charge of the pooled land on the lines of the provision in the Bombay Co-operative Societies Act.

In regard to training in co-operative farming, it has been indicated that this should be provided by expanding the existing arrangements so as to cover training for co-operative farming also.

AGRICULTURAL LABOUR

About 30·4 per cent of the rural families were agricultural labourers, half of them possessing no land whatsoever, and the other half owning some land. Minimum wages for agricultural workers have been fixed throughout Kerala, Orissa, Punjab, Rajasthan, Delhi and Tripura and specified areas in Andhra, Assam, Bengal, bilingual Bombay, Himachal Pradesh, M.P., Mysore and U.P. Minimum wages have also been fixed by the Central Government in agricultural demonstration farms and military farms under Food and Agriculture Ministry and Defence Ministry respectively.

Landless agricultural workers were settled on the Central Mechanized Farm, Bhopal, under a scheme for the settlement of 5,000 families over an area of about 6,800 acres.†

The Central Mechanized Farm in Jammu is now under the control of the State Government.

At Suratgarh in Rajasthan there is a Russian-sponsored collective farm (*See Rajasthan State for details*).

(See also article on labour for further details on agricultural labour).

Financial help has been offered to States like U.P. for initial spadework in land utilisation such as land reclamation and layout, building tenements, health and social amenities and also administrative staff for the initial stages of 2-3 years. The Second Five Year Plan provided Rs. 150 lakhs for the purpose. But the amount spent was less than Rs. 150 lakhs spent mainly in Uttar Pradesh (in Lakhimpur Kheri and Pilibhit Districts) and in Madhya Pradesh (Bhopal). Small schemes in Andhra, Madras and Mysore also got the support of the Government.

During 1959-60, a total amount of Rs. 58·53 lakhs had been provided for the settlement of 1,555 families of landless agricultural workers in Assam, Bihar, Kerala, M.P. and U.P. States.

BHOODAN

(See under 'Late Particulars'.)

First Five Year Plan : Details are given in the 1960-61 edition of the Directory.

2nd & 3rd FIVE-YEAR PLANS

In the Second Plan agricultural programmes were intended to provide adequate food to support the increased population and the raw materials needed for a growing industrial economy and also to make available larger exportable surpluses of agricultural commodities. The basic objective of the Third Five Year Plan is to achieve self-sufficiency in foodgrains and increase the production of other agricultural and commercial crops to meet the requirements of the industry and the export trade.

The outlay during the Plans itemwise:

(in million Rs.)

	Agriculture	Community Project	Agriculture & C.P.	Irrigation	Total
1st Plan ..	2,340*(9·9%)	1,230(5·2)	3,570(15·1)	2,130	3,570 2,130 5,700
2nd Plan ..	2,940 (6·1)	2,740(5·7)	5,680(11·8)	3,760	5,680 3,760 9,440
3rd Plan ..	6,250 (8·6)	4,000(5·5)	10,250(14·1)	6,500 + 2,400	10,250 6,500 2,400 19,150

* Figures in the brackets are percentages of the total plan outlay.

\+ Outlay in fertilisers.

The targets to be attained during the 2nd Plan were an additional production of 15·4 million tons of foodgrains, 2 million tons of sugar, 2·1 million tons of oilseeds, 2·3 million bales of cotton, and 1·5 million bales of jute, over the estimated production for 1955-56 in the First Five Year Plan.

The additional area to be benefited by irrigation in the 2nd Plan amounted to 19·4 million acres.

The targets to be attained during the 3rd Plan are an additional production of 25 to 30 million tons of foodgrains, 1·8 to 2 million tons of sugarcane, 2 to 2·3 million tons of oilseeds, 1·8 million bales of cotton and one million bales of jute. The additional area to be benefited by irrigation will be 27 million acres (major 13 million and minor 14 million). The target for foodgrain production for the 3rd Plan is tentatively fixed at 100-105 million tons against the estimated production of 75 million tons at the end of the 2nd Plan.

Percentage increase in 1965-66 over 1960-61 : Foodgrains 33 to 40 ; sugarcane 25 to 28 ; oilseeds 28 to 32 ; cotton 33 ; jute 18.

The production of coconut, arecanut and cashewnut is to be similarly increased by 28, 8 and 106 per cent respectively ; pepper, cardamom, lac and tobacco by 3, 16, 24 and 8 per cent respectively and plantation crops like tea, coffee and rubber by 17, 78 and 71 per cent respectively. Agricultural production as a whole is to be stepped by 30-33 per cent by the end of the Third Five Year Plan compared with an increase of 15·5 per cent expected to be achieved during the Second Five Year Plan period.

(For more details see 1959-60 and 1960-61 Directories).

† Now the land is distributed among individual cultivators.

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CLASSIFICATION OF AREA

(Thousand acres)

States and Territories	Forests		Area not available for cultivation		Uncultivated land excluding fallows		Fallow land		Total cropped area	
	1955-56	1956-57	1955-56	1956-57	1955-56	1956-57	1955-56	1956-57	1955-56	1956-57
Andhra Pradesh	13,992	13,726	10,584	10,159	7,643	8,108	6,563	6,403	30,399	30,750
Assam	12,042	12,042	14,077	14,077	3,638	3,638	889	889	6,003	6,003
Bengal (West)	1,916	2,525	3,831	3,268	1,817	1,748	1,129	1,448	15,317	14,977
Bihar	9,676	9,676	5,066	5,299	3,000	2,692	6,471	5,966	24,498	25,005
Gujarat	2,235	2,274	13,327	13,015	4,540	4,688	1,937	1,770	23,570	24,194
Jammu & Kashmir† ..	1,398	1,398	1,672	1,637	655	619	665	591	1,840	1,906
Kerala	2,433	2,459	968	1,000	1,030	1,066	504	362	5,466	5,465
Madhya Pradesh	33,489	33,443	11,491	11,555	18,111	18,405	5,876	5,834	43,392	43,573
Madras	4,488	4,419	5,547	5,564	3,610	3,485	4,205	4,138	16,967	17,145
Maharashtra	13,305	13,312	6,358	6,245	6,448	6,538	5,848	5,909	46,034	46,108
Mysore	6,288	6,650	4,145	4,121	6,886	7,081	3,579	3,405	25,208	25,699
Orissa	8,799	8,799	6,274	6,274	6,466	6,466	3,008	3,008	14,958	14,958
Punjab	843	926	7,781	7,817	2,381	2,110	1,490	1,326	23,500	23,786
Rajasthan	3,478	3,553	16,282	14,833	21,609	21,626	14,734	13,736	31,006	33,881
Uttar Pradesh	8,713	8,826	10,985	10,984	7,536	7,313	3,638	3,607	51,925	52,766
Andaman & Nicobar Islands	39	35	16	16	16	15	2	2	15	19
Delhi	4	4	85	85	48	48	12	12	323	324
Himachal Pradesh ..	400	5,522	159	179	1,022	1,543	45	48	1,047	1,047
Laccadive, Minicoy and Amindivi Islands ..	*	*	(a)	(a)	(a)	(a)	*	*	7	7
Manipur	37	37	(b)	(b)	91	85	(a)	(a)	218	224
Tripura	1,573	1,573	96	96	447	447	37	36	564	565
TOTAL INDIA	125,554	126,099	118,388	116,225	96,979	97,721	60,414	58,490	362,563	368,461

* Not available. † Exclude figures for Pakistan occupied areas. (a) Less than 500 acres. (b) Included under forests.

The forest area for some of the States during 1957-58 is as follows (Area in thousand acres): Andhra Pradesh 14,576; Bihar 9,674; Jammu & Kashmir 1,394; Madhya Pradesh 25,751; Madras 4,391; Mysore 6,690; Punjab 926; Rajasthan 2,863; Uttar Pradesh 10,465; Andaman & Nicobar Islands 36; Himachal Pradesh 1,210; Manipur 37; and Tripura 1,573.

AREA UNDER DIFFERENT FOOD CROPS

(Thousand acres)

States and Territories	Rice		Wheat		Barley		Maize		Jowar		Bajra		Ragi	
	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58
Andhra Pradesh ..	7,233	6,912	57	43	10	9	464	486	6,209	6,224	1,504	1,523	743	777
Assam	4,313	4,211	7	6	—	—	38	37	—	—	—	—	—	—
Bengal (West)	10,846	10,910	207	85	181	92	170	133	3	5	1	1	31	27
Bihar	12,313	12,218	1,882	1,188	922	797	1,413	1,590	8	5	12	13	355	412
Gujarat	1,190	1,179	1,241	1,077	27	20	401	371	3,174	3,354	4,434	3,982	137	49
Jammu & Kashmir ..	463	352	328	303	56	41	444	343	1	1	32	32	—	—
Kerala	1,909	1,912	—	—	—	—	—	—	5	4	—	—	12	12
Madhya Pradesh ..	9,675	9,747	8,020	6,298	509	301	1,075	1,116	4,091	4,902	429	440	33	33
Madras	5,724	5,605	4	4	(a)	1	15	15	1,838	1,715	1,338	1,201	882	852
Maharashtra	2,909	2,964	2,221	2,228	10	9	62	63	14,031	13,883	4,265	4,282	553	561
Mysore	2,203	2,297	733	748	5	9	28	26	5,732	6,596	1,201	1,174	2,226	2,209
Orissa	9,603	9,677	13	14	1	1	59	58	17	17	11	11	165	169
Punjab	749	788	4,965	5,006	501	539	1,091	1,166	668	748	2,436	2,273	9	8
Rajasthan	230	169	3,347	2,638	1,447	1,253	1,238	1,449	2,109	2,607	9,303	9,575	—	—
Uttar Pradesh	9,531	9,629	9,980	9,260	4,934	4,389	2,506	2,677	2,209	2,114	2,680	2,667	466	484
Delhi	1	2	74	72	12	10	4	4	29	28	55	49	—	—
Himachal Pradesh ..	111	111	340	330	78	78	279	285	—	—	(a)	(a)	39	38
Manipur	340	390	—	—	—	—	—	—	—	—	—	—	—	—
Tripura	406	362	—	—	—	—	—	—	—	—	—	—	—	—
Andaman & Nicobar Islands	10	12	—	—	—	—	—	—	—	—	—	—	—	—
Laccadive Islands ..	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL INDIA ..	79,759	79,447	33,419	29,300	8,693	7,549	9,237	9,819	40,124	42,203	27,802	27,236	5,631	5,731

(a) Below 500 acres.

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AREA UNDER DIFFERENT FOOD CROPS—(*Contd.*)

(Thousand acres)

States and Territories	Small Millets		Total Cereals		Gram		Red Gram		Other Pulses		Total Pulses		Total Foodgrains	
	1956–57	1957–58	1956–57	1957–58	1956–57	1957–58	1956–57	1957–58	1956–57	1957–58	1956–57	1957–58	1956–57	1957–58
Andhra Pradesh ..	2,569	2,523	18,789	18,497	282	276	389	400	2,622	2,753	3,293	3,429	22,081	21,926
Assam	9	9	4,367	4,263	4	4	7	6	172	171	183	181	4,550	4,444
Bengal (West) ..	38	25	11,477	11,278	439	423	48	43	996	973	1,483	1,439	12,960	12,717
Bihar	672	632	17,577	16,855	1,224	1,111	316	406	3,163	2,604	4,703	4,121	22,280	20,976
Gujarat	502	436	11,106	10,468	452	229	188	177	769	7,83	1,409	1,183	12,515	11,651
Jammu & Kashmir	47	43	1,371	1,115	12	12	—	—	—	—	12	12	1,383	1,127
Kerala	14	15	1,940	1,943	—	—	28	22	90	90	118	112	2,058	2,055
Madhya Pradesh ..	3,453	3,534	27,285	26,371	3,815	3,628	888	935	4,209	3,706	8,912	8,269	36,197	34,640
Madras	1,373	1,265	11,174	10,658	5	10	123	131	980	954	1,108	1,095	12,282	11,753
Maharashtra ..	563	473	24,594	24,463	1,125	1,140	1,342	1,319	3,180	3,324	5,647	5,791	30,241	30,254
Mysore	1,090	1050	13,218	14,109	402	406	625	627	1,945	1,981	2,972	3,014	16,190	17,123
Orissa	111	111	9,980	10,058	51	50	36	36	1,159	1,154	1,246	1,240	11,226	11,298
Punjab	19	16	10,438	10,544	6,041	6,069	—	—	718	616	6,759	6,685	17,197	17,229
Rajasthan	185	174	17,859	17,865	3,813	3,061	44	45	4,926	4,287	8,783	7,393	26,642	25,258
Uttar Pradesh ..	1,585	1,481	33,992	32,714	6,147	6,360	1,632	1,543	3,047	3,466	10,826	11,369	44,818	44,083
Delhi	—	—	175	165	76	57	—	—	10	9	86	66	261	231
Himachal Pradesh ..	65	61	912	903	17	18	—	—	57	52	74	70	986	973
Manipur	—	—	340	390	—	—	—	—	—	—	—	—	340	390
Tripura	—	—	406	362	—	—	—	—	3	3	3	3	409	365
Andaman & Nicobar Islands	—	—	10	12	—	—	—	—	—	—	—	—	10	12
Laccadive Islands	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL INDIA ..	12,295	11,848	2,17,010	2,13,133	23,905	22,862	5,666	5,690	28,046	26,926	57,617	55,478	2,74,627	2,68,611

AREA UNDER OILSEEDS

(Thousand acres)

States & Union Territories	Groundnut		Sesamum		Rape & Mustard		Linseed		Castor Seed		Total Oilseeds	
	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58
Andhra Pradesh	3,301	3,212	654	655	4	4	89	76	842	662	4,890	4,608
Assam	—	—	19	19	286	295	2	2	5	6	312	322
Bengal (West)	—	—	14	10	198	202	121	46	—	—	333	258
Bihar	—	—	40	40	141	153	194	139	15	25	390	365
Gujarat	2,131	3,251	396	335	62	92	(a)	(a)	289	255	2,878	3,933
Jammu & Kashmir	—	—	—	—	45	49	23	20	—	—	68	69
Kerala	33	34	49	50	—	—	—	—	—	—	82	84
Madhya Pradesh	823	918	794	797	377	230	1,714	1,045	29	14	3,737	3,004
Madras	1,820	1,877	294	278	1	1	(a)	(a)	26	35	2,141	2,191
Maharashtra	2,590	2,605	296	305	10	10	592	602	25	25	3,513	3,547
Mysore	2,221	2,132	151	162	8	8	142	127	112	101	2,634	2,530
Orissa	55	55	245	240	127	127	36	35	52	51	515	508
Punjab	148	146	61	52	707	737	29	27	—	—	945	962
Rajasthan	169	173	1,183	1,095	657	855	376	240	4	4	2,389	2,367
Uttar Pradesh	380	473	1,161	1,115	3,629	3,195	837	769	6	6	6,013	5,558
Delhi	—	—	—	—	4	4	—	—	—	—	4	4
Himachal Pradesh	—	—	2	2	8	8	2	2	—	—	12	12
Manipur	—	—	—	—	—	—	—	—	—	—	—	—
Tripura	—	—	9	8	10	9	—	—	—	—	19	17
Andaman & Nicobar Islands	—	—	—	—	—	—	—	—	—	—	—	—
Laccadive Islands	—	—	—	—	—	—	—	—	—	—	—	—
TOTAL INDIA	13,671	14,876	5,368	5,171	6,274	5,979	4,157	3,129	1,405	1,184	30,875	30,339

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AREA UNDER CASH CROPS (Thousand acres)

States & Union Territories	Sugarcane		Tobacco		Cotton		Jute		Mesta‡	
	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58
Andhra Pradesh	190	186	396	335	995	939	—	—	123	85
Assam	63	65	23	24	35	34	355	322	5	6
Bengal (West)	60	58	40	40	(a)	(a)	720	759	308	296
Bihar	403	376	41	35	7	5	665	477	43	81
Gujarat	30	40	175	165	4,292	4,521	—	—	2	2
Jammu & Kashmir ..	3	3	—	—	—	—	—	—	—	—
Kerala	19	22	1	1	22	21	—	—	—	—
Madhya Pradesh	131	116	16	8	1,898	1,983	—	—	22	21
Madras	115	143	48	25	1,065	1,021	—	—	1	1
Maharashtra..	214	246	71	71	6,540	6,467	—	—	148	163
Mysore	124	135	135	105	2,803	2,660	—	—	60	51
Orissa	58	59	11	11	23	23	91	94	17	12
Punjab	487	494	5	4	1,415	1,522	—	—	1	1
Rajasthan	83	84	22	9	550	581	—	—	—	—
Uttar Pradesh	3,066	3,031	46	34	148	198	56	71	—	—
Delhi	10	11	1	1	1	1	—	—	—	—
Himachal Pradesh	3	4	2	2	1	1	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	4	45
Tripura	7	7	2	2	20	19	21	19	—	—
Andaman & Nicobar Islands.	—	—	—	—	—	—	—	—	—	—
Laccadive Islands	—	—	—	—	—	—	—	—	—	—
TOTAL INDIA	5,066	5,080	1,035	872	19,816	19,996	1,908	1,742	734	764

AREA UNDER SPICES, CASHEWNUTS AND PLANTATION CROPS (Thousand acres)*

States & Union Territories	Turmeric	Pepper	Ginger	Chillies	Coconut	Tea	Coffee	Rubber	Tapioca
	1957-58	1957-58	1957-58	1957-58	1957-58	1957-58	1957-58	1957-58	1957-58
Andhra Pradesh	39	—	17	427	86	—	(a)	—	8
Assam	—	—	—	8	2	391	—	—	4
Bengal (West)	3	—	14	18	17	197	—	—	1
Bihar	—	—	—	102	—	1	—	—	—
Gujarat	19†	—	9	19	—	—	—	—	2
Jammu & Kashmir	1	—	—	—	—	—	—	—	—
Kerala	11	2,247	229	8	1,145	99	41	205	558
Madhya Pradesh	1	—	35	105	—	—	—	—	—
Madras	14	6	12	156	126	—	47	9·9	43
Maharashtra	—	—	6	321	18	73	—	—	—
Mysore	2	55	10	260	214	4	156	4·2	1
Orissa	18	—	15	16	11	—	(a)	—	4
Punjab	—	—	7	66	—	9	—	—	—
Rajasthan	1	—	2	57	—	—	—	—	—
Uttar Pradesh	3	—	—	8	—	5	—	—	—
Andaman & Nicobar Islands	—	—	—	—	4	—	(a)	—	(a)
Delhi	—	—	—	1	—	—	—	—	—
Himachal Pradesh	—	—	28	1	—	2	—	—	—
Laccadive, Minicoy & Amindivi Islands	—	—	—	—	6	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	—
Tripura	1	—	3	2	—	12	—	—	1
TOTAL INDIA	109	2,308	393	1,575	1,629	793	244	209·1	614

* Area under Pepper & Ginger are in 100 acres. † Including Maharashtra.

(a) Below 100 acres. Sweet Potato and Potato respectively (Figures for 1957-58 in '000 acres): Andhra 9 ; 1 ; Assam 15 ; 75 ; Bengal (West) 5 ; 123 ; Bihar 181 ; 155 ; Gujarat— ; 7 ; Jammu & Kashmir — ; — ; Kerala — ; — ; Madhya Pradesh 18 ; 24 ; Madras 9 ; 21 ; Maharashtra 9 ; 27 ; Mysore 17 ; 16 ; Orissa 27 ; 24 ; Punjab 2 ; 26 ; Rajasthan 3 ; 4 ; U.P. 124 ; 259 ; Andamans — ; — ; Delhi — ; (a) ; Himachal Pradesh — ; 27 ; Laccadive Islands— ; — ; Manipur — ; — ; Tripura 2 ; 3 ; Total 433 ; 794.

‡ All-India final estimate of Mesta for 1960-61 ; Area 694,000 acres ; production 1,147,000 bales.

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AREA SOWN UNDER ALL CROPS (Thousand acres)

States & Union Territories	Net area sown		Area sown more than once		Total area sown	
	1956-57	1957-58	1956-57	1957-58	1956-57	1957-58
Andhra Pradesh	28,106	27,219	2,644	2,437	30,750	29,657
Assam	5,118	—	885	—	6,003	—
Bengal (West)	12,825	—	2,152	—	14,977	—
Bihar	19,190	17,946	5,815	5,728	25,004	23,674
Bombay††	67,225	—	3,136	—	70,361	—
Jammu & Kashmir†	1,678	1,593	228	287	1,906	1,880
Kerala	4,525	—	940	—	5,465	—
Madhya Pradesh	38,352	19,383	5,221	2,295	43,573	21,678
Madras	14,414	14,018	2,731	2,677	17,145	16,695
Mysore	24,898	25,082	801	852	25,699	25,934
Orissa	13,854	—	1,104	—	14,958	—
Punjab	18,108	18,070	5,678	5,571	23,786	23,641
Rajasthan	30,702	29,906	3,179	2,078	33,881	31,984
Uttar Pradesh	41,813	41,629	10,953	10,406	52,766	50,235
Andaman & Nicobar Islands ..	19	18	(a)	(a)	19	18
Delhi	217	217	107	73	324	290
Himachal Pradesh	679	668	368	395	1,047	1,063
Laccadive, Minicoy & Amindivi Islands	7	7	—	—	7	7
Manipur	224	231	—	—	224	231
Tripura	482	487	83	78	565	565
TOTAL INDIA	322,436		46,025		368,461	

† Exclude figures for Pakistan occupied areas. †† Bilingual. (a) Below 500 acres.

LIVESTOCK

IT is estimated that there were about 307 million total livestock in 1956. Of these the cattle formed about 159 million, buffaloes about 45 million, sheep 38·6 million, goats about 56·6 million, horses, ponies about 1·5 million, other livestock (mules, donkeys, camels and pigs) about 6·7 million and poultry about 97·4 million. India has thus about 19 per cent of the world's cattle, about half the world's buffaloes and about 18 per cent of the goats.

In spite of the large number of livestock, the net value of the livestock products in 1950-51 amounted only to about 16 per cent of the income from agriculture.

Meat from livestock is a valuable source of protein; about 0·9 per cent of the total cattle population is slaughtered for meat, and 36 and 32·5 per cent of the goat and sheep population respectively. The annual production of meat from goat is about 0·15 million tons and that of mutton 0·11 million tons. Production of beef, buffalo flesh and pork amounts to 0·12, 0·09 and 0·02 million tons respectively. The total annual production of meat from all species is estimated to be over 0·46 million tons valued at Rs. 760 million.

Live animals worth Rs. 1·642 million, Rs. 1·313 million, Rs. 1·524 million and Rs. 1·057 million were exported for food during 1957, 1958, 1959 and the first eight months of 1960 respectively. The imports during the same period were valued at Rs. 1·557 million, Rs. 0·388 million, Rs. 0·059 million and Rs. 0·082 million respectively. Other live animals (excluding monkeys) worth Rs. 1·03 million, Rs. 1·038 million, Rs. 1·277 million and Rs. 1·245 million were exported for non-food purpose during 1957, 1958, 1959 and Jan-Aug. 1960 repectively.

Export of monkeys and value in Rs. million:

Year	Number	Value Rs. million
1957	190,844	12·77
1958	101,053	6·21
1959	155,614	8·935
1960 (Jan.-Aug.) ..	93,812	5·105

* Bilingual.

CATTLE

Among the well-defined breeds of cattle (26 in all), three broad divisions are: dairy and draught cattle and those that serve a dual purpose.

Milch:—The Sahiwal, the best milch breed, are responsive to environment, have an yield of 4,000 lbs. a year. The Sindhi are also responsive to environment, the Gir in Saurashtra and Rajasthan have an yield of 3,700 lbs. a year.

Dual:—The Galo in Madhya Pradesh are draught animals but also good milkers, 3,000 lbs. The Kangayam in the south and south-east of the country are powerful draught animals of average milk yield. The Kankrej, are essentially draught but have milk potentialities (3,000 lbs.); they belong to Gujarat. The best known in this group are the Hariana (Punjab, 3,000 lbs.), Tharparkar (Gujarat and Rajasthan, 3,000 lbs.), and Ongole (Andhra).

Draught:—The Amritmahal (Mysore) are poor milkers; then there are the Hallikar (Mysore).

In the order of the productivity of milk we might arrange the cattle as follows: the Sahiwal, the Kankrej, the Ongole.

The best known breeds of buffaloes (26 in all) are the Murrah, Nili and Ravi buffaloes of the Punjab, the Jufferbadi buffaloes of Kathiawad, Mehsana of Gujarat, Nagpuri of Vidarbha and the Surti and Pandharpuri, a type of Nagpuri buffaloes of Maharashtra. All except the Nagpuri are noted dairy breeds. Murrah, is adapted to all climates. They also yield on an average about 3,000 lbs. of milk for over 300 days in a year.

The average annual milk yield of a buffalo is 1,100 lbs. against 413 lbs. of the Indian cow. Buffalo milk being one and a half times as rich in fat content as cow milk, is more valued for butter and ghee production. Buffaloes are also better utilisers of coarse fodder and are less expensive to keep.

Experience of Government farms is that by better feeding and management the production of village cows can be increased by 50 per cent, whereas that of the buffaloes can be increased only by 15 per cent.

LIVESTOCK DEVELOPMENT

Legislation for livestock improvement and control of contagious disease exists in all States (except in Jammu & Kashmir, Tripura, Rajasthan and U.P.).

Livestock Development is stepped up through special schemes such as Key Villages, Gosadan, and Poultry Development Schemes.

Key Villages: Key village scheme was introduced during the 1st Five-Year Plan to increase milk production and raise the productivity capacity of cattle. By the end of 1955–56, 146 artificial insemination centres and 555 key village units had been established.

The 2nd Plan envisaged the expansion of 104 A. I. centres, establishment of 245 new A. I. centres, 254 key village extension centres and grant of subsidies for maintenance of 34,550 selected improved calves. Achievement so far (Jan. 1961): Expansion of 107 A. I. centres, establishment of 198 new A. I. and 45 key village extension centres. 11,882 calves have been subsidized.

Gosadans.—The Gosadan Scheme aims at the removal and segregation of old, unproductive and uneconomic cattle. During the First Five-Year Plan, 25 gosadans were established, one in Tripura, two each in Mysore and Rajasthan, three each in Bihar and Punjab, four each in Madhya Pradesh and Uttar Pradesh and six in Bombay State*.

During 1956-59, 31 gosadans were established, two each in Bihar and Orissa, six each in Bombay* and M.P., eleven in U.P., and one each in Andhra, Kashmir, Rajasthan and Mysore. Two gosadans were added in 1959-60.

Gaushala Development: During 1959-60, 30 new gaushalas were taken up for development bringing the total number developed since the initiation in the 2nd Five-Year Plan to 208. The object is to convert them into efficient milk production centres and to breed better cattle.

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To eliminate the damage to crops by wild and stray cattle a scheme to catch them and dispose of them had been in operation as a part of Gaushala Scheme for the last few years at Delhi, Jammu & Kashmir and Punjab. About 52,958 stray cattle has been caught and disposed off so far.

Old, infirm and useless cattle are segregated and sent to gosadans located in remote forests and other waste lands where grazing facilities are not fully utilised. All male stock were castrated before admission into the gosadans. The remains of dead animals such as skins, hides and hoofs, etc. were to be utilised by setting up a small 'charmalaya' at each centre.

Eight gosadans were equipped with charmalayas. Two charmalayas one at Lucknow and another at Delhi provide also training in flaying, curing, etc. and utilization of carcass.

SHEEP

It has been estimated that the number of sheep in the country is about 40 million and that the total quantity of wool produced is 54 million lb. annually valued at Rs. 10·5 million. The yield of wool per sheep varies greatly in different parts of the country. In Punjab, Uttar Pradesh and Rajasthan, the annual production per sheep is estimated at between 3·1 lb. and 4 lb., while in the rest of the States it does not exceed 1 lb. The average for the whole of the country is in the neighbourhood of 2 lb. per sheep per year.

Sheep also supply meat worth about Rs. 120 million every year in addition to pelts and manure. Sheep manure is very much valued among other manures as it contains twice as much nitrogen and potassium as are present in cattle manure. An individual sheep contributes 0·5 to 0·7 tons of manure annually.

India still requires large quantities of wool. About 16 million pounds of wool, tops and yarns costing about Rs. 120 million are imported. At the same time, we export about 38 million pounds valued at Rs. 81 million annually.

A sheep and wool development scheme has now been launched on the lines of the key village scheme for cattle improvement, in 250 centres in different states.

Research in sheep breeding is promoted in three major sheep rearing tracts, *viz.* Temperate Himalayan, North Indian Plains and in the Deccan Plateaux, to evolve strains of sheep which will yield wool for apparel and also for superior types of carpets.

The major wool clip of the country hitherto, was classed as carpet grade, due to its two primary defects *viz.* extreme hairiness and the presence of 'kemp'. Investigations have shown that both of these could be eliminated by selective breeding, completely in the case of kemp.

In the Himalayan regions and in the western portions of the Deccan plateaux, breeding the imported Merino with the local sheep, has shown great promise. Concerted efforts are being made in the Plan period at about 200 centres in the rural areas. Each centre will comprise an ewe population of 2,000 to 3,000 which would be systematically developed as nucleus ram producing flocks. A minimum of a thousand rams are to be produced annually after ten years from each centre. The flock owners will be adequately assisted with selected rams, first aid, wool and sheep marketing arrangements and such like.

GOATS

Goats form an integral part of Indian agricultural economy. The goat is the principal source of meat supply; it also provides manure, skin, hair (Mohair) and milk. There are about 57 million goats in India, which is a fourth of the world's goat population. About a fifth of this is used for milk production. Annually about 17 million goats are in demand for human consumption. About 21·3 million pieces of goat skins and hides valued at Rs. 75 million are produced in India, of which skins worth about 57·2 million rupees are exported. Goats are of active habit and multiply rapidly. Goats, unlike sheep, eat up even vegetation containing high tannic acid content which other animals shun. Rajasthan has the largest goat population followed by Bombay*, Bihar and U.P.

The important breeds of Indian goats fall under four broad groups:—Himalayan Goats are found in the hills of Kashmir, Punjab and Uttar Pradesh. These are mostly reared for mohair production and also for meat. There is also the Pashmani goat of Kashmir which produces an undercoat of very fine variety of hair which goes into the manufacture of shawls. The plain goats comprise some of the best mutton and milch animals. Some of the better known breeds are Marwari, Konor and Jamnapari. The last yields 600 lbs. in a lactation of 250 days. Deccan plateaux goats yield small quantities of milk and are mostly reared for mutton.

Results from the Punjab and U.P. have shown that selected goats yield (6 to 8 lbs. milk per day going upto even 12 lbs. in U.P.) on an average about 400 lbs. of milk per lactation of 150 days while a few went up to 700 lbs. and even higher.

POULTRY

Poultry-keeping is an important subsidiary industry of the poorer classes. Indigenous poultry of low grade produce on an average 50 small-sized eggs per year.

Even at a low rate of production, the annual contribution of Indian poultry to the country's economy is not less than Rs. 100 million.

At present, the *per capita* consumption of eggs in India is only four per annum as compared with 400 in U.K., U.S.A. or Denmark.

An improved strain of poultry has been evolved at Izatnagar by selective breeding for ten generations which give an average annual egg yield of 150 and sometimes of 234 of the larger egg type.

Poultry Development.—To stimulate poultry development as a subsidiary industry in the rural areas, a pilot project was approved early in 1955.

The 2nd Five-Year Plan has promoted an All-India Poultry Development Scheme to establish five regional poultry farms in Bangalore, Bombay*, Bhubaneswar, Delhi and Himachal Pradesh and 300 demonstration extension centres at a total cost of Rs. 25·88 million. These five regional poultry farms have started functioning and with the help of incubators and other poultry equipment received from T.C.M. programme, production of eggs and birds is being stepped up. Two regional poultry farms at Delhi and Simla and 203 centres had been established upto 1958-59. The rest of the three farms and six new extension-cum-development centres were established during 1959-60 bringing the total to 209.

The following table gives figures about production of eggs, distribution of birds for breeding and no. of farmers trained during the 2nd Five Year Plan:

Year	Eggs produced	Birds distributed for breeding	Farmers trained
1st 2 years	0·202 mln.	11,346	..
1958-59	0·531 ,,	17,174	37
1959-60	0·653 ,,	18,424	690

During 1959-60, 432 farmers were given subsidy.

Piggery.—Under the 2nd Five-Year Plan an All-India Piggery Development Scheme has been promoted to augment food production of high nutritive value at low cost and also to improve the economic condition of Harijans who mostly are engaged in piggery activities. The scheme provides for three regional pig-breeding stations and 10 piggery units for the production and multiplication of pure-bred stud boars, by whose help the indigenous stock would be upgraded in 90 piggery development blocks. Pork and pork products are expected to be manufactured in the bacon factories attached to the three regional stations.

DAIRYING

Like agriculture dairying is one of the major industries in India as milk and milk products contribute not less than Rs. 6,200 million to the national income.

The dairy industry is still unorganised. Of 200 million cattle and buffaloes, 72 million or 36 per cent are milch animals (females over 3 years). Milk yield is, however, low: Cow 413 lb. per year, buffalo 1,100 lb. Though buffaloes form only 30 per cent. of milch animals, due to their comparatively high yield, they account for 55·9 per cent of the total milk produced. Buffalo milk has butter fat content 6·5 to 7 per cent. as against 4 to 5 per cent. of cow.

Gross production of milk is 20·65 million tons, of which 13·2 million tons are marketed, the rest being used for home consumption or fed to calves. *Per capita* daily consumption of milk and milk products varies from 16·89 oz. in the Punjab to 26·4 oz. in Orissa; average 5·5 oz.

Under the 2nd Plan 47 modern dairy projects comprising 42 milk supply schemes, 3 rural creameries and 2 milk product factories were being set up with the aid of the Central Government. Of these 15 are covered by foreign aid under T.C.M., Colombo Plan and UNICEF. Only Indian bulls are used for cross breeding.

Financial assistance amounting to Rs. 5·225 million had been sanctioned by the Government of India for the various State dairy schemes for 1957-58 and Rs. 28·92 million in 1958-59. During 1959-60 provision of Rs. 27·5 million has been made in addition to Rs. 7·73 million for Delhi Milk Scheme.

This includes: (*a*) extension of milk supply to cities *viz.* Chandigarh, Hissar, Agra, Gorakhpur, Gaya, Agartala, Karjat, Sholapur, Bangalore, Trivandrum, Patna, Jaipur, Bhopal, Coimbatore, Cuttack, Hyderabad and Nagpur; (*b*) setting up dry cattle farms in Kerala (Punalur) and Madras (Abhishikapathi, Thuvakudi, Coimbatore and Virudhunagar), and buffalo dairy farm at Mysore (Kurikuppi); (*c*) expansion of existing dairy institutions in several States; (*d*) financial assistance to co-operative milk supply unions for expansion (Allahabad, Guntur, Kurnool and Madras); (*e*) training of technical personnel in Bihar.

Production of infant and other milk food is being started by Messrs. Glaxo, Horlicks, Amul and Asok Nestles.

PROGRESS OF DAIRY SCHEMES

The following dairy schemes are in operation in the respective States.

Gujarat: 1) Anand Dairy; 2) Kaira Co-operative Milk Union; 3) Junagadh Milk Scheme.

Delhi: Delhi Milk Supply Scheme.

Kerala: Kodapannakunnu and Ollukara Dairy Farms Expansion.

Madras: Madras Co-operative Milk Supply Union.

Maharashtra: 1) Bombay Milk Scheme (Aarey); 2) Poona Milk Scheme; 3) Nagpur Milk Scheme.

Mysore: 1) Kudige Milk Scheme; 2) Bangalore Milk Scheme.

Uttar Pradesh: Allahabad Co-operative Milk Supply Union.

West Bengal: Calcutta Milk Project; Haringhata Milk Scheme.

The following dairy schemes are under construction in the respective States:

Andhra: 1) Kurnool Co-operative Milk Unions; 2) Visakhapatnam Dairy Farm Expansion; 3) Nellore Milk Scheme (with a target of 150 mds. of milk per day); 4) Guntur Co-operative Milk Union.

* Bilingual.

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Bihar : 1) Patna Milk Scheme (to handle 2,500 mds. of milk per day); 2) Gaya Milk Scheme (to handle 2,500 mds. of milk per day).

Maharashtra : 1) Bombay Milk Scheme (2nd Dairy Project); 2) Karjat and Sholapur Milk Projects.

Gujarat : 1) Rajkot Milk Conservation Plant; 2) Ahmedabad Milk Scheme (to expand from 400 mds. to 1,500 mds.).

Jammu & Kashmir : Srinagar Scheme.

Kerala : Trivandrum Dairy Scheme (to produce 100 mds. of milk).

Madras : 1) Coimbatore Milk Scheme; 2) Virudhunagar Salvage Farm; 3) Madras Milk Project.

Mysore : Kurikuppi Buffalo Dairy Farm.

Madhya Pradesh : Bhopal Milk Scheme.

Orissa : Cuttack Milk Scheme (to handle 250 mds. of milk).

Punjab : 1) Chandigarh Milk Scheme (to handle 250 mds. of milk); 2) Amritsar Composite Milk Plant (to handle 2,500 mds. of milk); 3) Hissar Livestock Farm.

Rajasthan : Jaipur Milk Scheme.

Tripura : Agartala Milk Scheme.

Uttar Pradesh : 1) Agra Milk Scheme (to handle 150 mds. of milk); 2) Expansion of Lucknow Co-operative Milk Union.

West Bengal : Greater Calcutta Milk Scheme.

Short notes on some of the important dairy schemes in operation :

Bangalore Milk Scheme : In the interim scheme, milk output has increased from about 100 to 125 mds. Expanded scheme is to cost Rs. 9·3 million with an output of over 600 mds. of milk.

Calcutta Milk Project : About 5,000 milch animals were removed from the City to Haringhatta Milk Colony and over 1,300 mds. of milk are now handled daily. Toned milk and flavoured vitaminised milk (with one per cent fat) are also supplied.

Delhi Milk Scheme : Started in 1960 at a cost of Rs. 45 million to the Centre and Rs. 150 million to New Zealand Govt., distributes 1, 800 mds. of milk daily through 320 depots meeting a quarter of the demand for Delhi City. The dairy gets milk from places within a radius of 50 miles (in Delhi, U.P. and Punjab) in the rural areas. Loans of about Rs. 8 million have been offered to producers to buy good cattle. The dairy plant is capable of handling 12,000 mds. daily.

In addition to assistance for milk projects in Bengal, Bombay††, Delhi and Madras, T.C.M. of U.S.A. offered assistance worth 0·57 million dollars in the form of equipment for two milk plants in Bombay and Trivandrum, three rural creameries in Bihar, Bombay†† and Madhya Pradesh and one milk product factory in the Punjab, and the services of a dairy consultant and technologist.

Cattle Power : Over 69 million cattle are engaged in agricultural operations to work approximately 38 million ploughs in addition to other farm work. Out of the 11 million carts in the country used for farm transport, about 0·5 million are located in the urban areas and the rest are in the countryside. Nearly 1·2 million working cattle are used for carting alone. Over half a million sugarcane crushers in the country are worked by bullocks. Over 0·3 million bullock driven ghanies are also run in the country each requiring at least one bullock.

ANIMAL DISEASES

The chief diseases that the Animal Husbandry and Veterinary Departments have to deal with are glanders and surra in equines, foot and mouth disease, haemorrhagic septicaemia, black quarter and anthrax in ruminants while tuberculosis, Johne's disease and contagious abortion are assuming greater importance than in the past. Glanders and surra are both scheduled diseases under the Glanders and Farcy Act. Glanders is incurable but surra can now be successfully treated with Naganol or Antrypol. This disease (surra) also affects camels, cattle and dogs and in recent years its importance as a bovine disease has been more widely recognised.

A major scourge affecting Indian cattle is Rinderpest which causes a mortality of about 60 per cent resulting in an annual loss of 0·4 million head of cattle, valued at about 300 million rupees. The First Plan had provided Rs. 1·67 million for Rinderpest eradication. The Second Plan has provided Rs. 18·3 million. Because of the eradication campaign of the past, Kerala, Mysore and Madras are now free from the disease. But, further north, in Andhra Pradesh, Mysore and Bombay†† States the disease is prevalent and a pilot scheme to vaccinate and brand about 12 million cattle and buffaloes has been in operation since October, 1954. As a result of the last five years' work over 57 million cattle and buffaloes have been protected out of an inoculable population of 131·6 million. The scheme is in operation in the States of Andhra Pradesh, Bombay††, M.P., Orissa, Bihar, West Bengal, Punjab, U.P., Delhi, Jammu & Kashmir, Assam, Himachal Pradesh and Rajasthan.

The quantity of vaccine produced during the First Plan period (October 1954 to March 1956) and the number of animals vaccinated were 7·5 million doses and 5·7 million animals respectively. During 1956-57, 10·573 million doses of vaccine were produced and 5·46 million animals were vaccinated. In 1957-58, 29·02 million doses of vaccine were produced and 14·389 million animals were vaccinated. In 1958-59, 52·142 million doses of vaccine were produced and 24·833 million animals were vaccinated.

In 1959-60, 44·627 million doses of vaccine were produced and 22·770 million animals vaccinated.

To meet the demand for vaccine in various States, six vaccine production centres have been established during the Second Plan period at Izatnagar, Lucknow, Calcutta, Ranipet (Madras), Mhow and Hissar.

Of the diseases of ruminants mentioned, all, with the exception of foot and mouth disease, can now be controlled either by means of sera or by vaccines.

Indian poultry are also subject to several contagious diseases.

During the First Plan 842 veterinary dispensaries were established.

Research and Educational Institutions

The Chief Research Centres under the Central Government :—Indian Veterinary Research Institute is situated at two places in Uttar Pradesh, Izatnagar, and at Mukteswar near Bareilly. They undertake both research and training.

The Institute supplies the veterinary demands of the whole of India for sera and vaccines and except for two minor institutions (one in Madras and the other in Mysore), it is the only source in India for these products. The present output of these products meets only ⅔rds of the demands. Recently on the advice of a foreign expert in the manufacture of Biological Products through modern methods, steps are being taken to modernise the equipment and processes.

Similarly, research in dairying is done at the Indian Dairy Research Institute, Karnal (Punjab) and at its southern regional station at Bangalore (Mysore). The Indian Dairy Research Institute is the principal educational and research centre in the country in Dairy Science. The institute and its southern regional station at Bangalore give courses in Animal Husbandry and Dairying. There is also the Agricultural Institute, Allahabad.

Practical training for the technical personnel required for the various dairy projects are provided at Aarey Colony, Bombay, Kaira Milk Union, Anand and at Haringhatta, Bengal.

There are 16 Veterinary Colleges in India, one each at Hyderabad, Tirupathi, Gauhati, Patna, Calcutta, Bombay, Nagpur, Mathura, Madras, Hissar, Bikaner, Bapatla, Mhow, Cuttack, Trichur and Jabalpur.

LIVESTOCK STATISTICS

The following table shows the estimates of livestock population for 1956 (*Latest available*) : (In thousands).

Area	Cattle	Buffaloes	Sheep	Goats	Horses & Ponies	Other Livestock	Total Livestock	Poultry
STATES								
1. Andhra Pradesh	10,958	5,743	7,428	3,601	96	708	28,534	14,058
2. Assam	5,247	478	32	1,103	16	306	7,182	8,712
3. Bengal (West)	11,587	772	667	5,298	30	345	18,699	13,189
4. Bihar	14,331	3,387	990	6,422	119	709	25,958	8,690
5. S. Gujarat	6,123	2,653	1,748	2,633	103	168	13,428	1,914
6. Jammu & Kashmir ..	1,757	374	1,465	814	96	2	4,508	2,166
7. Kerala	2,536	515	100	918	2	125	4,196	6,763
8. Madhya Pradesh	22,560	4,995	898	5,220	253	425	34,351	5,383
9. Madras	9,859	2,066	7,173	3,965	19	569	23,651	10,153
10. Maharashtra..	14,093	2,684	1,955	4,556	139	208	23,645	8,844
11. Mysore	8,997	2,642	4,151	2,606	42	254	18,692	7,899
12. Orissa	8,036	884	679	1,924	6	114	11,643	5,225
13. Punjab	5,943	3,852	1,164	1,871	100	445	13,375	1,411
14. Rajasthan	12,127	3,452	7,373	8,734	113	700	32,499	461
15. Uttar Pradesh	22,938	9,781	1,903	6,258	352	1,416	42,648	2,178
TERRITORIES								
1. Andaman & Nicobar Islands	5	6	*	4	*	14	29	57
2. Delhi	120	115	7	22	7	35	306	71
3. Himachal Pradesh	1,171	219	633	598	5	6	2,632	53
4. Laccadive, Minicoy & Amindivi Islands ..	*	*	*	*	*	*	*	*
5. Manipur	143	17	†	6	1	36	203	*
6. Tripura	317	41	3	109	1	41	512	355
TOTAL INDIA ..	158,863	44,766	38,666	56,628	1,503	6,657	307,083**	97,372

* Not known. † Less than 500. ** Includes poultry. †† Bilingual.

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FOOD

THE areas covered by the Punjab and the former Vindhya Pradesh (now part of Madhya Pradesh) are generally surplus in wheat.

The areas covered by the following States are generally surplus in rice: Orissa, Madhya Pradesh, Andhra, Punjab.

From the point of view of food generally the position is roughly as follows:

Surplus areas: Madhya Pradesh, Punjab, Orissa, Andhra.

Self-sufficient areas: U.P., Rajasthan, Madras, Mysore, Assam.

Deficit areas: Maharashtra, Gujarat, Himachal Pradesh, Bihar, West Bengal, Kerala, Kashmir, Tripura.

Manipur is marginal.

PRODUCTION

In 1959-60 food production was 71·8 million tons and the index figure 124·3.

Total foodgrains production in the country from 1951-52 to 1959-60 was as follows (figures in million tons): 1951–52: 51·17; 1952–53: 58·27; 1953–54: 68·72; 1954–55: 66·60; 1955–56: 65·3; 1956–57: 68·7; 1957–58: 62·5; 1958–59: 75·5; 1959–60: 71·8.

The following are the comparative production figures of rice, wheat, barley, millets and pulses during the period 1957–58 to 1959–60.

(000 tons)

Year	Rice	Wheat	Barley	Millets	Pulse
1959–60† ..	29,338	9,734	2,605	15,222	11,236
1958–59 ..	30,354	9,772	2,672	16,452	12,872
1957–58 ..	24,885	7,741	2,238	15,104	9,507

† Subject to revision.

The production of gram in 1959–60 was 5·4 million tons, Tur 1·6, and of maize 3·6 million tons. In 1960–61 the production of rice was 337 lakh tons. That of wheat was expected to be 104 lakh tons. The area under rice cultivation went up from 82·83 million acres in 1959-60 to 83·36 million acres in 1960-61. The average yield per acre works out at 906 lbs., an increase of 9·2 per cent over 1959-60.

State-wise details of production of foodgrains in 1959–60 (in 000 tons) are as under :—

Andhra Pradesh 6,296; Assam 1,660; Bengal (West) 4,615; Bihar 5,939; Jammu and Kashmir 487; Kerala 1,055; Madhya Pradesh 9,031; Madras 5,096; Mysore 3,627; Orissa 2,447; Punjab 5,367; Rajasthan 4,726; Uttar Pradesh 13,182; Andaman and Nicobar Islands 5; Delhi 48; Himachal Pradesh 330; Laccadive, Minicoy and Amindivi Islands (Not known); Manipur 93; Tripura 153; Naga Hills (Tuensang Area) 86; Gujarat 2,450 (1958-59); Maharashtra 6,009 ('000 metric tons).

The index of production of foodgrains is as follows (1949–50 = 100) :—

1950–51 : 90·5 ; 1955–56 : 115·3 ; 1956–57 : 120·8 ; 1957–58 : 107·9 ; 1958-59 : 130·1 ; 1959–60 : 124·3.

The index for Food grains (1949–50 = 100):

Food grains	1957–58	1958–59	1959–60
Rice..	104·8	127·6	123·3
Wheat	116·5	147·1	146·5
Jowar	120·4	127·2	114·8
Bajra	112·3	120·7	111·0
Ragi	112·0	126·3	125·2
Maize	133·1	134·3	143·6
Small Millets ..	87·9	108·4	105·3
Barley	95·1	113·5	110·7
Cereals	108·5	129·3	125·3
Gram	129·7	179·1	140·3
Tur ..	76·6	90·9	86·4
Other pulses ..	87·4	105·3	103·6
Pulses	104·2	135·2	117·2
Food grains ..	107·9	130·1	124·3

In Jan. 1961 rice price index stood at 99 as against 102 in Jan. 1960. In Jan. 1961 wheat price index stood at 91 as against 97 in Jan. 1960.

SUPPLY

The demand and supply of cereals from 1957 to 1959 :

(000 tons)

		1957	1958 (*e*)	1959 (*e*)
Production (*a*) ..		57,245	53,004	61,295
Procurement		290	577	1,832
Net Imports		82	399	379
Opening Stocks in Godowns	States ..	208	747	511
	Centre ..			
	Total ..	290	1,146	890
Offtake from Godowns	States ..	1,002	2,163	2,564
	Centre ..	1,946	1,729	2,422
	Total ..	2,948	3,892	4,986

The balance sheet of foodgrains distributed by Governments during 1958 and 1959 was as follows :

(in thousand tons)

—	1958	1959
Opening Stock with States ..	399	379
Procurement	77	1,832
Net Supplies to States ..	—	—
Total Availability	976	2,211
Offtake in States	2,163	2,564
Transfer of Stocks to Centre	—	—
Stocks with States at the end of the year	399	379
Central Sales during the year	1,779	2,422
Central Reserves at the end of the year	747	511

(*a*) Production figures refer to the agricultural year (*i.e.* July–June) and production under 1957 relates to the agricultural year (1956–57).

(*e*) Figures for 1958 and 1959 are provisional and subject to revision.

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During 1960, 44·1 lakh tons of foodgrains comprising 34·7 lakh tons of wheat, 9·2 lakh tons of rice and a small quantity of coarse grains were issued from Central Govt. stocks either to retailers, flour mills etc., or to State Govts. for distribution through their own arrangements. The total number of fair price shops in different States at the end of Dec. 1960 was about 51,000.

The total procurement of rice in 1958–59 was 1·3 million tons. Of this a little more than 700,000 tons was procured by the Centre and the rest by the States—Andhra, Orissa, M.P., and the Punjab.

The amounts of subsidy involved in the supply of rice and wheat at the prescribed issue prices to West Bengal, Bombay* and Madras States during 1958-59 and 1959-60 respectively were approximately as follows (Rs. in lakhs): West Bengal (315 ; 338) ; Bombay* (189 ; 244) ; Madras (12 ; 35).

Supplies of rice and wheat to State Govts. from Central stocks in 1960 (upto Nov.) amounted to 694,000 tons and 1,176,000 tons respectively.

IMPORTS (1951-60)

In 1959, 290 thousand tons of rice, 3,497 thousand tons of wheat, 9,000 tons of corn and 11 thousand tons of sorghum were imported. In 1960, 50·56 lakh tons of food grains were imported.

The imports of foodgrains over the years were as follows ;

(figures in million tons)

1951—4·7 ; 1952—3·9 ; 1953—2·0 ; 1954—0·808 ; 1955—0·7 ; 1956—1·42 ; 1957—3·58 ; 1958—3·173 ; 1959—3·807 ; 1960—5·06.

The imports of individual grains were as follows :

(in million tons)

	1958	1959	1960
Rice	0·391	0·290	0·688
Wheat (including flour)	2·673	3·497	4·316
Others	0·109	0·020	0·052
TOTAL	3·173	3·807	5·056

In 1959 : Sorghum 0·011, corn 0·009.

The cost of import of foodgrains was as follows :

(figures in crores of rupees)

1951—216·8 ; 1952—209·1 ; 1953—85·95 ; 1954—48·53 ; 1955—33·11 ; 1956—56·34 ; 1957—16·239 ; 1958—120·51 ; 1959—141·41.

Countries from which imports were obtained from 1957 to 1959 with quantity (in million tons and C & F value (in lakhs of rupees) were as follows :

Country	1957		1958		1959	
	Quantity	Value	Quantity	Value	Quantity	Value
U.S.A. ..	2·868		2·007		3·147	
Australia ..	0·161		0·015		0·096	
Argentina ..	—		—		—	
Canada ..	0·011		0·760		0·274	
U.S.S.R. ..	—		—		—	
Pakistan ..	0·012		—		—	
Burma ..	0·509		0·384		0·290	
Viet Nam ..	0·007		0·007		—	
China ..	0·014		—		—	
TOTAL ..	3·588	16,239	3·173	1,20,51	3·807	1,41,41

Countries from which imports of individual grains were made in 1959 were as follows :

(in thousand tons)

	Wheat	Rice	Millets	Maize
China	—	—	—	—
U.S.A.	3,127	—	11	9
Australia..	96	—	—	—
Burma	—	290	—	—
Viet Nam	—	—	—	—
Pakistan	—	—	—	—
Canada	274	—	—	—
TOTAL	3,497	290	11	9

The Plan provided for an import of 6 million tons of foodgrains costing about Rs. 48 crores a year.

An important event which had a salutory effect on the market sentiment during 1960 was the conclusion of the long-term P.L. 480 agreement with U.S.A. in May 1960 for the import of 16 million tons of wheat and one million metric tons of rice over a period of four years.

PRICE LEVEL

The movement in the price of some items is shown by the following table of index numbers of wholesale prices :

(Base 1952–53 = 100)

	1957		1958		1959		1960	
	January	December	January	December	January	December	January	November
All commodities	107·2	107·0	106·0	111·4	112·4	117·9	118·9	126·0
Food Articles	103·2	104·0	102·5	113·3	114·3	118·2	117·7	120·2
Cereals	95·0	98·3	97·0	105·0	105·2	100·8	101·7	103·5
Pulses	86·0	80·0	80·0	111·1	117·1	91·9	92·0	94·3
Rice..	93·0	102·0	101·0	97·5	92·1	100·9	101·7	106·0
Wheat	94·0	86·0	86·0	114·4	124·8	95·6	96·6	89·8
Jowar	119·0	109·0	103·0	104·2	107·1	119·7	119·0	126·0
Bajra	132·0	117·0	114·0	127·8	131·9	120·5	124·6	134·9
Ragi	97·0	109·0	103·0	101·1	101·3	112·4	111·6	123·5
Gram	78·0	65·6	64·0	107·9	120·9	70·2	72·2	92·4
Arhar	83·0	73·0	74·0	131·0	137·2	116·4	114·0	98·8

The three main production requisites are land reclamation, seeds and fertilisers and manures. During 1959-60, 6,600 acres of land were reclaimed by the Central Tractor Organisation. During the same period central assistance of Rs. 47 million was provided for setting up 788 seed farms. During the 2nd Plan 2,700 seed farms were set up against a target of 4,000. Quality seed from surplus areas were procured and distributed. 192·5 thousand mds. of wheat land and 60 thousand mds. of gram seeds were arranged for flood affected areas.

* Bilingual.

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FERTILIZERS & MANURES

India's requirement of nitrogen fertilizer is placed at between 2 and 2·5 million tons. Minimum requirement would probably be estimated at 1·5 million tons on the basis of 30 lbs. per acre.

It is estimated that the use of one ton of fertilizer on an area of 75 acres results in an extra 10-ton production of food grain.

The demand, production and short-fall of nitrogenous fertilisers were as follows (The figures are in million tons):

	Demand	Production	Imports	Shortfall
1959–60 ..	1·882	0·846	0·348	0·688
1960-61 ..	2·311	0·656*	—	1·655

* Estimated.

For 1959-60 the import programme as in January 1960 stood at 2·7 lakh tons.

Ammonium sulphate is made available to individual cultivators by the State which gets this at a uniform rate of Rs. 350 per ton from a Central pool. The State gets a loan from the Centre to buy this, as well as to buy fertilizer from the open market.

The progress made in the implementation of schemes to expand production of chemical fertilisers indicates that by the end of 1961 or early in 1962 the target capacity of 3·8 lakh tons of fertilisers (in terms of nitrogen) would be attained.

This would mean that the production capacity in terms of ammonium sulphate would be about two million tons, nearly five times the present output of ammonium sulphate in the country or six times the present output of the Sindri factory.

In recognition of these facts, a substantial expansion of fertiliser production capacity was provided for in the Second Plan.

This is being achieved through the expansion of the Sindri factory itself and the setting up of four new large units at Nangal in the north, Neyveli in the south, Rourkela in the east, and at Trombay near Bombay. Two more are proposed—one in Andhra (Kothagudum) and the other in Assam (Nahorkatiya). In the private sector there will be one at Varanasi. It is also planned to expand the unit at Alwaye. Besides there is the additional production of fertiliser nitrogen as a bye-product in the new steel plants.

The whole position about synthetic fertilizers is shown in a system form below:

The total capacity for the production of the fertilizer ammonium sulphate in 1959 was about 4,32,000 tons per annum.

This is made up of 4,01,000 tons represented by plants where the fertilizer is manufactured directly and 31,000 tons by plants where it is a bye-product. Details are given below:

	Tons
Direct manufacture	
Sindri Fertilizers	3,50,000
Travancore Fertilizers & Chemicals, Alwaye	44,550
Mysore Chemicals & Fertilizers, Mysore	6,600
Bye-Product	
Tata Iron & Steel, Jamshedpur ..	16,500
Indian Iron & Steel, Burnpur ..	10,230
Indian Iron & Steel, Kulti ..	1,650
Burrakur Coal Co., Calcutta ..	1,320
Bararee Coke Co., Calcutta ..	1,155
Schemes under implementation are:	
Trombay Fertilizer..	90,000
Nangal Fertilizer	80,000
Rourkela Fertilizer..	80,000
Neyveli Ferlilizer	70,000
Sahu Chemicals, Varanasi* ..	10,000
Travancore Fertilizers (expansion)	10,000

* Now in operation (Apr. 1960).

The likely dates of starting are: Trombay 1964, Nangal end of 1961, Rourkela Sept. 1961, Neyveli end of 1961.

The investment in crores of rupees and the capacity in tons over the years would be as follows: The foreign exchange is given in brackets:

1960: 250,000 tons; Rs. 9 crores (Rs. 4·2 crores).

1961: 350,000 tons; Rs. 9 crores (Rs. 4·2 crores).

1962: 380,000 tons; Rs. 42 crores (Rs. 18·8 crores).

1963: 400,000 tons; Rs. 51 crores (Rs. 23 crores).

1964: 400,000 tons; Rs. 54 crores (Rs. 24·2 crores).

1965: 700,000 tons; Rs. 60 crores (Rs. 27 crores).

1966: 1,200,000 tons; Rs. 15 crores (Rs. 6·8 crores).

Total: Rs. 240 crores (Rs. 108·2 crores).

As a result of larger utilisation of organic wastes, the manure production was expected to increase to 6 million tons by March 31, 1959. Its quality will also improve from the existing 0·4 and 0·5 per cent to 0·8 and 1·0 per cent —these figures representing the nitrogenous element in it.

The night soil compost scheme, which has now been introduced in Madras, Rajasthan, Punjab, Orissa and Mysore, will cover 500 bigger panchayats, for which Central assistance has been given at the rate of Rs. 2,000 per panchayat.

A total number of 2,250 urban centres was also engaged in night soil compost production in the States.

During 1958–59 about 2·3 million tons of urban compost was prepared and in 1959–60 it was proposed to be stepped up to 2·85 million tons.

Distribution of green manure seeds in parcels is encouraged in most States. A subsidy of Rs. 2 per head is given to the State for multiplying green manuring seed.

According to the finding of the Committee of Enquiry appointed by the Ministry of Food & Agriculture on fertiliser distribution, the consumption of nitrogenous fertilisers in the country has gone up very rapidly from 2·82 lakh tons in 1951-52 to 11 lakh tons in 1959-60 in terms of sulphate of ammonia. It has been planned to increase this consumption to 50 lakh tons in 1965-66. Similarly the consumption of phosphatic fertilisers has gone up from 6,880 tons in 1951 to 38,887 tons in 1959, and is expected to rise to four lakh tons in 1965-66 in terms of P 205.

Among the more important recommendations of the Committee are (1) careful education of farmers in the use of mixtures and complex fertilisers, (2) regular taking of samples for test analysis from all varieties of fertilisers at various stages of their marketing, (3) training of sales personnel, (4) the establishment of a single agency in every State for co-ordinating distribution and allocating supplies, (5) encouragement by State Govts. to superphosphate manufacturers to build up their sales organisation to promote the use of new or comparatively less popular fertilisers through suitable incentives, (6) a progressive switch-over to concentrated fertilisers wherever economies in transport cost are badly needed, (7) abolition of sales tax on fertilisers and (8) the creation of an organisation called the "Central Fertiliser Marketing Corporation" to take up the duties now performed by the Central Fertiliser Pool along with the anticipated additional responsibilities.

THE FOOD PROBLEM

The present per capita net availability of cereals is about 12 to 13 ozs. per day, equivalent to about 1,200 to 1,300 calories. The per capita net availability of rice for consumption during 1960 was 6·44 ounces per day.

The *per capita* consumption in India of all food items in terms of calories compares as follows:—Canada: 3,140; U.S.A.: 3,150; U.K.: 3,270; Japan: 2,110; and India: 1,880.

The problem can be summed up in some such way as the following:—

The consumption of food grains and pulses in India has been increasing over the last three years faster than production.

The increase in population of eight million persons per year in itself will require one million tons of additional food grains each year. With an increase of the *per capita* intake of 100 calories per day, India would require an additional five million tons food grains per year.

It will take another five years for India to achieve the 81-million-ton food target of the Second Five-Year Plan. Consumption in the meantime will increase to 87 million tons, leaving a net deficit of six million tons per year.

Of this, India would probably import one million tons per year commercially. The balance of five million tons would need to be met somehow.

A reserve for India is necessary to meet crop failures and other contingencies.

For building such an emergency reserve two things would be necessary—imports in excess of the normal expected needs; and storage capacity. A minimum of six million tons a year would be required to be imported if a reserve of five million tons in five years was to be achieved. Storage capacity far in excess of the one now planned would be needed.

The Government of India already has space for the storage of two million tons of grain and plans have been drawn up for additional storage space for one million tons by the end of the Third Plan. This is inadequate both in terms of time and quantum. On March 5, 1961, the Central Govt. had stocks of 21·53 lakh metric tons as against 7·93 lakh metric on Jan. 1, 1960. Besides, the State Govts. also held a stock of about eight lakh metric tons on March 5, 1961.

If a five-million-ton buffer stock is to be built up in the next two or three years, the necessary storage space must be ready within this period.

Silos for the bulk storage of food grains, mainly wheat, are being built at Kalyani, near Calcutta, and Borivli, near Bombay (Jan. 1960).

These silos—to be constructed in concrete—will be in addition to the 10,000-ton steel grain elevator already in operation at Hapur, near Delhi, and a similar one under construction at Calcutta port.

The Hapur silo was built with assistance from the T.C.M. The new silos in West Bengal and Bombay will be much larger and will be completely Indian-owned.

In the Pusa area of Delhi, several well-constructed godowns of 30,000-ton capacity which were till recently used by the Central Tractor Organisation—now closing down—are likely to be taken over for the storage of food-grains.

(See 'warehouses' in the article on Agriculture.)

The Solution

The strategy of the Food Department is (*a*) to create more or less self-sufficient zones and to segregate heavily deficit areas or other important consuming centres where Government could release adequate stocks of food grains from the central reserve; and (*b*) to take suitable measures against the speculative hoarding of stocks by the trade; (*c*) build up a buffer stock of five million tons of food grains both from internal resources and from imports (3·5 million tons of wheat and 1·5 million tons of rice); (*d*) creation of a statutory Board for fixing the price of all agricultural crops; (*e*) distribution through fair price shops. There are a little over 41,000 of these shops in the country.

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For 1959-60, a provision of Rs. 368·7 million (Rs. 174·8 mln., Rs. 150 mln. and Rs. 43·9 mln. as long-term loans, short term loans and subsidies respectively) was made for giving assistance to States for programmes of agricultural production.

A food science organisation is also being set up at the Centre to educate the people in methods of evolving a low-cost balanced diet from indigenous foodstuffs. The organisation will undertake campaigns to eliminate diet deficiencies and to popularise and organise the distribution of subsidiary foods. At the village level, the work will be done by gram sevaks.

Simultaneously, a scientific panel is being set up in the Union Food Department to devise measures to change the pattern of food consumption in the country.

Government created in 1957 separate rice and wheat zones.

The Southern Rice Zone consists of Kerala, Madras, Andhra, Mysore and Pondicherry. There is another Rice Zone comprising Punjab, Himachal Pradesh and Delhi. This was set up in 1958. A third rice zone the Eastern Rice Zone consisting of West Bengal and Orissa came into being in Dec. 1959.

Originally there were three wheat zones, the Northern Wheat Zone, the U.P. Zone, and the Western Wheat Zone comprising M.P., Rajasthan and Bombay.†

In 1959 Feb., however, the Western Zone was split up into its constituent States and imports into and exports from these States were prohibited.

The creation of the Southern Rice Zone has helped to meet the problem of chronically deficit Kerala, as the surplus from Andhra Pradesh can make up the deficit in Kerala and the Zone is, on the whole, surplus in rice.

Similarly, with regard to wheat, in the Northern Wheat Zone, the surplus of the Punjab will cover the deficit of Delhi and the prices of wheat have also stabilised at a reasonable level.

The Government of India have had to distribute annually about 0·15 to 0·2 million tons of wheat in Delhi in the past. After the creation of the Wheat Zones the markets became easier in the other two Zones, *viz.*, the U.P. Zone and the Western Zone.

Other important restrictions which have been imposed on the movement of foodgrains‡ on a Zonal basis are as follows:—(*i*) *Bihar*, which suffered very heavily in 1958 owing to the failure of both wheat and rice crops, has been cordoned off for all foodgrains; (*ii*) *Eastern Uttar Pradesh:* Export of rice from the eastern districts of Uttar Pradesh was prohibited; (*iii*) The following areas were cordoned off for rice: (*a*) Assam, Bengal, (*b*) Madhya Pradesh, Punjab, Delhi, (*c*) Tripura, (*d*) Manipur, and (*e*) Punjab and Himachal Pradesh (movement from Punjab to Delhi is, however, free).

The anti-hoarding measures adopted by Government in 1957 took the form of (*a*) Control of Bank Credit, (*b*) Requisition of stocks at normal prices, and (*c*) Licensing mills and wholesale trade.

Power under Sub-section (3A) of Section 3 of the Essential Commodities Act, which authorizes government to requisition stocks at the average of the prices prevailing during the three months prior to the issue of the notification have been delegated to the State Governments who have exercised them whenever necessary.

The Wheat Roller Flour Mills Control Order ensures that all the roller flour mills in the country are licensed and their purchases regulated and recorded. The wholesalers are also required to submit periodical returns in most of the States to enable the States to keep a watch on the stocks of foodgrains available with the trade.

A fair and equitable distribution of food is ensured through (*a*) phasal release from Central Stocks, (*b*) Separate allocation of foodgrains for mills, and (*c*) sale through fair price shops.

Government have met the requirements of the flour mills in Andhra, Assam, Calcutta, Bombay City, Bihar, Madras and Mysore. The flour mills in Uttar Pradesh, Madhya Pradesh, Rajasthan, and Bombay† districts have been prohibited open market purchase of wheat, and allotted suitable quotas of imported wheat from Government stocks.

Over 51,000 fair price shops function in the country for the distribution of foodgrains. To ensure that the foodgrains issued from fair price shops reach the genuine consumer and to minimise malpractices in their functioning, identity cards have been introduced.

Inspection organisations have also been set up to watch the working of fair price shops.

Another important measure taken to curb speculative activities is the imposition of ban on forward trading in coarse grains and pulses which had a favourable effect on prices and supply.

The Guest Control Orders have been issued in a number of States imposing restrictions on the number of guests that can be entertained at a time. This is to avoid wastage of foodgrains.

The fact that limited stocks of rice are available was impressed on the State Governments and they were asked to conserve the available supplies wherever possible, and to issue wheat instead of rice. A substantial portion of the ration in West Bengal is being supplied, therefore, in the form of wheat.

CROP CAMPAIGNS

In mobilising and co-ordinating the available resources and agencies in raising agricultural production Crop Campaigns* have played an important role. An intensive Rabi Campaign was started during 1958–59 in nine States (Andhra Pradesh, Bihar, Bombay,† Delhi, Madhya Pradesh, Mysore, Punjab, Rajasthan and Uttar Pradesh) for raising the production of four major Rabi crops, namely, wheat, barley, gram and Rabi jowar.

These efforts were reflected in the increase in production of 3·2 million tons (16 per cent) of foodgrains valued at Rs. 112 crores during the 1958–59 Rabi season as compared with the average production of the last three years ending 1957–58. Food Production registered an increase in all the nine States, which participated in the campaign. In six States—Bihar, Bombay,† Madhya Pradesh, Mysore, Punjab and Delhi—the production rose by more than 15 per cent.

1960 Season

Under the 1959 Kharif Campaign, efforts were concentrated on the production of rice, which is the major Kharif crop. Other major crops covered by the drive were jowar, maize, bajra and ragi.

For 1960 the campaign was pushed forward with greater intensity laying particular stress on minor irrigation, production of green manure seeds, fertiliser, short-term credit, pesticides and implementation of the Nalagarh Committee's recommendations.

(For a detailed summary of the report see the 1959–60 edition of the *Directory*.)

Over 2,700 seed farms have been established.

Consideration is being given to a scheme under which a range of guaranteed minimum prices may be announced for various crops over a period of three to five years.

A permanent committee on which farmers would be represented may be appointed to review and revise the agricultural price structure from time to time.

Subsidiary Foods

Two pilot plants for the production of edible groundnut flour, each with a capacity of 10 tons per day, being set up with UNICEF assistance at Bombay and in a suitable place in Madras State, are expected to go into production in 1961. Eight more similar plants may be set up during the Third Plan period in the light of experience. Other programmes under consideration for the development of subsidiary foods include production and popularization of multi-purpose food, macaroni products, enriched wheat flour and adoption of improved techniques for the parboiling of rice. The Scientific Food Advisory Panel set up in the Department of Food has initiated investigations for the development of cotton-seed protein for human consumption, fortification of common salt with calcium and development of food from green vegetation and further work on parboiled rice and vegetable milk powder.

Pilot Projects

The recommendation of the Ford Foundation Team on Agricultural Production (summarised in 1960-61 Directory) that intensified work on a pilot project basis be taken up in selected areas is also being given effect to. A pilot project has been drawn up—this will also be financed by the Ford Foundation—for selected districts, one each in seven States—four rice-growing States, namely, Andhra Pradesh, Bihar, Madras and, Madhya Pradesh, two wheat growing States, namely, U.P. and Punjab, and one millet-growing State, namely, Rajasthan. The rice districts are Tanjore (Madras), West Godavari (Andhra), Raipur (M.P.), and Shahabad (Bihar). The wheat districts are Ludhiana (Punjab) and Aligarh (U.P.). The millet district in Rajasthan is Pali.

As the result of an offer made by the West German Government six more districts are likely to be chosen for a similar experiment.

The pilot project is part of a "package programme" for 1960 in which all the factors that are likely to contribute significantly to a rapid increase in food production would be combined into one programme. The essence of the scheme is to make available to the farmer in the selected districts all his needs in terms of credit, supplies including fertilizers and seeds and demonstrations. All supplies will be made available at the farmer's door or at least within bullock-cart distance. The programme would include adequate incentives and aids to cultivators to increase production. The project was considered at a meeting of the Agricultural Secretaries of the seven selected States on October 27, 1959, and further action was expected to be taken in consultation with the States concerned.

The Ford Foundation, which sponsored the team on whose recommendation this programme has been adopted, has agreed to finance the pilot project in a big way.

Among other things, the Foundation will underwrite up to a certain percentage losses incurred by co-operative societies in advancing loans to non-credit-worthy farmers, and fully any loss of stocks which will have to be stored three months in advance of need by service co-operatives. The farmer will be guaranteed against any failure of crops.

The Foundation will also help to organise public works programmes to put landless labour to work on projects like soil and water conservation, and to establish modest agricultural implements factories.

It is prepared to supplement Governmental efforts to the extent necessary to try out all the measures essential to raise production in the selected districts provided the scheme is tried for a period of five years and all the suggestions are accepted as a whole.

* A description of this is given in the 1959–60 edition. † Bilingual. ‡ The restriction on wheat movement was lifted throughout the country from early April 1961.

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Suitable storage and marketing facilities will be provided. The Government will undertake to buy all the produce at a stated minimum price or the prevailing market rate, whichever is higher.

Another requirement will be well-developed village institutions, particularly co-operatives and panchayats, through which developmental efforts will be made to reach the farmer.

The results will be evaluated from the beginning on a yearly basis to see whether the investment is commensurate with the extra production. Crop-cutting surveys will be undertaken of the actual production before the scheme is launched and every two seasons thereafter to assess progress.

PRODUCTION POTENTIAL

On the basis of an assessment recently made in consultation with States Officers, it is estimated that as a result of the various measures adopted, facilities for an additional production of about 3·2 million tons of foodgrains were created during 1956–57 and 1957–58. The latest available information shows the anticipated achievement in respect of additional foodgrains production potential during 1958–59, as 2·5 million tons and the target during 1959–60, as about 4 million tons, leaving a balance of about 5·8 million tons for the last year of the Plan. A statement showing State-wise figures of foodgrains production potential estimated to have been created during some years of the Second Plan is given below :—

(In '000 tons)

State	1956–57 (Achievement)	1957–58 (Achievement)	1958–59 (Anticipated)	1959–60 (Target)
Andhra Pradesh	162·8	236·6	336·2	358·5
Assam	52·7	43·5	33·8*	60·3
Bengal (West)	101·2	172·3	145·5	226·4
Bihar	104·9	156·6	255·9	497·1
Bombay†	94·2	100·0	142·8*	252·0
Jammu & Kashmir**	20·0	2·2	4·7	40·6
Kerala	42·0	58·8	15·9	135·1
Madhya Pradesh	61·9	89·3	133·8@	222·9@
Madras	204·5	208·8	172·9	316·8
Mysore	54·2	102·1	114·9	195·5
Orissa	32·0	3·3	58·0	418·8
Punjab	124·0	124·6	384·7	361·6
Rajasthan	26·5	69·9	221·4	249·2
Uttar Pradesh	299·0	422·0	489·0	715·0
Union Territories**	5·8	11·9	22·7	29·0
TOTAL	1,385·7	1,801·9	2,532·2	4,078·8

* Actual achievement. † Bilingual.

** Figures are provisional and subject to revision.

@ Excludes information for C.D. & N.S.

Trends in Agricultural Production

Crop	Unit	1959-60 (Final)	1960-61 (Anticipated)	Second Plan target
Foodgrains :				
Rice	Million tons	29·3	75·0	80·5
Wheat		9·7		
Cereals	,,	60·5		
Pulses	,,	11·3		
Total Foodgrains	,,	71·8		
Sugarcane (Gur)	,,	7·6	7·2	7·8
Oilseeds	,,	6·4	7·2	7·55
Cotton	Million bales	3·8	5·4	6·5
Jute	,,	4·5	5·5	5·5

Even with the record food production of 73·5 million tons in 1958–59, the food situation has not been free from anxiety. This emphasises the urgent need for reaching as near as possible to the revised target of 80·5 million tons envisaged under the Second Plan.

FOOD PRIZES

A scheme for the award of community prizes at district and State level had been introduced during the 1959 *rabi* production drive for providing incentive to the cultivators.

The awards were won by six States—Rs. 50,000 each—by registering an increase in production of more than 15 per cent over the past three years' average. The States were Bihar, Bombay†, Madhya Pradesh, Mysore, Punjab, and Delhi.

The total value of the awards amounts to Rs. 13·75 lakhs which will be borne entirely by the Union Ministry of Food & Agriculture.

EXPERT COMMITTEE ON WASTE LANDS

An Expert Committee has been constituted to locate waste lands for their economical utilization with a view to increased agricultural production. The Committee has already submitted reports about West Bengal and Punjab. Bihar and Mysore reports were being finalised (March 1961). Reports of Andhra, Kerala, Madhya Pradesh and Madras are to be finalised after discussion with the State Govts. The conditions in the States of Assam, Gujarat, Jammu & Kashmir, Maharashtra, Orissa, Rajasthan and U.P. are yet to be studied.

According to the Committee's findings 113,640 and 316,650 acres in West Bengal and Punjab respectively could be reclaimed and brought under reclamation.

The 3rd Five Year Plan has tentatively allocated Rs. 100 million for the implementation of some of the recommendations of the Committee. Special provision of Rs. 120 million has also been made for land reclamation costs.

FORD FOUNDATION TEAM REPORT

A U.S.A. team of 13 Agricultural Experts arrived in India under the sponsorship of the Ford Foundation, early in 1959, and with the help of their Indian counterparts, they studied the Indian agricultural problem.

A summary of the Ford Foundation report published during the year 1959 is given in the 1960-61 edition of the Directory.

FIVE-YEAR PLANS

Details about the target and achievement during the First Plan are given in the 1960-61 Directory.

In February, 1955, on the eve of the Second Five Year Plan, the Planning Commission placed before the States the goal of doubling agricultural production within the next ten years.

The target finally fixed was 80·4 million tons as against 65 millions in 1955–56.

If this target was realised the increase in the production of foodgrains would be 25 per cent.

The Plan for each State provided for programmes for utilisation of irrigation facilities; production, multiplication and distribution of improved seeds, especially of paddy, wheat and jowar; use of fertilisers, compost and green manures; spread of Japanese method of cultivation, soil conservation, etc.

The Plan provided for the opening of 4,185 seed farms during the Plan period.

The increased food production was to come as shown below (figures in million tons):

From Major irrigation 3·02, Minor irrigation 1·89, Fertilisers 3·77, Improved seeds 3·40, Land development 0·94, Improved agricultural practices 2·47, Total 15·49. Production of food grains expected in 1960-61 is 75 million tons. The target of total production for 1961-66 is 100 to 105 million tons.

The Planning Commission has always stressed that in every village the panchayat and village co-operative should have a programme for the village—which would be made up of all family programmes for which the entire village would be prepared to work. These should be fitted into block and district programmes and through these into State programmes. The Community Development movement is the agency at the disposal of the States for reaching all families in the countryside.

The responsibility of the villages would involve : the construction of the field channels needed to utilise the irrigation available from multi-purpose, large and medium purpose and their maintenance in an efficient condition from day to day; the responsibility for maintaining minor irrigation works and tube-wells and for excavating and maintaining field channels; contour-bunding, soil conservation and other programmes for dry farming in the dry areas and construction and maintenance of bunds; Producing as a permanent arrangement in the village all the seeds and organic and green manure needed; arranging for the supply of these in kind to those who cannot pay for these in advance, recovering after harvest; Arranging for the distribution of fertilisers received for the village and their supply to the smaller holders on credit in the first instance; Promoting the use of Japanese method of cultivation in all areas suitable for it and other advanced techniques for wheat and other crops which are suggested by the technical departments, and in other ways, work for a diversified agricultural economy

Under the 3rd Plan 20 State farms like Suratgarh, of 10,000 acres each are to be set up.

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FISHERIES

THE fishing industry in India offers employment to about a million persons and contributes annually over Rs. 60 crores towards the national income.

About 73,400 fishing craft are estimated to be employed.

The estimated annual production of fish is about 12 lakh tons, of which 70 per cent comes from sea and estuarine fishing.

The average catch is about 2,500 lbs. per man per year.

About 27,000 tons of fish products, consisting mostly of dry, dry-salted and wet-salted fish, are annually exported to neighbouring countries.

The annual per capita availability of fish in India is estimated to be 3·4 lbs. as against 16 lbs. in Ceylon, 70 lbs. in Burma and 90 lbs. in Japan.

It is estimated that 40·5 lakh tons of fish would be needed to meet this country's minimum requirements.

Surveys conducted recently in the Bay of Bengal and Arabian Sea reveal that if only our rich resources are properly exploited this would more than meet the demand. The greatest handicap in the exploitation of the country's fish resources hitherto has been the traditional methods of fishing. The great part of the 73,400 boats and other craft used for fishing cannot operate beyond a few miles.

Experiments in mechanisation of fishing are being conducted since 1948 with the help and assistance received from Norway, U.S.A. and F.A.O.

Some of the steps taken by Government to improve fish production are mechanisation of fishing craft, training centres for fishermen, cold storage facilities, formation of deep-sea fishing stations and research at the four main central stations, *viz.*, Central Inland Fisheries Station, Calcutta, Central Marine Fisheries Research Station, Mandapam, Deep-sea Fishing Station, Bombay and the Central Fisheries Technological Research Station, Cochin.

Today more than 800 mechanised boats are operating on Indian coastline. In Bombay the local types of boats are being mechanised. New designs have been evolved for boats in Madras, Kerala and Andhra States. Experiment in improved types of fishing with small power craft are also in progress.

Cold storage facilities exist in Bombay, Mangalore, Calicut, Cochin, Quilon, Trivandrum, Madras and Calcutta. Additional plants are being installed in many other places. Some of these plants have been provided under T.C.M. and Norwegian aid programmes.

The Central Board of Fisheries approved of the fisheries development and research programmes of the Central and State Governments for the Third Five-Year Plan and laid stress on the promotion of export trade in fish and fish products. An Expert Committee for higher fisheries training programme was also set up. The Committee recommended the establishment of a Central Institute of Fisheries Education for training District Fisheries Development Officers and operatives and lower grade administrative staff. The institute will be initially housed in the Institute of Science, Bombay. An *ad hoc* Fisheries Enquiry Committee examined the present status of mechanised fishing with a view to recommending suitable measures for meeting the requirements of the fishing industry.

It is estimated that during 1959-60 the Central fisheries establishments would have incurred over Rs. 3 million on various fishery research and development projects.

For training fishermen there are centres at Satpati near Bombay, Veraval in Saurashtra, Cochin in Kerala and Tuticorin in Madras. New training centres are being opened at Mangalore in Mysore State and at Kakinada in Andhra Pradesh. At these centres batches of 20 candidates are admitted for 6 months training.

The Central Deep Sea Fishing Station at Bombay gives training in modern fishing methods.

In Calcutta the fisheries training centre gives instruction in inland fisheries development. Higher training facilities are under consideration by a special committee appointed by the Government of India.

Local fishermen numbering 140 were trained in mechanised fishing and Indian instructors and fishermen-continued to receive training in powered fishing on board the I.N.P. Fishing Fleet at Cochin. 36 candidates including two from S. E. Asian countries completed their inland fisheries training course conducted at the Calcutta station.

Under the Second Five-Year Plan, a sum of Rs. 10 crores was expected to be spent by the Central and State Governments on the development of fisheries. Of this Rs. 82 lakhs were to be devoted to mechanisation and improvement in fishing craft.

PRODUCTION

Production is shown by the table below. About two-thirds of the catch are marine-fishes.

'000 tons

Year	Marine	Inland	Total
1952	520	212	732
1953	572	234	806
1954	579	236	815
1955	586	240	826
1956	707	289	996
1957	875	358	1,233
1958	755	309	1,064
1959	584	239	823

The following table shows the figures by species:

'000 tons

Groups & Species	1957	1958	1959
MARINE FISH			
Flounders, halibuts, soles, etc.	3·7	12·9	10·4
Cods, hakes, haddocks, etc.	1·1	3·9	3·8
Herrings, sardines, anchovies, etc.	293·0	221·6	173·5
Tunas, bonitos, mackerels, etc.	139·3	176·3	103·5
Miscellaneous marino teleosteans	278·4	230·0	202·0
Sharks, Rays, skates, etc.	23·1	24·3	23·5
Crustaceans	136·8	86·7	67·5
A Total marine fish	875·4	755·7	584·2
B Fresh water fishes	357·6	308·7	238·6
C Grand total	1,233·0	1,064·4	822·8

The total landing of marine fish by State is shown below (where available):

(*In metric tons*)

	1958	1959
East Coast:		
Bengal & Orissa	6,267	3,962
Andhra	28,846	29,464
Madras (E)	55,265	103,497
West Coast:		
Madras (W)	62,791	
Kerala	294,655	191,375
Mysore	80,242	52,825
Bombay *	212,756	198,192
Gujarat	10,130	
Mechanised Vessels	4,730	4,755
	755,774	584,193

The catches declined considerably in West Bengal, Orissa, Kerala and Mysore. Decline was not much in Madras and Bombay*. The landings of Bengal and Orissa was only about ⅓ of 1958 mainly due to the less catches of prawns and other crustaceans, ribbon fish, other sardines and pomfrets. The heavy decline in the landing in Kerala coast amounting to over 50 per cent of the previous years was mainly due to the failure of mackerel and sardine fishes which accounted for about 90 per cent of the net landings. Catches of oil sardines and mackerels were shorter by about 50 per cent and 60 per cent respectively.

The salient features of 1959 were the failure of mackerels (in Kerala and Mysore coasts with a slight increase in Gujarat and Bombay coasts), and sardines (Bombay, Kerala and Madras coasts) which accounted for 31 per cent and 27 per cent of the decrease respectively.

RESEARCH

Research in Fisheries is carried out primarily under the aegis of the four main central stations given below.

1. *Central Inland Fisheries Research Station, Calcutta:* The Lacustrine Research Unit near Tungabhadra reservoir initiated detailed investigation on the possibilities of increasing the productivity of reservoirs by stocking operations. A Riverine Research Unit was established at Hoshangabad (M.P.) to carry out a detailed survey of the river fisheries and fish seed resources of the Narbada-Tapti river systems. In Bengal a serious bacterial disease of major carps and common carps was studied and preventive measures worked out. Breeding carps by pituitary hormone treatment was carried out on a commercial scale. Experiments on the breeding and rearing of certain exotic varieties of fish were continued and certain new experiments were initiated in the Hooghli Estuary. Valuable information on fish and prawn populations of the Chilka Lake (Orissa) and fish catch statistics for certain river systems and estuaries were also collected.

2. *Central Marine Fisheries Research Station, Mandapam:* Studies on off-shore fisheries, different varieties of fish *i.e.* mackerel, sardine and shell fish and sea weeds, charting of fishing grounds, experimental fish farming, investigations on fishery technology, marine biology and oceanography and collection of statistics of fish catches. The station also established additional Survey Centres at Calingapatnam, Dahanu and Alibagh. For the extension of tuna fishing a fishing resources survey of the Laccadive area was conducted. With the collaboration of F.A.O. underwater expert, the survey work of the pearl oyster beds of the Gulf of Mannar was made. The Co-operative Research Programme, which is being implemented in collaboration with the Indo-Norwegian Project at Cochin, continues.

* Bilingual.

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Deep-sea Fishing Station, Bombay: The vessels of the Deep-sea Fishing Station, Bombay, charted off-shore waters and imparted training in the techniques relating to deep-sea fishing. All officers and crew of the fishing vessels at Bombay were given a training in the Net Making School organised under the guidance of T.C.M. Fishing Gear Technician. The fishing vessels received under T.C.M. aid have been re-organised into four fleets for exploratory work in Bombay, Cochin, Tuticorin and Visakhapatnam.

Off-shore Fishing Stations were opened at Tuticorin, Cochin, Veraval and Vizagapatam.

Central Fisheries Technological Research Station, Cochin, initiated research on fishing gear and craft. A Processing Wing has also been added to the Station. In the planning and work on gear research, a Fishing Gear Technologist advises the Government of India.

The F.A.O., T.C.M. and Indo-Norwegian Foundation continued to give valuable technical assistance. One harbour specialist continued work in connection with the development of fishing harbours in the States of Bombay*, Kerala, Madras and Mysore under the Expanded Technical Assistance Programme of F.A.O. Two fisheries engineers worked on the Madras, Malabar, Kanara and Kathiawar coasts, on the introduction of new types of fishing gear, use of mechanised aids and the training of fishermen in their use. Services of 4 master fishermen were also obtained from Japan. Under the Indo-Norwegian Project, 90 boats of improved types were built and a new 25 ft. boat was designed. A fish marketing expert was engaged in formulating fish marketing schemes in co-operation with the States on a national basis. A bi-weekly refrigerated van service for the carriage of fish between Bombay and New Delhi was started from November 1960 as an experimental measure. The subsidy given to food canning industry is being extended to canning of fishery products also.

Two more Central Fisheries Extension Units were established at Delhi and Patna, thus bringing the total to nine. These Extension Units continued to give technical advice and assistance on various fishing problems to State Fisheries Departments, fishermen and fish farmers, and arranged supply of over 16 million fry and fingerlings to deficit States. Artificial breeding of major carps by the administration of pituitary hormone injections was successfully carried out in a number of places by the Extension Units.

ANDHRA PRADESH

Andhra Pradesh with a coast line of 600 miles in the Bay of Bengal and with 799,000 acres of inland waters is very rich in its fishery resources. There are two fresh water biological stations at Hyderabad and Nagarjunasagar; one bio-chemical station at Hyderabad and one Paddy-cum-Pisciculture Research Station at Masulipatnam.

There are 350 coastal fishing villages with a total fishing population of 176,181. These fisherfolk operate about 19,723 boats and catamerans and 60,504 fishing nets. During 1959 the total landings of marine fish is estimated to be 70,000 tons as per the details shown below: White bait 17,500; Sardine 10,500; Jew Fish 9,800; Prawns 7,000; Ribbon Fish 4,900; Mullet 4,200; Cat Fish 3,500; Shark 3,500; Pomfret 1,400; Silver Bellies 1,400; Seer 4,900.

The total quantity of fish landed from inland water sources during 1959 is about 80,000 tons as detailed below: Carps 20,000; Murrel 19,200; Cat Fish 12,000; Barbus 12,000; Prawns 5,600; Miscellaneous 10,400.

The average retail price per lb. of important food fishes is as follows: Barbus 28 nP.; Carps 44 nP.; Cat Fish 44 nP.; Murrel 60 nP.; Prawns 45 nP.; Miscellaneous 33 nP.

There are 13 fish farms at Ippur, Mopad, Sunkesula, Patha Cuaddapah, Hussain-Sagar, Rajendra Nagar, Dindi, Manair, Koilsagar, Nizambad, Shanigram, Wyra, and Warangal. There is a large fish farm of 120 acres in the private sector in West Godavari District. To step up the fish production 257·46 lakhs of fingerlings of quick-growing type were collected and reared in different inland waters during 1959-60.

There are 14 fish curing yards maintained by the Fisheries Department wherein pure salt is supplied free of cost to fishermen for curing their fish under the technical guidance of the Departmental staff. 1,283 tons of fish was cured in 1959-60 in these yards.

The fishing operations with mechanised boats at Kalingapatam, Kakinada, Nizampatnam, Peddapatnam and Krishnapatam helped in locating good deep-sea fishing grounds. So far 28 mechanised boats have been distributed at subsidised rates to fishermen who have undergone training in the use of mechanised boats and improved types of fishing tackle at the Fisheries Training Institute, Kakinada. 8,865 lbs. Terylene yarn, 90 Nylon nets and 51 Catameran logs were also supplied to fishermen at subsidised rates. Quick transport facilities are also provided to the fishermen to transport their catches from fishing villages to interior markets.

Boats of various designs are tried to find a suitable craft for different coasts. A 20-ton Ice Plant with 250-ton Cold Storage at Vishakapatnam and a 4-ton Cold Storage Plant at Hyderabad have been installed. Another Ice-cum-Cold Storage Plant at Nizamsagar is under construction.

There are 342 fishermen co-operative societies with a total membership of 46,162. The Paid-up share capital of these societies is Rs. 2,70,426. The societies give loans to the members during off season. Government have given concessions also in respect of fishery leases to the societies.

There are 9 schools specially intended for fisher children. Books, slates and pencils are supplied free in the schools. Every year 40 fishermen are given training in operating mechanised boats with modern gear at the Training Institute at Kakinada.

The Chank Fishery in Nellore District and window pane oyster fishery off Kakinada coast are State monopolies. During 1959-60 an amount of Rs. 5,248·75 was realised from these sources.

At Hyderabad, the Department supplied 32,327 lbs. of good quality fresh fish caught from the reservoirs near the city to the public at fixed prices. Liver oils, isinglass, fish manure, etc. are obtained as the by-products of fish.

Under the Second Five-Year Plan 38 schemes involving an expenditure of Rs. 70·28 lakhs are being implemented.

The amount provided for the Third Five Year Plan is Rs. 115 lakhs.

The expenditure for the Department for 1959-60 was Rs. 25,49,759 and the receipt Rs. 6,02,246·96.

The designation of the Department is: Department of Fisheries, Andhra Pradesh.

GUJARAT

Gujarat has a coast line of over 1,031 miles extending from Lakhpat in the north to Umbergaon in the south. It has a total fishable area of 25,000 sq. miles including the Gulf of Kutch and Gulf of Cambay.

There are 42 important fishing ports and about 108 other small roadsted and fishing hamlets. No. of fishermen 1,80,000; no. of active fishermen 40,000; no. of fishing vessels used in estuarine, coastal and offshore fishing: about 4,000 ranging from 1 to 15 tons. Total capital invested in fishing boats, engines, fishing gear and other accessories by fishermen and their co-operative societies amount to Rs. 2·2 crores.

Total landings in 1959-60: 80,000 tons (75,000 tons marine; 5,000 tons estuarine); value of fish landed during 1959-60: Rs. 2·6 crores. Local consumption in the State: 10,000 tons. Balance is exported to Bombay, Delhi, Calcutta, Ceylon, Burma, Mauritius and Singapore. Value of fish exported to foreign countries: Rs. 70 lakhs.

More important landings of the State on the basis of value: Bombay ducks Rs. 1·2 crores; Pomfret Rs. 45 lakhs; Indian Salmon and Jew fishes Rs. 10 lakhs; Prawns and shrimps Rs. 7 lakhs; Perches and Hilsa Rs. 7 lakhs; Shell fishes including pearls, chanks, cuttle bones, window pane oysters (Rs. 1·5 lakhs every year) and other marine sea shells Rs. one lakh. Other miscellaneous fishes include sharks and rays, mullets, cat fish, coilia, etc. The State also produces about Rs. 3·5 lakhs worth of fish icingglass for export to England and China and Rs. 3 lakhs worth of fish fertilizer and 1 lakh lbs. of shark livers.

Important fishing ports: Surat District: Urnarsadi, Kolak, Bulsar, Bhadeli, Jagalala, Kosamba, Surat; Broach District: Broach, Bhadbhut, Kavi; Amreli District: Madhwar, Kotda Velan; Junagadh Dist.: Jaffrabad, Gogha; Jamnagar Dist.: Okha, Bedi, Salaya, Sikka, Jodiya, Navlakhi, Maliya; Kutch Dist.: Surbari, Chrowari, Kharirohar, Tuna, Rampar, Luni, Sekhedia, Mundra.

Inland pisciculture is confined to the districts of Baroda, Kaira, Broach, Dangs and Godhra. There are 2,300 fishermen engaged in inland fisheries. Acreage exploited 13,000.

Per capita production of food: 2·2 tons a year. Per capita earning Rs. 700 a year.

No. of ice factories 20; no. of cold storages available 5; no. of mechanised boats (1959-60): 216; no. of mechanised boats as on 1960-61: 526; quantity of nylon supplies (1960-61): 1,12,000 lbs.; training centre for fishermen: one of capacity of 40 students per year; service stations 2; fisheries schools: one each at Baroda, Bhadbhut, Umarsadi and Kolak; adult education centres 10; shark liver oil extraction centres 4; fish meal plant: one at Jaffrabad; Govt. of India institutions in the State: Marine Fish Research Sub-stations at Kandla and Veraval; Survey Centre at Veraval.

FIRST, SECOND AND THIRD FIVE-YEAR PLANS

First Plan provision: Rs. 44 lakhs (Rs. 40 lakhs for Saurashtra alone). Constructing ice factories and cold storages at Kandla, Jamnagar, Porbunder, Mangrol and Veraval was started during 1955-56. Three of them are under operation. During the Second Plan a fish meal plant was provided for Jaffrabad. Veraval fishing harbour development at a cost of Rs. 25 lakhs was taken up and is nearing completion while a Rs. 7 lakh plan for development of Kutch fishing harbour has been taken in hand. The fishermen use nylon fishing gear and the State requires Rs. 20 lakhs worth of nylon fishing twine a year.

The Gujarat Fisheries Central Co-operative Association with a share capital of Rs. 5 lakhs (now a paid-up capital of Rs. 5·4 lakhs) was started during the Second Plan. Business for 1960-61: Rs. 42 lakhs.

The State has 51 co-operative societies with about 8,500 members.

Second Plan provision for Gujarat: Rs. 60 lakhs (Rs. 50 lakhs for Saurashtra and Kutch). Amount spent in the 1st four years: Rs. 36 lakhs. It was proposed to spend Rs. 36 lakhs during 1960-61 to achieve the 120 per cent target.

The department was expected to be able to achieve the following targets in 1960-61: 66 mechanised boats, 275 outboard motors, 160,000 lbs. of nylon, 16 survey-cum-demonstration carrier vessels, 50 trainees and 10,000 tons additional fish.

The Third Plan envisages an expenditure of Rs. 1·23 crores (Rs. 40 lakhs in Gujarat area, Rs. 68 lakhs in Saurashtra and Kutch area, and Rs. 15 lakhs Statewise). The fish production will be augmented by another 40,000 tons every year by 1965-66 valued at Rs. 1·6 crores.

* Bilingual.

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KERALA STATE

Kerala State, the smallest maritime State in India with just over 340 miles of sea coast, contributes to a little over 25 per cent of the total seafish landed in India. Oil Sardine (Sardinella longiceps) and the chub mackerel (Rastrelliger canagurta), the two most important shoaling fishes of the west coast contribute to the major fishery of the coast, the third important constituent being prawns. The main types of indigenous fishing crafts are the dug-out canoes and plank built boats besides catamarans in the southern region.

The estimated landing of all fish in the State is about 290,000 tons of which 50,000 tons are contributed by inland water fishes the rest being sea fishes. This quantity is valued at about Rs. 5,50,00,000. Though the estimated population of the State for 1960 is 1,37,70,000 only about 70 per cent of the people are estimated to be fish eaters. At the most only 50 per cent of the total production is utilised as fresh fish, 40 per cent as dried and the rest is converted as fish manure or fish meal. Of the fresh and dried fish a very appreciable quantity is exported out of the State and out of India either in the fresh condition or as cured fish. This includes nearly 4,000 tons of Prawn Pulp exported to Burma and Singapore and nearly 600 tons of frozen prawns and lobster to U.S.A. and other foreign countries. Except for a small quantity of foreign tinned product imported into the State, there is absolutely no import of fish into the State spread over 236 fishing villages.

Along the coast there are 67 fish curing yards, some of which are provided with sanitary fish curing sheds, and salt is issued at a subsidised rate which is less than the cost price in the salt factories.

There are three Fishermen Training Centres at Neendakara, Ernakulam and Beypore, to train able bodied fishermen in the use of mechanised fishing crafts and modern fishing equipment. Mechanised boats, Nylon and Fishing hooks, etc. are distributed at concessional rates through the Fishermen Co-operative Societies. A new approach to the reorganization of the whole industry on co-operative lines has been introduced by which the produce of fishermen are organised into primary producers' societies, and 15 to 20 such units of contiguous areas are combined into a marketing unit. All the marketing units are combined into one marketing federation. The scheme is being introduced in stages from the southern region to the north. As many as 75 primary societies have already been organised. Trained fishermen are given capital and equipment to start co-operative fishing with mechanised units through these co-operative societies. Arrangements have been made for registering a regional marketing organization with headquarters at Vizhinjom, affiliating 16 primary producer co-operatives of the southern part of Trivandrum District.

The Indo-Norwegian Fisheries Project near Quilon is engaged in the mechanisation of small fishing craft and in the exploitation of the fisheries' resources of the sea off Kerala. A boat-building yard (where already 105 mechanised boats have been constructed), an ice factory, and cold storage and freezing plant have been established. A Health Centre and a Pipe Factory have also been established under the scheme of improving the health and sanitation of the area. By the end of March 1960, the total assistance had amounted to Rs. 243·62 lakhs. About 121 fishermen were trained either directly or indirectly in improved methods of fishing and about 615 persons provided with gainful employment.

There are 10 private companies exporting frozen shrimps, lobster tails and frog legs, and cold storage plants are working at Trivandrum, Neendakara, Cochin and Kozhikode. In addition to the three Government freezing plants and four cold storages there are four private plants also.

There are 4 Fisheries Research Stations in the State engaged in marine, estuarine and fresh water fisheries and a Fisheries Technological Station conducting researches in fisheries bye-products and other technological works. The Fisheries Technological Station manufactures fish meal, fish manure and semi-dried prawns.

There are three brackish water fish farms, one fresh water fish farm, 19 rural fisheries demonstration centres and eight major reservoir fishery centres.

Third Five Year Plan: The Kerala Government proposes to spend Rs. 4·5 crores in the development of fisheries in the State.

MADRAS

Madras State, with a coast line of 620 miles and with about 4 lakh acres of inland waters, is rich in fisheries resources. There are four marine biological stations at Ennore, Krusadai Island, Tuticorin and Cape Comorin; a Technological Station at Tuticorin; and a Fresh-water Biological Station at Bhavanisagar, in-charge of qualified research officers.

There are 242 coastal fishing villages with a total fishing population of 2,40,000. These fisherfolk possess about 5,000 boats, 23,160 catamarans, and 3 lakhs of fishing nets. The estimated landings of sea fish in 1959-60 is about 81,910 m. tons as detailed below, their total value being Rs. 722·3 lakhs.

Ribbon fish 13,650 m. tons; Cat fishes 11,700 m. tons; Sharks, Skates & Rays 6,810 m. tons; Sabre fish 1,820 m. tons; Lactorius 3,030 m. tons; Clupeids 10,820 m. tons; Flying fish 410 m. tons; Perches 3,310 m. tons; Silver bellies 4,095 m. tons; Jew fish 2,740 m. tons; Mullets 1,840 m. tons; Seer 3,460 m. tons; Mackerel 3,265 m. tons; Caranx 2,830 m. tons; Pomfrets 3,140 m. tons; Prawns and other Crustacea 4,870 m. tons; Miscellaneous forms 4,120 m. tons.

There are about 44,350 inland fisher-folk possessing about 20,000 implements. The estimated landings of inland fish from the various inland waters in 1959-60 is about 42,468 m. tons as detailed below, their total value being Rs. 250 lakhs.

Carps 24,100 m. tons; Cat fishes 6,200 m. tons; Murrels 4,220 m. tons; Hilsa 305 m. tons; Mullets 2,850 m. tons; Prawns and other Crustacea 3,140 m. tons; Miscellaneous forms 1,533 m. tons.

The average wholesale and retail price of the important varieties of fish are as follows: The first figure indicates the wholesale price for 100 lbs. and the second the retail price per lb.

Fresh-water Carps (Rs. 40; 56 nP.); Fresh-water Catfish (Rs. 44; 59 nP.); Fresh-water Prawns (Rs. 45; 62 nP.); Sea Prawns (Rs. 60; Re. 1); Mackerel (Rs. 40; 56 nP.); Pomfrets (Rs. 60; 87 nP.); Seer (Rs. 62; 93 nP.); Sea Perches (Rs. 41; 47 nP.); Murrels (Rs. 50; 75 nP.); Ribbon fish (Rs. 25; 37 nP.); Sharks (Rs. 37; 50 nP.); Silver bellies (Rs. 25; 37 nP.).

21 fish curing yards are maintained by the Government wherein good quality salt is supplied to fishermen at subsidised rates for curing fish under the technical supervision of fisheries departmental staff. Two Ice Plants of 5 tons daily output and storage facilities for 15 tons are under construction at Tuticorin and Mettur dam.

There are 236 fishermen co-operative societies with about 25,200 members on their rolls with a paid up share capital of Rs. 2 lakhs. They issue small loans to the members during the off season; and also inculcate the spirit of thrift and co-operation among the fisherfolk. Long term and medium term loans extending over a period of 10 years and 5 years respectively are issued to these societies by Government for enabling their members to redeem themselves of their prior debts and to undertake fish marketing themselves.

Through exploratory fishing operations, the fisheries department has located rich deep sea fishing grounds off Pulicat, Ennore, Madras, Cuddalore, Nagapattinam, Pamban, Tuticorin, and Cape Comorin, and arrangements are being made for their commercial exploitation. 62 small mechanised boats have already been distributed to fishermen co-operatives together with nylon fishing nets.

The pearl and chank fisheries of the Gulf of Mannar are State monopolies, and yield a substantial revenue besides supporting a large population of divers. The pearl fishery conducted off Tuticorin in March-May 1960 fetched 1,61,75,839 pearl oysters, and a revenue of Rs. 1,11,412·58 was realised by the Department by sale of its two-thirds share of the oysters. During 1959-60, about 11·34 lakhs of chanks valued at about 12·6 lakh rupees were fished.

Census of Inland Fisherfolk:

Men engaged in actual fishing ..	12,745
Men engaged in part-time fishing ..	2,099
Number of women and children ..	29,500
Total	44,344

Schools have been opened for fisherchildren. Fisheries science plays a large part in their curriculum. The children are taught handicrafts like coir rope making, mat weaving, net making, etc. Books, pencils and stationery articles are given free to these children.

An aquarium belonging to the Department is located at Madras and tropical aquarium fishes like Gold Fish, Black Mollies, Sword Tails, Guppies, Tetra, Blue Gourami, Jewel, Fire mouths and food fishes like Catla, Labeo, Gourami, Murrels, Chanos, Etroplus, Eels, etc. are kept. Most important fish farms are Mettur Fish Farm, Poondi Fish Farm, Chetput Fish Farm, Vellore Fort Moat Farm, Bhavanisagar Fish Farm and Chingleput Fort Moat Farm. All the departmental and provincialised tanks in the State are intensively stocked with quick growing fishes every year. The biological station at Ennore supplies biological specimens to various educational institutions throughout the country.

Food fishes play an important part in the manufacture of several bye-products in use in the everyday life. They are fish-oil (body oil and liver oil), shagreen, isinglass, fish glue, fish meal (guano), fish fin soup, pearl essence, fish manure, etc.

Under the Second Five-Year Plan, 15 schemes with a total outlay of Rs. 95·14 lakhs were being implemented.

Receipts of department for 1959-60: Rs. 35·73 lakhs; Expenditure: Rs. 40·51 lakhs.

The designation of the department is: Government Fisheries Department, Madras.

MAHARASHTRA

Maharashtra State has a sea board of more than 450 miles extending from Redi (District Ratnagiri) in the south to Zai (Dist. Thana) in the north. The Inland Fisheries extend to Bhandara District in the East, a crowflight distance of over 500 miles. The total number of fishing villages along the coast is estimated at over 250.

Maharashtra State has a total outlay of Rs. 1,05,52,000 for development of fisheries under the Second Five-Year Plan.

Important varieties of sea fish caught along the coastline: Saranga (White Pomfret); Halva (Black Pomfret); Ghol (Jew fish); Dara (Giant Threadfin); Ravas (Indian Salmon); Kuppa (Tuna); Surmai (Seer fish); Boi (Mullet); Bombil (Bombay duck); Bangda (Mackerel); Mushi (Sharks); Wam (Eels).

Estimated production: about 1·7 lakh tonnes.

Price per ton of fish at present: Rs. 300. The total value of fish caught in this State: Rs. 4,80,00,000.

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The number and names of the more important fishing villages and of the fishing grounds:

Greater Bombay: Lower Colaba, Worli, Danda, Versova; *Thana District:* Bassein, Arnala, Uttan, Edwan, Usarni, Satpati, Navapur, Utcheli, Nagaon, Dativare; *Kolaba District:* Karanja, Versoli, Alibag, Theronda, Revdanda, Murud, Bharadkhol; *Ratnagiri District:* Burondi, Dabhol, Jaigad, Ratnagiri, Vijaydurg, Jaitapur, Malvan, Deobag, Vengurla.

The estimated fishing population: About 2 lakhs.

Trawler Fishing: Bull trawling and other types of fishing will be undertaken departmentally shortly to initiate exploratory fishing for the benefit of fishermen. The trawlers are under construction.

Transport Vessels: Two transport vessels will be constructed in the near future and operated departmentally for the benefit of fishermen in the inaccessible areas like Ratnagiri and Colaba.

The facilities available for curing, storage and refrigeration, co-operative marketing are:

Several ice factories in the city and also at important fishing centres along the coast.

Annually, some addition to the available cold storage space is being made by extension to the existing plants and establishment of new plants.

A seven-ton ice plant and 30-ton cold storage were erected by the State Government at a cost of about Rs. 1,32,000 and handed over to the Satpati Fishermen's Sarvodaya Co-operative Society for operation. The Society has also been allotted by the Government, refrigeration equipment to increase the seven ton ice making capacity of its existing plant to ten ton and a four ton quick freezing plant and refrigeration equipment for a fish storage, ice storage and quick frozen fish storage received under the T. C. M. Programme of the American Government. One eleven-ton plant with 30-ton cold storage received under the T.C.M. Programme has been allotted to the Vesava, Machhimar Vividha Karyakari Sahakari Society Ltd. The factory has been put into commission.

The establishment of ice factories at Ratnagiri and Alibag has been sanctioned.

Marketing facilities. A new building was put up in 1951 by the Bombay Municipality to cater for the City's fish trade. Lifts are being installed for the convenience of shoppers as the retail sale of fish is on the first floor.

The new market adjoining the original congested market was erected at a cost of about Rs. 8 lakhs. In the fish section space is provided for 250 retailers. Due to increased fish trade the present wholesale market is found to be inadequate. Sufficient space is now available to traders to display their products. Two new additional markets one at Grant Road and another at Umarkhadi were also constructed during recent years.

Marketing facilities have also been provided at Kankavli and Malvan in Ratnagiri District.

A loan of Rs. 60,000 has been sanctioned to the Nagpur Municipality for the construction of a fish market on modern lines. The construction work will be undertaken shortly by the Municipality (Nov. 1960).

About four times the quantity of fish at present caught in the entire State will be necessary to meet the nutritional requirement of the people.

The quantity available for sale in Greater Bombay to the public was approximately as follows:—

Year	*Tons*
1953-54	37,812
1954-55	32,034
1955-56	30,072
1956-57	26,000
1957-58	25,000*
1958-59	30,327
1959-60	2,90,257 m. tonnes.

* Reduction due to adverse fishing season.

West Coast Fisheries (Travancore) Ltd. commenced deep sea fishing operations in Bombay waters in February 1953. It employed trawl nets for deep sea fishing and landed about 94 tons of fish during four voyages. The trawler now conducts fishing operations off Travancore waters. New India Fisheries Ltd., a firm registered under the Company's Act, has also been permitted by the Government of India to undertake trawl fishing. The firm in collaboration with Japanese enterprisers imported four trawlers from Japan and commenced fishing operations in Bombay waters. During the year 1959-60 the company landed 3,904 m. tonnes of fish.

GOVERNMENT HELP

Government effort in up-to-date fishing technique, money spent, trawlers gear used, quantity of fish caught: The State Government built the vessel "Tapase", now renamed the "Mysis" in 1947, at Rs. 65,000 for demonstrating the usefulness of mechanised craft for catching fish. The launch has since been converted into a research vessel to meet the requirements of the Taraporevala Marine Biological Research Station, Bombay.

Two improved types of fishing crafts at a total cost of Rs. 54,000 were also built and allotted to two fishermen's co-operative societies in the State on half subsidy and half loan basis for capture of fish.

The Government have sanctioned loan and subsidy to the Satpati Machhimar Vividha Karyakari Sahakari Society Ltd., Satpati, for the establishment of a boat building yard. The work is in progress.

Loans of Rs. 12,70,804 and subsidy of Rs. 8,04,274 were granted for mechanisation during 1959-60. Loans of Rs. 34,28,058 have so far been granted to individual fishermen for purchase of boats, nets and other fishing accessories.

Government have received 322 marine engines of different H.P. valued at $5,01,516·00 under the T.C.M. Programme of the American Government, which have been allotted to groups of fishermen on loan-cum-subsidy basis. Twine and net making plant, which has arrived under T.C.M. Programme, has been allotted to Bambai Rajya Machhimar Sahakari Sanstha on loan-cum-subsidy basis.

The Government have sanctioned a scheme for the grant of subsidy to fishermen in Maharashtra State, for purchase of fishery requisites such as nylon hemp-twine, fish hooks, cotton twine and sail cloth.

Number of power-propelled vessels owned by fishermen: 1,175.

One service station has also been established at Satpati in Thana District to afford facilities to the fishermen owning mechanical vessels.

Fishermen's Co-operative Societies: There are about 90 fishermen's co-operative societies of which one is an apex body, engaged in the marketing of dry and fresh fish produced by the affiliated societies and member fishermen.

The main activities of these societies are: affording credit facilities to the members, supply of fishery requisites, running fair price shops for food grains, transport and processing of fish and fishing in rivers, tanks and sea.

Government efforts in educating fishermen:—

Six fisheries schools have been established in important fishing centres, imparting special training in net making, boat repairing, fish preserving, etc. Ratnagiri District 4, Thana District 1, Kolaba District 1.

Annual expenditure on these schools: About Rs. 60,000.

The Department of Fisheries has also a scheme to train fisher-youths in the operation of power vessels as mechanics and navigators. Under a modified scheme introduced by the Government, facilities are made available to train 40 candidates in the technique of improved methods of fishing. The centre is situated at Versova, B.S.D. and the expenditure on the centre is eligible for assistance from the Government of India. The duration of each course is six months, the scheme having been sanctioned for three years. Each candidate is paid a monthly stipend of Rs. 50 and food allowance of Rs. 10. So far 159 candidates have been trained in the six months' training course.

Besides, the State Government have started a new three months training course to train fisher-youths in handling and operation of marine engines. The trainees are paid a stipend of Rs. 40 per month each. So far 149 candidates have been trained under the three months training course.

Public aquaria: The State Government maintains the Taraporevala Aquarium along the Marine Drive, Bombay. The exhibits include both fresh water and marine forms, found along the coast of the State. Attached to the Aquarium is the Marine Biological Research Station where facilities are available to research students for M.Sc. and Ph.D. degrees. The institute is affiliated to the University of Bombay.

A unit of technical staff consisting of a Research Officer, Biologist and Biochemist, has been provided at the Marine Biological Research Station, Bombay, to intensify research. The station has also been provided with a research vessel by converting the department's vessel M. L. "Mysis" at a cost of Rs. 34,101.

A Marine Biological Research Station has also been established at Ratnagiri.

FRESH WATER FISHERIES

Efforts are made to import quick growing varieties of baby fish in the State such as Catla (*Catla catla*), Rohu (*Labeo rohita*) and Mrigal (*Cirrhina mrigala*) from West Bengal, for their release in perennial waters in the State in larger numbers every year. Large irrigation reservoirs also are being stocked with these varieties so that they may thrive and breed there in course of time. In 1960-61, 62,17,750 carp fry imported from West Bengal were released in different sheets of water.

To overcome the difficulty regarding adequate supply of carp fry, experiments are being conducted to induce the major carps to spawn in confined waters. One such experiment was successful at Nagpur, when the major carps were administered with pituitary hormone injections.

Collection of local baby fish for stocking is attempted at several places around Kolhapur, Bhandara, etc., and efforts are made in all directions to boost up these less developed fisheries.

Despite the handicaps, the total production of fish from tanks and reservoirs stocked by the department with carp fry imported from West Bengal, and the rivers, is 10,68,889 lbs. valued at Rs. 4,00,833 per annum.

ANCILLARY PRODUCTS

A fisheries technological laboratory has been established at Sassoon Dock, for conducting research on problems relating to ancillary industries like shark liver oil, gelatine, glue, fish meal, etc. To ensure quick and clean extraction of oil a Sharple's super centrifuge, a fish liver boiler and a steam boiler have been installed. The laboratory also tests samples of shark liver oil from the public for vitamin 'A' content and also samples of dry fish and fish manure for their chemical composition. A Beckman's spectrophotometer has been imported from the U.S.A. for this purpose.

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In 1959-60, the output of neat shark liver oil was 5,711 gallons with an average vitamin 'A' content of 10,000 I.Us/Gm. The oil when processed, was capable of yielding 8,50,000 lbs. of Oleum-vitaminatum of B.P. standard.

Another important by-product of fisheries is fish meal. The departmental laboratory is also well-equipped for the manufacture of edible gelatin and fish glue both for adhesive as well as photo-processing work.

SECOND FIVE-YEAR PLAN

The Department of Fisheries of the Maharashtra State had drawn up a multi-purpose programme for the development of fisheries under the Second Five-Year Plan envisaging a total revised expenditure of Rs. 1,05,52,000. Starting with the supply of ordinary fishing tackle, the programme envisaged provision of marine engines, curing, refrigerational, transport and marketing facility, training in improved methods of fishing and manufacture of Shark Liver Oil with malt extract and other fisheries by-products. The programme also contained provision for education, research and organisational facilities to the fishermen.

Against the revised plan ceiling of Rs. 105·52 lakhs the Department spent Rs. 92·90 lakhs by end of year 1959-60, *i.e.* 4th year of the plan thus registering an expenditure of 132 per cent of the phased provision for the four years. A provision of Rs. 35·35 lakhs was made in the budget for 1960-61.

A sum of Rs. 25 lakhs has been allotted for the fisheries schemes in the Konkan region. Six schemes have been drawn up for development of this region. Additional allotment of Rs. 13 lakhs has been made during 1959-60 to meet the increasing demand of the fishermen of the Maharashtra region for marine diesel engines and for general purpose loans.

All the schemes have been started and are progressing satisfactorily. Mechanisation programme of the State has made a great success and has led to increased fish production. Fresh-water fishery has similarly made a marked progress and greater number of carp fry is being stocked each year.

Receipts of the department during the financial year 1959-60, are shown below :—

	Rs.
Fish curing yards	1,02,955
Fisheries Tech. Laboratory ..	10,06,478
Other receipts	3,09,953
Taraporevala Aquarium	74,280
Total ..	14,93,666

The State Government's share under the U.S. operational Agreement No. 5 amounts to Rs. 30 lakhs, to be utilised to procure up-to-date equipment to increase existing supplies of fish and to improve the socio-economic condition of fishermen.

THIRD FIVE-YEAR PLAN

Marine Fisheries will receive larger share of the total size of the plan in view of success attained in various fields especially mass mechanization of indigenous fishing vessels, for which a provision of Rs. 61·45 lakhs has been proposed. Other schemes, supply of fishery requisites, improvement of fishing ports, financial assistance for boat building yard, service station, have been given due place in the plan.

Fresh water fisheries will receive further impetus in view of the larger inland fishery resources being now available in the regions of Vidarbha and Marathwada. A special unit for collection of fry has been proposed in the plan, besides other usual schemes already started during first two plans.

Marketing, preservation and transport have also been assigned important place in the department's plan in view of the rapid improvements made during the last decade in exploitation of fish. In order to impress on the local bodies the need to maintain adequate facilities for fish marketing, a provision is made for grant of loans to such bodies for construction of well planned fish markets. Miscellaneous schemes as research both biological and technological, will receive further impetus when expansion of the research activities has been proposed.

In order to afford educational facilities to the fisher-children, High Schools and other training facilities have also similarly been provided in the plan.

With the investment proposed as above, it may be possible to raise the fish production from 1·9 lakh tons at the end of the Second Plan to 2·5 lakh tons by 1965-66.

FISH CURING YARDS

During 1959-60 the department maintained 21 yards in Ratnagiri District. It is proposed to provide improvements in the yards in the 2nd Fiver-Year Plan at an approximate cost of Rs. 80,000. The work of constructing 30 permanent superstructures over the existing cement concrete platforms has already been completed at a cost of Rs. 78,536. Construction of 12 superstructures at Deobag is in progress.

The transactions at the yards in Ratnagiri District during 1959-60 were as follows :

Quantity of fish let in for curing—6,575 m. tonnes.

Quantity of salt issued—1,755 m. tonnes.

Quantity of cured fish removed—5,039 m. tonnes.

The total budget allotment for the department for the year 1959-60 was Rs. 1,76,200.

It is proposed to establish a fish curing yard at Murud, Dist. Kolaba. The yard will start functioning in 1961.

The designation of the department is: Office of the Director of Fisheries, Maharashtra State, Bombay.

MYSORE

Inland Fisheries : There are about 30,000 minor tanks and 2,700 major tanks in the State.

Inland Fisheries are developed only in selected areas of the State and more and more inland fishery resources are being tapped.

There are 14 fish farms in the State.

Induced breeding of quick growing varieties of food fishes by pituitary hormone injections has been taken up in different fish so as to meet the increased fish seed requirements of the State.

The estimated fish production at present from the inland resources is nearly 22,000 tons and the revenue in the form of direct realisation from exploitation of fisheries, through the sale of fishery rights, issue of licences, etc., is about Rs. 75,000.

Marine Fisheries : Mysore State has 200 miles of coast line on the Arabian Sea. All along this sea board, there are many fishing villages, the most important of them being Karwar, Ankola, Kumta, Honnawar, Bhatkal, Majali, Bingi, Chandia, Gangolli, Malpe, Udiyawar, Bokkapatnam and Mangalore.

Nearly 50 varieties of sea fishes are landed out of which the most important are Sardine, Mackerel, Seer and Sharks. The total fish production on Mysore coast is one-seventh of the total marine fish landings in India.

Thus, the marine fisheries confined to North and South Kanara can be regarded as one of the richest in the whole of India.

Value of fish exploited :—

Quantity of fish in tons and the approximate value :—North Kanara : 25,000 ; Rs. 55,00,000 ; South Kanara : 85,000 ; Rs. 1,85,00,000.

There are about 20,000 fishermen actively engaged in fishing, about 6,500 boats and about 30,000 nets. The number dependent on the fishing industry is estimated at over 80,000.

Average catch per fisherman per annum on Mysore coast : 5·8 tons.

Total annual internal consumption :—North Kanara and South Kanara : 40,000 tons.

Capital value of the industry together for North and South Kanara districts is estimated at Rs. 2·5 crores.

No. of fish curing yards :—North Kanara : 15 ; South Kanara : 15.

Process of modernisation : Mechanisation of boats for powered fishing is taken up. Also ice plants and refrigerated storage facilities are being provided. By the close of 1959-60 there were 27 mechanised boats. Four trucks are provided for the transport of fish from coastal centre to inland markets. There are two boat-building yards one at Mangalore and another at Karwar. A Fisheries Technological Research Station has been established at Mangalore.

SUBSIDIARY INDUSTRIES ESTABLISHED AND THE SCOPE FOR DEVELOPMENT :

	Fish-meal plants.	*Fish oil factories.*
North Kanara ..	—	3
South Kanara ..	1	13
Total ..	1	16

There is one fish canning plant in South Kanara.

AMENITIES TO FISHERMEN

Eighty fisher-youths have been trained so far in mechanised fishing at the Fishermen Training Centre, Mangalore.

There were 64 fishermen co-operative societies with a subscribed share capital of Rs. five lakhs upto 1959-60, about Rs. 1,44,000 as long term loans, Rs. 22,700 as Government contribution towards share-capital of the societies and Rs. 9,500 as subsidiary towards managerial cost, were given by the Dept. of Fisheries.

Value of Fish exported : Steps have been taken to explore the prawn fishing grounds north of Mangalore. During 1958-59, nearly six lakh pounds of prawns, lobster tails and frog legs were frozen in the Government factory at Mangalore and exported to the United States of America, earning dollar exchange of the value of Rs. 20 lakhs.

There are 32 fisheries schools of which six are high schools, 12 higher elementary schools and 14 lower elementary schools.

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ORISSA

Kinds of sea-fish caught: Pomfrets, Mackerel, Ribbon fish, Silver bellies, Sardine, Sharks, Rays, White Bait, Bombay Ducks, Cat-fishes, Threadfins, Perches, Jew-fishes, Sur-fishes as well as Prawns. Kinds of estuarine fish caught: Sharks, Shads, Catfishes, Threadfins, Perches, Mullets, Jew-fishes, Prawns and Crabs.

Annual production of Shark Liver Oil: 1950-51 (3,000 lb.); 1951-52 (6,730 lb.); 1952-53 (7,658 lb.); 1953-54 (10,718 lb.); 1954-55 (6,587 lb.); 1955-56 (11,681 lb.); 1956-57 (5,123 lb.); 1957-58 (10,361·75 lb.); 1958-59 (15,041 lb.); 1959-60 (12,860 lb.).

Important marine fishing centres: Patisonapur, Marcondi, Gopalpur, Prayagi, Aryapalli, Arkhakuda, Puri and Chandipur.

Important estuarine fishing centres: Sonapur and Surla (Bahuda estuary), Damodarpur and Gajpatinagar (Rusikulya estuary), Rambha, Kespur, Balugaon, Kuguri, Gangadharpur, Kaluparaghat, Bhusandpur and Satpara (Chilka Zone), Astarang (Devi estuary), Kujang and Hukitola (Mahanadi estuary), Chandanipal and Chandbali (Dhamra and Baitarani estuaries) and Kirtania (Subarnarekha estuary).

Important inland fishing centres: Ansupa lake, Russelkonda reservoir, Hirakud reservoir. Kausalyagang and Mandira dam reservoir.

Number of fish curing yards run by the fishermen's own co-operative stores: 6. Number of ice factories which cater to preservation of fish for transport to Calcutta and elsewhere: 8 including two departmental flake ice plants. Co-operative marketing has developed in the Chilka area. The annual volume of trade ranges between Rs. 25 and Rs. 40 lakhs.

The demand is approximately 100 times more than the supply.

There are no deep-sea fishing companies in the State.

The State has not taken up deep-sea fishing commercially. Experimental power fishing in the sea is continuing with small boats. There are no fishermen's schools; but fishermen are being trained by State Fisheries in inland piscicultural activities in five demonstration fish farms. A scheme for pilot power fishing in sea has been drawn up to be opened in the 3rd Five Year Plan.

There is a small experimental aquarium attached to the Fisheries Department in Cuttack.

A fresh water biological station has been established at Kausalyagang, District Puri. Field researches carried out at Kiakani (Puri), Kothpal (Mayurbhanj), Dighi (Balasore), Naransagar (Angul), Humari (Ganjam) and 20 other fish farms. Field research on marine fish farming is carried out at Khiragachamadeli.

Major experimental farms in the State: Cuttack fish farm; Puri fish farm; Chowdwar fish farm; one model fish farm at Laxmisagar in Puri District. Sonepur; Sambalpur; Balasore; Kausalyagang; Angul: Baudh; Jajpur; Co-operative marketing has developed in the Belguntha; Jeypore (Koraput), Kathpal (Mayurbhanj), Kanjia-Kiakani (Barang), Amarda (Mayurbhanj).

Research is going on in the manufacture of agar agar and hydrolysed protein, breeding of carps with pituitary hormone, haematology of carps, life history of mullets reclamation technique for swamps, improved craft and gear, freezing of fish, canning of prawn, cultural practices in fish rearing, on the suitability of new types of fishing gears in coastal and estuarine waters, improvement of indigenous marine fishing gears with synthetic twines, abundance of economic varieties of sea fish.

Revised Second Five-Year Plan provision 1956-61: Rs. 53·20 lakhs. Third Plan provision is Rs. 156 lakhs.

Income from Fisheries Department ranges between Rs. 1·5 and 3 lakhs per annum which does not include rent for water areas.

Budget allotment: 1960-61: Rs. 15,83,859.

WEST BENGAL

Kinds of sea fish caught: Pomfret, Bhetki, Mackerel, Prawn, Topsi, Hilsa, Chanda, Bhola, Bombay Duck, Ribbon, Shark, Reyn, Skate, Eel, Cat fish, Phasa, etc.

Total quantity of sea fish caught in 1958-59: 7,830·82 mds.

Total value of the sea fish caught in 1958-59: Rs. 1,26,236·33.

Price per maund of different kinds of fish in March 1959:

Varieties	Maximum	Minimum	Average
	Rs. nP.	Rs. nP.	Rs. nP.
Carps ..	110·00	80·00	95·00
Hilsa ..	120·00	110·00	115·00
Bhetki ..	110·00	110·00	75·00
Mullets ..	110·00	90·00	90·00
Butter ..	100·00	60·00	80·00
Lobster ..	110·00	80·00	95·00
Shrimps ..	60·00	110·00	50·00

Approximate strength of the fishing population: 96,400 (1951).

Potential demand for fish in the local market: In West Bengal (10 lakh mds.); In Calcutta (1·25 lakh mds.).

Extent to which production meets this demand: 12·2 per cent.

Money spent by Government in connection with fishing in 1958-59: Rs. 5,03,000.

Gear used: Haddock trawl, Prawn trawl, Herring trawl, etc., all made of cotton twines.

There is one experimental fish farm in sewage fed water maintained by the State Government. There are demonstration fish farms in private parties' tanks in each thana of the State.

Ancillary industries like liver oil, gelatin, glue, fish-meal, and their production: One scheme for production of shark liver oil, fish-meal, processed fish and utilisation of other fish by-products is operated at Contai coast.

Production during 1959-60:

Shark liver oil 10,000 lb.; Fish-meal 17,000 lb.; Fresh fish 74 lb.

Approximate Revenue from fisheries during 1959-60: Rs. 3,17,974.

Budget allotment for the Department for 1960-61: Rs. 36,95,000·00.

The designation of the Fisheries Department: Directorate of Fisheries, West Bengal under the administrative control of Fisheries Department and Development Department, the latter controlling the sea fishing scheme only.

IRRIGATION

THE net area under irrigation in India during 1956-57 was 55·7 million acres and the gross area 64 million acres. The First Plan target was 67 million acres. The net sown area during 1956-57 was 322·46 million acres. The percentage of net irrigated area to the net sown area in the entire country was 17·3. This is the second largest irrigated area in any country of the world, the largest being in China.

The total capacity of India's canals is over 220,000 cusecs, and the canals are over 67,500 miles in length.

The total amount of annual flow of water in the Indian Union is 1,356 million acre feet. Of this only 76 million acre feet or 5·6 per cent are at present being used for irrigation purposes.

Classing a year in which rainfall deficiency is 25 per cent. as a dry year and one in which it is 40 per cent. as a year of severe drought the examination of past statistics shows that, over the precarious area, one year in five may be expected to be a dry year and one in ten a year of severe drought. It is largely in order to remove the menace of these years that the great irrigation systems in parts of the country have been constructed.

In the arid tracts where the annual rainfall is less than 15 inches, no cultivation is normally possible without irrigation.

During the Second Plan period about 12 million acres were expected to be brought under irrigation (9 million from First Plan projects and 3 million from Second Plan projects) by means of large and medium sized projects since revised to 10·4 million acres and 9 million acres by means of minor schemes so that the area under irrigation at the end of the Second Plan would be 85 million acres. The area likely to receive actually irrigation benefits during the Plan will be only about six million acres. If the short-fall of 3 million acres under the First Plan is made up the total area will increase to 88 million acres, which is also the Second Plan target.

The total investment in irrigation and power projects during the First Plan was of the order of Rs. 615 crores.

The revised allocation under the Second Plan for irrigation and power was Rs. 860 crores (Centre 72 and States 788) and for minor irrigation Rs. 96 crores (Centre 3 and States 93).

The estimated cost of the multi-purpose, large and medium projects included in the 1st and 2nd Plans is Rs. 1,330 crores.

By the end of December 1959, 202 Plan projects (6 major, 196 medium) had been completed.

The major and medium irrigation projects taken up in the 1st and 2nd Plan periods on completion and on full development would irrigate about 38·51 million acres and at the end of the 3rd Plan it is expected that 45·5 million acres would be brought under irrigation.

The total irrigation potential created by the major and medium irrigation projects up to the end of 1959-60 was 11·5 million acres at channel outlets against which utilisation was 8·3 million acres.

Additional food production expected through major and minor irrigation works was as follows:

(in million tons):

First Plan: 2·01 and 2·38 respectively.

Second Plan: 3 and 1·9 respectively.

The irrigation potential created by the Plan projects is not fully utilized. The percentage of utilization by State is as follows:—

Andhra 55, Bihar 82, Bombay (bilingual) 59, Kashmir 33, Kerala 98, M.P. 66, Madras 87, Mysore 53, Orissa 68, Punjab 82, Rajasthan 81, U.P. 74, W. Bengal 62. For India as a whole 75.

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The table below gives the irrigation benefits accruing from the First and Second Plan Schemes at the end of the First Plan and during the Second Plan.

Million Acres

End of year	Potential at channel outlets for gross irrigation	Utilisation	
		Gross	Net
1955–56	6·5	3·3	2·9
1956–57	7·3	4·1	3·4
1957–58	8·1	5·7	4·9
1958–59	9·6	6·4	5·9
1959–60 (Estimated)	11·7	8·6	7·4
1960–61 (Anticipated)	14·0	10·5	9·0

THE PROJECTS

The following projects continued from the First Plan period.

Bhakra-Nangal (Punjab and Rajasthan), Damodar Valley (West Bengal and Bihar), Hirakud (Orissa), Chambal (Rajasthan and Madhya Pradesh), Tungabhadra (Andhra and Mysore), Mayurakshi (West Bengal), Bhadra (Mysore), Kosi (Bihar), Nagarjunasagar (Andhra), Kakrapara (Bombay).

The following are the new projects:

Andhra—Vamsadhara; *Bombay**—Ukai, Vir, Purna, Narmada, Banas, Mula, Girna, Khadakvasla, Bhadar; *Jammu and Kashmir*—Lidder Canal; *Kerala*—Bhoothathankethu; *Madhya Pradesh*—Tawa, Chandakeshar, Barna or Kolar, Upper Keri; *Madras*—New Kattalai; *Mysore*—Ghatprabha II, Kabini, Laxman Thirtha; *Orissa*—Salandi; *Punjab*—Gurgaon Canal; *Pondicherry (also Madras)*—Vidur; *Rajasthan*—Banas; *U.P.*—Sarda Sagar II, Ramganga; *West Bengal*—Kangsabati.

Particulars about major schemes taken up under the Second Plan are given below. Only such schemes are mentioned as cost Rs. 5 crores and above.

(Rs. lakhs)

Scheme	Estimated cost	Second Plan provision	Expenditure 1956-57	Budget 1957-58	Proposals 1958-59
BOMBAY *					
1. Vir	533·0	425·0	9·77	30·47	70·00
2. Mula	940·0	275·0	12·41	22·64	20·00
3. Girna	905·4	375·0	15·97	29·00	85·00
MYSORE					
4. Ghatprabha Stage II ..	970·0	100·0	21·21	50·00	20·00
UTTAR PRADESH					
5. Sarda Sagar Stage II ..	984·2	737·0	78·51	96·00	82·89
Schemes not sanctioned by Planning Commission but taken up by States					
BOMBAY *					
1. Khadakvasla	1,214·0	275·0	15·52	60·00	100·00
2. Purna	768·6	500·0	20·44	46·56	95·00
WEST BENGAL					
3. Kangasabati	2,525·90	475·0	52·12	75·00	50·00
UTTAR PRADESH					
4. Ramganga River Project ..	1,599·00	450·0	17·70	32·00	60·00

MINOR IRRIGATION

Minor irrigation works are works that can be conceived and handled to a large extent by the local people themselves, and individually cost Rs. 10 lakhs or less.

Minor irrigation works are very important from the immediate food production point of view. The development of irrigation on the completion of the projects is almost immediate.

Works like wells, pumping sets, persian wheels are executed entirely by individual cultivators. Many other works like tanks, anicuts, and channels benefiting groups of cultivators are also executed by the cultivators themselves on a cooperative basis. Financial assistance from Government, mostly in the form of loan, is given for both categories of these works. Subsidy, subject to a maximum of 25 per cent of the total cost, is also given to encourage construction particularly in backward and unproven areas.

Minor irrigation schemes which require some specialised technical knowledge in surveys and execution are handled by the Departments concerned of the States. Public participation is obtained for these works in the form of cash, or kind (like labour). State Governments levy irrigation rates or cess on the areas benefited.

Minor irrigation works command a larger area than what is commanded by the major works. Out of a total (net) irrigated area of about 55·7 million acres (in 1956-57) about 59 per cent is contributed by minor irrigation through tanks, wells, and other sources (11·1, 16·2 and 5·4 million acres respectively).

Minor irrigation schemes include construction of open wells, tanks and minor drainage schemes; embankments which are important from the point of view of food production and checking intrusion of salt water in coastal areas; restoration of old tanks, stream diversion schemes; and installation of pumping appliances and improvement of water supply from wells and storage dams. There are also such works as construction of kuhls in hilly areas, filter points in coastal alluvium and installation of improved lift appliances, Persian wheels and pumping sets on wells. Tubewells also form part of minor irrigation works.

During the First Five-Year Plan 9·5 million acres were reported to have been brought under minor irrigation against a target of 11·2 millions.

The target for increased food production was 2·38 million tons.

During the First Plan period the Government of India spent Rs. 46·52 crores as loans and Rs. 8·25 crores as subsidy for minor irrigation, in addition to Rs. 19 crores for tubewells and Rs. 7·34 crores on minor irrigation in Community Development and N.E.S. blocks.

The First Plan achievement is as follows:—

Item	Newly constructed/ installed.	Repaired/ Renovated.
1. Tanks	3,134	5,788
2. Wells .. .. (Excluding tubewells)	156,348	62,472
3. Dams	33,872	..
4. Other works ..	14,154	..
5. Persian Wheel, Rahats etc. (installed)	38,485	..
6. Pumps on rivers and channels installed	19,694	..

The target for the 2nd Five Year Plan was 9 million acres. The additional foodgrain production envisaged was 1·9 million tons. During the first two years 5·8 million acres were covered. An additional 2·2 million was achieved in 1958-59. The target for 1959-60 was 2·2 million acres, which was achieved. The target for the Plan as a whole is expected to be exceeded. The Third Plan is tentatively fixed at 14·78 million acres. The entire allocation of Rs. 137 crores will also be fully utilized.

The allocation for minor irrigation is Rs. 92 crores.

The rest of the provision of Rs. 45 crores is under the C.D. Programme.

The target for increased food grains is 1·9 million tons.

The expenditure on minor irrigation has been stepped up from about Rs. 150 million in 1956-57 to about Rs. 220 million in 1959-60. During 1958-59 three regional conferences on minor irrigation were convened by the Ministry of Food and Agriculture which laid stress on minor irrigation programmes.

The expenditure from 1956 to 1960 is estimated at Rs. 107 crores. The sanctioned outlay for 1958–59 was Rs. 20 crores.

TANKS AND WELLS

A descriptive note on the above is given in the 1959-60 edition of this book.

Tank irrigation is very important in Andhra, Madras, Orissa and Uttar Pradesh where over 2·9, 2·2, 1·2 and 1·0 million acres respectively, are irrigated by tanks. Bengal, Mysore, Bihar, and Bombay,* have over half a million acres under tank irrigation.

Wells: Wells are mainly of two types, i.e., surface or sub-surface. Unlike tanks, they can be constructed irrespective of topographical and geological limitations, provided sub-soil water is in reach.

* Bilingual.

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Well irrigation commands over 5·4 million acres in Uttar Pradesh and 2 millions in Punjab, Rajasthan, and Bombay. It is also of considerable importance in Madras (where over 1 million acres are irrigated by wells), Andhra, Madhya Pradesh, and Bihar.

Pumping sets of high efficiency have come into common use for water lifting and also for draining. The number of irrigation pumps in use increased from 107,355 in 1951 (*i.e.*, oil powered 82,218, and Electrically driven 25,137) to 177,034 (oil powered 122,230 and Electrically driven 54.804) by 1956.

To encourage maintenance, a levy on the entire irrigable area is imposed in Madhya Pradesh, Madras, and Mysore :—

Type	Cost per acre in Rs.
a) Lift irrigation by Mote (Leather Bucket)	60·0
b) Pump irrigation	20·0
c) Tubewell (per acre inch) ..	1·8

Tubewells

Tubewells are expected to make a significant contribution in raising India's agricultural production.

The Five-Year Plans aim to increase the total irrigated area in the country to 100 million acres and a substantial part of this irrigated area will be under the tubewell programme. Already, under the programme, 5,464 tubewells have been constructed and put into operation at a cost of about Rs. 37 crores. They are capable of irrigating about 2 million acres.

Tubewell irrigation is comparatively new to India. It was only in 1930 that a programme was taken up in Uttar Pradesh. During the following 20 years the State constructed about 2,000 tubewells which in 1950 were irrigating about a million acres. Some of the best of them were running on for over 7,000 hours a year and irrigating 7 to 8 hundred acres. The average area irrigated per tubewell was 420 acres. These results encouraged Government to take up large programmes under the First and Second Plans.

The first project taken up in 1950 aimed at the construction of 996 tubewells as an adjunct to the Grow More Food programme.

Subsequently two other large programmes were undertaken with the assistance of U.S.A. Government. Under these two and other smaller programmes taken up under GMF 4,208 tubewells were constructed :— in the Punjab 1,177, in Uttar Pradesh 2,226, in Bihar 390, in Bombay* 364, and 51 in other areas.

All these tubewells were constructed along the Gangetic plain but as considerable interest was shown in the results obtained here by other States, it was decided to explore the possibilities of tubewell construction in other parts of India where flow irrigation is not possible and where water is needed for irrigation.

A project for exploring these areas was, therefore, prepared under the 1953 Indo-American Technical Aid Programme under which the following areas considered by the Geological Survey of India as offering the best possibility of underground water were taken up for exploration by actual drilling : Narmada Basin (Madhya Pradesh), Tapti Basin (Gujarat and Madhya Pradesh States), Purna Basin (Bombay*), Saurashtra (Gujarat), Rajasthan, Kerala, Madras, Kutch, Andhra, Bihar, Punjab, Orissa, Uttar Pradesh, West Bengal and Assam. This exploration has now been completed and results obtained have justified the programme (see below). Large areas have been proved suitable for the construction of tubewells and States have taken up substantial programmes for developing Tubewell irrigation in these areas.

The most important of these are the following : Narmada Valley—about 780,000 acres along the river, west of Jabalpur ; Rajasthan—about 1,000 square miles around Chandan (east and north-east of Jaisalmer) ; Kutch (Gujarat) —about 300 square miles in central Kutch ; Madras—areas in Chingleput and Tanjore-districts for the development of ordinary tube wells and an extensive belt in South Arcot district for the development of artesian wells ; Orissa—Balasore district ; Andhra Pradesh—East and West Godavari districts ; West Bengal —almost all districts.

Irrigation with these tubewells has developed satisfactorily and in most cases 75 per cent of the potential has been utilised by the third year of operation. It is true that substantial concessions in water rates had to be offered by the State Governments to promote expansion but the total value of these is nothing compared to the value of the increased agricultural production result in therefrom.

In Uttar Pradesh alone the total value of increased agricultural production was worth over 45 crores of rupees in the years 1954-55 to 1956-57.

A tubewell irrigates about 400 acres while a surface well barely 5 acres. The cost of a tubewell complete with accessories is between Rs. 50,000 and Rs. 75,000 depending on whether electric energy is available for running the pump or not. This is for a 300 ft. deep tubewell, discharging 33,000 gallons per hour. A surface well irrigating 5 acres costs about Rs. 1,500. Thus the capital cost of a tubewell is from Rs. 150 to Rs. 200 per acre as against Rs. 300 per care for a surface well.

It is also particularly well-suited to areas of small holdings where the construction of wells raises difficult problems of finance. Also in periods of drought when the water in the surface wells dries up as was found during the drought season of 1957-58, the tubewell continues to give unabated supply of water.

The utilisation is given below :—

HISTORY

Rainfall in the country is as already mentioned unequal and in many areas uncertain. The distribution is as follows :

Range	(in million acres)	Percentage
Area between 0–30 inches	237·6	29·6
Area between 30–50 inches	339·2	42·0
Area between 50–75 inches	143·9	17·8
75 inches and above..	85·6	10·6
Total area ..	806·3	100·0

The annual rainfall varies from 5" (in parts of Rajasthan) to over 100" in the west coast areas. Most of it, however occurs during the four months of June-September, when many rivers are often in spate. On the other hand, about 30 per cent of the area gets less than 30" rainfall a year, necessitating irrigation measures.

The country can be broadly divided according to the rainfall into two zones of certain and uncertain rainfall. Generally speaking, rainfall is certain in Assam, Bengal, Konkan and Malabar and in the Narbada Valley. It is uncertain in large areas of Andhra, Maharashtra, Gujarat, Madras, Mysore, Orissa, Punjab, Rajasthan and Uttar Pradesh.

The total water resources of Indian rivers in terms of annual flow is estimated at 1,356 million acre feet of water, distributed as follows :—

1. Rivers (excluding the Indus system) falling into the Arabian Sea, 251·5 ; 2. Rivers (excluding Ganga and Brahmaputra system) falling into the Bay of Bengal, 334·0 ; 3. Indus basin in India, 64·4 ; 4. Ganga System, 397·1 ; 5. Brahmaputra System, 309·0.

The total run off is about 1·87 million cubic ft. throughout the year.

(mln. acre ft.)

System	Estimated average flow	UTILISATION upto 1951	Addl. in 1st FYP.	Addl. in 2nd FYP.
Indus	168	8·0	11	1·2
Ganges	400	38·0	21·5	14·5
Brahmaputra	300	2·3	..	..
Mahanadi	84	3·1	10·5	0·2
Godavari	84	12·0	1·0	1·5
Krishna	50	9·0	15·6	2·6
Cavery	12	8·0	1·3	0·6
Narbada	32	0·2	..	10·1
Tapti	17	0·2	0·7	3·5

Out of the water resources of 1,356 million acre feet, about 450 million acre feet are utilisable. About 88 million acres (6·5 per cent of total and 19·5 per cent of usable) were utilised by 1951. In he First and Second Five-Year Plans 11 and 13 per cent of the total water respectively are to be used.

RIVER VALLEY PROJECTS

The major river valley projects are as follows:—

(1) Bhakra-Nangal Project, (2) Hirakud Project, (3) Damodar Valley Project, (4) Tungabhadra Project, (5) Kosi Project, (6) Chambal Project, (7) Nagarjunasagar Project, (8) Koyna Project, (9) Rihand Project, (10) Bhadra Reservoir Project, (11) Kakrapara Project, (12) Machkund Project, and (13) Mayurakshi Project.

Below we give notes on some individual projects.

Bhadra Project (Mysore) :—This is one of the biggest irrigation and multi-purpose projects undertaken by the State. The scheme includes the construction of a reservoir on the river Bhadra at Lakkavalli (Shimoga District) with a storage capacity of 63.035 million c.ft. to irrigate 2,44,663 acres of land in the dry taluks of Shimoga, Chitaldrug and Bellary districts and to generate electric power to the extent of 33,200 kW at the dam site. Two channels take off from the reservoir on each bank and the right bank channel has to be taken in a tunnel, three miles in length, across the Ubrani Range of hills before it enters Sulekere valley which commands vast fertile lands in the taluks of Harihar and Davangere. When completed, this will perhaps be the longest irrigation tunnel in India. The left bank channel has been serviced to irrigate 15,000 acres and the right bank channel has been serviced for a short length. The tunnel works are in progress.

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The cost of the project is estimated at about Rs. 33·53 crores and the work is expected to be completed by 1961. According to the schedule, water has already been made available to an extent of nearly 31,304 acres of land. The project was actually started on a small scale in 1947 and so far about Rs. 16·63 crores have been spent.

Bhakra-Nangal Project (Punjab): The Bhakra-Nangal project in the Punjab comprises two big dams—The Bhakra Dam and the Nangal Dam, about 70 miles north of Chandigarh—a vast network of canals, four power houses and a large number of transmission lines with scores of grid sub-stations.

It is the largest multi-purpose river valley scheme under construction in India.

The project is expected to irrigate over nine million acres and build up an ultimate power potential of 9,06,000 kW. The States that will benefit are the Punjab, Rajasthan, Himachal Pradesh and Delhi.

The project will irrigate 4·8 mln. acres in the Punjab, and nine lakh acres in Rajasthan. It will also improve irrigation in another 3·5 mln. acres. During the year 1959-60 the Canal system actually irrigated over 19 lakh acres in the Punjab and Rajasthan as compared to 15 lakh acres during 1957-58.

Irrigation started in July 1954 when three lakh acres in the Punjab were irrigated. In 1960-61, 21·44 lakh acres of land were irrigated as against 19·67 lakh acres in 1959-60.

The total expenditure incurred till the end of Dec. 1960 was Rs. 152·87 crores against the sanctioned estimate of Rs. 170 crores.

The Nangal Dam, the Nangal Hydel Channel, and the Bhakra canals have already been completed. The first phase in the construction of the Bhakra Dam to a height of 414 ft. was completed in April 1958.

The dam had been raised to the height of 606 ft. above the deepest foundation *i.e.* the highest elevation attained being 1,566 by the end of Dec. 1960. The total uptodate progress of concrete placed is 4,605,408 c. yds. The concreting of the dam would be completed by Dec. 1961. The remaining work would continue upto the end of 1962.

Of the four power houses the Ganguwal and Kotla power houses on the Nangal Hydel Channel, with a total capacity of 96,000 kW have already been commissioned. Two additional units of 29,000 kW each at Kotla and Ganguwal power houses were expected to be commissioned into service in April and July 1961 respectively.

Rajasthan's share in the total electricity generated at Ganguwal and Kotla power stations is 15·22 per cent.

Of the two power houses to be built on the Bhakra Dam, the building to house the Left Bank Power House is complete and the first generating set of 90,000 kW, was commissioned into service on Nov. 14, 1960 and the second unit on Feb. 1, 1961. The remaining three units are likely to be commissioned at intervals of 3 months each.

The commitments from this plant are: Nangal Fertilizer Factory 1,60,000 kW; Delhi 40,000 kW; Rajasthan 15,000 kW; Kashmir 5,000 kW.

The plans for the construction of the Right Bank Power House were also ready and the preliminary work was started in 1960-61, the final year of the Second Five Year Plan. This power house too will have five units of 90,000 kW. Work was expected to start in 1960-61 itself because of the growing need for power in Delhi, Rajasthan and the Punjab.

The Bhakra Dam which has now reached a height of 660 feet received a major set back on August 21, 1959 in the collapse of the hoist chamber on the right diversion tunnel. Normally, this tunnel was to be closed in October 1959. The hoist chamber was intended to hoist the gates controlling the diversion tunnel. It was a box-like chamber (40′ × 60′ × 57′) costing Rs. 43 lakhs.

The immediate effect of this collapse was the inundation of the inspection galleries of the Bhakra Dam and the cable and the visitors' galleries of the left bank power plant—a major undertaking in the Power Wing of the Bhakra Project.

Immediate steps were taken to direct the water flowing into the power house so as to salvage the machinery being installed in the Power House. Salvage operations were successfully finished by the end of October 1959 with the help of divers and frogmen from the Indian Navy.

Ministry Engineers have been collaborating with the engineers already working on the Dam to choke the upstream mouth of the right diversion tunnel. This was more or less achieved on January 1, 1960.

The hoist chamber was completely dewatered on February 8, 1960 and concreting of the hoist chamber was taken in hand immediately. The syphons were finally closed on April 21, 1960 and two conduits leading from the old hoist chamber were filled with concrete on May 26, 1960, making the concrete block in the right tunnel strong to withstand the reservoir pressure equal to that for elevation 1,500 ft. which was the maximum expectation for the yearly rainy season.

The expenditure on repairs incurred upto the end of January 1960 was Rs. 77 lakhs and the total cost of repairs to civil works would be of the order of Rs. 118 lakhs.

The main dam is, however, safe and it is presumed that the benefits from the Bhakra Dam will flow in accordance with the schedule. But the construction work has been retarded to some extent as all the means and energy available had to be diverted to the repair work.

A committee was appointed to enquire into the accident. According to the report of the Committee released during the third week of July 1960, the hoist chamber on the right diversion tunnel of the Bhakra Dam on August 21, 1959, collapsed due to the vibration caused by the flow of water in the tunnel.

The increase in foodgrains as a result of the irrigation from the project is expected to be 1·13 million tons a year. Other additional yields that will accrue from the project are: sugarcane 5,00,000 tons, cotton 8,00,000 tons and pulses and oilseeds 1,00,000 tons.

For 1960-61 Rs. 10·39 crores were allotted.

The Electricity Wing of the Bhakra Dam has been made over to the Electricity Board which came into being on January 31, 1959.

A comprehensive agreement between Punjab and Rajasthan regarding the Bhakra Nangal project exists. (For details see the Directory for 1959-60.)

Over 41,354 acres of land has been acquired upto Dec. 1960 in Bilaspur, Hoshiarpur, Kangra, Hissar, Mandi and Ambala districts for resettlement of people displaced from the Govind Sagar (Bhakra Reservoir) area.

(*A detailed description of the project is given in previous books.*)

Damodar Valley Project (Bihar and West Bengal).—The Damodar Valley Project which is one of the most important multi-purpose schemes and is to benefit the States of Bihar and West Bengal, has as its main features the construction of (*a*) Multi-purpose storage dams with hydro-electricity plants, (*b*) an irrigation project with a network of irrigation canals and distribution measuring 1,465 miles, (*c*) an 85 mile long irrigation-navigation canal, (*d*) a power transmission grid and (*e*) thermal power stations to supplement the hydro-power.

The ultimate benefits that will accrue from this scheme include (*a*) effective flood control of the Damodar River, (*b*) perennial irrigation of 9,73,000 acres including 2,20,000 acres of old irrigated area in the kharif season and more than 1,00,000 acres in the rabi season resulting in an additional yield of rice and rabi crop and jute valued at Rs. 17 crores a year, (*c*) the generating of 729,000 kW of electric power, which will promote the growth of industry, lead to the electrification of railways, etc., (*d*) cheap transport facilities through the navigation canal, (*e*) annual traffic through the canal of coal, paddy, etc. to the extent of nearly 2 million tons, (*f*) efficient drainage of about 700 sq. miles of waterlogged area in the lower valley in W. Bengal, (*g*) prevention of soil erosion by afforestation, (*h*) land reclamation and improvement, (*i*) anti-malarial measures and public health promotion works, and (*j*) development of fishery, tourism, etc.

About seven lakh acres of land in West Bengal were brought under irrigation.

Of the electric power generated 625,000 kW will be thermal and 104,000 kW will be hydro-electric.

The first phase of the D.V. Project comprises (1) a thermal power station of 150,000 kW capacity at Bokaro, 7 miles by road from the Bermo railway station, in the district of Hazaribagh, Bihar, (2) Tilaiya dam with a power station of 4,000 kW in the same district, 14 miles south of Kodarma railway station on the Grand Chord line of the Eastern Railway, (3) the Konar dam in the same district, 24 miles from Hazaribagh, (4) the Maithon dam with a power station of 60,000 kW in the district of Dhanbad (Bihar), 3 miles from Kumardhubi railway station on the Grand Chord line, (5) the Panchet Hill Dam with a power station of 40,000 kW. (initial) in the district of Dhanbad (Bihar), about 13 miles south of Maithon, (6) the Durgapur Barrage and Canals in the district of Burdwan, Bankura, Hooghly and Howrah (West Bengal) and (7) the transmission line system. All these schemes were later integrated to the National Plan and those included in the original first phase programme were drawn into the First Five-Year Plan.

The construction of the first dam at Tilaiya was started in January 1950. The dam was completed and the hydro-Station put into commercial operation in February 1953.

The Bokaro Thermal Power Station was commissioned in 1953 with an installed capacity of 150,000 kW and with the completion of the fourth unit in 1960-61, it has a capacity of 225,000 kW.

The Konar Dam in the district of Hazaribagh was completed in 1955 and was formally opened by the Prime Minister of India on October 15, 1955.

The Maithon dam was opened by the Prime Minister on September 27, 1957 and the power station with all the units is in commercial operation.

The Maithon Dam, 162 feet high above the river bed, has been built on the Barakar River above its confluence with the Damodar. It consists of a main earth dam, 2,161 ft. long across the bed of the river, with a concrete dam 1,189 ft. long including the spillway of 612 ft. on the diversion channel and a long stretch of earthen dykes on both the banks. The overall length of the dam is 15,892 ft.

It has an underground power station on the left bank, the installed capacity of which is 60,000 kW. The volume of water in the reservoir at design flood stage (el. 504) is 12,00,000 acre ft. and the submergence area at design flood stage (el. 504) is 28,400 acres.

The Panchet Hill Dam was inaugurated on December 6, 1959.

The Panchet dam has been built on the river Damodar about 3 miles above its confluence with the Barakar river. It consists of a main rolled earth dam, 134 ft. high, 7,135 ft. long with a gravity type concrete dam 1,215 ft. long including spillway and a long stretch of dykes on both sides. The overall length of the dam is 22,155 ft. The volume of water in the reservoir at design

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flood stage (el. 449) is 13,65,000 acre ft. and the submergence area at design flood stage (el. 449) is 41,200 acres.

This dam together with the other three dams provide irrigation for 9,73,000 acres of kharif and 1,00,000 acres of rabi crops and supply water to the industries of the region.

The Panchet Hill Power Station was put into commercial operation on Sept. 14, 1959.

This power house has an initial installed capacity of 40,000 kW.

Maithon and Panchet are the two key dams on which flood control and irrigation in the lower Damodar Valley will mainly depend.

The Durgapur Barrage was completed and was opened by the Vice-President of India on August 9, 1955. Through some reaches of the completed canals, irrigation water was made available for an area of 1·43 lakh acres during 1957-58. During the kharif season of 1958-59, and 1959-60 water was supplied to irrigate an area of 5·20 lakh acres and 6·30 lakh acres respectively. During 1960-61, an irrigational potential of 919,000 acres was created. The work on the irrigation project is almost complete (Jan. 1961).

The D.V.C. power system supplied through an expanding network of transmission lines reaching right upto Calcutta 1,312 million units of electricity in 1959-60. The beneficiaries of the D.V.C.'s power system include such well-known firms as the Tata Iron & Steel Works, Jamshedpur, Indian Iron & Steel Company, Burnpur, the Locomotive Works, Chittaranjan, the Hindustan Cables, Calcutta Electric Supply Corporation, the Eastern Railway, the copper mines at Ghatsila and the coal fields at Jharia and Raniganj.

Work on the transmission system is actively in progress and 816 miles of 132 kV (out of a total of 875 route miles) and 93 miles of 33 kV lines with most of their associated sub-stations, have been completed.

In addition to the unfinished schemes carried over from the First Five Year Plan, the following additional schemes had been taken up during the Second Plan period :

(1) Expansion of the Bokaro Thermal Power Station by the addition of a 75,000 kW generating set, thus raising the ultimate capacity of generation to 225,000 kW (completed); (2) the construction of a second Thermal Station at Oyaria near Durgapur in the district of Burdwan (West Bengal), with a capacity of 150,000 kW (completed); (3) the construction of a third Thermal Power Station at Chandrapura in the district of Hazaribagh (Bihar) with a capacity of 250,000 kW (in progress); and (4) the necessary strengthening of the transmission system.

These extension works were programmed to be completed in time to meet the additional demands for power and new industrial development, such as, the expansion of the steel industry, undertaken by the Government as a part of the Second Five-Year Plan; electrification of the part of the Eastern Railway.

First Plan outlay : Rs. 62·28 crores.

The estimated cost of the project including the new schemes taken up during the period of the Second Five Year Plan is about Rs. 170 crores. The aggregate expenditure on the various projects upto the end of March 1960 works out to about Rs. 141 crores.

Budget

Revised estimates (1959-60) .. Rs. 16,19,75,000
Budget estimates (1960-61) .. Rs. 13,43,83,000

It may be mentioned here that the Damodar Valley Corporation Act was passed in March 1948, and the Corporation itself came into existence on July 7, 1948.

The manner in which the costs are shared among the participating Governments is given in a previous edition of the Directory.

It may be added here that the reorganisation of the States of Bihar and West Bengal does not involve any change in the irrigable areas in these States. In regard to power also, no appreciable change is involved as the benefit from the DVC power system will be shared almost equally by the States of Bihar and West Bengal.

Additional supplies to be made over the next two years will be more than 200,000 kW and the demand will fully consume the capacity of the power-stations under construction at Panchet, Durgapur and Bokaro (4th unit) and of the new power station to be constructed at Chandrapura.

Power is consumed mostly by major industrial concerns, but the D.V.C. also helped considerably in urban and rural electrification.

The Bihar Government, upto May 1960 electrified 91 towns, 1,722 villages, 273 collieries, 119 mica mines, 2,805 surface wells and 1,008 tube-wells.

The West Bengal State Electricity Board has started distributing D.V.C. power to various industries, distributing licencees and other consumers and upto March 1960, electrified seven coal-mines, 109 towns and 263 villages.

The annual gross revenue from power during 1958-59 and 1959-60 was Rs. 4·82 crores and Rs. 6·05 crores respectively and in 1960-61 it is estimated to be Rs. 5·37 crores.

With the completion of the four dams the D.V.C. is now in a position to provide as much practical flood protection as could be expected. In 1958 the four dams controlled the unprecedented floods in the Damodar and the Barakar rivers and reduced the flow to 205,000 cusecs at Durgapur where the peak flow would have been of the order of 665,000 cusecs.

In 1959 another flood breaking all previous records hit the valley. The peak flow which was 810,000 cusecs was moderated to a peak flow of 350,000 cusecs at Durgapur. But for the dams, there would have been havoc in lower Damodar basin, beyond description.

Considering that the work on the D.V. Project was nearing completion, the D.V.C. Act was amended by an Act of Parliament on 24th Dec. 1957 in order that the Corporation may be constituted of part time members if necessary.

Hirakud Dam Project (Orissa).—The Hirakud project was formally opened by the Prime Minister on 13th Jan. 1957. Water from the dam now completed flowed into the Baragarh Canal (right side) in July 1956 and water was available for irrigation in September 1956.

The project will irrigate 570,000 acres of land annually in Sambalpur and Bolangir Districts. This project also envisages to supply perennial water to the Delta Irrigation Scheme which will irrigate 15,95,356 acres annually in Cuttack and Puri Districts.

The project was started in 1948. The full project envisages the construction of a dam with a power house called Hirakud Dam and the second is the subsidiary power house project at Chiplima, sixteen miles below the Hirakud Dam. The main dam, dykes, Power House No. 1 and appurtenant works are already completed and the subsidiary Power House Project is under construction. It is scheduled to be completed by the end of 1962.

Stage I and II together will provide 2,70,000 kW of power. By 1960-61 irrigation facilities were available for an area of 3,80,000 acres under Hirakud dam.

Erection of all the four generating sets in Stage I of the project has already been completed and Hirakud power is now being supplied to Indian Aluminium Co. at Hirakud, Rourkela, Ferromanganese Factory at Joda, Cement Factory at Rajgangpur, Orient Paper Mills at Brajraj Nagar and many other industries in the districts of Cuttack, Puri, Sambalpur, Dhenkanal, Sundergarh, Keonjhar, Mayurbhanj, Balasore and Bolangir-Patna. The maximum load developed upto the end of March 1960 was 73,000 kW. The installed capacity was 1,23,000 kW in March 1958. Power from the project has been made available since March 1956.

Out of the estimated cost of Rs. 70·78 crores for Stage I, a sum of Rs. 63·40 crores was spent upto the end of September 1960.

As already mentioned, the whole project has three stages. The first stage consists of the main dam (so-called Hirakud Dam) with its power house for 123,000 kW installed capacity and canal systems at either flank. This stage is complete. The second stage consists of the Chiplima power scheme to develop 72,000 kW, and the expansion of Power House I by installing two generating units to develop 75,000 kW. Stage II is expected to be completed by the end of 1962 and will cost Rs. 14·32 crores. Stage II is progressing (March 1961). The amount spent on this scheme upto end of March 1960 is Rs. 6·40 crores. The third stage aims at the construction of a weir across the Mahanadi above Naraj with canal systems in Puri and Cuttack districts and will cost Rs. 14·92 crores. This is planned to utilize the discharge from the upper power houses for irrigating an area of 15,95,356 acres annually in the delta.

The immediate benefit from the completion of the first stage will be an additional quantity of 5·6 lakh tons of foodgrains and 2·4 lakh tons of other commodities.

(*A fuller description of the project is given in previous books.*)

Tungabhadra Project (Andhra, Mysore).—This Project was originally sanctioned by the Governments of Madras and Hyderabad which had territorial jurisdiction over this area at that time, primarily as a famine relief measure. Work on the Project was commenced in 1945 by the Governments of these two States.

It is now being executed by the Governments of Andhra Pradesh and Mysore States.

The Government of Mysore is solely in charge of the execution of the Project on the northern side of the Tungabhadra River.

On the southern side the Tungabhadra Board constituted under the directive of the President of the Indian Union, is in charge of all common works relating to Mysore State and Andhra Pradesh, and the respective States are in charge of other works in which only the concerned States are interested.

The Tungabhadra Dam across the river Tungabhadra at Mallapuram in Bellary District (Mysore) is 7,942 feet long and 162 feet high at the deepest foundation. There is only one canal on the northern side. This is expected to irrigate about 5,80,000 acres in Mysore State.

There are two canals on the southern side of the river—the Low Level Canal and the High Level Canal.

The former has already been executed and the Government of India have sanctioned the execution of the latter in two stages. The first stage of the High Level Canal Scheme costing Rs. 13 crores has been taken up for execution and the works are in progress in various reaches.

The irrigable area on the southern side is as follows: From the Low Level Canal, Andhra 1,56,913 acres and Mysore 92,345 acres. From the High Level Canal when Stage I is completed, in Andhra Pradesh 1,19,115 acres and in Mysore 68,000 acres; when Stage II is completed, in Andhra Pradesh additional 1,32,685 acres and in Mysore additional 68,500 acres.

The areas irrigated from the Low Level Canal in Mysore are in Bellary, and in Andhra Pradesh in Kurnool. The areas irrigated from the High Level Canal in Mysore are in Bellary, and in Andhra Pradesh in Anantapur and Cuddapah.

The 217 mile canal, taking off from the right flank known as Power Canal for the first 14 miles and Low Level Canal thereafter, accommodates 2,500 cusecs of water, feed the canal

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power house at Hampi and irrigates lands in the States of Mysore and Andhra Pradesh. The area commanded by the canal is 2·5 lakh acres of land which lay in Bellary district of Mysore and Kurnool district of Andhra Pradesh. The Left Bank Canal takes off from the irrigation-cum-power sluices on the Munirabad side and irrigates 5·8 lakh acres in Mysore State.

The High Level Canal taking off from the high level sluices of the dam at the right flank will carry 2,300 cusecs of water when Stage I is completed and 4,000 cusecs ultimately.

Only areas in Mysore are irrigated by the Northern Canal and these are in Raichur Dt.

The Tungabhadra Reservoir as a whole is 146 square miles and has a capacity of nearly 3·1 million acre feet at the full Reservoir level of plus 1633.

When completed, the Hydro Electric Scheme on the southern side will consist of 2 Power-houses with 4 generators, each of 9,000 kW capacity making an aggregate of 72,000 kW. The first station is near the Dam and the second about 13 miles along Canal.

The first and the second generators at the Dam power house were commissioned in January 1957 and May 1957 respectively, and the first and second generators at the Canal Power house were commissioned in February and March 1958 respectively.

The balance of four generators in the two power houses will be installed by 1962-63.

On the northern side of the Project, it was initially proposed to have one power house near the Dam with 4 generators of 9,000 kW capacity each. The civil works relating to this power house were in progress. This power house was expected to be commissioned in 1960-61. It is also proposed to develop later power houses along the Canal.

Over two lakh acres of land were irrigated in 1959-60 by the Tungabhadra Project. In addition the power system produced 160·9 million kWh. of electricity during this period.

Expenditure

The expenditure on the northern side of the river will be borne solely by the Government of Mysore.

The expenditure on the southern side for the works executed by the Tungabhadra Board, is tentatively being shared between the Governments of Andhra Pradesh and Mysore State in the following ratio :

	ANDHRA PRADESH	*MYSORE STATE*
Headworks and Low Level Canal	5	4
High Level Canal	65	35
Hydro-Electric Scheme	80	20

The total probable cost of the whole project is as indicated below :

Irrigation : (*a*) Tungabhadra Headworks and Right Bank Canal (Low Level Canal) Rs. 21·96 crores ; (*b*) Tungabhadra Headworks and Left Bank Canal Rs. 31·01 crores ; (*c*) High Level Canal Rs. 21·90 crores (Stage I Rs. 13 crores ; Stage II Rs. 8·9 crores) ; Total Rs. 74·87 crores.

Hydro-Electric Scheme : (*a*) Right Bank—(i) First Stage power development Rs. 11·08 crores, (ii) Second Stage power development (Scheme sanctioned by the Planning Commission) Rs. 1·44 crores ; Total Rs. 12·52 crores ; (*b*) Left Bank—Dam Power House (three units only) Rs. 4·66 crores ; Other power houses (Scheme not prepared) Rs. 7·95 crores ; Total Rs. 12·61 crores ; Grand total Rs. 100 crores.

The Tungabhadra Dam proper was completed in July 1953 except for the installation of spillway gates in the spillway sections. This work along with other works *e.g.* construction of utility towers, concreting the road on the top of the dam etc. have been completed in all respects.

The water for irrigation on the northern side Canal, and on the Low Level Canal on the southern side has been supplied from 1st July, 1953.

Work on the Left Bank Canal in its length of 127 miles is in progress. It is expected that this work will be completed during the 3rd Five Year Plan.

The irrigation supplied by water in the southern side of the Project will yield 98,000 tons of food grains and 4,19,000 tons of commercial crops under Low Level Canal and 1,60,000 tons of food grains and 79,000 tons of commercial crops mostly cotton under High Level Canal. Similarly the canal on the northern side will also yield 3,15,000 tons of food grains and 4,20,000 tons of commercial crops consisting mostly of cotton and groundnut.

The estimated cost of the entire project (northern and southern sides) when completed in all respects, is about Rs. 100 crores which will ultimately add a total of about Rs. 21·39 crores per annum to the national wealth in the shape of food and industrial production. It will bring 12·2 lakh acres of land under irrigation and generate 172·5 MW of power.

The programme of intensive stocking of fishes has been taken up on the southern side of the river. Exploitation will be done after three years by which time it is expected that the reservoir will become productive. The maximum yield of fish will be about 54,000 maunds and the revenue realised will be Rs. 10·8 lakhs per year.

Kosi Project (Bihar).—At first the Kosi project envisaged the construction of a dam of the unprecedented height of 783 feet above rock foundations on the Kosi river, a mile upstream of Barahkshetra in the Kosi gorge for flood control, power, irrigation, navigation, soil conservation, silt control, fish culture and recreation, etc. The total scheme was to cost Rs. 177 crores, but in view of the prohibitive cost and the long time required for its execution, this plan was abandoned and further investigations to tame Bihar's 'River of Sorrow' were started.

The present scheme estimated to cost Rs. 44·76 crores was prepared by the Central Water & Power Commission in November 1953. The expenditure on the Project upto the end of December 1960 was Rs. 24·22 crores against the estimated cost of Rs. 44·76 crores.

The Project consists of three different units as follows :—

(*a*) Unit I—Hanumannagar Barrage and Head works : This is estimated to cost Rs. 16·79 crores. The barrage is to be constructed about 30 miles below Chatra in Nepal where the river debauches into the plains from the gorge. It consists of a main spillway 3,770 ft. long, with earth dams about 18,500 ft. long on both the flanks connected to two afflux bunds 8 miles each on either bank of the river. The functions of the barrage are (*i*) to arrest coarse silt and flatten the gradient of the river above, (*ii*) to provide for irrigation of 14 lakh acres and (*iii*) to develop power that is possible with the available head. (The earthquake safety factor adopted in the design of the Barrage is 0·15 g horizontal and 0·10 g vertical.)

The barrage is expected to be completed in 1963.

(*b*) Unit II—Flood Banks and Protective Measures : The estimated cost of this is Rs. 11·55 crores involving construction of 75 miles of embankment on the western side below barrage and 63 miles on the eastern side. Besides, a flood bank of 12 miles above the east afflux bund in continuation is also provided. The purpose is to restrict the flood waters between the embankments, thus preventing the usual spill, and also to stop further westward translation of the river Kosi.

(*c*) Unit III—Eastern Kosi Canal System : The canal system at an estimated cost of Rs. 16·42 crores is proposed to have an annual irrigation of about 14 lakh acres in the districts of Purnea and Saharsa.

The system consists of a main canal, four branch canals and a number of distributaries.

A hydro-power scheme with an installed capacity of 20,000 kW will be executed during the Third Plan period. According to the agreement on the project, 50 per cent of the power to be generated has been earmarked for Nepal.

The work on the project is to be implemented by the Government of Bihar. The Central Government will render necessary technical assistance.

The flood banks were taken up for construction first and work near Nirmali on the western embankment was inaugurated by the Chief Minister of Bihar on 14th January 1955. The work on the eastern embankment near Supaul was commenced on 3rd February 1955.

The eastern and western embankments have been completed and 5·5 lakh acres have been rendered flood free. 48 per cent of the earth-work involved in the construction of the embankments was done through public co-operation agencies organised by the Bharat Sewak Samaj. The preparatory works in respect of the construction of the barrage have been completed.

The work of excavation in foundation and concreting of the main spillway and head regulator of Eastern Kosi Canal, are in progress. Earthwork in Kosi canals has been completed to the tune of 78 per cent. The work of rehabilitating 304 villages having a population of 1,14,000 lying in between the two Kosi embankments, is in progress.

Figures showing the economic development in the Kosi area : The net area sown per village increased from 619·26 acres, 940·14 acres and 798·09 acres in 1954-55 to 709·02, 946·67 and 840·90 acres in 1955-56 respectively for villages in Supaul, in Nirmali and in the Kosi area as a whole. Paddy output increased from Rs. 6,106·60, Rs. 51,024·09, Rs. 28,565·35 per village in Supaul, Nirmali and in the Kosi area as a whole to Rs. 10,171·28, Rs. 109,524·03 and Rs. 59,847·65 respectively in 1955-56.

(*d*) Chatra Canal System : As part of India's Aid to Nepal the Chatra Canal Project is being taken up. The canal will take off at 30 miles upstream of Kosi Barrage and will irrigate annually two lakh acres in Eastern Nepal. This scheme will cost about Rs. 4 crores.

Schemes to extend irrigation facilities to the western side of Kosi river and the land between the eastern embankment and present irrigation command have been included in the Third Plan of Bihar. These will irrigate over nine lakh acres in west Kosi area and four lakh acres in Saharsa District.

Rihand (Pipri) Dam and Power Station Project (Uttar Pradesh).—This Project is proposed to impound 8·6 million acre feet of water by a 3,254 feet long and 296 feet high dam across the river Rihand, a tributary of the Sone, near the village of Pipri in Mirzapur Dt. The power house will have five generating sets of 50,000 kW each and a total installed capacity of 250,000 kW. The firm generating capacity is 105,000 kW. It will also bring under irrigation about 16 lakh acres of land in U.P. by providing cheap electricity to about 4,000 tube-wells installed in the eastern districts of the State and also about five lakh acres in Bihar by releasing a minimum flow of 5,000 cusecs water in the Sone canal system in South Bihar.

The estimated cost of the scheme including transmission and transformation, is about Rs. 4,605·13 lakhs. Expenditure upto the end of September 1960 was about Rs. 19 crores on civil works and nearly Rs. 7 crores on power project including transmission lines erected so far. Expenditure upto end of Nov. 1960 was Rs. 26·52 crores.

The project is under construction and is expected to start generating power partly by the end of June 1961 and wholly by the end of 1961.

Nagarjunasagar Project (Andhra Pradesh).—The project in its first stage comprises the construction of a masonry dam of a maximum height of 404 feet above deepest bed-level

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and 4,780 ft. long including spillway of masonry dam, across the Krishna river near Nandikonda village in Nalgonda District, about 90 miles below Siddeswaram, and two canals taking off from the reservoir, known as the left and the right bank canals. The dam is situated about 15 miles from Macherla railway station. Large areas extending between the Krishna and the Godavari in the north and the Krishna and the Pennar in the south can be commanded by the reservoir, the estimate being over 35 lakh acres.

The Right Bank Canal which will be 276 miles long will carry a discharge of 21,000 cusecs. The Left Bank Canal will be 140 miles long and will lead up to the river Muneru in the first stage. The Right Bank Canal is claimed to be the biggest irrigational canal in the world.

The storage capacity of the reservoir will be 9·18 million acre feet with a water-spread of 110 sq. miles.

Work was inaugurated in Dec. 1955, and the project is expected to be completed by June 1964. The total excavation work for the foundation of the main dam started in 1956 has been completed. The progress of work in the right and left bank canals is satisfactory.

The total cost of the project, namely, construction of the dam and the two canals is estimated to be about Rs. 125 crores. The total area to be benefited by the project will be 35 lakh acres of land spread over the districts of Guntur, Kurnool, Krishna, Khammam and Nalgonda.

The second Stage of the project which will be taken up later will provide for the generation of electric power of 75,000 kW capacity.

The total expenditure incurred on the Project upto the end of December 1960 was Rs. 35·25 crores.

It is estimated that the project will raise production of foodgrains by eight lakh tons.

Chambal Project, Stage I (Madhya Pradesh and Rajasthan).

The full development consists of :—

(*a*) Three dams: Gandhi Sagar, Rana Pratap Sagar and Kotah across the Chambal River with a power-station at each dam site.

(*b*) High tension transmission lines for power transmission to various sub-stations in Madhya Pradesh and Rajasthan.

(*c*) A barrage across the river near Kotah city to divert the water from the storage and power dams into irrigation canals.

(*d*) A net-work of irrigation channels on either bank of river fed from the Kotah barrage.

The revised estimated cost of the whole scheme is Rs. 9,080·63 lakhs and the scheme is expected to generate 2·48 mln. kW of hydro-electric power, and irrigate 14 lakh acres of land annually in Madhya Pradesh and Rajasthan.

The scheme has been taken up in three stages, keeping in view the immediate demand for irrigation and a gradual development of power demand. The details of the stages namely the achievements upto June 1960 are as under :—

STAGE I.

The first stage envisaged the construction of Gandhi Sagar Dam with power station, Kotah Barrage and Canal system. The stage is estimated to cost Rs.6,359·37 lakhs and the details in brief on each of these items are as under :—

The Gandhi Sagar Dam which is situated at a distance of 4·5 miles down stream of the Chaurasigarh Fort is being constructed at the boundary of Rajasthan and Madhya Pradesh States to create a reservoir having a gross capacity of 6·85 million acre feet at the cost of Rs. 1,360·25 lakhs. The work of stone masonry has already been completed and only about 14 per cent of concreting work remains. Out of 256 lakh cft. of stone masonry and concreting to be done 247·66 lakh cft. have already been laid by June 1960. Nearly one half of the total length of 1,685 ft. of the Gandhi Sagar Dam has been completed to its full height. The expenditure upto June 1960 is Rs. 1,216·37 lakhs. It has begun to store water and irrigation facilities were made available in Rajasthan and M.P. from Nov. 20, 1960 when the Prime Minister inaugurated the canals at Kotah Barrage.

The Gandhi Sagar Power station has an installed generating capacity of 92,000 kW. Estimated to cost Rs. 479·12 lakhs, it will supply 80,000 kW of power at 60 per cent load factor. Rajasthan's present share in the installed capacity of 3 generating sets is 34,500 kW.

The work is nearing completion. Out of 25 lakh cft. of masonry and concreting to be done, 23·68 lakh had already been laid by the end of June 1960. The power house was inaugurated by the Prime Minister on Nov. 19, 1960. Areas that would benefit are Indore, Ujjain, Bhopal, Ratlam, Neemuch and Mandsaur. The total expenditure incurred so far is Rs. 311·655 lakhs.

Kotah Barrage which is situated about 32 miles down stream of Gandhi Sagar Dam and about half a mile above the Kotah city, has been constructed by the Rajasthan Government to store the released water from the dams and to divert this water into Irrigation Canals. The construction work on this Barrage, which is 1,970 ft. long and 120 ft. high, has been completed. 19 radial gates had been erected. The total estimated cost of this work is Rs. 3·83 crores. Expenditure upto May 1960 was Rs. 3·44 crores.

The two canals namely Right Main Canal and Left Canal which have the gross commanded area of 24·03 lakh acres and 4·81 lakh acres to provide the annual irrigation of nearly 11·4 lakh acres and 2·6 lakh acres respectively, take off from Kotah Barrage. The construction work on the Rajasthan side has been completed. It involved 119·46 million cft. of earth work, 40·2 million cft. of rock cutting and masonry and 21·9 million cft. of concrete. In Madhya Pradesh the first 40 miles of the Right Main Canal have been completed. The total expenditure of Rs. 2,196·175 lakhs (Rs. 1,269 lakhs for Rajasthan and Rs. 927·175 lakhs for Madhya Pradesh) has been incurred so far as against the total estimated cost of Rs. 3,043·20 lakhs.

The works are already in progress and are expected to be completed by 1962-63.

STAGE II.

(*a*) Construction of the Rana Pratap Sagar Dam and the Bhopal Power Station below it to generate 1,12,000 kW of power at 60 per cent load factor, and suitable extension of transmission lines and sub-stations at an estimated cost of Rs. 1,721·25 lakhs. Work on the project has already started and an attempt made to complete the work by the end of the 3rd Five Year Plan. This will enable irrigation of a further 3 lakh acres in addition to the generation of extra power.

STAGE III.

This caters for a further development of hydro-electric power by building the Kotah Dam about 10 miles upstream of the Kotah Barrage with a power station to generate 61,000 kW of power at 60 per cent load factor, and a further extension of transmission lines, etc., at an estimated cost of about Rs. 10 crores. The work on these items has not been taken up so far; but an attempt is being made to take up and complete the work in the 3rd Plan.

Narmada Project.—The Prime Minister inaugurated this Rs. 93 crore project on 5th April 1961 at Navgaum, 100 miles from Ahmedabad. The project on completion will irrigate 9,62,588 acres of land annually in Broach and Baroda districts in Gujarat. Total cost of the first stage of the project is Rs.4,309·79 lakhs.

GANDAK PROJECT

Though this project is not in operation and is indeed very much in the future a note on this may be given since it is a project that concerns two sovereign States—India and Nepal.

An agreement about the project was signed in Dec. 1959. Preliminary work is proposed to be taken up during 1961-62.

The project envisages the construction of a barrage at Bhaisalotan with one end in Nepal and the other in India. The two main canals on the western and eastern banks also take off within Nepalese and Indian territories respectively.

The total area irrigated by the project in Nepal and India will be 37 lakh acres.

There will be two power houses—one on the Nepalese and the other on the Indian side, each with a firm capacity up to 10,000 kW.

The total cost of the entire project, to be wholly borne by India, is estimated at Rs. 50·5 crores—the tentative apportionment being Rs. 39·5 crores to Bihar and Rs. 11 crores to Uttar Pradesh.

It is hoped to complete the project in ten years.

Moreover, India will contribute upto Rs. 15 lakhs for the construction of water courses below the capacity of twenty cusecs. The Government of India will spend about Rs. 230 lakhs over the irrigation facilities for Nepal.

The power house in Nepal, together with transmission lines from it to the Bihar border at Bhaisalotan and, thence, to Raxaul via Sagauli, will be constructed by the Government of India, at a cost of Rs. 451 lakhs, of which about Rs. 350 lakhs are for works benefiting Nepal.

From this grid, Nepal would be assured supply of firm power at actual cost of production and transmission.

The foremost benefit to India from this project will be insurance against famine in the Saran, Champaran, Muzzaffarpur and Darbhanga districts of North Bihar and Deoria and the Gorakhpur districts in Uttar Pradesh.

This area is densely populated and suffers from chronic food shortage, and the rainfall in it is undependable.

The additional area assured of irrigation facilities in Bihar and Uttar Pradesh from this project will be roughly 33 lakh acres—27 lakh acres in Bihar and 6 lakh acres in Uttar Pradesh.

The power supply from the Power House on the eastern canal will be available for India. Further, firm power not utilised by Nepal and all secondary power from the Power House on the western canal, will also be available for use in Bihar.

(*For more details see 1960-61 Directory*)

NET AREA IRRIGATED BY SOURCES, 1957-58

(*See "Late Particulars"*)

GROSS IRRIGATED AREA BY CROPS, 1957-58

(*See "Late Particulars"*)

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ELECTRIC POWER DEVELOPMENT

(By courtesy of the Central Water and Power Commission, Power Wing.)

IT is estimated that well about 80 per cent of India's power requirements are at present obtained from animal dung, wood, agricultural waste, etc. and from living energy (animal and human effort).

India's requirement of domestic fuel is about 83 million tons in wood equivalent, which is 40 per cent of the total energy consumption in the country.

About industrial energy, about 80 per cent comes from coal; petroleum products account for about 14 per cent and the balance comes from hydro-electricity.

The aggregate generating capacity of the country in electric power has grown as follows (kW):—

1935 ..	859,402
1940 ..	1,181,528
1945 ..	1,249,454
1950 ..	1,712,515
1951 ..	1,835,426
1952 ..	2,061,755
1953 ..	2,305,190
1954 ..	2,493,996
1955 ..	2,694,817
1956 ..	2,886,141
1957-58 ..	3,223,111
1958-59 ..	3,511,586
1959-60 ..	3,873,166

The total installed capacity at the end of March, 1960 was 3,873,166 kW, of which 1,530,145 kW was water power and 2,343,021 kW thermal. It is estimated that out of the total capacity of 5·8 million kW at the end of the 2nd Plan, electricity undertakings in the public sector accounted for 3·3 million kW, public limited companies 1·5 million kW and industrial establishments meeting their own requirements one million.

The *per capita* consumption of electric power in India is ridiculously low. In 1959-60 it was 33·01 kW hours as against 5,160 in Canada, 3,602 in Sweden, 4,117 in the U.S.A., 7,068 in Norway and 2,899 in Switzerland. The latest estimates place the hydro-electric power potential of India at 40 million kW, but only a little more than one million kW has been tapped so far.

The production and sale of electric power from 1951 to 1959-60 was as follows (in million kWh):

	Generated	Sold
1951 ..	5,860	4,790
1952 ..	6,120	5,000
1953 ..	6,700	5,600
1954 ..	7,520	6,250
1955 ..	8,592	7,111
1956 ..	9,662	7,959
1957-58 ..	11,321	9,307
1958-59 ..	12,993	10,719
1959-60 ..	14,991	12,328
Jan. 1961 ..	1,461·8	1,216·1

An analysis of electric power consumption in million kWh is given below. The figure in brackets shows the percentage:

	1958-59	1959-60
Domestic or Residential light and small power ..	1,234·044 (11·5)	1,368·884 (11·1)
Commercial light and small power	678·818 (6·3)	758·988 (6·2)
Industrial Power	7,176·034 (67·0)	8,426·596 (68·3)
Traction	441·549 (4·1)	440·594 (3·6)
Public lighting	155·066 (1·5)	175·420 (1·4)
Irrigation	643·482 (6·0)	727·026 (5·9)
Water Works	389·617 (3·6)	430·845 (3·5)
TOTAL	10,718·610 (100·0)	12,328·353 (100·0)

The following statement shows the number of electrified towns and villages at the end of 1959-60.

Population	Number of towns or villages†	Number with electric supply	Percentage with electric supply to total
Over 100,000	73	73	100·00
50,000 to 100,000	113	113	100·00
10,000 to 50,000	1,257	1,042	84·00
Below 10,000	559,666	20,168	3· 4
TOTAL	561,109	21,396	3· 8

INSTALLED CAPACITY

Some individual industries have power-stations of their own. The number of installations and the installed capacity are as follows (as on 31st March, 1960):

Industry	No.	Capacity (kW)
Aluminium (Primary) ..	6	12,834
Aluminium (Secondary)	9	98
Cement (Primary) ..	27	121,759
Cement (Secondary) ..	23	705
Chemicals	35	39,744
Collieries	148	63,571
Copper (Primary) ..	1	4,625
Copper (Secondary) ..	1	..
Cotton Textiles ..	337	124,032
Fertilisers	4	80,560
Gold	1	4,700
Iron & Steel (Primary)	6	298,118
Iron & Steel (Secondary)	20	480
Jute	86	25,910
Paper	24	77,028
Petroleum	4	3,206
Silk	25	1,480
Soap	12	166
Sugar	105	72,456
Tanneries	10	297
Wool	12	3,600
TOTAL†	896	935,369

† Does not take into account the figures for railways.

The generating plant capacity (in public utilities) by ownership is as follows:

	1957-58	1958-59	1959-60
State owned (Public Sector)	1,937,747	2,216,180	2,572,402
Companies (Private Sector)	1,285,364	1,295,406	1,300,764
	3,223,111	3,511,586	3,873,166

The number of generating undertakings reckoned on ownership basis at the end of 1959-60 was distributed as follows:

State Government .. .. } State Electricity Board	17
Power Corporation	2
Municipality	23
Companies	144
	186

It may be pointed out that in 1959-60 six large cities—Bombay, Calcutta, Ahmedabad, Kanpur, Madras and Delhi accounted for 27·0 per cent of the country's installed capacity and 28·4 per cent of the generated energy.

The total number of consumers at the end of 1959-60 was 4,029,740 in all (Domestic 3,100,327; Commercial 634,997; Industrial 150,789; Public lighting 7,382; Irrigation 136,245).

The State-wise analysis of plant, generation and sales for 1959-60 is as follows:

State	No. of stations	Installed capacity (kW)	Energy generated (mln. kWh)	Energy sold (mln. kWh)	Capacity in industrial establishments (kW)	Capacity in railway plants (kW)	Annual *per capita* consumption (kWh)
Andhra Pradesh	60	277,602	701·069	510·360	48,390	NOT AVAILABLE	14·65
Assam	30	19,260	30·909	24·870	3,131		2·46
Bihar	34	267,813	1,402·504	770·819	282,567		17·83
Bombay‡	186	958,155	4,011·223	3,373·147	106,382		62·70
Jammu and Kashmir ..	9	12,981	42·523	50·000	Nil		10·15
Kerala	9	122,262	487·917	419·056	1,661		27·75
Madhya Pradesh	85	196,162	354·123	295·489	70,338		10·16
Madras	10	403,166	1,897·893	1,439·147	24,768		43·07
Mysore	32	190,611	999·713	840·866	22,925		38·88
Orissa	34	135,882	501·732	455·482	93,418		27·89
Punjab	37	171,281	772·790	471·734	17,998		26·21
Rajasthan	46	51,128	103·705	80·299	37,264		4·51
Uttar Pradesh	66	377,999	1,141·087	889·177	58,141		12·61
West Bengal	45	604,502	2,242·962	2,342·869	138,352		79·91
Union Territories							
Delhi	5	76,303	293·910	342·844	29,459		176·47
Rest	10	8,059	7·441	22·204	575		6·77
TOTAL	698	3,873,166	14,991·501	12,328·353	935,369		30·40*

* This figure does not include the energy generated by the self-generating industries and railways. ‡ Bilingual.

† All villages with a population of 5,000 to 10,000 (3,101 according to 1951 census) will be lighted up during the 3rd Plan.

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Tentative information about installed capacity in kW for 1959-60 in the public utilities by source is given below :—

State	Steam	Hydro	Oil	Total
Andhra Pradesh	83,500	171,400	22,702	277,602
Assam	..	9,270	9,990	19,260
Bihar	206,020	44,000	17,793	267,813
Bombay*	593,650	279,914	84,591	958,155
Jammu and Kashmir	1,500	10,612	869	12,981
Kerala	..	117,500	4,762	122,262
Madhya Pradesh	169,798	..	26,364	196,162
Madras	112,500	290,150	516	403,166
Mysore	..	178,200	12,411	190,611
Orissa	5,776	123,005	7,101	135,882
Punjab	7,276	145,990	18,015	171,281
Rajasthan	29,250	..	21,878	51,128
Uttar Pradesh	249,810	92,490	35,699	377,999
West Bengal	528,331	67,208	8,963	604,502
Delhi Union Territories	53,600	..	22,703	76,303
Rest	6,000	406	1,653	8,059
TOTAL	2,047,011	1,530,145	296,010	3,873,166

FIVE-YEAR PLANS

At the beginning of the First Plan the total installed capacity in the country was 2·3 mln. kW. At the end of the First Plan (*i.e.* the beginning of the Second) it was 3·4 mln. kW. The Second Plan target was to raise this by 3·5 mln.

About energy generated (in crore kW), it was 657 at the beginning of the First Plan, 11,00 at the end of it. The Second Plan target was 22,00.

During the First Plan period a total of Rs. 206·71 crores was spent on the four multi-purpose projects—Bhakra, Harike, D.V.C., Hirakud. The Plan provision was Rs. 246·03 crores.

The total expenditure on the new major projects during the First Plan was Rs. 18·11 crores—Koyna, Rihand, Kosi, Nagarjuna Sagar, Chambal.

The total expenditure on the power projects during the First Plan period was Rs. 152·89 crores as against the Plan provision of Rs. 178·63 crores.

The total number of power schemes undertaken during the First Plan was 344. The following principal power schemes were put into commission during the Plan period. The installed capacity is also shown :

Bokaro (Bihar) : 1,72,500 kW ; Chola, Kalyan (Maharashtra): 54,000 kW ; Jog (Mysore): 72,000 kW ; Khaperkheda (M.P.) : 30,000 kW ; Machkund (Andhra-Orissa) : 34,000 kW ; Madras city plant extension : 30,000 kW ; Moyar (Madras) : 36,000 kW ; Nangal (Punjab) : 48,000 kW ; Pathri (U.P.) : 13,600 kW ; Sarda (U.P.) : 27,600 kW ; Sergulam (Kerala) : 48,000 kW.

The total provision for power in the Second Plan was Rs. 427 crores. The target was 6·9 mln. kW.

The Government of India had authorized commencement of preliminary works in 1960-61 of seven power projects having a total installed capacity of 885,400 kW, which will be included in the 3rd Five Year Plan. Names of the power projects, name of the State and installed capacity in kW respectively : Kundah Stage III extension scheme ; Madras ; 240,000 ; Mettur tunnel power scheme ; Madras ; 100,000 ; Pamba-Kakki Hydro-electric scheme ; Kerala ; 300,000 ; Cambay Thermal Station ; Gujarat ; 150,000 ; Khaperkheda thermal station extension ; Maharashtra ; 30,000 ; Naharkatiya power station ; Assam ; 50,400 ; Barauni thermal station ; Assam ; 15,000.

Rural

The programme included in the Second Five-Year Plan was an ambitious one. Out of Rs. 427 crores for the entire power programme in the country, as much as Rs. 75 crores had been set apart for extending electricity to villages.

During the Second Plan 12,930 villages were expected to be electrified. The number of villages electrified during the Second Plan upto 31st March 1960 was about 10,900.

The State-wise figures for the Plan period are: Assam 29 ; Bihar 1,285; Bombay* 700; Kerala 1,344 ; Madras 5,000 ; Madhya Pradesh 329 ; Mysore 700 ; Orissa 223 ; Punjab 2,100 ; Rajasthan 113 ; Uttar Pradesh 235 ; Centrally Administered Areas 872.

At the beginning of the First Plan the number of villages which had electric power was 4,051. At the end of the First Plan the number rose to about 10,500.

The total number of villages electrified as in March 1960 was about 21,396.

Even with this achievement, however, only about 3·8 per cent of the villages would have been covered by March 1960.

It is estimated that the average cost of electrification of a village based on present day costs is between Rs. 60,000 and 70,000.

The total cost of reaching all the villages may be put at Rs. 3,000 crores at present day price levels.

ELECTRICITY ACT

The Central Government have enacted legislation, the Electricity (Supply) Act, 1948, to provide for the rationalisation of the production and supply of electricity in the country.

The Act provides for the formation of State Electricity Boards in the States which will be charged with the general duty of promoting the co-ordinated development of the generation, supply and distribution of electricity within the State in the most efficient and economical manner.

So far Andhra Pradesh, U.P., Madhya Pradesh, W. Bengal, Assam, Bihar, Kerala, Madras, Rajasthan, Mysore, Punjab, Maharashtra and Gujarat States have set up such Boards.

The Act also provides for the creation of a Central Electricity Authority.

This Authority was constituted in 1950.

The Indian Electricity Act, 1910 as amended in Sept. 1959, enlarges the scope of facilities available to consumers and also ensures maintenance of higher standards of safety of life and property.

It will now be easier for even scattered consumers to obtain electricity supply. For, the legislation specifies that the minimum number of persons entitled to get mains extended to their premises at the cost of a private undertaking will be only two instead of six.

The gross annual revenue to be guaranteed by a new consumer during the first two years of supply has been specified as 15 per cent of the cost of distribution mains—this figure being based on the actual average revenue derived from consumers in the country.

Another dominant feature of the present enactment is the conferment of greater powers on the State Governments for continued maintenance of electrical supply to consumers, including essential services, and stricter control over private undertakings.

Further, powers have been conferred on the State Governments to forfeit the security deposit of a private undertaking, if compulsory works necessary for the supply of energy are not completed within a specified period.

The Government can even acquire a private electricity undertaking, if it habitually indulges in any omissions.

Provision is made for the inspection of electrical installations of the Central Government as well.

Inspectors appointed to investigate the causes of electrical accidents are also vested with additional powers.

SECOND PLAN SCHEMES

Public Sector

Scheme	Cost Rs. lakhs	Plan Provision (Rs. lakhs)	Benefits (000 kW)	
			Completion	Plan period
1	2	3	4	5
A NEW SCHEMES:				
Andhra				
Upper Sileru	928	350	120	..
Tungabhadra Right Bank Extn.—Nellore thermal (& Mysore)	770	200	57	..
Machkund Extn. (& Orissa)	210	210	21·25	21·25 (completed).
Assam				
Umiam H.E. Project	705	89·5	27	..
Bihar				
Barauni Steam Station	309	299	30	..
Bokaro Extension (DVC)	456	@	75	75
Chandrapura (DVC)	3,495	@	250	..

* Bilingual. @ Rs. 2,798 lakhs for both continuing and new schemes in 2nd Plan.

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SECOND PLAN SCHEMES—*Contd.*

Public Sector

Scheme	Cost Rs. lakhs	Plan Provision (Rs. lakhs)	Benefits (000 kW)	
			Completion	Plan period
1	2	3	4	5
Gujarat				
Rajkot Extension Scheme	60·83	34·8	3	3
Porbandar Steam Station	200	168	15	15
Sikka Steam Station	95	95	8	8
Shahpur Steam Station	100	60	10	..
South Gujarat Stage II (Uttran Power Station)	400	400	45	45
Jammu & Kashmir				
Ganderbal Power House	73	42	9	..
Mohora Power House	140	71	9	..
Kerala				
Panniar	324	280	30	..
Sholayar	432	262	54	..
Pamba	2,491	220	300	..
Madhya Pradesh				
Korba Thermal Station	1,204	1,148	90	90 (completed)
Amarkantak Thermal Stn.	1,063	493	60	..
Madras				
Kundah (Stage I & II)‡	3,544	2,000	180	145
Maharashtra				
Southern Grid Development	817	738	60	60
Mysore				
Sharavathy	3,660	1,300	178	..
Bhadra	380	82	33·2	..
Tungabhadra Left Bank Stage II	††	47·5	9	..
Orissa				
Hirakud Stage II	1,559	1,188	147	..
Rajasthan				
Jodhpur Power House	30	30	3	..
U.P.				
Yamuna Hydel (Stage I & II)	4,244	17·5	320	..
Ram Ganga Hydel Scheme	2,662	..	127	..
Harduaganj Ext. (Stage I)	764	62·83	60	..
Matatila Hydel Scheme	645	224	30	..
Kanpur Ext.	170	130	15	..
West Bengal				
Jaldhaka	445	194	18	..
Durgapur Thermal (D.V.C.)	1,250	@	150	150
B. CONTINUING SCHEMES :—				
Andhra				
Tungabhadra Right Bank Stage I (& Mysore)	6,000*	507	45	36
Kerala				
Neriamangalam	290	274	45	45
Madhya Pradesh				
Chambal Stage I (& Rajasthan)	6,360*	3,788	92	92
Maharashtra				
Koyna Stage I	3,775	2,900	240	..
Mysore				
Tungabhadra Left Bank Stage I (Munirabad Power Station)	642·9††	422·48	18	9
Punjab				
Bhakra Nangal (& Rajasthan)	18,000*	2,183	604	366
Uttar Pradesh				
Rihand	4,605†	2,600	250	..

* Total cost shown includes outlay on irrigation portion.
† Total cost shown includes Rs. 6·59 crores for distribution.
@ Rs. 2,798 lakhs for both continuing and new schemes in 2nd Plan.
†† Includes cost of stage II under new Schemes.
‡ Agreement reached with Government of Canada for collaboration in IIIrd Plan.

Private Sector

Name of Undertaking	Generating plant to be added (kW)	Cost of generating plant (Rs. lakhs)
Gujarat		
Ahmedabad Electricity Co. Ltd.	45,000	2,78
Bhavnagar Electric Supply Co. Ltd.	8,000	50
Maharashtra		
Tata Power System, Trombay	150,000	21,35
Uttar Pradesh		
Banaras Electric Light & Power Co.	6,000	39
Bareilly Electricity Co. Ltd.	4,000	22
Lucknow Electric Supply Co.	10,000	100
United Provinces Electric Supply Co. Ltd., Allahabad	6,000	
Total	2,23,000	23,26

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FINANCE

SOURCES OF REVENUE AND EXPENDITURE

THE principal sources of Central revenue are: customs duties, excise duties levied by the Central Government, corporation tax, income tax (excluding taxes on agricultural income), wealth tax, estate and succession duty, the earnings from the mints, terminal taxes on goods or passengers carried by railway, sea or air, taxes on railway fares and freights, taxes (other than stamp duty) on transactions in stock exchange and future markets, stamp duty on bills of exchange, cheques, bills of lading, letters of credit, insurance policies, transfer of shares, etc., taxes on sale and purchase of newspapers and on advertisements in newspapers.

The railways and the posts and telegraphs contribute to the Central revenues. There are also the profits on the Government industrial undertakings.

About as much as 90 per cent of the revenue is derived from the customs, excise duties, corporation and income-taxes.

The principal sources of revenue for the individual States are: State taxes (on agricultural income, lands and buildings, mineral rights, consumption or sale of electricity, sale or purchase of goods other than newspapers, advertisements other than in newspapers, goods and passengers carried by road or on inland water-ways, vehicles, animals, boats, tolls, professions, trades, luxuries, amusements), capitation taxes, stamp duties, excise duties on alcoholic liquors, opium and other narcotics.

A point about the Sales Tax is worth mentioning here. The Union has the power of declaring any commodity as essential for the life of the community and thereby vetoing any sales tax levied on it by a State Government. This power comes from the Essential Goods Act of 1952.

Then there are the subventions from the Central Government. Part of the proceeds of the income-tax are distributed among the States. The jute growing States get part of the proceeds from the export duty on jute. There are also special grants which are made to certain States.

Collection and appropriation of taxes are not always vested in the same authority. Some taxes are levied by the Central Government but collected and appropriated by the States (stamp duties, excise duties, duties on medicines and toilet preparations). Some are levied and collected by the Union but assigned to the States (succession and estate duties on property other than agricultural, terminal taxes on passengers, railway fares, freights, stock exchange, future markets, newspapers or advertisements). Corporation tax is collected and retained by the Union, but taxes on other incomes are levied and collected by the Union and distributed between the Union and States.

The two biggest items of expenditure of the Central Government are outlay on development programmes (capital account) and defence.

Three important heads of expenditure of the States under the revenue account are: irrigation, security and social services.

Then there is public debt which consists of rupee loans, sterling loans and loans received from other countries. The rupee debt may be divided into three classes, long term loans and money market liabilities, the unfunded debt which includes provident funds, postal deposits, saving certificates, and last the deposits.

The following table shows the budget estimates of the Government of India for 1961-62 as compared with the budget and revised estimates for 1960-61:

(In lakhs of rupees)

	Budget 1960-61	Revised 1960-61	Budget 1961-62
REVENUE			
Customs	162,50	163,00	164,00 + 29,27*
Union Excise Duties	379,61	394,98	406,24 + 28,60*
Corporation Tax	135,00	137,50	140,00 + 1,00*
Taxes on Income other than Corporation Tax	52,94	40,52	50,21 + 2,00*
Estate Duty	10	9	9
Taxes on Wealth	7,00	7,50	7,00
Taxes on Railway Fares	11	—12	..
Taxes on Expenditure	90	90	80
Gift Taxes	80	80	80
Opium	5,69	5,82	6,25
Interest	15,71	14,87	13,84
Administrative Services	84	99	97
Social and Developmental Services	52,35	51,46	47,00
Currency and Mint	57,22	57,85	60,63
Civil Works	3,04	3,38	3,75
Other Sources of Revenue	39,73	38,66	39,28
Posts and Telegraphs—Net Contribution to General Revenues	47	46	77
Railways—Net Contribution to General Revenues	5,64	5,06	21,29
Total Revenue	919,65	923,72	962,92 + 60,87*
EXPENDITURE			
Collection of Taxes, Duties and other Principal Revenues	32,81	32,20	30,46
Irrigation	17	13	15
Debt Services	74,59	72,35	81,90
Administrative Services	60,59	61,53	58,37
Social and Developmental Services	207,17	198,52	173,46
Currency and Mint	10,27	10,87	11,96
Civil Works and Miscellaneous Public Improvements	20,32	21,59	21,73
Pensions	10,11	10,33	10,41
Miscellaneous—			
Expenditure on Displaced Persons	20,28	20,28	11,28
Other Expenditure	111,70	107,07	42,75
Grants to States, etc.	51,81	51,87	210,93
States' Share of Union Excise Duties	74,52	75,10	76,33
Extraordinary Items	33,75	28,82	10,87
Defence Services (Net)	272,26	266,72	282,92
Total Expenditure	980,35	957,38	1,023,52
Deficit (—)	—60,70	— 33,66	— 60,60
Surplus (+)			+ 60,87*

* Effect of budget proposals.

HEADS OF REVENUE

Here are some heads of revenue not shown above or not shown separately (figures in lakhs of rupees):

Land revenue 58; State excise duties 1,85; Stamps 3,32; Forest 3,74; Registration 12; Taxes on Vehicles 55; Sales tax 5,32; Other Taxes and duties 2,58; Posts & Telegraphs (gross) 81,00; Administration of Justice 24; Jails and convict settlements 1; Police 72; Ports and Pilotage 33; Lighthouses and Lightships 81; Education 41; Medical 54; Public Health 14; Agriculture 1,65; Veterinary 25; Co-operation 5; Aviation 1,08; Broadcasting 3,15; Miscellaneous departments 3,83; Currency 46,04; Mint 14,59; Receipts in aid of Superannuation 60; Stationery & Printing 65; Extraordinary receipts 10,00.

HEADS OF EXPENDITURE

Here are some heads of expenditure not shown in the table alongside or not shown separately (figures in lakhs of rupees):

Civil works 20,62; Multi-purpose river schemes 84; Territorial & Political pensions 24; Privy purses and allowances to Indian rulers 5,45; Superannuation allowances & pensions 4,72; Army 184,13; Navy 19,34; Air Force 61,06; Defence Services (non-effective) 18,39; Grants-in-aid to States 208,09; Miscellaneous adjustments between Union and State Governments 22; Extraordinary charges 10,55; Pre-partition payments 32.

DEMANDS FOR GRANTS

Below are some Demands for Grants and Appropriations (gross) met from revenue (figures are in lakhs of rupees):

Posts and Telegraphs Department 74,93; Meteorology 2,00; Overseas Communications Service 1,85; Aviation 6,56; Archaelogy 1,33; Education 17,21; Tribal areas 14,50; External Affairs 12,25; Territorial and Political Pensions 24; Forest 96; Agriculture 11,64; Civil Veterinary Services 1,08; Medical Services 10,80; Cabinet 37; Police 17,10; Census 3,34; Andaman and Nicobars 2,98; Broadcasting 5,61; Survey of India 1,98; Botanical Survey 25; Zoological Survey 17; Scientific Research 20,06; Lighthouses and Lightships 1,51; Central Road Fund 4,36; Communications (including national highways) 6,52; Stationery and Printing 8,94; Parliament 1,39; Staff, Household and Allowances of President 27; Union Public Service Commission 47.

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CAPITAL TRANSACTIONS

Receipts are as follows (in lakhs of rupees):

	Revised 1960-61	Budget 1961-62
New Loans	523,84	620,95
Net Receipts from :		
Treasury Bills	— 35,00	125,00
Treasury Savings Deposit Certificates	13,00	8,50
Post Office Savings Bank	35,00	35,50
12-Year National Plan Saving Certificates	70,50	76,00
Cumulative Time Deposits	1,75	2,45
Post Office Cash Certificates	— 67	— 55
National Savings Certificates	— 19,09	— 16,88
Defence Savings Certificates	— 2	— 2
National Plan Certificates	— 1,05	— 1,00
Other Unfunded Debt	40,54	39,69
Railway Depreciation Fund, Revenue Reserve Fund (Railways), Railway Development Fund	— 33,52	4,08
Telephone Development Fund	— 35	— 20
P. & T. Renewals Reserve Fund	5,71	5,03
Other Miscellaneous Reserve Funds	61	60
Appropriations for Reduction or Avoidance of Debt	5,00	5,00
Income-tax Deposits (net)	— 9	— 44
Discount Sinking Fund (net)	1,21	1,91
Payment by Reserve Bank for Rupee Coin	5,00	5,00
Repayment of Loans by States	106,54	121,48
Other Loan Repayments	27,99	54,50
Other Deposits and Advances (net)	139,45	127,75
15-Year Annuity Certificates	80	1,50
Special Floating Loan	3,45	3,45
Total	11,30,60	13,15,30
Deficit on Capital Account	—	—
	11,30,60	13,15,30

Disbursements are as follows (in lakhs of rupees):

	Revised 1960-61	Budget 1961-62
Capital Outlay :—		
Railways	123,62	160,00
Irrigation	31	37
Posts & Telegraphs	12,05	12,59
Schemes of Agricultural Improvement and Research	5,86	7,73
Industrial Development	98,70	107,15
Aviation	4,59	4,36
Broadcasting	1,00	3,00
Ports	1,66	2,38
Currency & Coinage	7,10	7,82
Mint	12	7
New Capital at Delhi	6,95	12,30
Multi-purpose River Schemes	1,09	3,35
Electricity Schemes	83	95
Civil Works	34,10	39,87
Commutation of Pensions	— 26	58
Sterling Pensions	— 3,62	— 3,66
Defence Capital Outlay	36,25	32,01
Development Grants	56,81	27,06
Displaced Persons	12,47	13,22
Dandakaranya Development Scheme	—84	1,50
Shipping, Tankers	5,68	5,40
Transfer of Development Assistance from U.S. Government	30	1,75
Other Works	76,38	74,70
Other Civil Heads	66	94
Discharge of Permanent Debt	126,36	164,38
Discharge of Special Floating Debt	3,43	3,43
Advance to State Governments	334,60	395,18
Other Loans and Advances	159,23	161,25
Inter-State Debt Settlement	—	1,79
Road and Water Transport Schemes	24	40
Indus Water Treaty	8,27	7,72
Total	11,16,22	12,54,90
Surplus on Capital Account	14,38	60,40
	11,30,60	13,15,30

SPECIFIC ALLOTMENTS

The following specific allotments for 1961-62 may be noted (figures in lakhs of rupees):

Council of Scientific and Industrial Research	3,10·00
Salt Works	8·50
Hindustan Shipyard Ltd.	1,20·38
Indian Refineries Ltd.	4,00·00
Overseas Communications Service	32·94
Eastern Shipping Corporation*	2,00·00
Air Corporation (Indian Air Lines)	1,87·00
Air Corporation (Air India International)	2,05·00
Purchase of shares of Hindusthan Teleprinters Ltd.	50·00
Investment in Hindustan Organic Chemicals Ltd.	65·00
Nuclear Power Station	45·00
Thorium Uranium Plant	0·50
Investment in Hindusthan Photo Film Manufacturing Co., Ltd.	65·00
Acquisition of Land for Atomic Energy Establishment	69·00
Canada-India Reactor	15·53
Buildings for the Atomic Energy Establishment	288·11
"Zerlina" Reactor	3·00
Hindustan Salt Ltd.	55·00
Other Development Expenditure of Atomic Energy Establishment	86·96
Purchase of shares of Drugs Corporation	60·00
Heavy Structurals Project	10·00
Purchase of Shares of Hindustan Machine Tools Ltd.	70·00
Hindustan Heavy Engineering Corporation	20,00·00
Equipment for School of Mines and Applied Geology	3·50
Investment in British India Corporation.	51·00
Bolani Ores (Private) Ltd.	5·05
Purchase of Shares of the Indian Oil Company	150·00
Oil India Ltd.	142·00
Purchase of Shares of N.I.D.C.	45·00
National Coal Development Corporation	9,00·00
Rehabilitation Industrial Corporation	25·00
Oil and Natural Gas Commission	21,50·00
Mysore Iron & Steel Corporation	25·00
Institute of Small-scale Industries	23·92
Purchase of Shares of National Mineral Development Corporation	1,75·00
Hindustan Housing factory	0·01
Establishment of Second Shipyard	60·00
Purchase of Shares in Neyveli Lignite Corporation	22,00·00
Heavy Plates and Vessels Project.	10·00
Purchase of Shares in Heavy Electricals (P.) Ltd.	1,00·00
Western Shipping Corporation*	2,50·00

DEBT POSITION

(In crores of rupees)

The total outstanding public debt is expected to amount to Rs. 5,554·09 crores at the end of March 1962, as against Rs. 4,970·85 crores at the end of March 1961; it was not more than Rs. 949·77 crores at the end of 1938-39. Out of the estimated total of Rs. 5,554·09 crores at the end of 31st March 1962, rupee loans will account for Rs. 4,348·80 crores, as against Rs. 4,124·63 crores towards the close of 1960-61, sterling loans for Rs. 141·40 crores, as against Rs. 143·15 crores, and "other loans" for Rs. 1,063·89 crores, as against Rs. 703·07 crores. The item "other loans" includes the following, figures in brackets representing the position at the end of March 1961.

U.S. 446·81 (316·36); U.S. Eximp Bank 83·33 (35·73); World Bank 167·76 (155·24); Canada 11·83 (14·07); U.S.S.R. 88·30 (61·53); West Germany 108·21 (108·17); Japan 25·62 (11·97); Czechoslovakia 1·03; Poland 4·00; Yugoslavia 4·00; Switzerland 3·00; loans to be negotiated 120·00.

Excluding the war contribution, the liability in respect of which remains suspended, the total outstanding debt, which stood at Rs. 4,950 crores at the end of 1960-61, will increase to Rs. 5,533 crores at the end of 1961-62.

In addition, the Government is liable to repay the investments of the deposits of the P.L. 480 counterpart funds, the balances in the various provident funds, the post office savings bank, the post office cash, national savings, national plan, national plan savings, and treasury savings deposit certificates, deposits under the cumulative time deposits scheme, the depreciation and reserve funds of the Railways, Posts and Telegraphs, etc., and certain other deposits, mainly relating to deposits of income-tax, super-tax, etc. These balances amounted to about Rs. 1,620 crores at the end of 1960-61 and are expected to be higher at Rs. 1,869 crores at the end of 1961-62.

* It is reported that the Govt. of India has decided to amalgamate the Eastern Shipping Corporation and the Western Shipping Corporation to form the "Shipping Corporation of India Ltd."

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This outstanding debt is analysed with reference to the purpose on which the money has been utilised or the assets by which it is covered. An analysis is given below :

(In round crores of rupees)

	As on 31st March	
	1961	1962
Railways	1,556	1,716
Posts and Telegraphs and other commercial departments (including Damodar Valley Corporation)	220	244
Investment in commercial concerns (Industrial Development) ..	621	728
Loans and advances to States and others ..	2,521	2,902
Amounts recoverable from the U.K. and the States on account of purchase of annuities for sterling pensions	19	19
Subscription to the International Monetary Fund	282	282
Purchase of shares of the I.B.R.D.	37	37
Subscription to the International Development Association	4	8
Debt due from Pakistan	300	300
Cash and other investments	54	52
Total ..	5,614	6,288

Allowing for these, the uncovered debt will amount to Rs. 1,114 crores at the end of the budget year 1961-62, as against the pre-war figure of Rs. 188 crores.

INTEREST-BEARING OBLIGATIONS AND INTEREST-YIELDING ASSETS

The aggregate interest-bearing obligations of the Government of India are expected to rise from Rs. 6,280·60 crores at the end of March 1961 to Rs. 7,110·13 crores as on 31st March 1962. As against the rise of Rs. 829·53 crores thus, the interest-yielding assets are expected to increase only by Rs. 636·31 crores, that is from Rs. 5,089·65 crores to Rs. 5,725·96 crores, so that the total of interest-bearing obligations not covered by assets at the end of March 1962 will be higher at Rs. 1,311·30 crores, as against Rs. 1,116·41 crores on 31st March 1961. The details of the assets are given below :

(In crores of rupees)

	At the end of		
	1938-39 (Pre-war year)	1960-61 (Revised)	1961-62 (Budget)
Capital advanced to Railways	725·24	1,555·90	1,715·90
Capital advanced to other commercial departments (including Damodar Valley Corporation)	27·42	219·69	243·76
Investment in commercial concerns (industrial development)	—	473·35	545·75
Capital advanced to States	123·28	1,905·69	2,179·39
Other interest-bearing loans	20·71	615·59	722·34
Amount recoverable from the U.K. and the States on account of purchase of annuities for sterling pensions	—	19·43	18·82
Debt due from Pakistan	—	300·00	300·00
Total—Interest-yielding Assets ..	896·65	5,089·65	5,725·96
Cash and securities held on Treasury account ..	30·30	54·01	52·34
Balance of total interest-bearing obligations not covered by above assets	274·63	1,116·41	1,311·30

CENTRAL HELP TO STATES

The following allotments to States are provided for in the 1961-62 budget (figures in lakhs of rupees) :

Share of taxes and duties : 160,03

Grants and subventions from revenue : 209,33

Grants and subventions from capital : 17,16

Loans : 409,22

Grand total of allotments to States : 800,95.

Important Lump sum grants to States are as follows (figures in lakhs of rupees) :

Substantive provision of Article 275 (1) of Constitution 39,50; provisos to Article 275(1) 5,30; Agricultural production 9,83 ; Community Development 16,40 ; National Extension Service 1,73 ; Education Schemes 24,11 ; Scientific and technical education 5,05 ; National malaria eradication 7,25 ; Welfare of backward classes 4,10 ; National employment service and training 5,97 ; development of handloom industries 2,90 ; rehabilitation of displaced persons 3,81 ; relief of displaced persons 3,81 ; natural calamities 6,00 ; Grant in lieu of Tax on Railway Fares 12,47.

Lump sum loans as follows :

Irrigation and multipurpose river schemes 72,39 ; Miscellaneous Development 85,05 ; Agricultural Production, animal husbandry, etc. 60,00 ; Rehabilitation 3,27 ; Industrial Housing 14,91 ; Permanent improvement in scarcity areas 25 ; Natural Calamities 2,00 ; Handloom and Small-scale Industries 6,14 ; Flood Control schemes 9,00 ; Urban water supply scheme 8,00 ; sharing of small savings 80,00 ; Other loans 51,71 ; Total loans 409,22.

ALLOTMENTS BY CENTRE STATE-WISE (1961-62)

The following table shows State-wise distribution of income-tax, etc. (figures in lakhs of rupees) :

	Income-tax	Union Excise duties	Additional Excise duties	Estate Duty	Tax on Railway Passenger Fares
Andhra Pradesh	6,53	3,38	2,89	26	1,10
Assam	1,97	1,25	1,04	7	34
Bihar	8,03	3,83	1,93	30	1,17
Maharashtra	8,56	2,93	7,27	26	1,35
Kerala	2,94	1,39	1,17	12	23
Madhya Pradesh	5,43	2,70	2,08	21	1,04
Madras	6,82	2,76	3,42	30	81
Mysore	4,15	2,36	1,37	17	55
Orissa	3,01	1,62	1,06	11	22
Punjab	3,43	1,66	2,20	13	1,01
Rajasthan	3,30	1,71	1,22	13	84
U.P.	13,32	5,78	6,86	49	2,34
W. Bengal	8,14	2,75	3,38	20	79
Jammu & Kashmir	91	63	50	3	..
Gujarat	4,35	1,49	3,70	13	68

TAX CHANGES

The following are the new tax proposals* :

DIRECT TAXATION

Income-tax and Super-tax

Rates of Tax for financial year 1961-62 :

1. *Non-company assessees :* It is proposed that the rates of income-tax and super-tax in force for the financial year 1960-61 be continued for the financial year 1961-62 except that the rate of surcharge payable in respect of earned income exceeding Rs. 1 lakh be increased from 5 per cent to 10 per cent of the income-tax and super-tax.

So far as companies are concerned, see under Company Tax.

Amendments to the Indian Income-tax Act, 1922 :

1. *Sports associations etc., :* It is proposed to exempt from payment of tax the income of an association or institution established in India solely for the purpose of controlling, supervising, regulating or encouraging in India the games of cricket, hockey, football, tennis and such other games and sports as may be specified by the Central Government from time to time in the official *Gazette*, provided the association or institution is approved by the Central Government for this purpose and satisfies certain specified conditions.

* Concessions were announced subsequently.

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2. *Foreign technicians :* At present, a foreign technician whose contract of service has been approved by the Central Government before the commencement of his service in India is exempt from tax in respect of salaries received by him for the financial year of his arrival in India and the two subsequent financial years. Depending on the time of his arrival in India, the exemption can thus apply for a period of 24 to 36 months. It is proposed that the exemption be available for a period of 36 months from the date of arrival in all such cases and also that if for a further period not exceeding 24 months, the tax in respect of his salary is paid to the Central Government by his employer, such tax shall not be treated as a part of the technician's total income.

3. *New residential buildings :* In respect of new buildings constructed after the 31st of March 1961 for being let out to tenants, it is proposed that the annual value of each residential unit comprised in the building should be reduced by the amount of the annual value or Rs. 600, whichever is less, for a period of three years from the completion of the building.

4. *Residential quarters built for low-paid employees :* It is proposed to allow an initial depreciation allowance of 20 per cent of the actual cost in respect of buildings erected by an employer after the 31st March 1961 solely for the residence of persons employed by him and receiving remuneration not exceeding Rs. 200 per month. This allowance will be admissible in respect of the previous year in which a building is erected. It will not be taken into account for determining the written down value though it will be taken into account for seeing that the aggregate of all depreciation allowances in respect of any building does not exceed the original cost of the building.

5. *Development rebate :* It is proposed that in respect of new plant or machinery installed on or after the 1st of April 1961, the development rebate shall be admissible at the reduced rate of 20 per cent of the actual cost thereof. New ships acquired on or after the said date will, however, continue to get the development rebate at the same rate as heretobefore, *i.e.*, 40 per cent.

It is further proposed that where, subject to certain conditions, a company is amalgamated with another company or where a firm is converted into a private company and machinery or plant on which development rebate is admissible to the predecessor is transferred by the predecessor to the successor, the development rebate already allowed to the predecessor will not be withdrawn and any unutilised portion of the development rebate will be available to the successor. The rights, liabilities and obligations of the predecessor in respect of such development rebate have thus been transferred to the successor.

6. *Appropriations to reserves in the case of a financial corporation :* At present, any amount appropriated to a reserve account is not admissible as a deduction while computing the taxable profits. It is now proposed that in the case of an approved financial corporation engaged in providing longterm finance for financial development in India, an amount not exceeding 10 per cent of the total income may be allowed as a deduction if appropriated to a special reserve account. No such deduction will be allowed when the aggregate of the amounts carried to the reserve account from time to time equals the paid-up capital of the institution. For this purpose, amounts capitalised from reserves will be excluded from the paid-up capital.

7. *Entertainment expenses :* It is proposed to provide that no allowance on account of entertainment expenses will be made in the case of an assessee other than a company and that in the case of companies, the amount allowable on this account will be restricted to certain specified limits depending upon the amount of profits of the business. In effect, no company will be allowed a deduction of an amount exceeding Rs. 1,00,000 on this account.

8. *Tax holiday for new hotels :* It is proposed that the benefit of the five year tax holiday at present enjoyed by new industrial undertakings under Section 15C of the Income-tax Act be extended to new hotels run by companies and which start functioning on or after 1st April, 1961, and satisfy certain conditions. The exemption will be available for the previous year in which the hotel starts functioning and the following four previous years. Dividends paid out of such exempt profits will also be exempt in the hands of shareholders.

Other Amendments to Income-tax Act

A few other amendments have also been proposed in the Income-tax Act. The purpose underlying these amendments is explained in the Notes on Clauses appended to the Finance Bill.

INDIRECT TAXATION

Customs

The proposals in the finance Bill 1961 include the raising of the rates of duty on 41 items and sub-items of the Tariff. Some changes have also been proposed consequential on the imposition of Central Excise duties on certain articles. A countervailing duty equal to the excise duty is being imposed on each of these articles, so that the indigenous producers may not be placed at a disadvantage in comparison with the importers.

The total additional revenue per annum as a result of all the increases in customs duty proposed in the Finance Bill (leaving out countervailing duties) is expected to be about Rs. 16·57 crores. This would be increased by about Rs. 2·38 crores as a result of the modification of the existing concessional rates of duty on newsprint and certain items of machinery and component parts. As against this should be set off a loss of about Rs. 2 crores per annum as a result of the reduction of export duty on tea. The additional revenue from countervailing duties (on existing as well as new excises) would be about Rs. 12·32 crores per annum. The net additional revenue taking all the proposals into account is expected to be about Rs. 29·27 crores per annum.

Betelnuts : The existing duty is increased by 80 nP per kilogram. Additional revenue estimated at Rs. 57 lakhs.

Unmanufactured tobacco : Existing duty stepped up by about 50 per cent. Likely yield Rs. 89 lakhs.

Certain textile manufactures : Existing *ad valorem* duty raised to 100 per cent. Additional revenue expected is Rs. 68 lakhs.

Iron and steel manufactures : Existing *ad valorem* duty increased to 50 per cent. Extra annual yield approximately Rs. 1 crore.

Machinery and components : Twofold proposal: (1) The statutory rate of *ad valorem* duty raised by five per cent except in regard to items on which there is a commitment under the G.A.T.T. (2) The concessional rate of *ad valorem* duty at present applicable to certain types of machinery exempted under executive notification to be raised by five per cent. Additional revenue estimated at Rs. 7·76 crores.

Spirits, wines and malt : Duty increased. *Hops :* Duty imposed. A revenue of Rs. 24 lakhs is expected from both the items.

Electrical and other instruments, apparatus and appliances (not otherwise specified): The existing *ad valorem* duty is to be raised by an addition of ten per cent. *Railway material* (For permanent way and rolling stock and their components): The existing *ad valorem* duty is to be raised by five per cent. Estimated yield from these two changes is Rs. 1·48 crores.

The *ad valorem* duty on the residuary item of "all other articles not otherwise specified" falling under entry 87 of the Tariff schedule is to be raised by 10 per cent. Additional yield expected is Rs. 2·43 crores.

Newsprint : The existing duty is to be raised to about 10 per cent *ad valorem*. Estimated yield Rs. 38 lakhs.

Tea : Export duty is to be reduced by 9 nP. per kilogram, *i.e.* about 17 per cent. Loss in revenue Rs. 2 crores.

CENTRAL EXCISES

Changes made in the existing rates of duty in respect of fourteen commodities. Duty imposed on eighteen new commodities.

Tea : Duty on loose tea increased by 3 nP. per kilogram. The rate on package tea is being reduced by 6 nP. per kilogram. Yield expected Rs. 1·98 crore.

Coffee : Rate of duty increased by about 33 per cent bringing in Rs. 38 lakhs.

Tobacco : In order to discourage lower rated tobacco being used as a substitute for tobacco bearing a higher rate, it is necessary to narrow the difference between the two rates. It is also necessary to step up the duty on stalks. The structure of duty on air and flue-cured tobacco and on cigarettes and on cigars and cheroots is being simplified. These changes will yield an additional revenue of Rs. 2·58 crores.

Superior kerosene : Duty increased by about 46 per cent, raising the incidence of duty to Rs. 95·55 per kilo litre. This, with the existing additional duty of Rs. 4·45 will mean a total duty of Rs. 100 per kilolitre. Additional revenue Rs. 2·84 crores. Inferior kerosene is being exempt from this increase.

Diesel : Diesel oil not otherwise specified will have its duty increased by Rs. 28·15 per metric tonne. Expected revenue is Rs. 1·33 crores.

Rayon : The duty on all categories of yarn and on staple fibre is being stepped up by about two-thirds. Additional revenue expected is Rs. 1·69 crores.

Vegetable product : The duty is being increased by Rs. 2·80 per quintal, that is 100 kilograms. Additional revenue expected Rs. 80 lakhs.

Paints and varnishes : Duty raised by about 25 per cent.

Paper and Paper-boards : Duty raised by 36 to 59 per cent. No increase in the duty on printing and writing paper. Additional revenue from the above two items estimated at Rs. 2·67 crores.

Cotton fabrics : Basic duty on medium 'A' grey fabrics is to be raised by 25 per cent. The excise levy on processed cloth is also being increased by small amounts. Expected yield Rs. 4·72 crores.

The concession now given to small units has led to abuses and difficulties in administration. To remedy this, full exemption will be admissible only to such units which do not employ more than two looms in respect of cotton, rayon and silk fabrics and one loom in respect of woollen fabrics. The slab rates of compounded levy are also being suitably adjusted.

Matches : It is proposed to make certain changes in the pattern of duty on matches. The ceiling rate is to be revised from 57 nP. per 1,000 sticks to 65 nP. per 1,000 sticks. The rates of duty on standard boxes of 50 will be kept almost at the present level. The increased rate will affect matches packed in non-standard boxes only. At the same time, as a measure of encouragement to the cottage sector which uses bamboo for making splints, the concessional rates are being further liberalised. These proposals are not likely to result in any appreciable change in revenue.

Cycle rims : In order to help smaller units producing cycle rims, it is proposed to grant certain concessions. They will get a relief to the extent of Rs. 10 lakhs.

Chemicals : A small specific duty will be levied on soda ash, caustic soda and glycerine. A duty of 15 per cent *ad valorem* will be levied on coal-tar dyes, 10 per cent on patent or proprietary medicines not containing alcohol and 25 per cent on certain articles of cosmetic and toilet preparations. All these items are expected to fetch Rs. 1·8 crores.

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It is proposed to levy a duty of 20 per cent *ad valorem* on cellophane and on plastic powders and other semi-finished plastic material. Revenue expected Rs. 50 lakhs.

Cotton and woollen yarn (mill-made): A small specific duty is to be levied. Part of the duty is expected to be absorbed in the cost of manufacture. Hosiery and certain other fabrics which do not now bear any duty will be brought within the excise duty net. Revenue yield Rs. 5·55 crores.

Glass, glassware, china, porcelainware, crockery: It is proposed to levy an *ad valorem* duty from five to 15 per cent. There will be a lower rate of duty for laboratory glassware. Revenue estimated at Rs. 1·60 crores.

Copper and zinc: A duty of Rs. 300 per metric tonne on sheets and circles and 10 per cent *ad valorem* on pipes and tubes will be levied. Aluminium pipes and tubes will be brought in line. Estimated yield Rs. 80 lakhs.

Wireless receiving sets, air-conditioning machinery and refrigerators: Twenty per cent duty proposed on air-conditioning machinery and refrigerators. A ceiling rate of 20 per cent *ad valorem* is proposed for wireless receiving sets valued more than Rs. 300 each and concessional rates for cheaper sets. Those valued up to Rs. 150 each will be completely exempt. Revenue yield Rs. 83 lakhs.

Mill-made silk fabrics: An additional excise duty will be levied in lieu of sales tax levied by States. The States have agreed to this proposal.

PRIZE BONDS

The Government of India's decision to issue Prize Bonds, 1965, came into effect from 1st April 1960. The following are the details of the issue :—

The bonds will be due for repayment on 1st April 1965. The bonds are in the form of bearer bonds of the denominations of Rs. 100 and Rs. 5 and do not bear interest but lots are drawn quarterly for prizes on the first June, first September, first December and first March every year, the first draw was held on first September 1960 and the last draw will be held on first March 1965. Lots are drawn under the supervision of the Government of India, separately in respect of each series.

The total number of prizes offered to the holders of winning bonds each quarter is 40 of the aggregate value of Rs. 92,000 and 278 of the aggregate value of Rs. 46,000 in respect of each series of Rs. 100 and Rs. 5, respectively. Each series of Rs. 100 is for Rs. 1 crore (*i.e.* one lakh bonds of Rs. 100 each) and each series of Rs. 5 bonds is for Rs. 50 lakhs (*i.e.* ten lakh bonds of Rs. 5 each). Each bond sold is eligible for participation in all the draws held after the expiry of two calendar months from the month of its sales. All bonds pertaining to a series for which any bonds have been sold will participate in the draw but no prizes will be awarded for unsold bonds or bonds sold within two calendar months immediately preceding the month of the draw.

The number and amount of prizes in each series are as follows :—

Each Series of Rs. 100 Bonds	Rs.
One prize of Rs. 25,000	25,000
Two prizes of Rs. 10,000	20,000
Five prizes of Rs. 5,000	25,000
Twelve prizes of Rs. 1,000	12,000
Twenty prizes of Rs. 500	10,000
Total amount of prize money quarterly, in each series of one lakh pieces	92,000

Each Series of Rs. 5 Bonds	
One prize of Rs. 7,500	7,500
Two prizes of Rs. 2,500	5,000
Ten prizes of Rs. 1,000	10,000
Twenty prizes of Rs. 500	10,000
Twenty-five prizes of Rs. 100 ..	2,500
Two hundred and twenty prizes of Rs. 50	11,000
Total amount of prize money quarterly, in each series of ten lakh pieces	46,000

The prize money is free of income-tax and payment thereof is made in cash. The holder of a prize winning bond may present his claim *together with the bond* at any time after the date of the relative draw at any of the following offices :—(1) The offices of the Reserve Bank of India, Bombay, Calcutta, New Delhi, Madras, Bangalore and Nagpur; (2) Branches of the State Bank of India, State Bank of Hyderabad and State Bank of Mysore conducting Government Treasury business; (3) Treasuries and sub-treasuries in India other than those at any place referred to in item (2); (4) All head post offices. The prize money is paid to him at the office at which he has presented the bond after the claim has been admitted by the Reserve Bank of India.

TAX CONCESSIONS

Replying to the budget debate in the Lok Sabha on 17th March 1961, the Finance Minister announced the following concessions:

Superior Kerosene: The effective incidence of the increase in the excise duty on kerosene is cut by 50 per cent.

Powerlooms: The incidence of excise levies on small powerloom units will also be cut by 50 per cent. Mr. Desai announced that steps would be taken to reduce by 50 per cent the incidence of compounded levy on units of three or four powerlooms and to introduce a rational slab system generally for small units so as to avoid a sharp increase in the burden of duty at the stage of transition.

Yarns: Yarns of counts one to ten would be exempted from the new levy. The exemption is meant to facilitate the production of coarse cloth as well as cotton carpets woven on hand-loom.

Wool: In respect of woollen carpets, a large part of which are exported, there would be a full drawback of the duty on wool.

Plastics, glass and glassware: The proposed excise levy (5 to 15 per cent *ad valorem*) will be applied at only one stage—at the stage of powder, granule or flake in the case of plastics, and sheet and tubes in the case of glass. Other items made from duty-paid materials will be exempted.

Subsequently, on 19th April 1961, the Finance Minister announced the following adjustments in direct taxation and tax reliefs in indirect taxes:

Direct taxation: The tax on the dividends received by a foreign company from a non-subsidiary Indian company formed during the period 1st April 1959 to 31st March 1961 is reduced from 53 per cent to 40 per cent, which is the same as that in respect of a similar company formed after 1st April 1961. The concession has been given restrospective effect covering the period 1959-61. The proposal for specifying certain limits for entertainment expenditure allowance in respect of non-company assessees has been withdrawn. The taxable limit for entertainment allowance will, however, continue.

Indirect taxation: Coffee: The excise duty on robusta and Liberia varieties of coffee has been reduced to the original level of Rs. 41·35 per quintal.

Powerlooms: All powerloom units with three or four looms manufacturing cotton, rayon or silk fabrics are given complete exemption of excise duty payment provided they work only one shift.

Cotton mill cloth: The first 70 per cent of the production of automatic looms is exempted from the surcharge of 25 per cent and, out of the remaining 30 per cent output, any portion of the cloth exported will be entitled to refund of surcharge.

Cotton yarn: The calculation of duty on yarn woven into fabric in composite mills is to be simplified by the proposed introduction of a compounded system of levy under which a manufacturer will be enabled to pay duty on yarn, together with the existing duty on fabrics at the rate of 1·2 nP. per square metre.

Art silk yarns: The basic rates of import duty on art silk yarns has been reduced from Rs. 5·10 per kg. to Rs. 4·45 for yarns below 75 deniers, from Rs. 3·70 to Rs. 3·15 for 75 to 100 deniers, and from Rs. 3·10 to Rs. 2·75 for yarns above 100 deniers. The countervailing import duty rates, however, continue at the levels mentioned in the Finance Bill, the actual rates per kg. on the aforesaid three denier groups being Rs. 3·00, Rs. 2·25 and Re. 1·50, respectively.

Woollen yarn: Provision has been made for alternative specific rates of duty for all yarns. The actual rates per kg. will be Rs. 2·10 for worsted yarn of 60 counts and above, Re. 1·60 for yarns below 60 counts and 40 nP. for other worsted yarns. The duty on nylon twine (used for fishing nets) imported by fishermen's co-operative societies has been cut from 100 to 50 per cent, subject to the condition that the import is recommended by the Director of Fisheries.

Newsprint: Import duty per quintal is reduced from Rs. 7·50 to Rs. 5 on unglazed or machine finished newsprint imported in reels, from Rs. 9 to Rs. 5·50 on other sorts and from Rs. 10·30 to Rs. 4·10 (original rate) on sheet newsprint for small newspapers.

Metals: It has been decided to exempt by 25 per cent the duty charged on copper and brass sheets, circles, etc., which are issued out from rolling mills without trimming and cutting. The corresponding concession in the case of bronze sheets and circles will be 20 per cent. Exemption is also given in respect of strips of copper and copper alloys used for making zari, stars and spangles. Further, strips and files recovered from scraps of copper alloy and used for making anklets, trinkets, etc., used by the poorer people as ornaments are also being exempted from duty.

Glass and glassware: Factories employing not more than 20 workers and not using power are given exemption from duty in the case of glassware manufacturers who utilise broken glass as raw material; in the case of chinaware and porcelain, the limit is 15 workers.

Refrigerators: The duty on refrigerators used for cold storage depots and food preservation, as well as that on air-conditioning machinery used not for comfort but for food preservation, is abolished. The countervailing duty paid at the time of import of compressors will be allowed when used in refrigerators produced in India.

Cosmetics and toilet preparations: The limit of concession in the case of small manufacturers has been increased from 50 kg. to 75 kg. per month.

Medicines: Clinical samples for laboratories and hospitals are exempted from payment of import duty upto a maximum limit of 5 per cent of the total duty-paid clearance.

Plastic moulding powders: Powders manufactured from scraps of plastics are exempted from tax payment.

All these tax concessions and adjustments are estimated to yield a total relief in taxes to the tune of Rs. 6·14 crores. As a result of this relief, the total proceeds (Rs. 63·17 crores, including the States' share of Rs. 2·30 crores) from additional tax proposals originally made in the 1961-62 budget are now placed lower at Rs. 57·03 crores.

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EXCISE

The following are the details of revenue from Union excise duties in lakhs of rupees :—

Basic Excise Duties.	1959-60 Accounts	1960-61 Budget	1960-61 Revised	1961-62 Budget
Motor Spirit	35,40	38,75	38,75	39,10
Kerosene	6,81	6,35	7,65	8,50
Sugar	50,00	46,40	45,40	46,20
Matches	17,96	18,00	17,80	18,00
Steel Ingots	10,34	12,00	12,20	12,50
Tyres and Tubes	10,44	10,56	12,50	13,50
Tobacco	50,89	43,47	48,10	49,35
Vegetable Products	5,49	5,25	5,00	5,25
Coffee	1,46	1,35	1,35	1,35
Tea	7,74	7,65	7,65	7,65
Cotton Cloth	46,75	43,68	37,85	38,00
Artificial Silk	2,07	1,88	1,89	1,90
Cement	16,76	17,50	17,50	17,50
Footwear	1,16	1,35	1,50	1,60
Soap	2,10	2,05	2,05	2,10
Woollen Fabrics	75	62	62	62
Electric Fans	72	78	1,10	1,10
Electric Bulbs	40	48	70	70
Electric Batteries	1,16	1,54	1,70	1,70
Paper	7,97	7,92	8,25	8,80
Paints and Varnishes	1,37	1,30	1,40	1,40
Vegetable non-essential oils	13,35	13,09	12,25	12,50
Refined Diesel Oils and Vapourising Oils	24,40	29,04	38,00	40,00
Industrial Fuel Oils— Diesel Oil, Furnace Oil	11,91	8,00	9,50	10,50
Rayon and Synthetic Fibres and Yarn	2,02	2,30	2,70	2,70
Motor Cars	63	6,27	9,50	10,00
Coal Cess	3,16	3,75	3,75	5,43
Cess on Copra	10	10	10	10
Cess on Oils and Oil-seeds	54	30	25	25
Asphalt and Bitumen	..	3,00	3,00	3,00
Salt Cess	..	85	82	79
Miscellaneous	4,72	51	51	51
Aluminium	9	73	1,10	1,10
Tinplate	..	2,08	1,20	1,20
Pig Iron	8	60	1,00	1,00
Silk Fabrics	6	30	5	5
Cycles and parts thereof	6	99	1,25	1,25
Internal Combustion Engines	4	1,06	1,35	1,35
Electric Motors	4	44	75	75
Cinematograph Films	3	75	75	75
Total Gross Revenue	3,39,07	3,43,31	3,58,79	3,70,05
Deduct—Refunds and Drawbacks	— 6,74	— 4,50	—4,50	—4,50
Total Net Revenue	3,32,33	3,38,81	3,54,29	3,65,55
Additional Excise Duties				
Sugar	8,25	12,90	12,90	12,90
Textiles	14,89	21,00	19,96	19,96
Tobacco	5,18	7,30	7,83	7,83
Total	28,32	41,20	40,69	40,69
Grand Total—Union Excise Duties	3,60,65	3,80,01	3,94,98	4,06,24

CUSTOMS

The import tariff is cast in the form of a commodity schedule with broad distinctions indicating the treatment to be accorded to various classes of articles. The general rate of import duty is now about 40 per cent. On certain non-essential items where it is felt that the consumer can well pay a higher rate or where there is sufficient indigenous production to meet the country's needs, higher rates of duty are imposed.

The trend of revenue from customs is given below :—

Year	(Rs. in lakhs)
1956-57	173,23
1957-58	179,99
1958-59	138,29
1959-60 (Revised)	160,00
1960-61 (Budget)	162,50
1960-61 (Revised)	163,00
1961-62 (Budget)	164,00+29,27*

* Effect of Budget proposals.

INCOME-TAX

Income-tax is levied now not only on income as ordinarily understood but also on certain capital receipts which have been included in a special definition of "income." Tax at the rate fixed for the year of assessment is charged on the income of the "previous year." Both income-tax and super-tax are levied according to the slab system.

The more recent trend of collections is given below :—

1956-57 (Accounts)	Rs.	202·92	crores
1957-58 (Accounts)	,,	219·83	,,
1958-59 (Accounts)	,,	226·34	,,
1959-60	,,	255·41	,,
1960-61 (Budget)	,,	240·00	,,
1960-61(Revised)	,,	265·00	,,
1961-62 (Budget)	,,	271·00	,,

While the Corporation tax accrues in its entirety to the Centre, the net proceeds of income-tax, except the tax attributable to Central emoluments and Union territories and any Central surcharge, are divisible between the Centre and the States. Sixty per cent of the net proceeds of such income-tax is paid to the States.

The percentage shares of the different States are as follows :

Uttar Pradesh 16·36 ; Bombay* 15·97 ; W. Bengal 10·08 ; Bihar 9·94 ; Madras 8·40 ; Andhra Pradesh 8·12 ; Madhya Pradesh 6·72 ; Mysore 5·14 ; Punjab 4·24 ; Rajasthan 4·09 ; Orissa 3·73 ; Kerala 3·64 ; Assam 2·44 ; Jammu and Kashmir 1·13.

If a non-resident remits any amount to his wife in India and is invested in Govt. securities, that money will not be included in the total income of the wife.

GUIDE TO TAXES ON INCOME (1961-62)

The following table gives the rates of tax (income-tax, super-tax and surcharge included) applicable to 1961-62 in percentages :

Slabs of income	1961-62	Earned	Unearned
0 - 1,000	nil	nil	nil
1,001-2,000			
(A) Married individuals and Hindu undivided families	nil	nil	nil
(B) Others	4·91	3·15	3·6
2,001-3,000			
(A) Married individuals and Hindu undivided families	4·91	nil	nil
(B) Others	4·91	3·15	3·60
3,001-5,000	4·91	3·15	3·60
5,001-7,500	11·48	6·3	7·20
7,501-10,000	14·76	9·45	10·80
10,001-12,500	21·33	11·55	12·20
12,501-15,000	21·33	14·70	16·80
15,001-20,000	26·25	18·90	21·60
20,001-25,000	32·81	31·50	36·00
25,001-30,000	45·94	42·00	48·00
30,001-40,000	45·94	47·25	54·00
40,001-50,000	59·06	57·75	66·00
50,001-60,000	65·60	63·00	72·00
60,001-70,000	72·19	68·25	78·00
70,001-80,000	75·47	73·50	84·00
80,001-90,000	78·75	73·50	84·00
90,001-100,000	82·03	73·50	84·00
100,001-120,000	85·31	77·00	84·00
120,001-150,000	88·61	77·00	84·00
Over Rs. 1,50,000	91·87	77·00	84·00

* Bilingual.

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INCOME-TAX AT 1961-62 RATES PAYABLE AS PERCENTAGE OF TOTAL INCOME IS INDICATED BELOW:

Income	MARRIED PERSONS		MARRIED WITH ONE CHILD		MARRIED WITH MORE THAN ONE CHILD		UNMARRIED	
	Wholly earned	Wholly unearned	Wholly earned	Wholly unearned	Wholly earned	Wholly unearned	Wholly earned	Wholly unearned
3,000	..	..	..	..	..	..	..	..
3,200	0·2	0·2	..	..	..	..	2·1	2·1
3,600	0·5	0·5	0·2	0·2	..	..	2·2	2·2
4,200	0·9	0·9	0·6	0·6	0·4	0·4	2·3	2·3
4,800	1·1	1·1	0·9	0·9	0·7	0·7	2·4	2·4
5,000	1·2	1·2	1·0	1·0	0·8	0·8	2·4	2·4
6,000	2·0	2·0	1·8	1·8	1·7	1·7	3·0	3·0
7,200	2·7	2·7	2·5	2·5	2·4	2·4	3·5	3·5
8,400	3·6	4·2	3·5	4·0	3·4	3·9	4·4	5·0
9,600	4·4	5·0	4·3	4·9	4·2	4·7	5·0	5·7
10,000	4·6	5·2	4·4	5·1	4·3	5·0	5·2	5·9
12,000	5·7	6·5	5·6	6·5	5·6	6·4	6·3	7·1
13,200	6·4	7·3	6·4	7·3	6·3	7·2	7·0	7·9
14,400	7·1	8·1	7·0	8·1	7·0	8·0	7·6	8·6
15,000	7·4	8·5	7·4	8·4	7·3	8·3	7·8	9·0
16,800	8·6	9·9	8·6	9·8	8·5	9·8	9·0	10·3
18,000	9·3	10·7	9·3	10·6	9·2	10·5	9·7	11·1
20,000	10·3	11·8	10·2	11·7	10·2	11·6	10·6	12·1
24,000	14·1	16·1	14·1	16·1	14·1	16·1	14·1	16·1
25,000	14·8	16·9	14·8	16·9	14·8	16·9	14·8	16·9
30,000	19·3	22·1	19·3	22·1	19·3	22·1	19·3	22·1
36,000	24·0	27·4	24·0	27·4	24·0	27·4	24·0	27·4
40,000	26·3	30·1	26·3	30·1	26·3	30·1	26·3	30·1
42,000	27·8	31·8	27·8	31·8	27·8	31·8	27·8	31·8
45,000	29·8	34·1	29·8	34·1	29·8	34·1	29·8	34·1
48,000	31·5	36·0	31·5	36·0	31·5	36·0	31·5	36·0
55,000	35·4	40·4	35·4	40·4	35·4	40·4	35·4	40·4
60,000	37·7	43·0	37·7	43·0	37·7	43·0	37·7	43·0
66,000	40·4	46·2	40·4	46·2	40·4	46·2	40·4	46·2
70,000	42·0	48·0	42·0	48·0	42·0	48·0	42·0	48·0
72,000	42·9	49·0	42·9	49·0	42·9	49·0	42·9	49·0
84,000	47·3	54·0	47·3	54·0	47·3	54·0	47·3	54·0
85,000	47·6	54·4	47·6	54·4	47·6	54·4	47·6	54·4
90,000	49·0	56·0	49·0	56·0	49·0	56·0	49·0	56·0
96,000	50·6	57·8	50·6	57·8	50·6	57·8	50·6	57·8
1,00,000	51·5	58·8	51·5	58·8	51·5	58·8	51·5	58·8
1,50,000	61·1	67·2	61·1	67·2	61·1	67·2	61.1	67·2
2,00,000	65·9	71·4	65·9	71·4	65·9	71·4	65·9	71·4
2,50,000	68·9	73·9	68·9	73·9	68·9	73·9	68·9	73·9
3,00,000	70·8	75·6	70·8	75·6	70·8	75·6	70·8	75·6
3,50,000	69·7	76·8	72·2	76·8	72·2	76·8	72·2	76·8
4,00,000	73·2	77·7	73·2	77·7	73·2	77·7	73·2	77·7
5,00,000	74·7	79·0	74·7	79·0	74·7	79·0	74·7	79·0
10,00,000	77·6	81·5	77·6	81·5	77·6	81·5	77·6	81·5
20,00,000	79·0	82·7	79·0	82·7	79·0	82·7	79·0	82·7
30,00,000	79·5	83·2	79·5	83·2	79·5	83·2	79·5	83·2

N.B.—For Hindu undivided families the amount of tax and percentages are also as shown for 'married persons' above, except that such families are not liable to pay tax, if the income is not more than Rs. 6,000 if there are at least two members entitled to claim partition.

COMPANY TAX

Classes of Companies	1960-61		Applicable to 1958-59	
	Income tax and Surcharge	Corporation tax	Income tax and Surcharge	Corporation tax
1. Companies which have made prescribed arrangements for the declaration and payment in India of dividends, and for the deduction of super tax from dividends paid to non-resident shareholders:				
(A) Companies in which the public are substantially interested with total income not exceeding Rs. 25,000/-				
(*i*) On dividend income derived from a subsidiary Indian company	26·25	11	31·5	10
(*ii*) On the balance of income	26·25	11	31·5	15
(B) Other Companies:—				
(*i*) On dividend income derived from a subsidiary Indian company	26·25	17	31·5	10
(*ii*) On the balance of income	26·25	17	31·5	20
2. Companies which have not made the prescribed arrangements referred to in (*i*) i.e. foreign companies:				
(*i*) On dividend income derived from a subsidiary Indian company	26·25	20	31·5	10
(*ii*) On the balance of income ..	26·25	36	31·5	30

Companies—Income-tax: In the Finance Bill 1961, no change is made in the existing rate of income-tax, *i.e.*, 20 per cent. *Super-tax:* The basic rate of 55 per cent subject to rebates, depending on certain circumstances relating to each company, will continue. The effective rates applicable to companies (which do not make bonus issues) will also remain the same as for the financial year 1960-61 except in respect of dividends and certain royalties. At present, on dividends received by a company (Indian or foreign) from an Indian subsidiary, super-tax is charged at 10 per cent. On dividends received from any Indian company (other than a subsidiary) formed and registered on or after 1st April 1959, super-tax is charged at 15 per cent on an Indian company in which the public are substantially interested and whose total income does not exceed Rs. 25,000; at 20 per cent on any other Indian company and at 33 per cent on a foreign company which does not declare dividends in India. On dividends received from an Indian company (other than a subsidiary) formed and registered before 1st April 1959, super-tax is payable at the rate applicable to the other income of the company, *i.e.*, at the rate of 20 per cent, 25 per cent and 43 per cent respectively in the case of the three classes of companies mentioned above. For the financial year 1961-62, the super-tax rate for dividends received by any company (Indian or foreign from any Indian company formed and registered before 1st April 1961 will remain the same as for the financial year 1960-61. It is now proposed (subject to a single exception) to fix a uniform rate of 20 per cent for super-tax on

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dividends received by all companies (Indian or foreign), from Indian companies (whether they be subsidiaries or not) formed and registered on or after 1st April 1961. The exceptional case is that of an Indian company in which the public are substantially interested and whose total income does not exceed Rs. 25,000. In the case of such a company, the super-tax on the dividends received from an Indian company formed and registered on or after 1st April 1961 is proposed to be fixed at the same rate of 15 per cent which was applicable to dividends received from companies formed and registered on or after 1st April 1959.

The effective rate of super-tax on royalties received by a foreign company (which does not declare dividends in India) from an Indian concern in pursuance of an agreement made with the Indian concern on or after 1st April 1961 and which has been approved by the Central Government, is proposed to be fixed at 30 per cent instead of the present rate of 43 per cent.

The effective rate at which super-tax is payable with reference to bonus shares is proposed to be reduced from 30 per cent to 12½ per cent.

RATES FOR DEDUCTION OF TAX AT SOURCE FROM INTEREST ON SECURITIES, ETC.

There is no change in the rates for deduction of tax at source during 1961-62 except that in the case of dividends and certain royalties payable to such foreign companies as do not declare their dividends in India, changes have been made for this purpose corresponding to the changes made in the effective rates of tax applicable to such companies for assessment.

ESTATE DUTY

The Estate Duty Act came into effect from October 15, 1953 and is applicable to the whole of India, except the State of Jammu and Kashmir.

The main features of the Act are that the levy of duty depends on the domicile of the deceased, the power to assess duty is vested in the Controller of Estate Duty, and the scale of duties is stipulated in the law itself. The Estate Duty proceeds go almost entirely to the States and do not affect the Central Budget. Pending the recommendations of the Finance Commission, a provisional distribution was made on the basis of the States' share of income-tax. The Commission in their interim Report also recommended the distribution of Estate Duty for 1957-58 on the same basis, pending re-adjustment in the light of their final recommendations.* Like the Income-tax law, this legislation also provides for exemption limits and defines what items are eligible for exemption and to what extent.

The minimum exemption limit provided in the Act is Rs. 50,000 in respect of property which consists of an interest in the joint family property of a Hindu family governed by the Mitakshara, Marumakkattayam or Aliyasantana Law as well as in respect of all other property. The rates of duty are given below :—

Principal Value of Estate.	Rate of Duty.
In the case of Joint Hindu Family property governed by Mitakshara, etc., law :	
On the first Rs. 50,000	*Nil*
On the next Rs. 50,000	5%
On the next Rs. 50,000	7½%
On the next Rs. 50,000	10%
On the next Rs. 1 lakh	12½%
On the next Rs. 2 lakhs	15%
On the next Rs. 5 lakhs	20%
On the next Rs. 10 lakhs	25%
On the next Rs. 10 lakhs	30%
On the next Rs. 20 lakhs	35%
On the balance	40%

Principal Value of Estate.	Rate of Duty.
In the case of property of any other kind :	
On the first Rs. 50,000	*Nil*
On the next Rs. 50,000	7½%
On the next Rs. 50,000	10%
On the next Rs. 1 lakh	12½%
On the next Rs. 2 lakhs	15%
On the next Rs. 5 lakhs	20%
On the next Rs. 10 lakhs	25%
On the next Rs. 10 lakhs	30%
On the next Rs. 20 lakhs	35%
On the balance	40%
In the case of shares held by a deceased member in any such company referred to in sub-section (1) of Section 84.	
If the principal value of the shares does not exceed Rs. 5,000	*Nil*
If the principal value of the shares exceeds Rs. 5,000	7½%

Estate duty received in 1959 : Rs. 2,61,59,312. No. of estates assessed 8,522. No. assessed from Oct. 15, 1953 to Dec. 31, 1958 was 25,854. The budget for 1961-62 takes account for a total receipt of Rs. 3 crores, same as in 1960-61 (revised).

GIFT TAX

The value of gifts made during a previous year (which is the same as for income-tax assessments) is the subject of charge ; gifts are valued normally at the market value of the property as on the date of the gift. The taxable gifts made during five previous years immediately preceding the assessment year (excluding gifts made before the 1st day of April 1957) are aggregated and the rate applicable to the aggregated value is the rate at which tax is charged on the value of the gifts made during the previous year.

The Gift Tax Bill was passed by the Lok Sabha on 6th May, 1958. The Bill provides for the levy of a tax on gifts made during the previous year at the rates notified below :

On the first Rs. 50,000—4 per cent, on the next Rs. 50,000—6 per cent, on the next Rs. 50,000—8 per cent, on the next Rs. 50,000—10 per cent, on the next Rs. 1,00,000—12 per cent, on the next Rs. 2,00,000—15 per cent, on the next Rs. 5,00,000—20 per cent, on the next Rs. 10,00,000—25 per cent, on the next Rs. 10,00,000—30 per cent, on the next Rs. 20,00,000—35 per cent and on the balance—40 per cent.

Gifts exempt from tax are :

(*a*) immovable property situated outside India ; (*b*) movable property situated outside India, where the donor is not a citizen of India or where the donor, not being an individual, is a non-resident ; (*c*) savings certificates declared gift-tax free ; (*d*) gifts to Government or local authorities ; (*e*) gifts to recognised charitable institutions or funds ; (*f*) gifts for any charitable purpose up to Rs. 100 in respect of each gift ; (*g*) gifts to female dependant members on the occasion of marriage, subject to a maximum of Rs. 10,000 ; (*h*) gifts to wife, subject to a maximum of Rs. 1,00,000 ; (*i*) gifts of policies of insurance or annuities to wife, children or dependants subject to a maximum of Rs. 10,000 in respect of each donee ; (*j*) gifts under a will and (*k*) gifts in contemplation of death.

Without prejudice to these exemptions, no person need pay gift-tax if the gifts do not exceed Rs. 10,000 in one previous year. But, if the taxable gift to any individual donee exceeds Rs. 3,000 during the year, the donor will have to pay tax in respect of all gifts above Rs. 5,000.

Gifts made before 1st April 1957 do not come within the purview of the Gift Tax Act.

No aggregation of gifts during the preceding five years is made for the purpose of determining the rate of duty.

The amendment to the Gift Tax Act proposed provides that the advance tax payable will be at the same rate as the tax payable on regular assessment. These changes are not expected to have any significant effect on revenue.

The revenue receipts under gift tax are estimated at Rs. 80 lakhs in 1960-61. The budget for 1961-62 takes account of a similar sum.

* See p. 115 bottom table.

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THE CURRENCY SYSTEM

DURING 1959-60, money supply with the public recorded a marked expansion of Rs. 202 crores (to Rs. 2,701 crores), as compared with Rs. 110 crores in 1958-59, Rs. 76 crores in 1957-58, and Rs. 129 crores in 1956-57. There has been a progressive rise in the rate of expansion in money supply from 3·3 per cent in 1957-58 to 4·6 per cent in 1958-59 and to 8·1 per cent in 1959-60. The aggregate expansion during the first four years of the Second Plan amounted to Rs. 517 crores or 27 per cent.

Component-wise, currency with the public rose by Rs. 138 crores in 1959-60 and accounted for two thirds of the expansion in money supply; in 1958-59, the expansion in currency with the public (Rs. 118 crores) had more than accounted for the expansion in money supply (Rs. 110 crores). However, since the other component in money supply, namely, deposit money, also showed a substantial rise in 1959-60, in contrast to a small decline in 1958-59, the share of currency in total money supply (which had risen from 67·3 per cent to 69·0 per cent. in 1958-59) showed a fractional decline to 68·9 per cent in 1959-60. The seasonal swings in money supply were less pronounced than in the previous years.

Among the factors which brought about the year's expansion in money supply, the deficit on Government account continued to be the most important, but its incidence was substantially smaller than in the preceding two years. On the other hand, the expansionist impact of credit extension by banks to the private sector was much larger than in the previous two years. On the contractionist side, the cushioning effect of the payments deficits, characteristic of the previous three years, was virtually absent, while the rise in banks' time liabilities continued to exert a marked countervailing influence, as in the previous years.

The two tables give the details of the course of money supply with the public and the factors contributing to it.

(Rs. in crores)

	Year ended March 31		
	1957–58	1958-59	1959-60
Currency with the Public (a).			
1. Note Circulation (b)	1,535·96	1,658·36	1,801·73
2. Circulation of rupee coin (c)	116·46	120·59	130·28
3. Notes and coin with Treasuries (d) ..	4·23	6·64	2·95
4. Cash on hand of scheduled, non-scheduled (e) and co-operative banks	41·59	47·78	67·04
5. Currency with the public (excluding small coin) (1+2—3—4)	1,606·60	1,74·53	1,862·03
6. Variation in currency with the public ..	+ 50·10	+ 117·93	+ 137·50
Deposit Money.			
7. Demand liabilities (excluding inter-bank demand deposit) of scheduled, non-scheduled (e) and co-operative banks ..	762·36	754·98	817·19
8. Other Deposits with the Reserve Bank excluding balance held on I.M.F. Account No. 1	19·87	19·25	21·79
9. Deposit money with the public (7+8) ..	782·22	774·23	838·98
10. Variation in Deposit money	+ 25·83	— 7·99	+ 64·75
11. Money supply with the public (excluding small coin) (5+9)	2,388·83	2,498·75	2,701·01
12. Variation in money supply with the public (6+10)	+ 75·94	+ 109·92	+ 202·26

NOTE: Figures have been revised to take into account the circulation of *Hali Sicca* currency.

(a) Money supply with the public does not take account of the inward or outward movement of currency and excludes small coin. (b) Figures are net of the return of about Rs. 43 crores from Pakistan awaiting adjustment. (c) Estimates. (d) Figures on the last day of the year. (e) Excluding balance held on I.M.F. Account No. 1.

SEASONAL VARIATION IN MONEY SUPPLY WITH THE PUBLIC

(Rs. in crores)

	Currency with the public	Demand liabilities of all banks	Other Deposits with Reserve Bank	Money supply with the public
Oct. 29, 1955 to May 11, 1956	+ 237·2	+ 26·5	— 0·1	+ 263·6
May 1956 to October 1956 Slack Season	— 95·7	— 7·8	— 1·7	— 105·1
November 1956 to April 1957 Busy Season	+ 143·9	+ 93·8	+ 1·7	+ 239·4
1957-58 Slack Season	— 89·5	+ 4·8	+ 2·1	— 82·7
1957-58 Busy Season	+ 142·9	+ 24·2	+ 0·1	+ 167·3
1958-59 Slack Season	— 87·1	— 71·2	+ 1·5	— 156·9
1958-59 Busy Season	+ 220·3	+ 68·7	+ 2·0	+ 291·0
1959-60 Slack Season	— 57·1	— 53·0	— 0·5	— 110·6
1959-60 Busy Season	+ 201·0	+ 73·3	+ 2·9	+ 277·2

NOTE: Figures have been revised to take into account the circulation of *Hali Sicca* currency.

Total Notes in circulation at the end of 1955-56 amounted to Rs. 1,424 crores; at the end of 1956-57 Rs. 1,483 crores; at the end of 1957-58 Rs. 1,535·96 crores; at the end of 1958-59 Rs. 1,658·36 crores and at the end of 1959-60 Rs. 1,801·73 crores.

CIRCULATION OF INDIA NOTES BY DENOMINATIONS

	Year ended December			
	1956	1957	1958	1959
Rs. 2 ..	28,72	28,30	29,41	32,76
% of Total ..	1·9	1·9	1·8	1·9
Rs. 5 ..	161,23	155,66	156,21	167,39
% of Total ..	10·9	10·2	9·7	9·5
Rs. 10 ..	604,66	615,90	625,90	671,05
% of Total ..	40·9	40·4	38·9	38·2
Rs. 100 ..	616,58	651,81	725,51	816,57
% of Total ..	41·7	42·8	45·1	46·5
Rs. 1,000 ..	52,24	51,06	49,25	51,41
% of Total ..	3·5	3·3	3·1	2·9
Rs. 5,000 ..	9,92	12,91	10,14	9,92
% of Total ..	0·7	0·8	0·6	0·6
Rs. 10,000 ..	5,73	8,58	12,52	7,00
% of Total ..	0·4	0·6	0·0	0·4
Notes in Circulation	1,479,08	1,524,22	1,608,69	1,756,08

CURRENCY CIRCULATION

Currency expansion recorded a further sharp rise of Rs. 154·5 crores in 1959-60, as compared with Rs. 126·2 crores in 1958-59 and Rs. 52·3 crores in 1957-58. All the three components, namely, notes, rupee coin and small coin contributed to this expansion. The circulation of both notes and rupee coin recorded a larger increase than in 1958-59, while that of small coin also showed a moderate rise as against a small contraction in 1958-59.

The following table shows the circulation of currency :—

(Rs. in crores)

	At the end of		
	1957–58	1958-59	1959-60
Circulation—			
Notes ..	1,535·96	1,658·36	1,801·73
Rupee Coin ..	116·46	120·59	130·28
Total ..	1,652·42	1,778·95	1,932·01

NOTE: Figures are exclusive of *Hali Sicca* currency.

The circulation of rupee coin (the bulk of which represents one rupee notes) recorded a rather sharp rise of Rs. 9·7 crores in 1959-60 following a rise of Rs. 4·1 crores in 1958-59; in the preceding two years 1956-58, there was an aggregate decline of Rs. 5·7 crores. The year's increase was the net result of (*i*) a rise of Rs. 19·1 crores during the eight months April-May 1959 and October 1959-March 1960; and (*ii*) a decline of Rs. 9·4 crores during the four months June to September 1959. At the end of 1959-60, the circulation of rupee coin stood at Rs. 130 crores, representing a net rise of 6·5 per cent over the level of Rs. 122 crores at the end of 1955-56, but a net fall of about 6 per cent as compared to the outstanding circulation of Rs. 138 crores at the end of 1950-51. On 3rd April, 1960, the Reserve Bank, as usual, received from the Government of India, one rupee notes of the value of Rs. 5 crores in terms of Section 36(2) of the Reserve Bank of India Act against payment of legal tender value. At the end of the year, rupee coin holdings of the Reserve Bank, the bulk of which is held in the form of one rupee notes, amounted to Rs. 126 crores.

The Reserve Bank received 4,574 forged notes (including Government of India one-rupee notes) during 1959-60 as compared to 5,489 in 1958-59. The number of counterfeit coins cut at treasuries and railway stations was lower at 5·7 lakhs as compared to 11·3 lakhs in the previous year. The Reserve Bank admitted claims worth Rs. 50 lakhs in respect of lost, destroyed and mutilated notes. Payment made against them amounted to Rs. 48 lakhs.

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Small Coin.—The circulation of small coins recorded a rise of Rs. 1·4 crores in 1959-60 as against a decline of Rs. 0·3 crores in the previous year. The following are the details :

MOVEMENTS IN CIRCULATION OF SMALL COIN DENOMINATION-WISE
ABSORPTION (+) OR RETURN (−)

(Rupees in 000)

	1956-57	1957-58	1958-59	1959-60
Half rupees *	− 16,95	− 1,23	+ 5,37	+ 31,11
Four anna pieces **	+ 20,99	+ 15,47	+ 12,04	— 83
Two anna pieces †	− 9,66	− 141,54	− 1,59,93	— 89,90
One anna pieces	+ 26,04	− 68,22	− 93,92	— 132,62
Half anna pieces ††	+ 6,39	− 10,24	− 13,49	— 35,04
Single pice §	+ 19,14	− 4,91	− 6,96	— 3,91
Half pice	− 84	− 64	− 2	+ 2
Pie pieces	− 3	− 14	− 10	— 1
10 naye paise	..	+ 120,39	+ 99,35	+ 125,87
5 naye paise	..	+ 66,43	+ 63,59	+ 69,12
2 naye paise	..	+ 41,94	+ 30,22	+ 38,52
1 naya paisa	..	+ 47,60	+ 30,52	+ 39,55
25 naye paise	—	—	—	+ 101,58
Total	+ 45,08	+ 64,91	− 33,33	+ 143,46

* Since the inauguration of the Reserve Bank in 1935, silver half rupees have been included in statistics relating to small coin, including pure nickel half rupees introduced in May 1946. ** Including pure nickel four anna pieces introduced in May 1946. † Including nickel two anna pieces introduced in 1917-18. †† Nickel half anna pieces introduced in January 1942. § Including single pice pieces with a circular hole issued from February 1943.

EXCHANGE CONTROL

In the field of exchange control, the changes made during 1959-60 were designed (*i*) to meet the situation arising from the further move by several countries abroad in the direction of full convertibility and (*ii*) to remove the loopholes in the existing regulations. The main changes thus made are given below :

(1) Consequent on the withdrawal of Iraq from the sterling area, regulations governing payments to, and from, that country were amended appropriately and the non-resident rupee accounts of banks resident in Iraq were designated as 'convertible accounts' with effect from 26th June 1959. (2) The terms of settlement for trade transactions agreed to with the Government of the United Arab Republic were revised with effect from 1st August 1959 to provide for all trade with Egypt to be invoiced only in Indian rupees. Proceeds of Egyptian cotton imports would be utilised for payments for Egypt's imports of tea and jute goods and other commodities as may be further agreed between the two governments and also for repayment of loan. Under the previous agreement, payment for some of our exports was accepted in Egyptian pounds, and proceeds of our exports of tea and jute manufactures were utilised to pay for our imports of Egyptian cotton.

(3) In September 1959, Bulgaria, Czechoslovakia, Hungary, Rumania and Yugoslavia were included in the 'Bilateral Account' group which already included the U.S.S.R., East Germany, Poland, the U.A.R. and Afghanistan. All financial transactions between India and countries covered by the bilateral agreements would be conducted on a non-convertible rupee basis and rupee balances held by banks resident in these countries would not be transferable to any other country or convertible into any foreign currency. (4) A 'Limited Payments Agreement' was concluded with Pakistan on 3rd December 1959 to cover for one year exchange on a non-convertible rupee basis of a few specified commodities with specific monetary ceilings. This was substituted on 21st March 1960, by another agreement, which increased the values of the agreement till 20th March 1962. All transactions under the agreement would be routed through a special account opened by the National Bank of Pakistan with the State Bank of India at New Delhi and styled 'National Bank of Pakistan Clearing Account A'.

(5) As a necessary sequal to the introduction last year of special rupee notes for circulation in the Persian Gulf area and simultaneous withdrawal of facilities available to overseas banks for repatriation of ordinary Indian bank notes purchased from travellers from India, a limit of Rs. 75 per person was imposed with effect from 10th December 1959 on the amount of ordinary rupee notes that may be brought in by travellers. Earlier, such restriction applied only to travellers from the Portuguese territories in India. (6) On 17th December 1959, the Chief Controller of Imports and Exports announced that all 'soft currency' import licences (other than those issued under the Capital Goods and Heavy Electrical Plants Schemes and restricted to specified countries) would be valid for imports from the dollar area also upto 100 per cent of their face value. Authorised dealers in foreign exchange were accordingly permitted to open letters of credit and make remittances against 'soft currency' licences for imports of dollar area origin. Earlier these could be used only upto 50 per cent of their face value for imports from the dollar area. The measure eliminates whatever little currency discrimination existed previously against imports of dollar origin.

(7) It was accounted on 9th February 1960 that insurance cover for non-marine insurance risks on assets owned by Indian residents could be arranged in any currency instead of as previously, only in rupees, sterling or the currency of the country in which the assets were located. (8) From March 1960, Indian nationals (including persons of Indian domicile) emigrating to any country outside India are allowed to transfer sums not exceeding Rs. 50,000 per family unit at the time of departure. Assets in excess of Rs. 50,000 are blocked and no remittances permitted from them, though the income earned on these is remittable in full. Earlier there were ceilings of Rs. 75,000-Rs. 125,000 and Rs. 200,000 per family emigrating to the dollar area, the other non-sterling area and the sterling area, respectively. The new regulations while generally tightening up the capital remittances, removed at the same time the discriminating features in controls on export of resident capital.

BALANCE OF PAYMENTS—CURRENT ACCOUNT

Region-wise Summary

(Rupees in crores)

	1957-58	1958-59	1959-60 (Preliminary)
Sterling Area (Including Pakistan) :			
Imports, c.i.f.	450·7	378·4	401·0
Exports, f.o.b.	298·0	300·4	294·7
Trade Balance	−152·7	− 78·0	−106·3
Official Donations (Net)	+ 5·4	+ 1·8	+ 0·7
Other Invisibles (Net)	+ 75·5	+ 57·2	+ 48·2
Current Account (Net)	− 71·8	— 19·0	— 57·4
Dollar Area :			
Imports, c.i.f.	283·2	244·9	226·5
Exports, f.o.b.	192·5	104·4	117·6
Trade Balance	− 90·7	−140·5	−108·9
Official Donations (Net)	+ 28·6	+ 32·6	+ 34·7
Other Invisibles (Net)	+ 14·4	+ 26·6	+ 31·7
Current Account (Net)	− 47·7	− 81·3	− 42·5
OEEC Countries :			
Imports, c.i.f.	314·1	213·8	160·5
Exports, f.o.b.	57·4	50·8	60·2
Trade Balance	−256·7	−163·0	−100·3
Official Donations (Net)	+ 0·1	..	+ 0·1
Other Invisibles (Net)	..	− 4·3	− 5·8
Current Account (Net)	−255·8	−167·3	−106·0
Rest of Non-Sterling Area :			
Imports, c.i.f.	185·6	192·5	135·7
Exports, f.o.b.	120·6	120·3	150·8
Trade Balance	− 65·0	− 72·2	+ 15·1
Official Donations (Net)	..	..	+ 0·1
Other Invisibles (Net)	+ 13·3	+ 12·2	+ 9·9
Current Account (Net)	− 51·7	− 60·0	+ 25·1

The trends in the balance of payments position for 1958-59 and 1959-60 are summarised in the following table :—

(Crores of Rupees.)

	1958-59	1959-60
Imports :		
c.i.f. Values	1,029·6	923·7
Exports :		
f.o.b. Values	575·9	623·3
Trade Balance	— 453·7	— 300·4
Official Donations and Invisibles (Net)	126·1	119·6
CURRENT ACCOUNT (NET).	— 327·6	— 180·8
Errors & Omissions.	— 21·7	— 21·2
CAPITAL ACCOUNT (NET).	+ 366·8	+ 202·0

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STERLING TRANSACTIONS OF THE RESERVE BANK

During 1959-60 the Reserve Bank's sterling transactions (excluding Government deals) resulted in net purchases of £42·95 million (Rs. 57·24 crores) as against net sales of £10·36 million (Rs. 13·72 crores) in 1958-59. The particulars are given below.

Year	Purchases		Sales		Net Purchases (+) Sales (—)	
	£ Thousands	Rs. Lakhs	£ Thousands	Rs. Lakhs	£ Thousands	Rs. Lakhs
1956-57	69,500	92,65	213,803	285,32	—144,303	— 192,67
1957-58	54,427	72,56	143,723	191,79	— 89,296	— 119,23
1958-59	59,483	79,28	49,122	65,56	+ 10,361	+ 13,72
1959-60	61,308	81,74	18,357	24,50	+ 42,951	+ 57,24

Note.—Figures exclude Government transactions but include deliveries against forward contracts.

GOLD RESERVES OF CENTRAL BANKS

(Millions of fine ounces)

Average of months	United States	United Kingdom	Canada	France	Switzerland	South Africa	Belgium	Netherlands	Sweden	India
1954-55 ..	625	82	30	16	43	6	22	23	7	7
End of										
1955 ..	622	60	33	25	46	6	26	25	8	7
1956 ..	630	61	32	25	48	6	26	24	8	7
1957 ..	653	65	32	16	49	6	26	21	6	7
1958 ..	588	88	31	21	55	6	36	30	6	7
1959 ..	557	78	27	37	55	7	32	32	5	7
June 1960 ..	553	83	26	44	51	7	34	35	5	7

STERLING AREA'S GOLD AND DOLLAR RESERVES

(Million $)

End of	Changes in Reserves	Level of Reserves
1953	+ 672	2,518
1954	+ 244	2,762
1955	— 642	2,120
1956	+ 13	2,133
1957	+ 140	2,273
1958	+ 796	3,069
1959	— 333	2,736
June 1960 ..	+ 156	2,892

WORLD BANK (*See under Foreign Aid*).

PRE-DECIMAL COINAGE

The following table gives a description of the coins in circulation at the end of March 1960:

Denomination	Gross weight (Grains)	Composition (Proportion of Metals)
Quaternary Alloy Rupee	180	Silver 50 per cent. and the rest base metal.
,, ,, Half Rupee ..	90	,, ,, ,,
,, ,, Quarter Rupee ..	45	,, ,, ,,
Pure Nickel Rupee	180	Nickel 100 per cent.
,, ,, Half Rupee	90	,, ,,
,, ,, Quarter Rupee ..	45	,, ,,
Cupro-Nickel Four-anna	105	75 per cent. copper and 25 per cent. nickel.
,, ,, Two-anna	90	,, ,, ,,
,, ,, Two-anna (George V).	90	,, ,, ,,
,, ,, One-anna	60	,, ,, ,,
,, ,, Half-anna	45	,, ,, ,,
Nickel-Brass One-anna	60	79 per cent. copper, 1 per cent. nickel and 20 per cent. zinc.
,, ,, Half-anna	45	,, ,, ,,
Copper Single Pice	100	100 per cent. copper.
Bronze Single Pice	75	97 per cent. copper, 2½ per cent. zinc and ½ per cent. tin.
,, ,, ,, ...	30	,, ,, ,,
,, ,, ,, ...	60	,, ,, ,,
,, ,, ,, ...	45	,, ,, ,,
DECIMAL COINS		
50 nP.	5 grams	Pure nickel.
25 nP.	2·5 ,,	,,
Cupro-Nickel 10 nP.	5 ,,	75 per cent. copper and 25 per cent. nickel.
,, 5 nP.	4 ,,	,, ,, ,,
,, 2 nP.	3 ,,	,, ,, ,,
Bronze 1 nP.	1·5 ,,	97 per cent. copper, 2½ per cent. zinc and ½ per cent. tin.

The details of whole rupee coins issued since 1835 are given below:

William IV Standard	..	16,39,78,572
Victoria Standard	..	352,13,80,138
Edward VII ,,	..	98,28,53,552
George V ,,	..	180,74,83,517
George VI ,,	..	98,02,178
George VI Quaternary	..	106,74,92,173
George VI Nickel	..	21,42,01,000
Asoka Pillar ,,	..	1,39,00,000
1951	..	49,28,000
1951-52 to 1958-59	..	Nil

On Oct. 1, 1960 two-anna and half-anna coins of cupro-nickel composition ceased to be legal tender. However, they were to continue to be accepted by the Reserve Bank and its agency banks and Government treasuries, and railways and post and telegraph offices till March 31, 1961; but even after that date they would be accepted by the Issue Department of the Reserve Bank in Bombay, Calcutta, Madras, Kanpur, New Delhi, Bangalore and Nagpur.

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DECIMAL COINAGE

DECIMAL coins were first introduced in India on 1st April 1957.

The old coins were to be legal tender for about three years after the introduction of the new coins. During this period, they were to be gradually withdrawn from circulation.

The rupee coin is divided into 100 equal units and the unit designated Naya Paisa. Thus 100 naye paise make one rupee.

The new series have the following units one naya paisa, two naye paise, five naye paise and ten naye paise.

Twenty-five naye paise pure nickel coins were issued with effect from Dec. 1, 1959. It is circular in shape and weighs 2·5 grammes and is lighter than the old four-anna coin. Fifty naye paise pure nickel coins were issued with effect from 1st November 1960. It is also circular in shape with a serrated edge. It weighs five grammes and is slightly lighter than the half-rupee coins.

Later, the new rupee coins are to be issued.

The new coins were issued to the public through the Reserve Bank, the State Bank offices, treasuries and sub-treasuries.

The gross weight of one naya paisa coin is 23·15 grains. The composition (proportion of metals) of the coin is: 97 per cent. copper, 2½ per cent. zinc and ½ per cent. tin. The diameter of the coin is 0·630".

GOVERNMENT ACCOUNTS

Government accounting with effect from 1st April, 1957 has been in terms of rupees and naye paise.

The State Bank and joint stock and co-operative banks have also switched over to decimal accounting with effect from 1st April 1957.

All chalans in support of money tendered in payment of Government dues are, therefore, being expressed in new coinage. Similarly, all bills for withdrawals are expressed in terms of rupees and naye paise.

The forms of bills, chalans and other books of account used by Government Departments have been revised to provide only two columns to show rupees and naye paise separately.

A sum of Rupees 25 and five naye paise is written as Rs. 25·05 (and not Rs. 25·5); Rupees 25 and 50 naye paise as Rs. 25·50 (not Rs. 25·5); and Rupees 55 and 83 naye paise is written as Rs. 55·83.

For entering an amount of Rupees 25 and five naye paise, in forms providing for separate columns for rupees and naye paise, 25 are entered in the Rs. column and 05 in the naye paise column.

In order to enable the public to understand rightly the relationship of each new coin to the rupee the number of such coins required to make one rupee is indicated on the coins themselves. Thus the coin representing one naya paisa has a legend, "rupae ka sauvan bhag" (hundredth part of a rupee), embossed on it.

Similarly, 2, 5, 10, 25 and 50 naye paise units indicate that they represent 1/50th, 1/20th, 1/10th, 1/4th and one-half parts respectively of the rupee.

The design and composition of the new currency units are as follows:

The obverse sides of all the new coins have the design of the lion capital of the Asoka pillar with the terms "Bharat" in Hindi and "India" in English inscribed on them.

The reverse sides of all the new coins indicate the year in which the coins are produced and their value in naye paise specified in international numerals.

The 100 naye paise, 50 naye paise and 25 naye paise are of pure nickel while 10, 5 and 2 naye paise coins are of cupro-nickel alloy (75 per cent copper and 25 per cent nickel). The one naya paisa coin is of bronze.

Until the people got accustomed to the use of the new coinage and sufficient quantities of new coins were put into circulation, the existing coins which continued to be legal tender after April 1, 1957 were to remain in circulation.

Coins of the denominations of two annas and under were withdrawn first, as decimal coins of ten naye paise and below were put in circulation in sufficient quantities at the initial stages.

According to the rate of exchange prescribed in the Indian Coinage (Amendment) Act 1955, there is no exact equivalent in naye paise in respect of coins of two annas and below and their change individually, or in combination with other coins, results in a small profit or loss in the aggregate to either of the parties exchanging the coins.

This element of profit or loss occurs so long as the existing coins continue to circulate, but it will diminish progressively as increasing quantities of new coins enter into circulation.

The public can, however, keep down to the minimum the element of profit or loss in exchange of coins by having their holdings of existing coins exchanged for new ones by tendering amounts in terms of four annas and multiples thereof, for which exact equivalents in terms of new coinage exist.

The mintage of coins by denominations during 1959-60 was as follows:

		Rs.
Pure-nickel	25 nP	1,73,98,000
Cupro-nickel	10 nP	1,12,99,000
,,	5 nP	51,30,000
,,	2 nP	24,16,000
Bronze	1 nP	34,51,000
Total..	.. .. ..	3,96,94,000

During the year 1959-60, new coins of the value of about Rs. 3·75 crores were put into circulation. This included one naya paisa coins of the value of Rs. 40 lakhs, two naye paise coins of the value of Rs. 39 lakhs, five naye paise coins of the value of Rs. 69 lakhs and ten naye paise coins of the value of Rs. 1·26 crores.

Old coins of the value of Rs. 2·31 crores were withdrawn during the year 1959-60, bringing the total withdrawal since 1st April 1957 to Rs. 7·27 crores.

During 1959-60 decimal coins of the value of Rs. 3·97 crores were minted bringing the total mintage of these coins to Rs. 13·5 crores (3,586 million pieces).

Upto Nov. 30, 1959, 1,72,48 lakh one-anna coins and 1,32,48 lakh half anna coins (nickel-brass) were minted and 81,70 lakh one-anna coins and 37,72 lakh half anna coins had been withdrawn.

BANKING

THE Banking Companies Act was enacted in 1949 with the object of improving the efficiency and the tone of the banking system. The main provisions relate to licensing of branches, requirements of minimum capital and reserves and maintenance of cash reserves. During 1952 the Banking Companies Rules were extended to more States and now apply to the entire country.

The policy of systematic inspections of banking companies irrespective of their size and standing, has been an aspect important of the Reserve Bank's supervisory activities. In pursuance of this, 288 banks were inspected during 1959, of which 65 were scheduled banks as against 273 banks in 1958, of which 57 were scheduled banks. Since March 1950, when inspections were commenced, 1,589 inspections have been carried out for various purposes.

TRENDS

The year 1959-60 was characterised by a marked stepping up of the rate of monetary expansion, both money supply and bank credit. The expansion of money supply was almost twice as large as in 1958-59 and the bank credit was also more than double. Indicating the above trend, the slack season decline in money supply and bank credit was much smaller than in the previous year; the busy season rise in bank credit was also slightly larger, though the expansion in money supply was somewhat smaller. As in the preceding three years, the growth of deposits and investments in Government securities of banks continued to be markedly influenced by the counterpart funds arising from P.L. 480 imports. Aggregate net deposits, even excluding P.L. 480 funds, rose at a faster rate than in 1958-59. A feature of the deposit trends this year was the sizeable expansion in demand deposits in contrast to the small decline in 1958-59. The upswing in time deposits, however, continued apace the rise in this item being larger than in the previous year. The expansion in holdings of Government securities of banks was considerably smaller than 1958-59 on account of the much larger expansion of bank credit than in 1958-59 and the larger increase in cash reserves.

The main features disclosed by the trends in scheduled bank data during 1959-60 were (*i*) a larger rise in the volume of bank credit than in the previous two years and (*ii*) a further acceleration of the rising trend in aggregate deposit liabilities noticed since 1951-52. Aggregate deposit liabilities went up by Rs. 267 crores (to Rs. 1,902 crores) in 1959-60 as compared to a rise of Rs. 184 in 1958-59. Since the increase in P.L. 480 deposits during the year was about the same as in 1958-59, the larger expansion in deposit liabilities during the year was entirely due to other deposits. A noteworthy aspect of the deposit trends during the year was the expansion of Rs. 59 crores (to Rs. 781 crores) in demand liabilities which contrasted with a reduction of Rs. 8 crores in 1958-59; the rise was mainly in the nature of a counterpart to the balance of payments surplus on private account and the higher rate of credit expansion during the year.

The rapid growth in time liabilities, noticed since 1956-57, continued, the expansion being larger than in 1958-59. In 1959-60 they rose by Rs. 208 crores as compared to Rs. 192 crores in 1958-59 and Rs. 249 crores in 1957-58. As in the previous three years, the accrual of P.L. 480 funds with the State Bank of India constituted an important component of the increase

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in time liabilities. The rise of Rs. 114 crores (to Rs. 1,128 crores) in scheduled bank credit during the year was more than double that in 1958-59 (Rs. 51 crores) and only slightly less than double that in 1957-58 (Rs. 63 crores); percentage-wise, the growth was 11 per cent in 1959-60 as compared to 5 per cent and 7 per cent in the preceding two years. While the growth of bank credit during the year reflected the sharp growth of deposits, the marginal credit deposit ratio rose significantly as compared to the 1958-59 ratio. The aggregate growth of bank credit in the first four years of the Second Plan was 48 per cent. The expansion in 1959-60 reflected, in the main, the rebuilding during the year of stocks at rising prices as well as the marked revival in industrial activity as compared to the two previous years, but in the light of the prevailing price situation the rate of expansion should be deemed to be excessive. The credit deposit ratio at the end of March 1960 was 59 per cent as compared to 62 per cent at the end of March 1959, though if P.L. 480 deposits are excluded, the ratio at the end of March 1960 would be about 70 per cent. Investments in Government securities recorded a smaller rise (Rs. 101 crores) in 1959-60 than in 1958-59 (Rs. 173 crores) but the investment deposit ratio remained virtually unchanged over the year at 37·6 per cent, after the high level of 44·4 per cent in early December 1959. The annual average ratio for 1959-60 at 40·6 per cent was, however, higher than the corresponding ratio for 1958-59 (36·5 per cent). Cash and balances with the Reserve Bank showed a sharp rise of Rs. 45 crores to Rs. 153 crores against a rise of only Rs. 3 crores in 1958-59; while this was to some extent due to the larger accrual of deposits, the major part of the rise (Rs. 28 crores) took place after 11th March 1960, from which date the Reserve Bank called for from scheduled banks additional statutory reserves of 25 per cent of the increase in deposit liabilities. The cash ratio consequently recorded a substantial rise from 6·6 per cent to 8·0 per cent; however, if the annual average is taken into account, the ratio further fell to 6·8 per cent as compared to 8·0 per cent in 1958-59 and 8·9 per cent in 1957-58. Borrowings from the Reserve Bank showed a rise of Rs. 18 crores (to Rs. 79 crores) as compared to Rs. 20 crores in 1958-59. The rise in net balances with the Reserve Bank (*i.e.* after adjusting for scheduled banks' borrowings from the Reserve Bank) was Rs. 9 crores over the year. The inflow of foreign short-term funds through the banking system was lower during the year at Rs. 1·4 crores as compared with Rs. 3·8 crores in 1958-59. The Reserve Bank has revoked with effect from Jan. 13, 1961, the additional reserve requirements imposed on scheduled banks under their notification of Nov. 11, 1960.

The Reserve Bank's policy continued to be one of restraint. In the field of credit control, a feature of the year was the resort, for the first time since the Reserve Bank acquired the power in October 1956, to the instrument of variable reserve requirements. The need for a general strengthening of credit controls arose from the continuing excess liquidity in the economy as reflected in the marked expansion of money supply and bank credit and the pressure exerted by it on the general price level as well as its bullish impact on the capital market as indicated by the boom in share values. In recent years, the Reserve Bank's monetary policy has been one of 'controlled expansion' —a policy of general restraint alongside action to augment the flow of credit into specific sectors, in particular agriculture. For about three years now the Reserve Bank's credit restraint policy has been operated through selective credit controls, besides open market operations. At the close of the year under review, these were reinforced by an instrument of general credit restraint, namely variable cash reserves.

LEGISLATIVE MEASURES

The legislative measures taken during the year included (*i*) the passing of the State Bank of India (Subsidiary Banks) Bill, 1959, the State Bank of India (Amendment) Bill, 1959 and the Banking Companies (Amendment) Bill, 1959, (*ii*) the introduction in the Lok Sabha, of the Reserve Bank of India (Amendment) Bill, 1960, designed to enable the Reserve Bank to enlarge the scope of its powers to assist in the financing of industries and (*iii*) further liberalisation of the Bill Market Scheme.

The State Bank of India (Subsidiary Banks) Bill received the assent of the President on 10th September 1959. As provided under the Act, eight major State-associated banks, the Bank of Indore, the Bank of Jaipur, the Bank of Mysore, the Bank of Patiala, the Travancore Bank, the State Bank of Hyderabad and the State Bank of Saurashtra have been taken over by the State Bank of India as its subsidiaries. As agents of the State Bank of India, which is the agent of the Reserve Bank, these banks will be entrusted with the custody of currency chests, thereby enabling them to undertake treasury work and to offer better remittance facilities to the banks and the public. A scheme for the expansion in the number of branches of these banks in the territories of former Part B States, is being framed by the State Bank in consultation with the Reserve Bank of India and the subsidiary banks concerned. The changed status of these banks as well as their branch expansion programme is expected to contribute to a more intensive mobilisation of deposits in comparatively under-developed areas and also to a closer integration of such areas with the organised money market.

The State Bank of India (Amendment) Bill, 1959 was passed by Parliament and received the President's assent on 28th August 1959. The Amendment Act seeks, among other things, to simplify the procedure in regard to the taking over of the business of any banking institution which the State Bank acquires through negotiations in terms of Section 35 of the State Bank of India Act, and to facilitate the orderly winding up of such institutions.

The Banking Companies (Amendment) Act, 1959 came into force on 1st October 1959. The Act, *inter alia* (1) enables a banking company to pay dividends on its shares without writing off the depreciation in the value of its investments in approved securities where such depreciation has not been capitalised or otherwise accounted for as a loss, while in the case of depreciation in the value of shares, debentures and bonds and losses on account of bad debts adequate provision will have to be made before a banking company could pay a dividend, (2) introduces some flexibility in regard to the maintenance and use of the Reserve Fund, (3) empowers the Reserve Bank to remove from office the chairman or any director or manager or chief executive officer of a banking company who has been found by any tribunal or other authority to have contravened the provisions of any law, (4) provides for inspection by the Reserve Bank of offices or subsidiaries of Indian banks outside India, (5) enables the Reserve Bank to apply for the winding up of a banking company under certain circumstances and (6) enables the High Court to direct the winding up of a banking company under specified circumstances.

The Reserve Bank of India (Amendment) Bill, 1960 was introduced in Lok Sabha on 22nd April 1960 and passed on 30th April. The Act empowers the Reserve Bank to act as agent of the Government of India for implementing the Scheme for guaranteeing loans and advances by commercial banks and other financial institutions to small scale industrial units. The Act also enables the Reserve Bank to extend medium-term loans, that is, loans with a maturity upto 18 months to the State Financial Corporations and to other institutions notified by the Central Government, through an amendment to Section 17 of the Reserve Bank of India Act, 1934.

The extension of the Bill Market Scheme to export bills on an experimental basis for one year upto the end of September 1959, was later extended further by another year upto the end of September 1960. The scheme has also been liberalised in certain respects. The facilities under the Scheme, which were formerly available only at Bombay and Calcutta offices of the Reserve Bank, are now made available also at its offices at Madras, New Delhi, Kanpur, Bangalore and Nagpur. Further, the minimum amount of a usance promissory note that may be lodged as security for advances, which were originally fixed at Rs. 2 lakhs and Rs. 0·20 lakh, respectively, have been reduced to Rs. 1 lakh and Rs. 0·10 lakh, respectively, with effect from 7th October 1959. The Reserve Bank has also undertaken, with effect from the same date to bear the whole of the stamp duty on usance promissory notes lodged with it as security for such advances under the Scheme.

CONSOLIDATED POSITION OF BANKS IN INDIA

(In lakhs of rupees)

	Year.	No. of Banks.	Paid-up Capital.	Reserves.	Deposits					Cash		Investments		Loans and Advances.	Bills Discounted and Purchased.	Net Profit.	No. of Offices.
					Fixed.	Savings.	Current.	Others.	Total.	In Hand.	At Banks.	Government Securities.	Others.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Scheduled Banks ..	1957	91	34,74	29,85	518,31	213,36	508,19	188,08	1,427,94	51,82	116,93	439,22	72,99	730,64	163,47	11,31	3,273
	1958	93	35,57	29,89	722,56	234,21	544,66	152,52	1,653,95	57,08	123,86	634,63	78,86	761,49	139,58	9,53	3,629
	1959	94	36,15	31,31	942,81	260,32	568,68	158,96	1,930,77	64,49	142,77	760,61	94,68	841,84	172,13	10,00	3,926
Non-Scheduled Banks	1957	298	6,09	3,38	29,89	8,10	9,48	4,34	51,81	4,79	3,12	13,77	3,75	33,16	1,55	48	947
	1958	278	5,46	2,29	27,08	7,36	8,58	4,57	47,59	4,40	3,69	11,57	4,26	28,93	1,38	42	862
	1959	264	5,03	2,33	29,31	7,77	8,43	5,62	51,13	4,57	4,14	11,17	4,95	30,51	1,28	45	827
Scheduled and Non-Scheduled Banks	1957	389	40,83	33,23	548,20	221,46	517,67	192,42	1,479,75	56,61	120,05	446,99	76,74	763,80	165,02	11,79	4,220
	1958	371	41,03	32,18	749,64	241,57	553,24	157,09	1,705 54	61,48	127,50	646,20	83,12	790,42	140,96	9,95	4,491
	1959	358	41,18	33,64	972,18	268,09	577,11	164,58	1,981,90	69,06	146,91	771,78	99,63	872,35	173,41	10,45	4,753

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The following table relates to other financial aspects of these joint-stock banks, including the State Bank (former Imperial Bank of India):

(In lakhs of rupees)

	1955	1956	1957	1958	1959
Per cent of Capital and Reserves to Deposits	7·64	6·98	5·81	4·86	4·26
Per cent of cash in hand and Banks to Deposits..	12·81	11·96	11·94	11·11	10·89
Per cent of Investments to Deposits	40·87	36·94	35·39	42·86	43·97
Per cent of Bank credit to Deposits	61·70	70·60	62·77	54·74	52·77
Number of offices	4,000	4,065	4,220	4,491	4,753
Number of offices outside India	106	100	101	99	99

RESERVE BANK

The Bank advanced to scheduled banks a gross amount of Rs. 602 crores in 1959, as against Rs. 391 crores in 1958, Rs. 769 crores in 1957 and Rs. 904 crores in 1956. A total amount of Rs. 519 crores was advanced in 1959 by the Reserve Bank for general banking purposes at the Bank rate against Government securities as compared with Rs. 238 crores in 1958. Loans under the Bill market scheme at ½ per cent below the Bank rate aggregated Rs. 183 crores in 1959 against Rs. 153 crores in 1958.

The following table gives the position of the Reserve Bank over a period of years:—

ISSUE DEPARTMENT

(In lakhs of rupees)

Year.	Notes held in the Banking Department.	Notes in Circulation.	Total Notes Issued.	Gold Coin and Bullion.	Foreign Securities.	Rupee Coin.	Govt. of India Rupee Securities.	% of Gold and Foreign Securities to Note Issue.
30th June 1954	41,08	1,172,03	1,213,12	40,02	653,15	98,73	421,22	57·14
,, ,, 1955	31,78	1,309,76	1,341,55	40,02	652,05	105,84	543,65	51·59
,, ,, 1956	28,27	1,474,67	1,502,94	40,02	646,55	107,69	708,68	45·61
,, ,, 1957	39,50	1,542,17	1,581,67	117,76	412,52	126,58	924,81	33·53
,, ,, 1958	39,05	1,577,27	1,616,32	117,76	199,68	131,33	1,167,56	19·63
,, ,, 1959	37,81	1,714,37	1,752,18	117,76	178,01	130,68	1,325,73	16·88

BANKING DEPARTMENT

(In lakhs of rupees)

Year.	Paid-up Capital and Reserves.	Deposits.					Bills payable.	Other liabilities.	Total liabilities and assets.	Cash.	Bills purchased and discounted.	Balances held abroad.	Loans and Advances.		Investments.	Other Assets.
		Central Government.	Other Governments.	Banks.	Others.	Total.							To Governments.	To others.		
30th June 1955 ..	10,00	56,02	9,68	57,79	22,69	146,18	6,95	23,40	186,53	31,91	11,72	60,91	76	28,24	46,39	6,59
,, ,, 1956 ..	10,00	56,82	13,17	54,49	13,08	137,56	5,32	39,81	192,69	28,37	8,36	38,52	2,37	69,68	37,33	8,06
,, ,, 1957 ..	85,00	51,55	8,25	81,68	149,78	291,26	13,16	31,34	420,76	39,62	13	43,04	23,89	91,46	208,94	13,68
,, ,, 1958 ..	85,00	53,42	14,17	97,89	142,80	308,28	13,67	38,41	445,36	39,16	69	14,33	26,66	60,53	289,08	14,91
,, ,, 1959 ..	85,00	47,80	20,24	98,15	159,86	326,05	20,88	45,56	477,50	37,86	1,16	13,45	22,69	69,15	319,01	14,18

EXCHANGE BANKS

The banks carrying on exchange business in India are merely branch agencies of banks having their head offices in London, on the Continent, in the Far East or the U. S. A. Originally their business was confined almost exclusively to the financing of the external trade of India; but now, most of them, while continuing to play their main role, have also taken an active part in the financing of internal trade. Following the increase in the British bank rate to four per cent in March 1952, exchange banks found it more profitable to tap Indian deposits than to get funds from London. Over the year 1959 the deposits with these Banks amounted to Rs. 226·21 crores as against Rs. 195·76 crores in 1958.

The earlier progress of Exchange Banks was tabulated in the previous editions. The more recent trends are summed up below:—

Liabilities and Assets of Foreign Banks in India

(In lakhs of rupees)

Year	No. of Banks	Deposits					Cash		Bills Discounted and Purchased	Loans and Advances	Investments		No. of Offices	Net Profit
		Fixed	Savings	Current	Others	Total	In Hand	At Banks			Govt. Securities	Others		
1955 ..	17	59,87	14,06	100,65	19,88	194,46	3,22	14,58	31,88	136,07	46,01	3,66	67	1,68
1956 ..	17	57,42	15,37	96,90	17,85	187,54	2,81	15,02	40,64	161,22	39,27	2,87	67	1,66
1957 ..	17	69,69	16,96	101,36	16,13	204,14	2,62	17,55	50,42	143,87	38,91	4,39	67	1,92
1958 ..	16	70,10	19,50	95,25	10,91	195,76	2,57	12,05	25,36	134,73	44,74	2,55	66	1,03
1959 ..	16	90,33	21,58	102,88	11,42	226,21	2,08	15,97	30,10	140,99	42,93	2,35	66	1,29

LIABILITIES AND ASSETS OF OTHER BANKS BY CLASS

(In lakhs of rupees)

Year	No. of Reporting Banks	Paid-up Capital	Reserves	Deposits					Cash		Bills Discounted and Purchased	Loans & Advances	Investments		Net Profit	No. of Offices*
				Fixed	Savings	Current	Others	Total	In Hand	At Banks			Government Securities	Others		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
STATE BANK OF INDIA																
1955	1	5,63	6,35	33,69	27,92	149,26	14,90	225,77	3,42	25,96	16,80	90,15	104,96	12,02	1,36	484 (11)
1956	1	5,63	6,38	36,90	31,05	173,92	15,43	242,12	3,39	24,39	32,74	107,42	92,59	14,28	1,56	538 (8)
1957	1	5,63	6,63	138,78	32,96	173,90	21,04	366,68	10,24	29,28	18,87	154,61	170,18	13,25	1,87	622 (8)
1958	1	5,63	7,00	223,22	34,50	194,90	26,06	478,68	11,34	44,13	13,50	158,56	268,37	16,19	1,90	712 (8)
1959	1	5,63	7,20	342,49	36,48	176,85	26,29	582,11	14,78	50,05	14,63	152,25	362,03	15,90	1,87	823 (8)
OTHER INDIAN SCHEDULED BANKS																
1955	71	27,22	20,38	226,91	130,05	16,90	83,61	657,47	35,49	53,31	82,61	308,75	231,24	37,98	5,24	2,307 (88)
1956	71	27,36	20,78	246,68	147,30	222,71	108,64	725,33	36,95	53.52	106,03	372,26	231,86	38,57	6,70	2,359 (86)
1957	73	29,11	23,22	309,84	163,44	232,93	150,91	857,12	38,96	70,10	94,18	432,16	224,13	55,35	7,52	2,584 (88)
1958	76	29,94	22,89	429,24	180,21	254,51	115,55	979,51	43,17	67,68	100,72	468,20	321,52	60,12	6,60	2,851 (87)
1959	77	30,52	24,11	509,99	202,26	288,95	121,25	1,122,45	47,63	76,75	127,40	548,60	355,65	76,43	6,84	3,037 (88)
NON-SCHEDULED BANKS—CLASS A																
1955	62	5,19	3,33	20,80	9,74	13,44	4,46	48,44	4,17	2,25	1,49	23,44	19,47	3,76	37	463 (7)
1956	58	4,91	3,04	21,29	11,05	12,89	5,26	50,49	4,34	1,99	2,14	25,12	19,46	4,18	41	460 (6)
1957	55	3,62	2,00	15,18	4,59	6,63	2,88	29,28	2,58	1,83	1,02	18,98	7,91	1,49	17	387 (5)
1958	45	3,05	1,71	11,09	3,53	5,85	2.70	23,17	2,02	2,10	81	13,88	5,74	1,41	11	291 (4)
1959	39	2,63	99	13,30	4,00	5,75	3,95	27,00	2,30	2,63	80	15,46	5,60	2,16	12	317 (3)
NON-SCHEDULED BANKS—CLASS B																
1955	180	2,39	1,14	12,43	3,15	2,55	1,05	19,18	1,96	1,33	53	11,90	5,36	1,60	23	534 (—)
1956	170	2,25	1,20	13,54	3,49	2,50	1,24	20,77	1,97	1,28	53	12,75	5,78	1,85	25	515 (—)
1957	163	2,10	1,21	13,35	3,27	2,49	1,27	20,38	1,95	1,10	50	12,62	5,49	2,01	27	461 (—)
1958	159	2,13	1,29	14,22	3,57	2,33	1,64	21,76	2,09	1,33	54	13,17	5,31	2,59	26	475 (—)
1959	147	2,04	1,16	14,46	3,50	2,36	1,47	21,79	1,99	1,32	45	13,41	5,14	2,55	28	426 (—)
NON-SCHEDULED BANKS—CLASS C																
1955	98	48	19	1,52	24	38	14	2,28	29	20	7	1,75	38	26	3	116 (—)
1956	93	46	19	1,61	27	36	18	2,42	28	18	5	1,88	42	25	4	112 (—)
1957	75	35	17	1,33	24	35	19	2,11	25	19	3	1,53	37	25	4	94 (—)
1958	74	35	17	1,74	26	40	23	2,63	28	21	3	1,86	52	26	5	93 (—)
1959	76	36	18	1,52	27	32	20	2,31	27	19	3	1,62	43	24	5	81 (—)
NON-SCHEDULED BANKS—CLASS D																
1955	25	5	1	10	4	3	6	23	6	1	—	20	1	1	—	28 (—)
1956	12	2	1	5	—	1	1	7	1	1	—	7	—	—	—	1 (—)
1957	4	1	—	3	—	1	—	4	1	—	—	3	—	—	—	5 (—)
1958	2	†	—	3	—	—	—	3	1	—	—	2	—	—	—	3 (—)
1959	2	†	—	3	—	—	—	3	1	—	—	2	—	—	—	3 (—)

* No. of offices outside the Indian Union are shown in brackets.

† Below Rs. 50,000.

Class A : Banks having paid-up capital and reserves of Rs. 5 lakhs and above.
Class B : Banks having paid-up capital and reserves between Rs. 1—5 lakhs.
Class C : Banks having paid-up capital and reserves between Rs. 50,000—Rs. 1 lakh.
Class D : Banks having paid-up capital and reserves below Rs. 50,000.

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Import, export trade financed by Indian Banks :—The value of imports (estimated on the basis of a sample analysis) and of exports financed by Indian banks in 1958 was Rs. 220·6 crores and Rs. 201·4 crores respectively. The figures for 1957 were Rs. 325·6 crores of imports and Rs. 204·5 crores of exports.

MONEY RATES IN INDIA

	1958	1959
Bank Rate*	4	4
State Bank (former Imperial Bank) Rates:		
Hundi Rate**	5¼–5½	5¼
Advances Rate . ..	4½	4½
Call Loan Rate—		
Rs. 5 lakhs and over	4	4
Below Rs. 5 lakhs ..	4¼	4¼
Bazaar Bill Rates†:		
Calcutta	11½–9	9–10
Bombay	11¼–8¼	9–10 3/16
Call Money Rates:		
Calcutta	4⅝–2	4½–¾
Bombay—		
Larger Banks ..	1⅛	¾
Smaller Banks ..	4 7/16	3¾

* Bank rate was raised to 4 per cent on 16th May 1957. This is the standard rate at which the Reserve Bank is prepared to buy or rediscount bills of exchange or other commercial paper eligible for purchase under the Reserve Bank of India Act.

** The rate at which the State Bank discounts first class three months' commercial bills.

† Rates at which bills of small traders are discounted by shroffs. The quotations are unofficial.

Clearing Houses.—The Principal Clearing Houses in India are those of Calcutta, Bombay and Madras and of these the first two are by far the most important. In 1951-52 Clearing Houses were opened at Bareilly and Jaipur and are being managed by the State Bank of India. This brought the total number of Clearing Houses under the management of the State Bank to 35. In Bombay, a Metropolitan Clearing Association was formed and registered in October 1946 to arrange for clearing for non-scheduled banks as the Bombay Bankers' Clearing House decided to restrict its membership and sub-membership only to scheduled banks.

The total number of cheques cleared has progressively risen since 1950, the amount which has shown a declining trend in 1952 and 1953, has been higher since 1954. The total number of cheques cleared was higher at 4,89,58,820 in 1959, as compared with 4,43,69,120 in 1958 and 4,09,87,003 in 1957.

The figures from 1954 onwards are shown in the table given below :

CLEARING HOUSE STATISTICS

(In lakhs of rupees)

Year	Velocity of Circulation	Calcutta	Bombay	Madras	Kanpur	Delhi	Other Centres	Total
1954 ..	13·0	2,754,28	2,758,75	361,94	141,90	204,70	842,69	7,064,27
1955 ..	13·1	3,056,31	2,995,53	412,21	146,11	233,03	975,82	7,819,01
1956 ..	N.A.	3,079,79	3,235,22	496,24	161,94	197,95*	1,269,97	8,441,11
1957 ..	N.A.	3,094,19	3,416,90	514,24	182,55	323,01*	1,362,34	8,893,23
1958 ..	N.A.	3,309,97	3,621,39	520,56	174,78	357,30*	1,584,53	9,568,53
1959 ..	N.A.	3,469,69	4,075,32	592,32	192,45	440,21	1,932,06	10,702,05

N.A. Not Available. * New Delhi.

CAPITAL MARKET

THE Government of India has so far (up to March 1960) recognised seven stock exchanges, namely, The Stock Exchange, Bombay, The Ahmedabad Share and Stock Brokers' Association, Ahmedabad, The Calcutta Stock Exchange Association Ltd., Calcutta, The Madras Stock Exchange Ltd., Madras, The Delhi Stock Exchange Association Ltd., New Delhi, The Hyderabad Stock Exchange and The Share Brokers' Association, Indore. The recognition for the last two mentioned has been granted for five years in the first instance. The general principles regarding grant of recognition to a stock exchange as laid down in Section 4(1) of the Securities Contracts (Regulation) Act, 1956, has been followed. The Act does not envisage amalgamation, as such, of stock exchanges either before or after recognition is granted under section 4 thereof. Nevertheless, to avoid undue hardship to members of the exchanges which have not been recognised, the Government has prescribed certain terms and conditions on which active members of the unrecognised exchanges can seek admission to the recognised exchange.

Section 13 of the Securities Contracts (Regulation) Act, 1956, has been made applicable to the Greater Bombay area in Maharashtra State with effect from 15th October 1957. The effect of the application of section 13 to the Greater Bombay area is that every contract in this area which is entered into after 15th October 1957, otherwise than between members of the recognised Stock Exchange or through or with such member, is illegal.

Calcutta Association.—The Calcutta Stock Exchange Association was founded at No. 2, New China Bazar Road (now known as 2, Royal Exchange Place), Calcutta, with 150 founder members in 1908. Fifteen years later, it was registered as a limited liability concern. The Association is controlled and managed by a Committee and has a membership of 232 brokers.

The only registered institution in south India of brokers dealing in shares and securities is the Madras Stock Exchange Association, Ltd., registered in 1937.

During the boom period several stock markets were started at other industrial centres. These include Delhi and Kanpur.

The Ahmedabad Stock Exchange is also a registered body and recognised by the Government of Bombay* under the Bombay Securities Contract Control Act.

There are also organised stock markets in Hyderabad and Indore.

SECURITIES ACT

The Securities Contracts (Regulation) Act, 1956, is the first All-India legislation seeking to control transactions on securities and to regulate stock exchange practices. Prior to this Act, there was no legislation for the purpose except in the old State of Bombay.

Broadly speaking, the Act applies to transactions other than spot delivery contracts. But power has been taken in the Act to regulate spot delivery contracts also, if the Government regards it as desirable in the interest of trade or in the public interest.

As regards contracts other than those for spot delivery, the regulation takes the form of either controlling the activities of stock exchanges in those areas or States where stock exchanges operate, or through a system of licensing of persons who deal in stocks and shares. In those areas where the stock exchanges operate and to which Section 13 of the Act will be applied, every contract which is entered into otherwise than between members of a recognised stock exchange in such State or area or through or with such members is illegal.

The Act permits only those stock exchanges to function which are recognised by the Central Government. For this purpose, each stock exchange is required to make an application in the prescribed manner to the Central Government, who will grant recognition if the Government is satisfied in regard to certain conditions. Every recognised stock exchange is required to furnish to the Central Government such periodical returns relating to its affairs as may be prescribed.

Subject to the previous approval of the Central Government, any recognised stock exchange may make bye-laws for the regulation and control of contracts. But the Government has the power to make or amend these bye-laws.

Important provisions relating to the listing of securities on a stock exchange are also contained in the Act. In regard to the licensing of dealers and brokers in securities, there are no detailed provisions.

So also no direct provisions are contained in the Act to restrict the prevalence of black transfers, but there is a provision to discourage black transfers indirectly.

The Securities Contracts (Regulation) Amendment Bill was passed by the Lok Sabha on 17th November 1959. As a result of the amendments, the contracts made by foreign financial investors involving options, which, by their very nature, are not of a speculative character have been exempted from some of the provisions of the Act. Convertible bonds and share warrants contracted by foreign financial investment corporations are exempted from the purview of section 20 of the

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Act. Further, the incorporated stock exchanges are empowered to make rules restricting voting rights to members only restricting the right to appoint proxies and introducing the principle of one member-one vote, and override the Companies Act in this respect.

The Government of India has established a Stock Exchange Directorate which functions under the Department of Economic Affairs of the Union Ministry of Finance, with headquarters in Bombay and branch offices at Calcutta and Delhi. The Directorate is composed of expert officials. It maintains close contact with Stock Exchanges and keeps a careful watch over the activities of operators.

GILT-EDGED MARKET

The gilt-edged market continued to rule generally firm during 1959-60, although the net rise in prices over the year, as measured by the Reserve Bank's index of prices of Government of India securities, was less marked than in 1958-59. Support to the market chiefly stemmed from institutional investors, particularly banks, reflecting the continued excess liquidity in the economy. Governmental borrowing operations had yet another successful year, although the net market borrowing this year was smaller than in 1958-59. On 15th June 1959, the Union Government announcement of their decision to float two cash-cum-conversion loans for a total amount of Rs. 175 crores, was received well as the terms offered were generally in line with the market's expectations; the subscription lists, which were opened on 1st July, were closed on the following day, the amount offered having been fully subscribed.

In August, 13 State Governments entered the market for raising new loans aggregating Rs. 61·5 crores and the response to these loans was excellent, the subscription amounting to over Rs. 100 crores. Notwithstanding the new issues the market continued firm, with pronounced enquiry for short and medium dated issues where a paucity of stocks was reported. The Union Government, therefore, created on 9th October, two further issues of the 3½ per cent Bonds 1969 and the 3¾ per cent loan 1974 for a total amount of Rs. 45 crores which were taken up initially by the Reserve Bank of India on its own investment account for being made available for sale to the public through the usual procedure for the sale of special issues. With the onset of the busy season, market activity generally tended to taper off consequent on the withdrawal of institutional support as is usual at this time of the year, but the undertone remained, on the whole, firm. In January 1960, the Madhya Pradesh Government made a further issue of the 4 per cent Loan 1971 for Rs. 2 crores, which was also fully subscribed.

Reflecting the underlying strength of the gilt-edged market, the trend of Reserve Bank's open market operations continued to be one of net sales almost throughout the year. Net sales by the Bank aggregated Rs. 60 crores in 1959-60, as compared with Rs. 89 crores in 1958-59. Scheduled banks augmented their investment in Government securities, for the third time in succession, the rise during the year amounting to Rs. 101 crores as compared with Rs. 173 crores in 1958-59 and Rs. 93 crores in 1957-58. The share of the State Bank in these was substantial and reflected the investment by that Bank of funds accruing to it under P.L. 480 agreements. Most of the State loans, particularly the new issues floated in August 1959, were in good demand from institutional investors almost throughout the year, although the gains, as in the case of the Central loans were less pronounced than in the preceding year.

The Reserve Bank's average index number of prices of Government of India securities (base: 1952-53=100) rose over the year from 100·5 to 101·1. Among State Loans, the maximum rise of Rs. 1·90 was recorded by the 3 per cent 1964 Madhya Pradesh Loan. Almost all the new 4 per cent 1971 State Loans were quoting at the end to the year, at a premium which ranged upto a maximum of Rs. 1·40 in the case of the Bombay Loan. As in the previous year, consequent on the price increases the yields on Government securities generally tended to lower levels, but the declines were less marked. The yields on State loans declined on an average by about 0·10 per cent as compared with 0·30 per cent in 1958-59. Among Central Loans, the yields on short-dated eased on an average by about 0·10 per cent and on medium and long dated by about 0·05 per cent, as compared with the declines of 0·30 and 0·15 per cent, respectively, in 1958-59. The maximum fall in yield of 0·22 per cent was recorded by the 3 per cent 1966-68 Loan. A notable exception to the general trend was provided by the 3 per cent Conversion Loan, the yield on which rose fractionally by 0·02 per cent as against a decline of 0·18 per cent in 1958-59.

SHARE MARKET

The boom in share values noticed since January 1958 continued during the year under review and, despite occasional setbacks, mainly of a technical character the primary trend remained distinctly upward. The Reserve Bank's index number of prices of variable dividend industrial securities (base: 1952-53 = 100) rose from 146·8 at the end of March 1959 to a new peak of 168·8 during the week ended 12th March 1960 and stood at 161·7 at the close of the year. Over the year, there was thus a net rise of 10 per cent on top of a rise of 16 per cent during 1958-59. The aggregate net rise since January 1958, when the current boom started, amounted to 35 per cent, as against a net fall of about 26 per cent in the earlier bearish phase lasting from September 1956 to December 1957.

Compared to the rise in the variable dividend industrial securities, the rise in the price of fixed dividend industrial securities was much less marked. The index for preference shares registered a net rise of only 1·1 per cent during 1959-60, while that for debentures showed no net variation. In 1958-59, the indices for both had recorded net rises of 5 per cent and 2·6 per cent respectively. The pattern of yields on industrial securities showed a mixed trend; while the yields on debentures and preference shares hardened a little during 1959-60, that on variable dividend industrial securities continued to fall. The average yield on debentures rose fractionally from 4·05 per cent in March 1959, to 4·19 per cent in March 1960. The yield on preference shares declined initially from 5·75 per cent in March 1959 to 5·54 percent in August 1959 but subsequently rose to 5·89 per cent by March 1960. The average yield on variable dividend industrial securities, on the other hand, declined more or less continuously from 5·81 per cent in March 1959 to 5·07 per cent in March 1960, a net fall of 0·74 per cent this followed a net decline of 1·43 per cent in 1958-59 and a rise of 1·19 per cent in 1957-58. The average yield on variable dividend industrial securities at 5·07 per cent for March 1960 showed a decline of about 0·6 per cent as compared with the level of 5·64 per cent reached in August 1956, when the market was on the crest of a boom phase.

From December 1946, the Reserve Bank of India started constructing indices of security prices. These indices (all-India) reveal the following trend :—

Average of Weeks	Government & Semi-Government Securities	Industrial Securities		Banks	Insurance	Investment Trusts	Electricity Generation and Supply	Shipping and other Transport	Railways	Tea Plantations	Cotton, Woollen and Silk Mills	Jute Mills	Coal	Mining	Iron and Steel	General Engineering	Sugar and Breweries	Chemicals	Paper	Cement
		Fixed Dividend	Variable Dividend																	
Base : 1949-50=100																				
1955-56 ..	90·9	87·3	121·6	88·2	103·1	93·4	122·5	106·4	89·2	184·6	117·6	95·3	81·3	235·0	154·1	188·9	104·7	144·1	255·7	164·4
1956-57 ..	90·5	82·9	121·2	93·7	87·2	89·9	112·4	117·8	83·5	170·4	133·7	70·2	78·1	232·7	146·6	187·7	105·0	144·0	266·1	175·7
Base : 1952-53=100																				
1957-58 ..	98·3	88·0	125·4	169·0	108·0	84·0	89·0	123·0	N.A.	144·0	120·0	63·0	89·0	145·0	116·0	N.A.	160·0	109·0	160·0	125·0
1958-59 ..	99·9	87·2	137·3	199·0	127·0	91·0	93·0	134·0	N.A.	145·0	114·0	80·0	107·0	161·0	145·0	N.A.	164·0	123·0	185·0	129·0
1959-60 ..	101·2	92·2	155·3	192·0	137·0	99·0	90·0	125·0	N.A.	160·0	129·0	97·0	114·0	172·0	161·0	N.A.	179·0	167·0	209·0	136·0

N.A.—Not available.

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CAPITAL ISSUES

The new issue market, which had tended to be somewhat slack in 1958-59, blazed into activity during the year under review, reflecting mainly the steadily growing volume of investible funds in the context of a relative scarcity of floating stocks, especially of first class scrips. The response to new industrial issues, as in 1958-59, continued to be excellent, a number of such issues being heavily oversubscribed. According to preliminary official data, the total capital raised by all non-Government companies through shares (other than bonus and debentures amounted to Rs. 65·2 crores in 1959, which was as much as 18 per cent higher as compared to 55·2 crores for 1958. The preliminary figure for 1959 is likely to be revised upwards and it seems likely that the amount of capital raised in 1959 would exceed that in 1957 also (of Rs. 68 crores.)

Data on *consents* for the issue of capital granted by the Controller of Capital Issues indicate a much higher level of investment intentions in 1959 in the private sector. Total consents granted to the private sector (*i.e.* to non-Government companies) for raising capital through shares (other than bonus) and debentures amounted to Rs. 112 crores in 1959—the highest level reached in any year since 1947. The corresponding figures for 1958 and 1957 were Rs. 66 crores and Rs. 77 crores, respectively. Of the increase of Rs. 46 crores in consents to the private sector in 1959, two-thirds were accounted for by initial issues (*i.e.* issues of new companies) which rose steeply from Rs. 18·5 crores in 1958 to Rs. 49·1 crores in 1959, their share in total consents rising from 28 to 44 per cent. Security-wise, ordinary shares accounted for about four-fifths of the total consents to the private sector for shares (other than bonus) and debentures, while preference shares and debentures accounted for about one-tenth each. In 1958, ordinary shares had accounted for 61 per cent, debentures for 25 per cent and preference shares for the balance of 14 per cent of total consents. Foreign participation in the total consents granted to the private sector (*i.e.* excluding Government companies, but including bonus and miscellaneous issues) in 1959 was appreciably higher at Rs. 33 crores as against only Rs. 12·5 crores in 1958. As in 1958, in 1959 also, there were no consents for World Bank loans. Of the total foreign participation of Rs. 33 crores, Rs. 21·7 crores or two-thirds were accounted for by new companies and of this, Rs. 14 crores were in respect of ordinary shares of Oil India (Private) Ltd. In the first quarter of 1960, total consents for shares (other than bonus) and debentures in respect of companies in the private sector (*i.e.* to non-Government companies) amounted to Rs. 11·9 crores of which Rs. 10·6 crores were in the form of shares and Rs. 1·3 crores in debentures. Foreign participation involved, amounted to Rs. 2·2 crores.

An important development in capital issues control during the year was the raising by the Government of India, towards the close of August 1959, of the exemption limit applicable to capital issues (other than bonus issues) laid down under the Capital Issues (Exemption) Order 1959 from Rs. 5 lakhs to Rs. 10 lakhs per year. The exemption limit will apply to all issues of capital (other than bonus issues) except those made by banking and insurance companies and provident societies incorporated as companies, for which irrespective of the amount of issue involved, a consent order would be necessary. For issue of bonus shares either by capitalisation of reserves created out of profits or of share premium also a consent order under the Act would be necessary irrespective of the amount. One other recommendation of the Advisory Committee for liberalisation of capital issues control, which was reported to have been accepted by Government was that, in considering applications for issue of bonus shares, 20 per cent residual reserves test might be relaxed, in suitable cases, on merits at the discretion of the Controller of Capital Issues, and the test of undercapitalisation should be liberalised to the extent of permitting an increase in capital upto the amount of capital employed by the Company.

Control of Capital Issue

(Rupees in Crores)

YEAR	APPLICATIONS*		CONSENTS									
			Total		Initial		Further Others		Further Debenture		Further Bonus	
	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount	No. of Companies	Amount
1952	326	152·33	254	39·79	23	12·69	121	17·57	9	1·75	101	7·77
1953	272	89·79	232	81·39	31	18·34	97	34·42	20	13·92	84	14·72
1954	267	116·98	220	110·57	74	57·94	49	16·49	24	20·29	55	9·88
1955	374	151·42	289	125·39	76	46·90	80	27·48	23	17·33	85	6·47
1956	362	254·49	297	230·15	69	80·29	113	76·67	12	11·40	72	8·50
1957	484	182·73	345	153·32	54	43·32	128	38·34	22	9·08	103	15·40
1958	281	96·93	259	89·45	33	18·50	120	31·46	21	16·30	47	9·88
1959	264	152·60	242	149·58	47	49·09	103	53·27	13	9·90	29	2·88

* Figures relate only to applications disposed of during the period and not to applications actually received during the period.

PUBLIC COMPANIES

The main features of the Company Act are:

(1) Equity shares with differential rights regarding voting, dividend, participation in capital on dissolution, are prohibited.

(2) It puts restrictions on inter-company loans and investments.

(3) There is a ceiling on overall managerial remuneration.

(4) Most decisions of the management and even of the Shareholders of a Company require the approval of the Government before they are put into effect.

(5) The appointment of a managing agent or an associate as a selling or buying agent outside India requires approval by a special resolution.

Working of Companies Act during 1959-60

During 1959-60, a record number of companies totalling 1,452 was registered in the country, according to the fourth Annual report on the working of the Act placed on the table of Lok Sabha on 6th March 1961. Indeed, the current year's registrations slightly exceeded even the total registrations of the year preceding the coming into force of the Companies Act on 1st April 1956. The latest figures would appear to be specially significant in the context of the trend of registrations noticed during the period 1956-57 to 1958-59 when they steadily rose from 848 in 1956-57 to 961 in 1957-58 and to 1,095 in 1958-59.

Of the total number of 1,452 companies formed during the year, 87 were registered as public companies and 1,365 as private companies. The number of newly registered public companies was higher than those registered during the earlier three years. The Statewise distribution of companies further reveals one interesting trend, *viz.* that the number of new company floatations has significantly gone up in the State of Madras during the year under review. As compared with 80 new companies set up in 1957-58 and 113 in 1958-59, the number of newly formed companies during the year under review in that State was as large as 345. During the quarter ending Sept. 30, 1960, 121 companies (15 public and 106 private) with a total authorized capital of Rs. 2,878·33 lakhs were registered in the Western region comprising Maharashtra, Gujarat and Madhya Pradesh.

The total number of Government companies, big and small, set up during the year under review was 23, as against 16 in 1958-59 and 18 in 1957-58. The authorised capital of the 23 Government companies formed during the year totalled Rs. 30 crores as against Rs. 98 crores in 1958-59 and Rs. 9 crores in 1957-58. The total number of Government companies since the present Companies Act came into force upto the end of 1959-60, came to 70.

As before, an overwhelming number of newly formed companies preferred to have managing directors and boards of directors to manage their affairs. In the total of 1,452 new companies 508 proposed to have managing directors and 924 proposed to be run directly by boards of directors. The number of companies which proposed to have managing agents was 14 during the year under review as against 7 in 1958-59 and 15 in 1957-58.

As a result of the vigorous policy to remove the dead weight from the registers of companies, the overall number of joint stock companies at work came down approximately to 26,921 at the end of 1959-60 from 27,479 companies reported to be at work at the end of 1958-59. Notwithstanding this fall in the number of companies, the total amount of paid-up capital of the companies at work increased by Rs. 83 crores during the year under review. In this overall net increase of capital, the amount raised by the newly floated companies was reported to be Rs. 3·6 crores.

During 1959-60, 40 applications involving a total amount of loans worth Rs. 2·26 crores were received seeking approval of the Central Government under Section 295 of the Act, whereas 19 applications relating to the proposed inter-company investments amounting to Rs. 3·25 crores were presented to the Central Government for its approval under Section 372 of the Act. Of the applications made under Section 295 of the Act, 22 applications in respect of loans amounting to Rs. 2 crores were approved and 14 applications relating to loans involving a total sum of Rs. 21 lakhs were either rejected or withdrawn. As regards inter-company investments, of the 26 applications including 7 pending cases from last year, 18 applications relating to the proposed inter-company investments of the

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order of Rs. 1·98 crores were approved and 66 applications involving investments of Rs. 72 lakhs were rejected

The year 1959-60 was a year of stricter enforcement of the provisions of the Companies Act. The Administration had become strict not only in the matter of launching prosecutions for the defaults committed under the various provisions of the Act but also in such matters as giving sanction for the extension of time to hold annual general meetings, the extension of the period covered by the financial years of the accounts etc. As regards prosecution, during the year under review, the Administration launched 5,252 prosecutions under the various sections as against 2,498 in 1958-59, 1,305 in 1957-58 and 572 in 1956-57. Taking the new and old cases together, the Administration followed up 6,894 cases during 1959-60, of which 3,195 cases were decided during the year.

At the end of the year under review, 3,075 companies were in liquidation; 899 were in compulsory liquidation, 29 liquidation under the supervision of the courts and 2,147 in voluntary liquidation. Of the cases under the last-mentioned category 1,504 cases were under members' voluntary liquidation and 643 under creditors' voluntary liquidation. Of the total, about 154 companies were in liquidation for over 15 years, 315 between 10 and 15 years, 951 between 5 and 10 years and 1,655 for less than 5 years.

Tue year under review marked the beginning of the impact of the provisions of Section 330 of the Act, which provided that in the case of companies having managing agents at the commencement of the Act, the term of office of such managing agencies, if it did not expire earlier, was to expire on the 15th August 1960 unless before that date they were re-appointed for a fresh term in accordance with the provisions of the Act. From 1st April 1959 to 15th August 1960, before which date the companies had to comply with the provisions of sec. 330 of the Act in regard to appointment and re-appointment of managing agents, Government accorded approval to 999 cases and 162 cases were either rejected or withdrawn.

The Commission's Report for the year under review reveals the trend of its thinking on the two important matters, *viz.* guarantee commission and sharing of managing agency remuneration with third parties.

In the course of their examination of the proposals of companies for appointments and reappointments of managing agents etc., the Commission's Report says that, in some cases, the amount paid by way of guarantee commission was very high and out of proportion to the remuneration paid to the managing agents in terms of the managing agency agreement. Having regard to the fact that in the great majority of cases, the guarantees had never to be invoked and the loans or advances granted by the lending institutions were usually fully secured by pledges or mortgages, and since the guaranteeing of loans was generally regarded as part of the comprehensive services to be rendered by the managing agents, the Commission came to the conclusion that it would be necessary to impose certain restrictions on the payment of guarantee commission.

As regards sharing of managing agency remuneration with third parties, the Commission also came across certain cases where the managing agents/secretaries and treasurers were sharing their remuneration with third parties in return for certain services rendered by the latter. In some cases, the sharing of remuneration was stated to be on account of certain arrangements entered into with the third parties with a view to procuring their votes in connection with resolutions to be passed by the companies concerned in general meetings. While there would appear to be no legal objection to such sharing arrangements so long as the managed companies are not in any way bound thereby, the Commission is of the view that the sharing of remuneration for purposes such as the procuring of votes can hardly be regarded as a sound business practice and deserves to be discouraged.

An important administrative measure taken during the year under review was the reconstitution of the Company Law Advisory Commission which enquires into and advises the Central Government on matters concerning company management, such as the appointment/reappointment of managing agents, secretaries and treasurers, managing directors and whole-time directors etc. enumerated in Sec. 411 of the Act.

The Report discloses that the administration of the Companies Act yielded receipts under diverse heads to the tune of Rs. 30 lakhs to the Central and to State Governments during the year under review. Receipts from fees alone amounted to Rs. 26 lakhs. The expenditure on the administration of the Act during the year was around Rs. 36 lakhs, and the excess of expenditure over receipts amounting to Rs. 61 lakhs, considering the nature and scope of the Act, was only of marginal significance.

FINANCE CORPORATIONS

Under the Industrial Finance Corporation Act, a Corporation was established on July 1, 1948 to provide medium and long-term finance to public limited companies and co-operative societies registered in India, including the acceding States, and engaged in the manufacture or processing of goods or in mining or in the generation or distribution of electricity or any other form of power. Individuals, partnership firms or private limited companies are thus excluded from the purview of the Corporation's operations. With the setting up of a number of State Financial Corporations, it was agreed that applicants for loans upto Rs. 10 lakhs or 10 per cent of the paid-up capital of the State Financial Corporation of the State in which they are situated, if that was lower than Rs. 10 lakhs, should be advised to apply not to the Industrial Finance Corporation but to the State Financial Corporation concerned.

An Act to provide for the establishment of State Financial Corporations was passed in October 1951. The Act enables the State Governments to establish a Financial Corporation for the State under a name to be specified by notification; and the State Government concerned, the Reserve Bank, scheduled banks, insurance companies, investment trusts, co-operative banks and other financial institutions will be entitled to subscribe to the share capital. Parties other than these can also be shareholders; but their aggregate holding will not exceed one-fourth of the total capital. The shares allocated will not be transferable except to the State Government, the Reserve Bank or any other recognised financial institution.

One more financial Corporation, namely, the Jammu and Kashmir State Financial Corporation was established on 2nd December, 1959.

Up to the end of March 1960, 14 States had established State Financial Corporations—Punjab, Madras, Bombay*, West Bengal, Kerala, U.P., Rajasthan, Assam, Bihar, Madhya Pradesh, Andhra, Orissa, Mysore and Jammu and Kashmir.

Yet other financial corporations are: The Industrial Credit and Investment Corporation of India, the Refinance Corporation for Industry Private Ltd., The National Industrial Development Corporation and The National Small Industires Corporation. For statistical details about these corporations, the State Financial Corporations and the Industrial Financial Corporation see under 'Late Particulars'.

BULLION

The following table gives details about the trend of silver production from 1956 to 1959:—

(In millions of ounces)

Countries	1956	1957	1958	1959
United States of America	38·7	38·7	36·8	24·0
Mexico	43·1	47·1	47·6	43·2
Canada	28·4	28·8	31·1	32·9
Peru	23·0	24·8	24·2	24·0
Bolivia	7·5	5·4	6·0	6·0
Other South and Central American Countries	7·1	6·8	7·6	7·5
Total Western Hemisphere	147·8	151·6	153·3	137·6
Outside the Western Hemisphere	51·7	53·0	58·0	58·0
World Production	199·5	204·6	211·3	195·6
India	0·105	0·126	0·110	0·125

* Bilingual.

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The recent trend of silver consumption (partial data) is given in the following table :—

(In millions of ounces)

	1956	1957	1958	1959
ARTS AND INDUSTRIES				
United States	100·0	95·0	85·0	100·0
Germany	33·1	37·0	31·1	33·3
Great Britain	13·9	14·7	13·5	17·5
Canada	3·8	5·8	3·9	4·4
Japan	8·1	8·2	8·2	13·6
France	15·9	17·9	13·0	10·6
India	17·5	15·0	3·3	2·0
Other Countries	15·0	16·3	25·0	25·0
Total	210·2	213·0	187·4	211·8
COINAGE				
United States	31·2	52·0	36·2	40·7
Saudi Arabia	—	—	—	—
Mexico	4·9	3·1	2·2	1·4
Canada	3·2	3·8	4·7	5·7
Other Countries	17·2	25·3	20·0	30·0
Total Coinage	56·5	84·2	63·1	84·2
Total Consumption ..	266·7	297·2	250·5	296·0

Note : The consumption estimates are by Handy and Harman in their review of the Silver Market of 1959.

In the world silver markets, firm conditions prevailed during the most part of 1959. In the U.S.A., besides the fall in production, the imports were also lower (by about 17 per cent), as the silver from other producing countries normally sold in the U.S.A., was diverted to more advantageous markets. Periodically, domestic consumers bought Treasury silver in varying amounts to meet their requirements, such Treasury sales during 1959 being estimated at 72 million ounces of which sales to industry amounted to 33 million ounces as against only 1·3 million ounces in 1958. The price (per ounce) ranged between 89·88 cents and 91·20 cents as against 89·04 cents in 1958. In the U.K., the last of the wartime restrictions on the import and export of silver were removed during the year and no licences are now required except for import of silver from the U.S.S.R. The price (per ounce) in the London silver market ranged between 75·88d. and 80·25d. during 1959. The average price for the year 1959 stood at 78·82d. as against 76·21d. in 1958.

World production of silver (excluding the Communist bloc countries) fell from 211·3 million ounces in 1958 to 195·6 million ounces in 1959—a decline of 7 per cent. In 1958, the production had risen by 3 per cent. The fall in production during 1959 was attributed largely to the strikes in the non-ferrous metal industry in the U.S.A. On the other hand, demand for silver increased substantially in 1959. World consumption of silver is estimated to have risen by 18 per cent from 250·5 million ounces in 1958 to 296·0 million ounces in 1959 ; in 1958, the consumption had fallen by 16 per cent. Reflecting the improved business conditions the world over the art and industries consumed 13 per cent more (211·8 million ounces) than in 1958 (187·4 million ounces). The coinage consumption too rose from 63·1 million ounces to 84·2 million ounces or by 33 per cent. The marked rise in coinage consumption was due principally to new coinage programmes in France and Italy. Available information indicates that the new coinage programmes will consume 58 million ounces of silver in France and 24 million ounces in Italy. The coinage consumption in the U.S.A., which had fallen from 52·0 million ounces in 1957 to 36·2 million ounces in 1958 also rose to 40·7 million ounces in 1959.

The following table gives the average silver quotations in New York and London from 1952 to 1959:

	New York Average	London Spot
	Cents	Pence
1952	84·94	74·36
1953	85·19	73·94
1954	85·25	73·48
1955	89·10	77·51
1956	90·83	79·13
1957	90·82	78·93
1958	89·04	76·21
1959	91·20	78·82

GOLD

Abroad, fluctuations in international gold prices continued to be confined to a narrow range in 1959 also. In the London gold market, the spread between the high and the low points was slightly lower during the year, being 1s. 9¼d. as compared with 2s. 2¼d. in 1958. In the New York silver market, the range was 1·75 cents—about the same as in 1958.

World production during 1959 (excluding that in U.S.S.R. for which figures are not available) increased by 7 per cent from 30·3 million ounces to 32·4 million fine ounces mainly because of a record production of gold in the Union of South Africa estimated at over 20 million fine ounces. On the demand side, there were indications that the private demand for gold had increased during the year. Although the offtake for purposes of hoarding was reported to have been lower in the Middle and Far East as well as in Europe, the purchase of gold for investment appears to have increased markedly mainly as a hedge against a possible increase in the dollar price of gold. There were important developments during the year facilitating the purchase of gold by private parties. In April 1959, it was announced that the South African Reserve Bank was prepared to sell gold bars to private purchasers resident outside the Sterling Area if the prices offered were better than those quoted on the London market. Substantial purchases of gold were reported to have been made directly from South Africa during the year under the new agreement.

With the restoration, at the end of 1958, of the external convertibility of the pound sterling together with most of the leading world currencies and the permission given in March 1959 to the London gold market for undertaking forward transactions in gold, increasing use was being made of the London market as a clearing house for international settlements. Business which had been diverted to other centres began to flow back to London with the result that the turnover in the London market was reported to have increased by about 50 per cent in 1959. The greater part of the offtake consisted of purchases by Central banks in Europe and elsewhere. During 1959, total official gold stock (excluding the Chinese-Soviet group of countries) increased by $819 million as against $905 million in 1958. Soviet gold sales during the year were larger than in 1958 and were estimated at about 7 million ounces as against 6 million ounces in the previous year. The price of gold in the London market ranged between 248s. 11⅞d. and 250s. 9d. per ounce. The average price for the year 1959 at 249s. 10·34d. was nearly the same as in 1958—(249s. 9·51d.).

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World Gold Production

(In thousands of fine ounces)

Countries	1954	1955	1956	1957	1958	1959*
I. Commonwealth	20,623*	21,926	22,994	24,331	25,180*	27,250
(a) Australia	1,118	1,049	1,030	1,084	1,100	1,075
(b) Canada	4,366	4,542	4,384	4.434	4,571	4,450
(c) Ghana	787	687	638	790	853	900
(d) India	239	211	209	179	170	165
(e) New Zealand	42	26	26	30	25	25
(f) Southern Rhodesia	536	525	536	537	555	570
(g) Union of South Africa	13,237	14,601	15,897	17,031	17,656	20,060
(h) Others	298	285	274	246	250*	275
II. Latin American Countries						
(a) Brazil	153	145	162	150	186	180
(b) Chile	125	123	94	104	111	110
(c) Colombia	377	381	438	325	372	380
(d) Mexico	396	383	350	346	322	315
(e) Peru	147	171	159	165	159	150
III. United States of America	1,859	1,877	1,865	1,800	1,759	1,600
IV. All Countries†	25,850*	27,200	28,300	29,400	30,300*	32,405
Commonwealth percentage	79·8	80·6	81·3	82·8	83·1	84·9
Union of South Africa percentage	51·2	53·7	56·2	57·9	58·3	61·9

* Provisional figures. † Excluding U.S.S.R.

Assaying and Refining of Gold and Silver

Some relevant statistical data are given below:— (Thousands of tolas)

Year	Melting and Assaying		Refining	
	Gold	Silver	Gold	Silver
1954–55	75	73,67	13.39	8,19
1955–56	20	45,38	10,42	17
1956–57	11	144,18	10,77	12
1957–58	12	130,71	9,63	7
1958–59	8	84,31	13,53	19
1959–60	8	66,38	8,35	—

In India, the domestic production of gold declined further—for the fifth year in succession—during 1959. The output (the whole of which, is being acquired by the Government of India since June 1958) amounted to 165,396 ounces in 1959 as compared with 170,109 ounces in 1958; it was 239,168 ounces in 1954. The decline in production was mainly due to the continued fall in the grade of the ore mined and temporary suspension of operations due to labour trouble in one of the Mysore mines. In silver, the output, which had declined sharply in 1958 to 109,827 ounces, rose to 124,799 ounces in 1959, which, however, was still somewhat lower than that in 1957 (125,838 ounces). The tight supply position in both metals arising from the virtual drying up of other sources of supplies was further accentuated by sustained demand and led to boom conditions in the market.

During 1959-60, the ready rate in gold recorded a rise of Rs. 10·06 (or 8·4 per cent) from Rs. 120·28 to Rs. 130·34 per tola; in 1958-59 the rise was Rs. 8·97 (or 8·1 per cent). In silver, the rise during 1959-60 was Rs. 16·62 (or 8·3 per cent) from Rs. 199·94 to Rs. 216·56 per 100 tolas; in 1958-59, the rise was Rs. 4·19 (or 2·1 per cent).

Reflecting a tight supply position in the face of sustained demand for the ready, futures trading in the Bombay bullion market under the auspices of the Bombay Bullion Association was characterised by an orgy of speculation, with bulls dominating the market aided among other things, by the boom in the stock and commodity markets.

Automatic margin under bye-laws 33C and 33D came into operation more frequently than in 1958-59. Margins in terms of bye-laws 33C, which are based on price variations, became operative ten times in gold and eleven times in silver as compared to three times in gold and six times in silver during the preceding year. Similarly margins in terms of bye-laws 33D, based on changes in the budla rates, became operative nineteen times in gold and fourteen times in silver as against twelve times in gold and five times in silver during 1958-59. Special clearings, under bye-law 104(2), designed to ensure prompt payment of differences when price fluctuations become excessive were necessitated thrice during the year as against twice in 1958-59.

A small increase in the volume of futures business in silver from 0·8 million bars (each bar weighing approximately 1,000 ounces) in 1958-59 to one million bars in 1959-60; the turnover in gold, however, showed a small decline from 36·8 million tolas to 36 million tolas. The unhealthy trends in the market, as indicated by successive rises in bullion prices, became more pronounced during the latter part of the year, necessitating the resort, in November 1959, to bye-law 33A(3) under which the Board is empowered to impose special margins and more importantly, the adoption by the Board, later in the year, of measures to further tighten up the existing margin system through the amendment of bye-law 33A and to provide relief to bears through the amendment of bye-law 33D.

Smuggled gold seized by Customs during 1956, 1957 and the first half of 1958: 378,183 tolas of gold and 1,887 sovereigns.

This was because price in India was around Rs. 105 per tola, as against Rs. 62·50 per tola outside.

The following statement gives the highest and lowest spot prices of gold and silver in Bombay with import duties from 1952-53 to 1959-60:—

Year.	Gold (per fine tola). Highest.	Lowest.	Average.	Import Duty.	Silver (per 100 tolas gross). Highest.	Lowest.	Average.	Import Duty.
	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.
1952-53	95 14 0	77 5 0	88 0 1		174 12 0	141 12 0	159 8 4	
1953-54	93 6 0	79 8 0	86 1 6		167 14 0	148 14 0	157 4 10	9 13 6
1954-55	95 6 0	83 0 0	89 2 4	13 2 0	173 14 9	147 15 0	159 3 9	
1955-56	107 1 0	89 6 6	95 13 8		183 13 0	154 12 0	168 11 6	
1956-57	109.62 nP.	98·94 nP.	104·52 nP.		187.37 nP.	168·69 nP.	175·63 nP.	9·84 nP.
1957-58	114·37 nP.	104·50 nP.	108·46 nP.	13·12 nP.	196·06 nP.	177·19 nP.	184·66 nP.	18·75 nP.
1958-59	120·50 nP.	104·19 nP.	112·08 nP.	15·00 nP.	202·00 nP.	178·44 nP.	190·06 nP.	18·75 nP.
1959-60	125·94 nP.	116·50 nP.	120·96 nP.	15·00 nP.	218·25 nP.	191·87 nP.	205·38 nP.	18·75 nP.

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NATIONAL INCOME

ACCORDING to preliminary estimates, national income (at constant prices) for 1958–59 recorded a significant rise over the previous year; this followed a set-back experienced in 1957–58 to the steadily rising trend noticed since 1949–50. At constant (1948–49) prices, the preliminary estimate of national income, that is, net national output at factory cost for 1958–59 is placed at Rs. 11,690 crores as compared to the revised figure of Rs. 10,890 crores for 1957–58; the rise in 1958–59 was of the order of 7·3 per cent in contrast to the decline of 1 per cent in 1957–58. The per capita income at constant prices during 1958–59 rose by 6 per cent to Rs. 293·6, as against a decline of 2·2 per cent in 1957–58. The increase in national income during 1958–59 was brought about mainly by the substantial expansion in agricultural production during the year. Out of a total increase of Rs. 800 crores (at constant prices) in national income in 1958–59, the "agricultural sector" accounted for as much as Rs. 570 crores. Among the other sectors, there was a rise of Rs. 100 crores under "commerce, transport and communications", of Rs. 120 crores under 'other sectors', and Rs. 10 crores under "mining, manufacturing and small enterprises".

Expressed at current prices, national income in 1958–59 worked out at Rs. 12,470 crores or Rs. 10,70 crores higher than in 1957–58 (revised). Per capita income at current prices also showed a rise from Rs. 290·1 in 1957–58 to Rs. 313·2 in 1958–59.

The national income of India in real terms recorded a rise of 0·5 per cent in 1959–60 over 1958–59, according to the "quick" estimates prepared by the Central Statistical Organisation on the basis of the trends disclosed by the current available data. There was a fall of 3·9 per cent in agriculture (proper) the contribution of which accounted for 38·7 per cent of the total national income in 1959–60 as compared with 40·5 per cent in 1958–59. This fall in agriculture, was, however, more than offset by increases in other sectors, which taken together, registered a rise of 3·4 per cent. in 1959–60 over 1958–59, bringing about an increase in the contribution of these sectors from 59·5 per cent in 1958–59 to 61·3 per cent in 1959–60. The present estimates are tentative as they are based on certain advance information and may be revised in the annual paper prepared by the Central Statistical Organisation for 1959–60.

The table below indicates the trend of national income (or net national output) at 1948-49 prices since 1949-50:

Year	Net National Output at 1948-49 prices (Rs. crores)	Per capita net output at 1948-49 prices (Rs.)
1949-50	8,820	248·6
1950-51	8,850	246·3
1951-52	9,100	250·1
1952-53	9,460	256·6
1953-54	10,030	268·7
1954-55	10,280	271·9
1955-56	10,480	273·6
1956-57	11,000	283·5
1957-58	10,890	277·1
1958-59	11,650	292·6
1959-60 .. .. (Preliminary)	11,760	291·6

According to the paper, during the First Five-Year Plan period (1951-52 to 1955-56) the national income in real terms increased by 17·7 per cent, as against the original plan target of 11 per cent. The corresponding rise in the per capita income was 10·5 per cent.

BY ORIGIN

The following table indicates national income (at constant prices) by industrial origin:

(In crores of Rs.)

	1957-58	1958-59 (Preliminary)
Agriculture, animal husbandry and ancillary activities	5,010	5,580
Mining, manufacturing and small enterprises	1,860	1,870
Commerce, transport and communications	2,110	2,210
Other Services	1,920	2,040
Total	10,890	11,690

Expressed at current prices, the rise was very significant and higher, from Rs. 11,400 crores in 1957–58 to Rs. 12,470 crores in 1958–59 or 9·3 per cent.

The per capita national income at current prices, however, showed a slight decline from Rs. 291·5 in 1956–57 to Rs. 290·1 in 1957–58. In 1958–59, it was again higher at 313·2.

In 1958–59, the rise in national income was contributed by the agricultural sector of the economy. The rise in the share of agriculture, animal husbandry and ancillary activities in 1958-59 amounted to Rs. 900 crores. The share of mining, manufacturing and small enterprises rose by Rs. 20 crores. The share of commerce, transport and communications also increased by Rs. 40 crores. The rise in the share of other services was Rs. 110 crores.

In terms of *current* prices, there was a strident improvement in the agricultural sector, from Rs. 5,290 crores in 1957-58 to Rs. 6,190 crores in 1958–59, or by 17·0 per cent.

More detailed figures over a longer period are given below.

INDEX NUMBERS

The index numbers of national and per capita incomes are given below (1948-49 = 100)

Year	National Income		Per Capita Income	
	At current prices	At 1948-49 prices	At current prices	At 1948-49 prices
1954–55	111·1	118·8	103·0	110·1
1955–56	115·4	121·2	105·5	110·8
1956-57	130·8	127·2	118·1	114·8
1957-58	131·8	125·9	117·5	112·6
1958–59 .. .. (Preliminary)	144·2	135·1	126·9	118·9

NATIONAL INCOME BY INDUSTRIAL ORIGIN AT CURRENT PRICES

(In Rs. Abja*)

Item	1958-59 (Preliminary)	1957-58	1956-57	1955-56	1954-55	1953-54
Agriculture:						
Agriculture, animal husbandry and ancillary activities ..	60·4	51·4	53·8	43·9	42·3	52·0
Forestry	0·8	0·8	0·8	0·7	0·7	0·6
Fishery	0·7	0·7	0·6	0·6	0·5	0·5
Total of Agriculture ..	61·9	52·9	55·2	45·2	43·5	53·1
Mining, Manufacturing and Hand-trades:						
Mining	1·3	1·4	1·2	1·0	0·9	1·0
Factory establishments	10·0	9·8	9·0	7·8	7·5	6·9
Small enterprises	10·1	10·0	9·8	9·7	9·6	9·8
Total of Mining, etc. ..	21·4	21·2	20·0	18·5	18·0	17·7
Commerce, Transport and Communications:						
Communications	0·6	0·5	0·5	0·5	0·4	0·4
Railways	3·3	3·2	2·8	2·5	2·2	2·0
Organised banking and insurance	1·2	1·2	1·1	0·9	0·8	0·8
Other commerce and transport ..	16·0	15·8	15·2	14·9	14·7	14·8
Total of Commerce, etc. ..	21·1	20·7	19·6	18·8	18·1	18·0

* Abja = Rs. 100 crores.

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NATIONAL INCOME BY INDUSTRIAL ORIGIN AT CURRENT PRICES—(*Contd.*).

Item	1958-59 (Preliminary)	1957-58	1956-57	1955-56	1954-55	1953-54
Other Services:						
Professions and liberal arts ..	6·4	6·2	5·8	5·6	5·4	5·3
Government Services (Administration)	7·3	6·6	6·1	5·7	5·2	4·9
Domestic Service	1·7	1·6	1·5	1·4	1·4	1·4
House Property	5·0	4·9	4·8	4·6	4·5	4·4
Total of Other Services ..	20·4	19·3	18·2	17·3	16·5	16·0
Net domestic product at factory cost	124·8	114·1	113·0	99·8	96·1	104·8
Net earned income from abroad..	—0·1	—0·1	0·1	0·0	0·0	0·0
Net National Output at factory cost=NATIONAL INCOME..	124·7	114·0	113·1	99·8	96·1	104·8

VALUE OF PRODUCE

The net value of all agricultural commodities produced in 1950-51 was Rs. 4,112 crores. This figure is derived from the Final Report of the National Income Committee (Delhi, 1954). Corresponding figures for a later year are not yet available. The values of some of the individual commodities are as follows (in Rs. crores):

Arhar 83, Bajra 81, Barley 80, Coconut 76, Cotton 113, Chillies 68, Gram 147, Ground-nut 216, Jowar 194, Rape and Mustard 69, Rice 1,119, Straw 591, Sugarcane 305, Tobacco 71, Wheat 334.

The total net contribution of the manufacturing industries to the national dividend was Rs. 513·4 crores in 1950. The contribution of some individual industries are given below (Rs. crores):

Banking 36·29, Insurance 22·85, Co-operative Societies 5·98.

Automobiles and coach building 7·4, Cement 8·5, Chemicals 14·0, Cotton textiles 107·9, General and electrical engineering 29·4, Iron and Steel 26·9, Jute textiles 46·6, Paper and paperboard 6·6, Rubber and rubber manufacturing 10·1, Sugar 35·8, Tea manufacturing 69·3, Tobacco products 10·5, Vegetable oils 11·7.

Income from health and medical services 116, educational services 69, arts, literature and science 66, legal 32, religions and charitable 47, sanitary 37, domestic service 130.

SHARE OF GOVERNMENT IN DOMESTIC PRODUCT AND EXPENDITURE IN THE INDIAN UNION

Items.	1957-58		1956-57		1955-56		1954-55		1948-49	
	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent	Rs. (Abja)	Per cent
Net output of Government Enterprises	5·1	4·5	4·8	4·2	4·2	4·2	3·6	3·8	2·4	2·8
Net output of Government Administration ..	6·6	5·8	6·1	5·4	5·7	5·7	5·2	5·4	4·0	4·6
Net output of the private sector	102·4	89·7	102·1	90·4	89·9	90·1	87·3	90·8	80·3	92·6
Net Domestic Product	114·1	100·0	113·0	100·0	99·8	100·0	96·1	100·0	86·7	100·0
Government Current Expenditure on Commodities and Services..	9·2	7·5	7·9	6·5	7·2	6·8	6·7	6·5	6·4	7·1
Government administrative capital expenditure ..	2·3	1·9	2·3	1·9	2·2	2·1	1·6	1·6	1·0	1·1
Government enterprises capital expenditure ..	6·0	4·9	4·6	3·8	3·5	3·3	2·7	2·6	1·1	1·2
Net National Expenditure at market price ..	122·9	100·0	120·8	100·0	106·6	100·0	102·3	100·0	90·6	100·0
Government Draft on Private Income :—										
Direct Taxes	3·2	2·8	2·9	2·5	2·6	2·6	2·4	2·5	2·4	2·8
Indirect Taxes	7·9	6·8	6·5	5·7	5·6	5·5	5·2	5·4	3·6	4·1
Miscellaneous Fees, etc.	1·5	1·3	1·5	1·3	1·4	1·4	1·1	1·1	0·9	1·0
Private Income	115·7	100·0	114·6	100·0	101·3	100·0	97·1	100·0	87·2	100·0
Gross Capital Formation on Government account ..	8·3	..	6·9	..	5·7	..	4·3	..	2·1	..

ESTIMATE OF NET OUTPUT PER ENGAGED PERSON : 1948-49

	Net Output (Rs. crores)	No. of Persons Engaged (crores)	Net Output per Engaged Person (Rs.)
Agriculture	4,890	10·36	500
Mining and Factory Establishments	620	0·37	1,700
Small Enterprises	910	1·15	800
Railways and Communications	220	0·14	1,600
Banking, Insurance and other Commerce and Transport	1,470	0·97	1,500
Professions and Liberal Arts	470	0·64	700
Government Services (Administration)	430	0·39	1,100
Domestic Service	130	0·29	400
Total of other Services ..	1,030	1·33	800
NET DOMESTIC PRODUCT AT FACTORY COST	9,550	14·32	670

INCOME DISTRIBUTION COMMITTEE

It must be added that the Planning Commission has constituted a Committee on Income Distribution and Levels of Living. The Committee's terms of reference are: To review changes in levels of living during the First and Second Five Year Plans; To study recent trends in the distribution of income and wealth and, in particular, to ascertain the extent to which the operation of the economic system has resulted in concentration of wealth and means of production.

The Committee will consist of:

Professor P. C. Mahalanobis (Honorary Statistical Adviser to the Government of India), Dr. V. K. R. V. Rao (Director, Institute of Economic Growth, Delhi), Dr. P. S. Lokanathan (Director-General, National Council of Applied Economic Research), Dr. B. N. Ganguli (Director, Delhi School of Economics), Vishnu Sahay (Cabinet Secretary), D. L. Mazumdar (Secretary, Department of Company Law Administration), Dr. B. K. Madan (Executive Director of the Reserve Bank of India), B. N. Datar (Adviser, Ministry of Labour and Employment) and P. C. Mathew (Director, Central Statistical Organisation) (Member-Secretary).

The Committee's enquiry will be at the expert level, its primary object being to ascertain such statistical and economic data as may be gathered at present, to identify the gaps in the existing information and to suggest steps for removing these deficiencies in the future.

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NEW METRIC SYSTEM OF WEIGHTS AND MEASURES

THE country started adopting the metric system of weights and measures on 1st October 1958.

On that date the units of mass were introduced in selected areas, and the metric system generally in certain specified industries and Government departments.

The law (The Standards of Weights and Measures Act, 1956) provides that the system should be adopted in the country within a period of ten years of the date of its enactment.

The law was passed in December 1956. After December 1966, therefore, it will be the only system recognized by law in the country.

Legislation for the enforcement of the new weights and measures has been enacted in all the States and Union Territories. They have also set up Departments of Weights and Measures under Controllers of Weights and Measures. Inspectors of Weights and Measures have been verifying and testing metric commercial weights for use in the areas which have adopted the new weights.

The Act was brought into force in regard to weights in selected areas, covering about a tenth of the country on Oct. 1, 1958. These areas are listed below. The continued use of weights then in vogue was allowed for a period of two years. This period ended on Sept. 30, 1960. The use of any weights other than metric in trade became illegal in these areas on Oct. 1, 1960.

Metric weights and measures were also introduced in transactions by establishments in major industries on Oct. 1, 1958—in the jute industry they came into force on July 1—though the retail trade was unaffected. A list of these industries is given below. Here also a period of two years was allowed in which the old weights and measures could be used. Since Oct. 1, 1960 these industries have been using the metric system.

Progressively more and more industries come within the purview of the Act always with a period of transition when the old and the new exist side by side. At the end of the transition period which could vary with each industry the new weights become compulsory and the old illegal. On Oct. 1, there were about 23 industries in this category. The textile trade was affected in April 1961.

It was also decided that Government departments and industrial undertakings could use the system from Oct. 1, 1958. A list is given below.

The commercial branch of the railways adopted the system on April 1, 1960. In passenger fare and freight tables distances are now expressed in kilometres and weights in quintals and kilogrammes. Distance along the track is now marked in kilometres.

It is necessary to add that industries which have not so far been notified for the use of metric weights and which are situated in the selected areas have also to use the new weights as from Oct. 1.

PROGRESS

About extension to other areas or the introduction of metric measures of length and capacity plans are still in a tentative stage.

On 4th Sept. 1959 a meeting of Controllers of Weights and Measures of the States and Union Territories was held in the Ministry of Commerce and Industry, to review the progress of the preparatory work for the introduction of the metric system in the country.

The meeting also agreed that, as far as possible, all the equipment needed for enforcement of weights and measures should be produced in India. Standard Weights and Measures are manufactured at the Government Mints.

With the coming into force of the States' Weights and Measures (Enforcement) Acts, all weights, measures, and weighing and measuring instruments must conform to the specifications laid down. A large number of machines now in use may not be according to specifications. It will not be practicable to ban the use of these machines immediately. Further, while most users of weighing machines may convert them to the metric system, others may choose to retain them as they are, and use them with conversion tables.

Provision is made in the Enforcement Rules of States to enable the State Government to permit for a specified period the continued use of any weighing or measuring instrument that was in use when the Rules came into force.

There is enough manufacturing capacity in the country to meet the demand for the new weights and measures.

There are about 242 licensed manufacturers, including some units in the public sector, and 972 dealers of metric weights and measures. They can meet the country's demand of weights and measures. It is hoped that manufacture of inspectors' balances would soon be adequate to meet the country's demands.

According to an estimate made by the National Sample Survey, there are about 54 million weights and 1 million measures in use all over the country.

A note may be added here about the adoption of the new system in higher technical education. The question was considered at a meeting of principals of technical institutions in New Delhi in Oct. 1960. The problem had become urgent because the metric system had been adopted in all the major industries.

At the same time, for several years to come, the foot-pound system would also have to be taught. Thus it was necessary that both the systems would have to be used simultaneously in engineering colleges. This might impose an extra load on teachers and students, but this was unavoidable.

The Principals agreed that there would be no major difficulty in adopting the metric system. The conference unanimously recommended the adoption of the metric system in teaching in the first and second year classes commencing from the academic session, 1962-63. The following year, i.e., 1963-64, it would be introduced in the third and fourth year classes, to be followed by the introduction in the fifth and final year classes in 1964-65.

It was explained that heads of technical institutions would take preparatory action to implement the programme. Steps would be taken to provide the institutions with measuring tools and instruments calibrated in metric units. The instruments now in use would be recalibrated wherever necessary and possible. All instruments to be purchased in future would be in the metric system. Steps would also be taken to encourage the production of text books either by translation from German or Russian or by adaptation of English text books.

AREAS

The areas in which metric weights were introduced on October 1, 1958 and became compulsory on Oct. 1, 1960 are as follows:

Andhra Pradesh: Districts of Vishakapatnam, Krishna, Guntur, Kurnool, Hyderabad, Warangal, Nizamabad.

Assam: Municipal area of Gauhati and District of Nowgong.

Bihar: Divisions of Bhagalpur and Ranchi and the Municipal and Notified areas in the districts of Patna, Gaya, Arrah, Chhapra, Muzzafarpur, Champaran and Darbhanga.

Gujarat: Municipal areas of Ahmedabad, Rajkot, Baroda, and all the Regulated Markets in the State.

Kerala: Districts of Kozhikode, Ernakulam and Quilon.

Madhya Pradesh: Districts of Sehore, Indore, Gwalior and Jabalpur.

Madras: Districts of Madras, Chingleput, South Arcot and North Arcot and all the Regulated Markets.

Maharashtra: Municipal areas of Bombay, Poona, Nagpur, Aurangabad, Sholapur, Kolhapur, Akola, Amravati, Wardha, Yeotmal, and the Regulated Markets.

Mysore: Districts of Bangalore, Raichur and Dharwar and the Regulated Markets.

Orissa: Municipal areas of Berhampur, Cuttack and Sambalpur.

Punjab: Districts of Amritsar, Jullundur, Ludhiana, Ambala, Patiala and Gurgaon and all the Regulated Markets.

Rajasthan: Districts of Ajmer, Bikaner, Jodhpur, Jaipur, Kotah and Udaipur.

Uttar Pradesh: Municipal areas of Meerut, Agra, Lucknow, Bareilly, Moradabad, Varanasi, Kanpur, Jhansi, Allahabad and Gorakhpur.

West Bengal: Municipal areas of Calcutta and Howrah.

In the case of Union Territories, the metric system was introduced in the whole of Delhi, in the two districts of Mandi and Sirpur in Himachal Pradesh, in the municipal areas of Imphal in Manipur, in the municipal area of Agartala in Tripura and in Port Blair in the Andaman and Nicobar Islands and the whole of Pondicherry.

Government Departments

The Government Departments in which the provisions of the Act came into force on 1st October 1958 by a notification dated 24th June were as follows:

1. The Indian Airlines and Air India International Corporations in so far as they undertake air transport services, except in matters relating to air distances and speed of aircraft.
2. Government Departments and commercial and industrial undertakings owned or controlled by Government in so far as they undertake the purchase or supply of stores, including drugs.
3. Government Departments in so far as they undertake survey of *land* or *mines*.
4. Government Departments in so far as they undertake the study or publication of any technical, scientific or marketing data relating to weather, irrigation and power projects or undertake drawings and specifications of scientific apparatus for use in laboratories and educational institutions except in matters relating to air distances and speed of aircraft.

The Customs and Central Excise, the Ports the Commercial Branches and Shipping and Import Trade Control adopted the system on Oct. 1, 1960. Legislation has been enacted expressing all customs and central excise duties with reference to metric units. The prevailing rates of duties were converted to metric units and appropriately rounded off without any significant change.

The Rajya Sabha on Dec. 15, 1960, returned, after a short debate the Indian Post Office (Amendment) Bill, as passed by the Lok Sabha.

The metric system came into effect in all postal transactions from Feb. 1, 1961.

The Bill seeks to introduce the metric system of weights and measures in Postal transactions.

Industries

The industries in which the Act came into force on 1st October 1958 were as follows:

*1. Cotton textile mills in so far as they undertake the purchase of cotton or sale of cloth.

* From April 1, 1961, textile mills can use only the metric system in the case of all textile goods.

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2. Iron and Steel factories in so far as they undertake the purchase of raw materials or sale of iron and steel products.
3. Factories engaged in engineering industry in so far as they undertake the sale of their products.
4. Factories engaged in the manufacture of heavy chemicals in so far as they undertake the purchase of raw materials or sale of their products.
5. Factories engaged in the manufacture of cement in so far as they undertake the sale of cement.
6. Factories engaged in the manufacture of salt in so far as they undertake the sale of salt.
7. Factories engaged in the manufacture of paper, pulp, or paper board in so far as they undertake the sale of paper, pulp, or board.
8. Factories engaged in the manufacture of refractories, in so far as they undertake the sale of refractories.
9. Coffee Board in so far as it undertakes the sale of coffee from the surplus pool either by itself or through its agents.
10. Factories engaged in the manufacture of copper, aluminium, lead, antimony and tin in so far as they undertake the sale of copper, aluminium, lead, antimony and tin including alloys and products of these metals.
11. Associations recognised by the Central Government under section 6 of the Forward Contracts (Regulation) Act, 1952 (74 of 1952) in so far as they undertake the regulation and control of forward contracts in cotton.
12. Sale of raw rubber.

On April 1, 1960 four more industries adopted the metric system—vanaspati, paint, biscuits and soap. The transition period for vanaspati and soap is six months, for paint one year and for biscuits two years.

The cement industry began packing cement in bags of 50 kilogrammes net from Oct. 1, 1960.

The distribution of petroleum products also started on April 1, 1960. All the petrol dispensing pumps have been converted to the metric system and petrol is retailed in litres.

THE ACT OF 1956

The Standards of Weights and Measures Act, 1956, is as is already mentioned, the basic law on the subject.

It now extends to the whole of India.

The Act was passed by Parliament in 1956 December, and some of its provisions came into force, as already mentioned, on 1st October 1958.

Within a period of ten years of its enactment the whole country is expected to adopt the metric system in full.

The units mentioned in the Act are as follows:

The primary unit of length is a metre, of mass a kilogram, of time a second, of electric current an ampere, of temperature the degree centigrade, of luminous intensity the candela, of area the square metre, of volume the cubic metre.

The primary unit of mass for precious stones shall be a carat which is equal to one-five-thousandth of one kilogram.

The Central Government may by notification declare the secondary units of mass and measures provided it is a power of ten, positive or negative.

In any area, or class of goods, or undertakings in which any provisions of this Act have been put in force, the Central Government can still permit the continuance of the use of such non-metric weights and measures as may be prevalent immediately before the coming into force of the Act in addition to the standard weights and measures that might have been put into force.

But the period for which the continuance of such use is permitted cannot exceed three years.

The Central Government can make rules to carry out the purposes of this Act, among others about the limits of error which may be tolerated in the use of the standard weights and measures.

The Act repeals the Measures of Length Act, 1889 and the Standards of Weight Act, 1939, and any provisions in the following Acts which correspond to any provisions in the present Act:

1. The Assam Adoption of Standard Weights Act, 1955 (IX of 1955).
2. The Bhopal State Weights and Measures Act, 1953 (XV of 1953).
3. The Bihar Weights Act, 1947 (XVII of 1947).
4. The Bombay Weights and Measures Act, 1932 (XV of 1932).
5. The Central Provinces and Berar Weights and Measures of Capacity Act, 1928 (II of 1928).
6. The Cochin Weights and Measures Act, 1112 (LXIII of 1112).
7. The Coorg Act, 1954 (VII of 1954).
8. The Hyderabad Weights and Measures Act, 1356 Fasli (XIV of 1356 Fasli).
9. The Madhya Bharat Weights Act, 1954 (21 of 1954).
10. The Madras Weights and Measures Act, 1948 (XXII of 1948), as in force in the State of Madras or of Andhra.
11. The Mysore Weights and Measures Act, 1902 (III of 1902).
12. The Orissa Weights and Measures Act, 1943 (VII of 1943).
13. The Punjab Weights and Measures Act, 1941 (XII of 1941).
14. The Rajasthan Weights and Measures Act, 1954 (XIX of 1954).
15. The Travancore Weights and Measures Act, 1085 (VI of 1085).
16. The United Provinces Weights and Measures Act, 1947 (XXIII of 1948).

The tables to enable conversion from non-metric to metric or *vice versa* weights and measures, which are given in the First Schedule to the Act, are reproduced below:

1 grain	= 0·000064799	kilogram.
1 ounce	= 0·0283495	,,
1 pound	= 0·4535924	,,
1 cwt.	= 50·802	,,
1 ton	= 1016·05	,,
1 tola	= 0·0116638	,,
1 seer	= 0·93310	,,
1 maund	= 37·3242	,,

Standards of Length and Capacity

1 inch	= 0·0254	metre (exact).
1 foot	= 0·3048	,, (,,).
1 yard	= 0·9144	,, (,,).
1 mile	= 1,609·344	,, (,,).
1 imperial gallon	= 4·54596	litres.

ENFORCEMENT ACT

The model Bill for the enforcement of weights and measures approved by a Conference called by the Standing Metric Committee in July 1957 has been accepted by all State Governments, and legislation based on the Bill has been enacted in all States. The State Acts are identical in substance.

It should be emphasized that Weights and Measures laws cannot be effectively administered without a special agency like an Inspectorate of Weights and Measures.

The 1939 Law made by the Central legislature was ineffective largely because even those States which made laws for enforcing the standards had no special agencies for this purpose. Enforcement was left to the police.

The only States that had special agencies were Bombay,* Bihar, Mysore, Andhra and the Punjab.

The position is different today. All State Governments have set up special departments of Weights and Measures.

The main provisions of the Madras Act, summarized below in non-legal language will serve as an example of the sort of Enforcement Acts which will be in force:

The Government will have sets of authenticated standard weights and measures which may be called working standards. They will also have sets of secondary standard weights and measures.

There will also be many sets of weighing and measuring instruments to verify the correctness of commercial weights and measures used in trade, business or commercial transactions.

No unit of mass or measure other than standard weight or measure can be used in any transaction once the Act has come into force in any area or in relation to any class of undertakings or goods.

Punishment for the transgression of this is a fine which may extend to Rs. 500 for a first offence, and for a second or subsequent offence with imprisonment for a term which may extend to three months, or with fine, or with both.

The Government has also the power to declare that any specific transaction can be conducted by weight only or by measure only.

Punishment for contravention will be a fine which may extend to Rs. 500.

Every weight or measure used in a transaction shall be made of such material and according to such design as may be prescribed and shall bear the description of the weight or measure marked legibly on it.

No commercial weight or measure or weighing or measuring instrument can be sold or delivered unless it is verified or re-verified, in the proper way.

Punishment for contravention is a fine which may extend to Rs. 500.

No one can have for sale any article which is sold by weight or measure in a sealed container unless the container shows the net weight or measure of the article.

Punishment for contravention for a first offence, a fine which may extend to five hundred rupees, and for a second or subsequent offence, imprisonment for a term which may extend to three months, or with fine, or with both.

If the size of a commercial weight or measure renders it impracticable to have any denomination marked on it Government may exempt such weight or measure from being marked or stamped.

No person can manufacture, repair or sell any commercial weight or measure or any weighing or measuring instrument without a licence.

Punishment for contravention is imprisonment for a term which may extend to three months, or fine, or both.

No one can have for sale any article which is sold by weight or measure in a sealed container unless the container shows the net weight or measure of the article.

Punishment for contravention is a fine which may extend to Rs. 500.

* Bilingual.

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Whoever makes or sells weights or measures which he knows to be false, or fraudulently uses weights or measures which he knows to be false or is in possession of them for possible use shall be punished with imprisonment which may extend to one year, or with fine, or with both.

Whoever sells or delivers less than what is purported to be sold or delivered shall, if the deficiency exceeds the prescribed limit of error, shall be punished with fine which may extend to Rs. 500.

Whoever forges or counterfeits any stamp, shall be punishable with imprisonment for a term which may extend to one year, or with fine, or with both.

Whoever knowingly uses or sells or disposes of or exposes for sale weights or measures with such forged or counterfeit stamps on them shall be punishable with imprisonment for a term which may extend to six months, or with fine, or with both.

For administering the Act Government may have a Controller of Weights and Measures, Assistant Controllers and Inspectors.

The Inspector shall verify every weight or measure or measuring instrument which is brought to him, and if it is correct he will stamp it.

He may also inspect at all reasonable times weights and measures and measuring instruments used in transaction of trade and commerce.

Anyone who refuses or neglects to produce for inspection such weights or measures, or refuses to permit an Inspector to inspect or verify, or obstructs or hinders an Inspector shall be punished with a fine which may extend to Rs. 500.

He may also at reasonable times enter any place where weights and measures are used to inspect them.

He may also ask a trader or employee to produce before him weights and measures for inspection.

He may seize and detain a weight or measure with which an offence might be or might have been committed and also seize or detain any article which might have been sold by means of such weights or measures.

He may verify the weight or measure of an article sold or delivered.

He can also break open a sealed package to verify the contents where there is reasonable suspicion, and seize or detain the container and the article.

He can adjust weights and measures in any area where Government thinks such adjustment is necessary.

A manufacturer, repairer or dealer in weights and measures should maintain proper books, records and accounts.

Government may charge fees for grant of licence, verification, marking, stamping and adjustment.

Government may prescribe the limits of error in their own working standards, in commercial weights and measures, in selling articles, in weighing measures and instruments.

Government may make rules to carry out the purposes of this Act.

Any aggrieved person may appeal against a decision of the Inspector to the Controller and of the Controller to the Government. The decision of the appellate officer or of Government is final.

If an Inspector knowingly stamps a weight or measure or weighing or measuring instrument in contravention of the provisions of this Act, or of the rules made thereunder he shall be punishable with imprisonment for a term which may extend to one year, or with fine, or with both.

Cognizance of any offence under this Act can be taken by a court only on a complaint by a Controller or by someone authorized by him.

No court inferior to that of a presidency magistrate's court, or a magistrate of the first class can try any offences under this Act.

CHHATAKS—GRAMS

CHHATAKS (to the nearest gram)	GRAMS	CHHATAKS (to the nearest gram)	GRAMS
1	58	9	525
2	117	10	583
3	175	11	642
4	233	12	700
5	292	13	758
6	350	14	816
7	408	15	875
8	467	—	—

SEERS—KILOGRAMS

SEERS	KILOGRAMS	GRAMS (to nearest) 10 grams)
1	–	930
2	1	870
3	2	800
4	3	730
5	4	670
6	5	600
7	6	530
8	7	460
9	8	400
10	9	330
11	10	260
12	11	200
13	12	130
14	13	60
15	14	–
16	14	930
17	15	860
18	16	800
19	17	730
20	18	660
21	19	600
22	20	530
23	21	460
24	22	390
25	23	330
26	24	260
27	25	190
28	26	130
29	27	60
30	27	990
31	28	930
32	29	860
33	30	790
34	31	730
35	32	660
36	33	590
37	34	520
38	35	460
39	36	390

MAUNDS—KILOGRAMS

MAUNDS	KILO-GRAMS	MAUNDS	KILO-GRAMS
1	37	11	411
2	75	12	448
3	112	13	485
4	149	14	523
5	187	15	560
6	224	16	597
7	261	17	635
8	299	18	672
9	336	19	709
10	373	20	746

SIMPLE CONVERSION TABLES

WEIGHTS

Tons to Metric Tonnes										
Tons	1	2	3	4	5	6	7	8	9	10
Metric Tonnes	1·02	2·03	3·05	4·06	5·08	6·10	7·11	8·13	9·14	10·16
Pounds (av) to Kilograms										
Pounds	1	2	3	4	5	6	7	8	9	10
Kilograms	0·45	0·91	1·36	1·81	2·27	2·72	3·18	3·63	4·08	4·54
Tolas to Grams										
Tolas	1	2	3	4	5	6	7	8	9	10
Grams	11·66	23·33	34·99	46·66	58·32	69·98	81·65	93·31	104·97	116·64
Seers to Kilograms										
Seers	1	2	3	4	5	6	7	8	9	10
Kilograms	0·93	1·87	2·80	3·73	4·67	5·60	6·53	7·46	8·40	9·33
Maunds to Quintals										
Maunds	1	2	3	4	5	6	7	8	9	10
Quintals	0·37	0·75	1·12	1·49	1·87	2·24	2·61	2·99	3·36	3·73

LENGTH

Miles to Kilometres												
Miles			1	2	3	4	5	6	7	8	9	10
Kilometres			1·61	3·22	4·83	6·44	8·05	9·66	11·27	12·87	14·48	16·09
Yards to Metres												
Yards			1	2	3	4	5	6	7	8	9	10
Metres			0·91	1·83	2·74	3·66	4·57	5·49	6·40	7·32	8·23	9·14
Inches to Millimetres												
Inches	1	2	3	4	5	6	7	8	9	10	11	12
Millimetres	25·40	50·80	76·20	101·60	127·00	152·40	177·80	203·20	228·60	254·00	279·40	304·80

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SIMPLE CONVERSION TABLES—(*Contd.*)

AREA

Acres to Hectares										
Acres	1	2	3	4	5	6	7	8	9	10
Hectares	0·40	0·81	1·21	1·62	2·02	2·43	2·83	3·24	3·64	4·05
Square Yards to Square Metres										
Square Yards	1	2	3	4	5	6	7	8	9	10
Square Metres	0·84	1·67	2·51	3·34	4·18	5·02	5·85	6·69	7·53	8·36

CAPACITY

Gallons (Imperial) to Litres										
Gallons	1	2	3	4	5	6	7	8	9	10
Litres	4·55	9·09	13·64	18·18	22·73	27·28	31·82	36·37	40·91	45·46

INDUSTRIAL STRUCTURE AND POLICY

FOR particulars about industrial structure one is dependent on the census compiled under the Industrial Statistics Act of 1942. The latest available census—twelfth in the series—are for 1957.

For the purpose of the census, only registered factories, which used power and employed 20 or more workers per day, were taken into account. The census was confined to 28 major industries in the country. The industries covered by the census are: cotton, woollen and jute textiles, chemicals, iron and steel, aluminium, copper and brass, bicycles, sewing machines, electric lamps and fans, general engineering and electrical engineering, glass and glassware, ceramics, cement, plywood and teachests, paper and paper-board, matches, tanning, paints and varnishes, soap, vegetable oils, starch, distilleries and breweries, sugar, fruit and vegetable processing, wheat flour, rice-milling and biscuit-making. Although the census is statutory, in practice reports are not received from all factories. In 1957, reports were not received from 15 per cent of the factories, while in 1946 20 per cent of the factories did not submit returns. The total value of output of registered factories in 28 major industries in India rose by nearly 174 per cent in the twelve years, 1946-57. The value of production in 1957 was over Rs. 1,646 crores, as against about Rs. 601 crores in 1946. The productive capital investment in the industries rose from about Rs. 367 crores in 1946 to about Rs. 1,063 crores in 1957. This includes fixed capital like buildings, plant and machinery, etc. and working capital like stock of raw materials, finished and semi-finished products, etc. The capital output ratio (productivity of capital) was 0·46 per unit of capital in 1957. The number of registered factories also increased by over 53 per cent during the period, that is, from 5,013 in 1946 to 7,754 in 1957. The number of persons employed in the factories also rose from 15·14 lakhs to more than 18·13 lakhs. The salaries and wages earned by them during the period have gone up by more than 100 per cent. The bill was for Rs. 101·8 crores in 1946 and Rs. 258 crores in 1957.

The Industrywise break-down of the aggregates is provided in the following table :—

(Value in crores of rupees)

Name of industry	No. of factories covered*	Productive capital		No. of persons employed	Salaries and wages	Materials, fuel, electricity, lubricants consumed	Total production	Value added by manufacture
		Fixed	Working					
Wheat flour	75 (88)	3·46	3·63	7,682	0·99	38·71	42·40	3·11
Rice milling	1,536 (1,744)	7·14	13·53	63,950	2·85	92·41	99·40	6·01
Biscuits	77 (95)	2·42	1·37	5,372	0·67	4·80	7·43	6·97
Fruit and vegetable processing	26 (32)	0·55	0·55	1,460	0·14	1·01	1·60	0·57
Sugar..	148 (185)	30·88	60·45	117,059	10·92	75·88	112·73	29·17
Distilleries and breweries...	50 (50)	2·12	1·91	5,252	0·69	2·24	5·03	2·13
Starch	10 (12)	1·48	2·13	1,887	0·26	3·84	5·07	0·97
Vegetable oils:								
(*a*) Edible hydrogenated	29 (30)	5·41	7·67	8,467	1·65	55·07	61·12	4·53
(*b*) Other vegetable oils	919 (1,137)	11·45	16·84	44,964	2·96	120·91	129·12	5·40
Paints, varnishes	42 (53)	1·31	3·34	5,409	1·03	6·27	10·51	4·03
Soap	27 (30)	3·34	7·15	5,659	1·40	14·15	20·75	5·98
Tanning	117 (134)	1·00	3·35	10,595	1·00	10·94	12·51	1·42
Cement	27 (28)	35·67	16·96	26,045	4·13	20·88	35·82	10·85
Glasses	82 (106)	5·01	2·30	23,948	2·08	4·39	8·18	3·25
Ceramics	71 (81)	6·00	2·57	23,099	2·96	3·19	7·88	4·15
Plywood and tea chests ..	55 (65)	2·20	1·55	6,987	0·68	2·72	4·92	1·87
Paper and board	48 (58)	23·42	9·91	31,601	4·75	17·63	32·28	11·99
Matches	42 (47)	1·80	2·02	16,378	2·09	3·67	7·76	3·74
Cotton textiles	498 (570)	129·08	188·35	761,758	118·90	313·34	477·12	146·06
Woollen textiles	48 (56)	3·41	7·43	15,996	2·07	12·37	16·93	4·03
Jute textiles	102 (112)	42·46	42·87	245,309	27·99	93·56	133·24	35·91
Chemicals	322 (367)	49·99	37·44	58,846	10·76	50·12	92·87	34·91
Aluminium, copper, brass ..	199 (241)	9·71	13·46	22,901	3·81	29·60	40·35	10·09
Iron and steel	127 (150)	81·06	38·22	91,983	21·55	57·72	119·52	52·17
Bicycles	67 (82)	3·17	3·90	9,173	1·56	5·89	10·41	3·78
Sewing machines	21 (26)	1·66	1·44	5,148	1·34	2·82	4·78	1·83
Electric lamps	10 (15)	0·89	0·92	2,687	0·45	1·50	2·66	1·06
General and electrical engineering	1,754 (2,137)	45·12	57·05	189,054	27·92	88·56	140·12	52·68
Electric fans..	19 (23)	1·20	1·87	4,654	0·72	2·09	3·69	1·22
Grand Total ..	6,548 (7,754)	512·41	550·20	1,813,323	258·32	1,136·28	1,646·21	444·66

*Figures in brackets indicate the total number of registered factories in the country.

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TECHNICAL PROGRESS

India now produces basic and conventional machine tools such as lathes, drilling machines, tool grinders and milling and planing machines. At one major production unit, the Hindustan Machine Tools Factory, the indigenous content in the manufacture of lathes now stands at 95 per cent. For milling machines and radial drills this percentage has come up to 80 per cent now.

Only a few years back almost the bulk of sugar machinery had to be imported. Now some 80 per cent of it, including high speed centrifuges, are being fabricated in India.

Substantial progress has been made in the electrical industry. India is today making all the distribution transformers, electrical motors and switch gear; and when the Heavy Electrical Project in Bhopal goes into production, the country would attain self-sufficiency.

The ratio between the consumer goods and capital goods industries—a yardstick of advance—between 1840 and 1960 has declined steeply.

In 1953 the country had, by and large, only assembly plants for automobiles. Taking the different types of vehicles, the indigenous content varied between 50 and 73 per cent and was expected by the end of the Second Plan to go up to 75 to 85 per cent.

An attempt has been made in India completely to engineer, design and manufacture a penicillin factory. For details about the Penicillin factory at Pimpri, see "Government Industrial Undertakings".

Production of sulphuric acid, which is one of the conventional yardsticks of industrial advance, went up from 100,000 tons in 1951 to about 250,000 tons in 1958. A few years ago, the entire plant and equipment used to be imported. Recently, 50 per cent of a new plant was locally fabricated.

The Sindri Fertiliser Factory was conceived by foreign scientists, and was designed, fabricated and installed by them. The people who are running that Factory have shown enough confidence in themselves to contract for more than Rs. 8 crores out of approximately Rs. 16 crores estimated to be the cost of the new fertiliser project in Rourkela; and out of Rs. 8 crores, work of at least Rs. 5 crores would be done indigenously.

During the year 1959-60 the Shipyard delivered 4 ships (M. V. "Rajkumar", M. V. "Indian Industry", I. N. S. "Dhruvak" & M.V. "Jayalakshmi") aggregating to 14,873 GRT and two ships I. N. S. "Darshak" and M. V. "State of Uttar Pradesh" were launched. The State of Uttar Pradesh was delivered in January 1961. A series of two vessels of 9,500 DWT each were launched and construction of 3 more ships of 12,300 DWT was commenced in 1960-61. The range of vessels built at the Shipyard includes cargo, cargo-cum-passenger, survey, mooring vessels, barges and tugs.

At the Integral Coach Factory, whereas in the earlier batches raw material and fittings worth Rs. 37,000 per coach had to be imported (including steels of requisite weldable quality costing Rs. 19,000), in the latest batches the imported items have been cut down to Rs. 18,000 only per coach. With steel plates and sheets available within the country in 1960-61, the coach would be 95 per cent indigenous in its raw material content.

INDUSTRIAL POLICY

There are general considerations bearing on the formulation of industrial policy in the context of planning. The Government of India's industrial policy after Independence was shaped broadly in terms of the Industrial Policy Resolution of 1948. (The text is given in the 1959 *Directory*.) That Resolution emphasised the responsibility of Government in the matter of promoting, assisting and regulating the development of industry in the national interest. It envisaged for the public sector an increasingly active role. While it reiterated the inherent right of the State to acquire any industrial undertaking whenever the public interest required it, it laid down, in view of the circumstances then existing, a certain demarcation of fields for the public and private sectors.

Important developments took place after the Resolution was adopted in 1948. There was a clearer appreciation of the goals and direction of development. Planning proceeded on a more organised basis, and it became essential to strengthen and accelerate this effort in the coming years.

The 1948 Resolution was reviewed in the light of these considerations and the experience gained so far, and a new Industrial Policy Resolution was placed before Parliament by the Prime Minister on 30th April 1956. The text of this is given below.

This is now the accepted industrial policy of the Government.

The major part of Government's policy is concretised in the Five Year Plans, the first of which started in 1951 as also in a series of industrial undertakings collectively known as the public sector. These are dealt with in the article entitled "Government Industrial Undertakings".

In the First Plan the target outlay on industrial development both in the public and private sectors was Rs. 327 crores, about 8 per cent of the total target, outlay on the whole plan. The main emphasis was on agriculture, irrigation and power.

Of this the target for the public sector was Rs. 94 crores and the private Rs. 233 crores. But while the actual investment in the private sector was about the same as the target, in the public sector the actual investment was of the order of Rs. 60 crores.

In the Second Plan the industries and minerals were allocated Rs. 880 crores out of a total Plan outlay of Rs. 4,800 crores.

In the Third Plan the industries and minerals have been allocated Rs. 1,500 crores out of a total Plan outlay of Rs. 7,250 crores.

During 1957-58 the problem of foreign exchange became so acute that a list of what might be called 'core' projects had to be drawn up.

THREE CATEGORIES

The following is a summary of the text of the industrial policy resolution placed before Parliament by the Prime Minister on 30th April 1956:

These basic and general principles were given a more precise direction when Parliament accepted in December, 1954, the socialist pattern of society as the objective of social and economic policy. Industrial policy, as other policies, must, therefore, be governed by these principles and directions.

The Government of India have in consultation with the Planning Commission, decided to classify industries into three categories having regard to the part which the State should play in each of them. It should also be remembered that it is always open to the State to undertake any type of industrial production.

In the first category will be industries, the future development of which will be the exclusive responsibility of the State. The second category will consist of industries, which will be progressively State-owned and in which the State will, therefore, generally take the initiative in establishing new undertakings, but in which private enterprise will also be expected to supplement the efforts of the State. The third category will include all the remaining industries, and their future development will, in general, be left to the initiative and enterprise of the private sector.

Industries in the first category have been listed in Schedule A of this resolution. All new units in these industries, save where their establishment in the private sector has already been approved, will be set up only by the State. This does not preclude the expansion of the existing privately owned units, or the possibility of the State securing the co-operation of private enterprise in the establishment of new units when the national interests so require.

Railways and air transport, arms and ammunition and atomic energy will, however, be developed as Central Government monopolies. Whenever co-operation with private enterprise is necessary, the State will ensure, either through majority participation in the capital, or otherwise, that it has the requisite powers to guide the policy and control the operations of the undertakings.

Industries in the second category will be those listed in Schedule B. With a view to accelerating their future development, the State will increasingly establish new undertakings in these industries. At the same time private enterprise will also have the opportunity to develop in this field, either on its own or with State participation.

All the remaining industries will fall in the third category and it is expected that their development will be undertaken ordinarily through the initiative and enterprise of the private sector, though it will be open to the State to start any industry even in this category. It will be the policy of the State to facilitate and encourage the development of these industries in the private sector, in accordance with the programme formulated in successive Five-Year Plans, by ensuring the development of transport, power and other services, and by appropriate fiscal and other measures.

The State will continue to foster institutions to provide financial aid to these industries, and special assistance will be given to enterprises organised on co-operative lines for industrial and agricultural purposes. In suitable cases, the State may also grant financial assistance to the private sector. Such assistance, especially when the amount involved is substantial, will preferably be in the form of participation in equity capital, though it may also be in part in the form of debenture capital.

Industrial undertakings in the private sector have necessarily to fit into a framework of the social and economic policy of the State and will be subject to control and regulation in terms of the Industries (Development and Regulation) Act and other relevant legislation. The Government of India, however, recognise that it would, in general, be desirable to allow such undertakings to develop with as much freedom as possible, consistent with the targets and objectives of the national plan. When there exist in the same industry both privately and publicly owned units, it would continue to be the policy of the State to give fair and non-discriminatory treatment to both of them.

In appropriate cases, privately owned units may be permitted to produce an item falling within Schedule A for meeting their own requirements or as by-products. There will be ordinarily no bar to small privately owned units undertaking production, such as the making of launches and other light-craft, generation of power for local needs and small scale mining. Further, heavy industries in the public sector may obtain some of their requirements of lighter components from the private sector, while the private sector in turn would rely for many of its needs on the public sector. The same principle would apply with even greater force to the relationship between large-scale and small-scale industries.

COTTAGE INDUSTRIES

The State has been following a policy of supporting cottage and village and small scale industries by restricting the volume of production in the large-scale sector, by differential taxation, or by direct subsidies. While such measures will continue to be taken, whenever necessary, the aim of State policy will be to ensure that the decentralised sector acquires sufficient vitality to be self-supporting and its development is integrated with that of large-scale industry.

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The State will, therefore, concentrate on measures designed to improve the competitive strength of the small-scale producer. For this it is essential that the technique of production should be constantly improved and modernised, the pace of transformation being regulated so as to avoid, as far as possible, technological unemployment.

Lack of technical and financial assistance, of suitable working accommodation and inadequacy of facilities for repair and maintenance are among the serious handicaps of small-scale producers. A start has been made with the establishment of industrial estates and rural community workshops to make good these deficiencies. The extension of rural electrification and the availability of power at prices which the workers can afford will also be of considerable help.

Many of the activities relating to small-scale production will be greatly helped by the organisation of industrial co-operatives. Such co-operatives should be encouraged in every way and the State should give constant attention to the development of cottage and village and small-scale industries.

REGIONAL DEVELOPMENT

In order that industrialisation may benefit the economy of the country as a whole, it is important that disparities in levels of development between different regions should be progressively reduced.

This programme of industrial development will make large demands on the country's resources of technical and managerial personnel. To meet these rapidly growing needs for the expansion of the public sector and for the development of village and small-scale industries, proper managerial and technical cadres in the public services are being established.

Steps are also being taken to meet shortages at supervisory levels, to organise apprenticeship schemes of training on a large-scale both in public and in private enterprises, and to extend training facilities in business management in universities and other institutions.

The living and working conditions of workers should be improved and their standard of efficiency raised. The maintenance of industrial peace is one of the prime requisites of industrial progress. In a socialist democracy labour is a partner in the common task of development and should participate in it with enthusiasm.

Some laws governing industrial relations have been enacted and a broad common approach has developed. With the growing recognition of the obligations of both management and labour there should be joint consultation and workers and technicians should, wherever possible, be associated progressively in management. Enterprises in the public sector have to set an example in this respect.

With the growing participation of the State in industry and trade, the manner in which these activities should be conducted and managed assumes considerable importance. Speedy decisions and a willingness to assume responsibility are essential if these enterprises are to succeed. For this, wherever possible, there should be decentralisation of authority and their management should be along business lines. It is to be expected that public enterprises will augment the revenues of the State and provide resources for further development in fresh fields. But such enterprises may sometimes incur losses. Public enterprises have to be judged by their total results and in their working they should have the largest possible measure of freedom.

SCHEDULE A

The future development of the following industries will be the exclusive responsibility of the State :

1. Arms and ammunition and allied items of defence equipment. 2. Atomic energy. 3. Iron and steel. 4. Heavy castings and forgings of iron and steel. 5. Heavy plant and machinery required for iron and steel production, for mining, for machine tool manufacture and for such other basic industries as may be specified by the Central Government. 6. Heavy electrical plant including large hydraulic and steam turbines. 7. Coal and lignite. 8. Mineral oils. 9. Mining of iron ore, manganese ore, chrome ore, gypsum, sulphur, gold and diamond. 10. Mining and processing of copper, lead, zinc, tin, molybdenum and wolfram. 11. Minerals specified in the schedule to the Atomic Energy (Control of Production and Use) Order, 1953. 12. Aircraft. 13. Air transport. 14. Railway transport. 15. Shipbuilding. 16. Telephones and telephone cables, telegraph and wireless apparatus (excluding radio receiving sets). 17. Generation and distribution of electricity.

SCHEDULE B

The following industries will be progressively State-owned. The State will generally take the initiative in establishing new undertakings but private enterprise will not be excluded.

1. All other minerals except "minor minerals" as defined in section 3 of the Minerals Concession Rules, 1949. 2. Aluminium and other non-ferrous metals not included in Schedule "A". 3. Machine tools. 4. Ferro alloys and tool steels. 5. Basic and intermediate products required by chemical industries such as the manufacture of drugs, dyestuffs and plastics. 6. Antibiotics and other essential drugs. 7. Fertilizers. 8. Synthetic rubber. 9. Carbonisation of coal. 10. Chemical pulp. 11. Road transport. 12. Sea transport.

It is from these schedules and the foregoing policy announcement that Government entered the industrial field and set on foot a large number of industrial undertakings.

A full list of these with notes on their progress is given in the chapter entitled, "Government Industrial Undertakings".

INDUSTRIES DEVELOPMENT & REGULATION ACT

Towards the end of 1951, Parliament passed the Industries (Development and Regulation) Bill. The Act applied to 37 industries listed in the First Schedule to the Act.

The Act was amended in 1956 when new industries were added to the list.

The most important provision is the establishment of Development Councils which deal with the problem of productivity and service to the community.

At the top is the Central Advisory Council for Industries which advises Government on rules, directions to industrial undertakings and taking over the management of industrial concerns.

The Act provides for the registration of existing industrial undertakings and licensing of new ones.

It also empowers Government to investigate into the causes of any possible fall in the production of any concern or any deterioration in the quality of the product, and to take action.

The Act contains provisions for direct control by the Central Government in certain cases.

The Central Advisory Council of Industries was established in 1952 consisting of 27 representatives of industry, labour, consumers and primary producers pertaining to the scheduled industries.

A Licensing Committee was also set up consisting of representatives of the Ministries of Commerce and Industry, Finance, Railways, Production and of the Planning Commission to examine application for licences.

During the period from 1952 to 1958 about 2,300 licences were issued under the Industries Act. Out of this, about 240 licences were cancelled, and out of the remaining licences about 2,060 applications were still valid.

Between 1st October 1958 and 30th September 1959, the Licensing Committee, considered 1,653 applications, of which 1,210 applications were approved, 331 rejected and consideration of 112 applications deferred pending a more detailed review of the position. Of the applications approved, 224 were for regularising the activities of industrial undertakings which were already in existence but had not obtained the necessary licences. The remaining cases related to the establishment of new industrial undertakings (412) to substantial expansion (351) and to the manufacture of new articles (200) and changes of location (23).

An *ad hoc* committee reviewed the procedure obtaining in the Ministry of Commerce and Industry for disposal of applications for licences under the Industries (Development and Regulation) Act and suggested several changes with a view to speeding up the disposal of these applications. It has been decided in consultation with the Licensing Committee that certain types of simple applications in which all the concerned officers had agreed to the sanction of a licence should be disposed of in the prescribed manner without prior reference to the Committee and reported to them later for information. Applications for additional capacity in regard to certain items where there is sufficient capacity in the country already are to be rejected for a specified period. Applications from undertakings for diversification of production which involve no foreign exchange implications are to be approved subject to certain conditions. In regard to certain lines of manufacture where further expansion is clearly desirable, the applications are to be placed before the Capital Goods Committee straightway for examining the question of import of plant and machinery.

There are now Development Councils for (1) Automobile, automobile ancillary industries and Transport vehicle industries, (2) Bicycles, sewing machines and instruments, (3) Heavy electrical industries, (4) Light electrical industries, (5) Internal combustion engines, power driven pumps, air compressors and blowers, (6) Non-ferrous metals, (7) Machine tools, (8) Acids and fertilizers, (9) Alkalis and allied industries, (10) Alcohol and other fermentation industries, (11) Art silk industry, (12) Drugs, dyes and Intermediates, (13) Food processing industries, (14) Oil based and plastics industries, (15) Sugar industry and (16) Woollen Industry.

Where an industry was not sufficiently developed, a number of Panels or Expert Committees for inquiring into and studying the problems were set up. The following is the list of the Panels and Committees thus set up :

(1) Panel for paper and pulp, (2) X-ray equipment, (3) Surgical instruments and appliances, (4) Electronics and wireless equipment, (5) Refractories, (6) Agricultural tractors (7) Aluminium, (8) Power alcohol, (9) Earth moving and allied equipment, (10) Milk powder industry, (11) Scooters, motor-cycles : moped and three wheeler industry, (12) Cotton-seed oil industry, (13) Textile machinery manufacturing, (14) Salt and (15) Cement.

REGULATED INDUSTRIES

All undertakings pertaining to the industries below, employing 50 or more workers with the aid of power, or 100 or more workers without the aid of power, fall within the purview of the Industries (Development and Regulation) Act, 1951, as amended.

1. METALLURGICAL INDUSTRIES : *Ferrous :* Iron and steel (metal) ; Ferro-alloys ; Iron and Steel castings and forgings ; Iron and Steel structurals ; Iron and Steel pipes ; Special steels ; Other products of iron and steel. *Non-ferrous :* Non-ferrous metals and alloys ; Semi-manufactures and manufactures.

2. FUELS : Coal, lignite, coke and their derivatives ; Mineral oil (crude oil), motor and aviation spirit, diesel oil, kerosene oil, fuel oil,

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diverse hydrocarbon oils and their blends including synthetic fuels, lubricating oils and the like; Fuel gases—(coal gas, natural gas and the like).

3. BOILERS AND STEAM GENERATING PLANTS.

4. PRIME MOVERS (OTHER THAN ELECTRICAL GENERATORS): Steam engines and turbines; Internal combustion engines.

5. ELECTRICAL EQUIPMENT: Equipment for generation, transmission and distribution of electricity including transformers; Electrical motors; Electrical fans; Electrical lamps; Electrical furnaces; Electrical cables and wires; X-ray equipment; Electronic equipment; Household appliances such as electric irons, heaters and the like; Storage batteries; Dry cells.

6. TELECOMMUNICATIONS: Telephones; Telegraph equipment; Wireless communication apparatus; Radio receivers, including amplifying and public address equipment; Television sets; Teleprinters.

7. TRANSPORTATION: Aircraft; Ships and other vessels drawn by power; Railway locomotives; Railway rolling stock; Automobiles (motor cars, buses, trucks, motor cycles, scooters and the like); Bicycles; Others, such as fork lift trucks and the like.

8. INDUSTRIAL MACHINERY: *Major items of specialised equipment used in specific industries*:—Textile machinery (such as spinning frames, carding machines, powerlooms and the like) including textile accessories; Jute machinery; Rayon machinery; Sugar machinery; Tea machinery; Mining machinery; Metallurgical machinery; Cement machinery; Chemical machinery; Pharmaceuticals machinery; Paper machinery.

General items of machinery used in several industries, such as the equipment required for various 'unit processes': Size reduction equipment—crushers, ball mills and the like; Conveying equipment—bucket elevators, skip hoists, cranes, derricks and the like; Size separation units—screens, classifiers and the like; Mixers and reactors—kneading mills, turbo mixers and the like; Filtration equipment—filter presses, rotary filters and the like; Centrifugal machines; Evaporators; Distillation equipment; Crystallisers; Driers; Power driven pumps—reciprocating, centrifugal and the like; Air and gas compressors and vacuum pipes (excluding electrical furnaces); Refrigeration plants for industrial use; Fire fighting equipment and appliances including Fire engines.

Other items of Industrial Machinery: Ball, roller and tapered bearings; Speed reduction units; Grinding wheels and abrasives.

9. MACHINE TOOLS.

10. AGRICULTURAL MACHINERY: Tractors, Harvesters and the like; Agricultural implements.

11. EARTH-MOVING MACHINERY: Bulldozers, dumpers, scrapers, loaders, shovels, drag lines, bucket wheel excavators, road rollers and the like.

12. MISCELLANEOUS MECHANICAL AND ENGINEERING INDUSTRIES: Plastic moulded goods; Hand tools, small tools and the like; Razor blades.

13. COMMERCIAL, OFFICE AND HOUSEHOLD EQUIPMENT: Typewriters; Calculating machines; Air conditioners and refrigerators; Vacuum cleaners; Sewing and knitting machines; Hurricane lanterns.

14. MEDICAL AND SURGICAL APPLIANCES: Surgical instruments—sterilisers, incubators and the like.

15. INDUSTRIAL INSTRUMENTS: Water meters, steam meters, electricity meters and the like; Indicating, recording and regulating devices for pressure, temperature, rate of flow, weights, levels and the like; Weighing machines.

16. SCIENTIFIC INSTRUMENTS.

17. MATHEMATICAL, SURVEYING AND DRAWING INSTRUMENTS.

18. FERTILISERS: Inorganic, Organic and Mixed.

19. CHEMICALS (OTHER THAN FERTILISERS): Inorganic heavy chemicals; Organic heavy chemicals; Fine chemicals including photographic chemicals; Synthetic resins and plastics; Paints, varnishes and enamels; Synthetic rubbers; Man-made fibres including regenerated cellulose-rayon, nylon and the like; Coke oven by-products; Coal tar distillation products like naphthalene, anthracene and the like; Explosives including gun powder and safety fuses; Insecticides, fungicides, weedicides and the like; Textile auxiliaries; Sizing materials including starch; Miscellaneous chemicals.

20. PHOTOGRAPHIC RAW FILM AND PAPER: Cinema film; Photographic amateur film; Photographic printing paper.

21. DYE-STUFFS.

22. DRUGS AND PHARMACEUTICALS.

23. TEXTILES (INCLUDING THOSE DYED, PRINTED OR OTHERWISE PROCESSED): made wholly or in part of cotton, including cotton yarn, hosiery and rope; made wholly or in part of jute, including jute, twine and rope; made wholly or in part of wool, including wool tops, woollen yarn, hosiery, carpets and druggets; made wholly or in part of silk including silk yarn and hosiery; made wholly or in part of synthetic, artificial (man-made) fibres, including yarn and hosiery of such fibres.

24. PAPER AND PULP INCLUDING PAPER PRODUCTS: Paper—writing, printing and wrapping; Newsprint; Paper board and straw board; Paper for packaging (corrugated paper, kraft paper, paper bags, paper containers and the like); Pulp—wood pulp, mechanical, chemical, including dissolving pulp.

25. SUGAR.

26. FERMENTATION INDUSTRIES: Alcohol; Other products of fermentation industries.

27. FOOD PROCESSING INDUSTRIES: Canned fruits and fruit products; Milk foods; Malted foods; Flour; Other processed foods.

28. VEGETABLE OILS AND VANASPATHI: Vegetable oils, including solvent extracted oils; Vanaspathi.

29. SOAPS, COSMETICS AND TOILET PREPARATIONS: Soaps; Glycerine; Cosmetics; Perfumery; Toilet preparations.

30. RUBBER GOODS: Tyres and tubes; Surgical and medicinal products including prophylactics; Footwear; Other rubber goods.

31. LEATHER, LEATHER GOODS AND PICKERS.

32. GLUE AND GELATIN.

33. GLASS: Hollow ware; Sheet and plate glass; Optical glass; Glass wool; Laboratory ware; Miscellaneous ware.

34. CERAMICS: Fire bricks; Refractories; Furnace lining bricks—acidic, basic and neutral; China ware and pottery; Sanitary ware; Insulators; Tiles.

35. CEMENT AND GYPSUM PRODUCTS: Portland cement; Asbestos cement; Insulating boards; Gypsum boards, wall boards and the like.

36. TIMBER PRODUCTS: Plywood; Hardboard, including fibre-board, chip-board and the like; Matches; Miscellaneous (furniture components, bobbins, shuttles and the like).

37. DEFENCE INDUSTRIES: Arms and ammunition.

38. MISCELLANEOUS INDUSTRIES: Cigarettes.

The Government of India have decided (Jan. 1959) to bring within the scope of the registration and licensing provisions of the Industries (Development and Regulation) Act the following industrial gases:—

Hydrogen gas of all varieties; nitrogen gases of all varieties; carbon dioxide gas of all varieties; refrigerant gases of dichlorodifluoro methane and allied groups; rare gases like helium, argon, neonkrypton, neon, etc.; fire extinguishing gases of chlorobromo methane and allied groups; nitrous oxide; propane; cyclopropane and ethylene.

Explanation 1.—The articles specified under each of the headings Nos. 3, 4, 5, 6, 7, 8, 10, 11 and 13 shall include their component parts and accessories.

Explanation 2.—The articles specified under each of the headings Nos. 18, 19, 21 and 22 shall include the intermediates required for their manufacture.

STATE AID

State aid is given in a number of ways. The various financial corporations give financial assistance.

The National Industrial Development Corporation grants loans for the modernization of plant, especially in the textile, jute and also the machine tool industry.

The Industrial Finance Corporation affords financial assistance in the form of advances and long-term loans to industrial concerns.

The State Financial Corporations assist medium and small-scale industries that fall outside the scope of the all-India Corporations.

The Refinance Corporation finances medium-scale industries.

(There are factual notes on the National Industrial Development Corporation, the Refinance Corporation, the State Financial Corporations and the Industrial Finance Corporation in the Chapter on 'Corporations'.)

Technical assistance is arranged through the Point Four Programme, the Colombo Plan and the U.N. Technical Assistance schemes.

Tariff is regulated to foster indigenous industry. Tax concessions are made (see below under 'Foreign Capital'). Foreign exchange is granted under a system of priorities, especially to facilitate the import of essential raw material and basic intermediates.

In the current policy governing the budgeting of foreign exchange, maintenance requirements in the economy have a high priority. In relation to the Plan, it has been laid down that foreign exchange allotments should be limited in the main to commitments which arise in relation to the 'core' projects, *i.e.*, steel plants, coal mining, railways, and certain power projects.

Outside the 'core', new commitments in foreign exchange are permitted only in respect of those projects whose entire foreign exchange cost is covered by foreign credits or investment and, in certain circumstances, by appropriate deferred payment arrangements.

NATIONAL PRODUCTIVITY COUNCIL

The National Productivity Council works to help increase general productivity. It is an autonomous organisation established by the Government of India in 1958. Representatives of Government, employers, labour and various other interests participate in its work.

The objectives of the Council are to stimulate productivity consciousness in the country, to maximise the utilisation of available resources of men, machines, materials, power and finance; to wage war against waste; to help secure for the people of the country a better and higher standard of living. To these ends, it collects and disseminates information about techniques and procedures of productivity. It organises and conducts training courses, seminars, conferences, study groups, lectures at various levels of industries; provides a technical enquiry service and advisory service. Through the media of publications including pamphlets, leaflets, productivity journal and reports of productivity teams, the Council seeks to create an appropriate climate for increasing productivity in various spheres of the nation's economy, particularly in the industries.

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The Council operates from its headquarters at 38, Golf Links, New Delhi, and its Regional Directorates at Bombay (Khetan Bhavan, Churchgate Reclamation); Calcutta (9, Sayed Amir Ali Avenue, Calcutta 17); Kanpur (7/155, Swaroop Nagar); Bangalore (15/1, Lalbaug Road); Madras (23/35, Agurchand Mansions, Mount Road).

Local Productivity Councils (LPCs) which are autonomous bodies have been established through the instrumentality of NPC on a state and local basis in 40 industrial centres of India (Nov. 1960). More are in the process of formation.

The Councils consist of representatives of Government, employers' associations and labour organisations of the State or area.

The programmes of the Council is generated and projected through LPCs.

MANAGING AGENCY SYSTEM

Government attitude may be summed up briefly as follows: The system has filled an important role in the country's economic development. There is therefore nothing inherently objectionable in it. But it is chiefly responsible for the slow growth of institutional financing of industry, as it has itself provided the necessary funds.

Before a managing agency is abolished much formality has to be gone through. There has to be an investigation, a reference of the findings to the Company Law Advisory Commission, scrutiny of the latter's recommendations by Government. And if there is a decision to abolish the system in the industry, a resolution has to be placed before Parliament. Then there is a notice period of three years before the decision becomes effective.

Abolition or continuance of any particular managing agency will be decided on the manner in which it has discharged its duties. There is no desire to make use of the power for compulsory renewal for the purpose of abolishing the system. The ten-year term for a managing agency on its first appointment is usually extended to fifteen years in the case of certain industries like steel, for instance.

Government does not approve of overseas firms trying to come in on the managing agency system. Nor does it approve of cases in which a firm of managing agents expands its scope from a single enterprise to a number of new manufacturing plants.

The Government of India have decided that the remuneration of Managing Agents and Secretaries and Treasurers should ordinarily be fixed according to a sliding scale of commission on the net profits of managed companies. Under the Companies Act, 1956, the Government have to satisfy that the conditions of the agreement to be entered into between the managed company and the Managing Agents or Secretaries and Treasurers are fair and reasonable. While considering applications in this behalf, therefore, the Government have to determine what would be a fair and reasonable remuneration and tenure within the maxima permissible under the Act, in the circumstances of each case. This matter was given very careful consideration and the Government fixed the remuneration and tenure for Managing Agents or Secretaries and Treasurers. The scale of commission fixed is as follows:—

Managing Agents: 10 per cent on the first Rs. 10 lakhs or fraction thereof, 9 per cent on the next Rs. 10 lakhs or fraction thereof, 8 per cent on the next Rs. 10 lakhs or fraction thereof, 7 per cent on the next Rs. 10 lakhs or fraction thereof, 6 per cent on the next Rs. 10 lakhs or fraction thereof, 5½ per cent on the next Rs. 25 lakhs or fraction thereof, 5 per cent on the next Rs. 25 lakhs or fraction thereof and 4 per cent on any sum over one crore of rupees.

Secretaries and Treasurers: 7½ per cent on the first Rs. 10 lakhs or fraction thereof, 6¾ per cent on the next Rs. 10 lakhs or fraction thereof, 6 per cent on the next Rs. 10 lakhs or fraction thereof, 5¼ per cent on the next Rs. 10 lakhs or fraction thereof, 4½ per cent on the next Rs. 10 lakhs or fraction thereof, 4½ per cent on the next Rs. 25 lakhs or fraction thereof, 3¾ per cent on the next Rs. 25 lakhs or fraction thereof and 3 per cent on any sum over one crore of rupees.

The Government have also decided that the term of office should ordinarily be 10 years when a company appoints Managing Agents or Secretaries and Treasurers for the first time, and five years on reappointment or successive appointments.

These decisions are now in force and the Department of Company Law Administration decided as many as 70 applications on this basis by 23rd October 1959.

ALL-INDIA INVESTMENT CENTRE

The first step in the Government of India's plans to establish an All-India Investment Centre to increase the flow of foreign private capital investment to India was taken on 5th October 1959 when an initial grant from the U.S. Technical Co-operation Mission was announced.

Under the Project Agreement signed between Government of India and the U.S.A. on 20th June, 1960, the U.S. Technical Co-operation Mission will make available $713,000 during the U.S. Fiscal year 1960 to cover the Centre's initial foreign exchange expenditures and Rs. 25,00,000 from PL 480 Rupee funds to meet the local expenses of the Centre during the first two years of its operations.

The scope of the U.S. assistance to the Indian Investment Centre is threefold, and the T.C.M. will—

(a) provide advisors and technicians;

(b) provide funds to procure from abroad such items as vehicles, office equipment, and books and periodicals for the reference library, which are not readily available in India; and

(c) provide training facilities for staff members of the Centre and for such persons as the Centre may deem desirable to receive specialized training in the U.S. and Europe in order to further more effectively the objectives of the Centre.

The Centre is governed by a council whose members are the members of the Board of Directors of the Industrial Credit and Investment Corporation of India, Bombay.

For further details see under Delhi.

FOREIGN CAPITAL

The following figures are available in respect of foreign investments in India as at the end of 1958:

(Itemwise)

(Rs. crores)

	Direct Investment	Portfolio Investment	Total
Petroleum	117·86	Negligible	118·17
Manufacturing	123·28	96·81	220·09
Trading	26·31	3·19	29·50
Utilities & transport	35·27	12·07	47·34
Mining	10·81	1·66	12·47
Plantations	90·27	5·53	95·80
Miscellaneous	18·66	5·75	24·41
Grand Total	435·70	134·94	570·64

The figures relate to non-banking foreign business investments only.

Net of capital repatriation, foreign business investments during 1958 amounted to Rs. 27·0 crores. The book value of outstanding investments at the end of 1958 aggregated Rs. 570·64 crores.

The investment of Rs. 27·0 crores included Rs. 25·3 crores IBRD loan, and the remaining Rs. 1·7 crores foreign private capital investments. The net inflow of private foreign capital during 1958 was about Rs. 1·7 crores. Further, IBRD loans amounting to Rs. 25·3 crores were utilised by the private sector during 1958. Thus altogether the private sector seems to have received Rs. 27·0 crores of foreign capital during 1958 as against Rs. 48·8 crores in 1957. (See article on foreign investments in India.)

The Government of India have been fully aware of the contribution that foreign investment can make to the country's progress and in computing the resources for the Second Five Year Plan. They have taken a sum of Rs. 100 crores as fresh foreign investment likely to materialise during that period.

The Government of India's policy in regard to foreign capital was explained by the Prime Minister in a statement made on 9th April 1949.

The salient features of this statement are as follows:

1. All undertakings, Indian or foreign, will conform to the general requirements of Government's industrial policy.

2. As regards existing foreign interests no restrictions or conditions will be imposed which are not applicable to similar Indian undertakings.

3. Facilities for the remittance of profits or even withdrawal of foreign capital investment would continue subject only to foreign exchange considerations.

4. If and when foreign enterprises are compulsorily acquired, compensation will be paid on a fair and equitable basis.

5. There are guarantees about nationalization. India and U.S.A. have signed an agreement (Dec. 7, 1959) that American investors, for a premium will be able to receive insurance for reimbursement in dollars by U.S. Government of losses which may be incurred because of nationalization.

6. In the matter of the participation of foreign capital and enterprise major interest in ownership and effective control should save in exceptional cases be in Indian hands. But in all cases however the training of suitable Indian personnel for the eventual replacement of foreign experts will be insisted on.

Other points may be set out as follows:

Government have followed a policy of encouraging capital participation with Indian collaborants by foreign companies. In principle, the cost of capital equipment to be imported is allowed, at a minimum, to be financed from abroad. This is permitted as equity participation itself or as equity and loans combined. Over and above this minimum, while Government are of the view that to the extent possible, majority control must be in Indian hands, in suitable cases, foreign investment as bulk of the capital structure is allowed.

Where both Indian and foreign interests agree that foreign participation must be by loans rather than by equity capital a suitable rate of interest is allowed.

Under the recent amendments to the Income Tax Act, such loans—on specific application—can be free of income tax.

The Government of India have entered into a convertibility arrangement with the U.S.A. Under this, the U.S. Government will guarantee

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to the American investor in India the reconvertibility into dollars of his investments in projects approved by the Government of India and of his income from them.

An accord was signed with the U.S.A. in Nov. 1959 which seeks to avoid double taxation. It contains a unique provision: a credit for Indian tax would be allowed against U.S. tax, even though it is exempted from tax and not tax actually paid.

Indian companies are welcome to obtain the services of foreign experts or consultants who are necessary.

Government approval is given to payments by Indian companies to foreign collaborants towards research fees, technical services, etc. In giving such approval, the amounts to be paid once settled by the parties themselves are generally not interfered with.

So far as royalty is concerned, a distinction is made between the element of royalty as such, and the element of services rendered abroad by the foreign collaborant. The latter is exempt from tax. About royalty itself, Government are not committed to any particular rate though 5 per cent is, in practice, found to be generally the maximum rate. But in specific cases Government have permitted royalties in excess of this percentage.

TAXATION

The Government of India have provided substantial tax concessions by way of incentives for the industrial development of the country. The more important of these tax concessions are, to mention briefly:

(*a*) Exemption from income-tax of the profits made by industrial undertakings newly established upto 6 per cent of the capital employed during the first five years from the commencement of manufacturing operations.

(*b*) Exemption from income-tax to a shareholder in a newly established industrial company, of the dividends he receives from the company out of the profits exempt from tax in the hands of the company.

(*c*) Exemption from super-tax to a company for an indefinite period on the dividends it receives from an Indian company established after March 31, 1952, and engaged wholly or mainly in certain specified important industries.

(*d*) For all business enterprises, an outright allowance, known as "development rebate" of 25 per cent of the cost of new plant and machinery (40 per cent in the case of ships) in the first year of installation of the asset, thereby enabling the enterprises not only to write off the full cost over a period of years by way of depreciation allowances but also to get further tax relief on 25 per cent of the cost.

(*e*) Outright deduction or amortization over a period of five years of expenditure incurred by business undertakings on scientific, statistical or social research relating to the class of business carried on.

(*f*) Application of a concessional rate of super-tax to the income of Public Companies with total income not exceeding Rs. 25,000.

(*g*) Application of a concessional rate of super-tax in respect of dividend incomes received by a company from an Indian subsidiary company.

(*h*) Exemption of wealth tax for companies.

In addition there are certain other incentives which are of value particularly to the foreigners:

(1) Exemption from income-tax is conferred on interest payable—

(*i*) by an industrial undertaking in India on moneys borrowed by it under a loan agreement with a financial institution of a foreign country, if the institution is approved by the Government of India;

(*ii*) by an industrial undertaking in India on moneys borrowed or debt incurred by it abroad in respect of purchases of plant and machinery from abroad, if the transaction is approved by the Government of India.

(2) Exemption from income taxation to a technician of foreign nationality employed by an undertaking in India in respect of the remuneration received by him for services rendered as such technician during a period of 365 days from the date of his arrival in India. Further, if the contract of service is approved by the Government of India before commencement of the technician's service in India, the exemption is continued for a further period so that he does not have to pay tax on his Indian remuneration during the financial year of his arrival in India and the two succeeding financial years.

(3) Exemption is also available to a non-resident not being a citizen of India from income taxation for services rendered in connection with his employment on a foreign ship, provided his total stay in the taxable territories does not exceed in the aggregate a period of ninety days in the previous year.

One problem of practical importance which has also been a source of great misgiving to investors abroad has been the absence of any agreements between India and the foreign countries for avoidance of double taxation, and the uncertainty of their getting adequate relief in their own country. One serious difficulty faced by the Indian Government in the conclusion of agreements for the purpose was the unwillingness of the industrially and economically advanced countries to depart from the pattern of the agreements they had already concluded with countries of equal industrial and economic status, and the inability of India, with her poor and underdeveloped economy, to subscribe to that pattern.

A delegation consisting of some officers of the Department of Revenue, Ministry of Finance, Government of India, visited West Germany and other European countries in May 1958 for the purpose of discussing the question of concluding agreements for avoidance of double taxation with the representatives of other Governments. Another delegation visited Canada and the United States in December 1958 to have similar talks with the Governments of these countries. Agreements have been signed at official level with the Governments of the Federal Republic of Germany, Denmark, the U.S. and Sweden. The agreement with Germany was signed at Government level at the end of the financial year 1958-59 and the agreement with Denmark became effective on 31st March 1959. The agreement signed with Sweden has been notified in the Gazette of India Extraordinary on 23rd January 1959. The agreement with the U.S. was signed in November 1959. Agreements with France, Greece and other countries are in various stages of progress. The other countries with whom India has agreements at official level are Pakistan, Ceylon, Norway and Switzerland (for air transport only). An agreement with Japan was signed on January 5, 1960.

COMPANY LAW

Foreign companies, *i.e.*, companies incorporated in countries outside India and having places of business in this country are governed by Sections 591 to 608 of the Companies Act. In form as in substance, the provisions of the new Act on this subject are similar to those of the English Companies Act, 1948 as contained in Sections 406 to 423 of that Act. These provisions are not very different from the corresponding provisions in the 1913 Indian Act either, except in regard to those relating to the submission of accounts.

There is no discrimination in any of these provisions against the foreign companies. On the contrary, the accounts provisions are decidedly in favour of them as compared with the corresponding provisions applicable to companies registered in India.

A new feature of the present law is that the foreign companies are now required to file their accounts and related documents with the Registrar of Companies, Delhi, in addition to filing such documents with the Registrars of Companies of the States in which they may have their principal places of business. The new arrangement facilitates the centralisation of documents and records relating to foreign companies at one place in the country.

The Government has decided that the requirements of the clause (*a*) of sub-section (1) of Section 594 should apply to foreign companies with a share capital subject to the following exceptions and modifications:

(*i*) A foreign company should, in respect of its Indian business, submit to the appropriate Registrar in triplicate its balance sheet and profit and loss account in such form, containing such particulars and including or having annexed or attached thereto such documents as under the provisions of the Act it would, if it had been a company within the meaning of the Act, have been required to make out and lay before the company in general meeting.

(*ii*) The working capital earmarked for its branch, if any, should be shown in the balance sheet.

(*iii*) The profit and loss account in respect of its Indian business should disclose the net profit or loss for the year transferred to its principal office in the country of incorporation.

(*iv*) The balance sheet and profit and loss account of the Indian business of the foreign company, in terms of clause (*i*) should be audited by such person or persons and in such manner as laid down in the Act. In regard to the balance sheet and profit and loss account relating to a period ending on or before 31st day of March 1958, it would be deemed sufficient compliance with the law if such documents were audited by auditors of the foreign company in the country of its incorporation.

(*v*) A foreign company which, if incorporated under the Act would have been deemed to be a private company within the meaning of clause (*iii*) of sub-section (1) of section 3 of the Act, should not be required to submit the profit and loss account of its Indian business.

(*vi*) A foreign company should also submit to the appropriate registrar three copies of the authenticated balance sheet and profit and loss account (including documents relating to every subsidiary of the foreign company) as submitted by it to the prescribed authority in the country of its incorporation under the provisions of the law in that country.

(*vii*) If there is any difficulty in reconciling the balance sheet and profit and loss account of a foreign company submitted in accordance with clause (*i*) with the balance sheet and profit and loss account filed by that Company in the country of its incorporation, the Central Government would have the right to seek clarification or demand the preparation of the balance sheet and profit and loss account filed in that country, as far as practicable, in such form as it would have been required to make out and lay before the company in a general meeting, if it had been a company within the meaning of the Act. A foreign company should be bound to furnish such clarification or comply with such demand as the Central Government might make.

(*viii*) In regard to foreign shipping or airlines companies, it should be deemed to be sufficient compliance with the provisions of Part II of Schedule VI to the Act, if the profit and loss accounts of such companies prepared in terms of clause (*i*) disclosed, under broad heads, the items of indirect expenditure (relating to an entire voyage or flight which could not be directly charged against the Indian business of such companies) allocated on a reasonable basis.

(*ix*) It should be deemed sufficient compliance with the provision of section 594 of the Act if the balance sheets in respect of the period ending on or before the 31st day of December 1956, were filed in the manner laid down in sub-section (3) of section 277 of the Indian Companies Act, 1913.

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ALCOHOL INDUSTRY

INDUSTRIAL alcohol is a very valuable material in the manufacture of chemicals like acetone, acetic acid, ether, chloroform, ethyl acetate, etc. It is also necessary as a solvent in the manufacture of fine chemicals, medical preparations, toilets, etc. Since the last war, its importance has increased. It is now essential in the manufacture of ammunition and of artificial rubber.

In 1959 there were as many as 51 distilleries capable of producing over 17·71 million gallons of rectified spirit alcohol. The trend of production has been as follows:

Year	Rectified spirit (000 gals.)	Denatured spirit (000 gals.)
1951	5,019	1,967
1952	4,668	2,178
1953	4,376	2,493
1954	4,630·8	2,835·6
1955	5,156·4	2,989·2
1956	4,209·6	3,382·8
1957	5,095·2	3,470·4
1958	6,000·0	3,700·0
1959	6,750·0	4,400·0
Jan-Aug. 1960*	23·64	17·18

* Figures are in million litres.
1 litre = 0·22 gallon.

The undivided Government of India's Panel on Fine Chemicals, Drugs and Pharmaceuticals estimated that the medical requirements of the sub-continent were a million gallons annually and industrial requirements 10 millions, a target which they said ought to be reached in 15 years time.

Consumption of industrial alcohol is estimated to have gone up from 3·4 million gallons in 1950 to 5·2 million gallons by 1955. In addition about a million gallons of alcohol are at present used in the manufacture of acetate rayon and are met from the production of power alcohol grade spirits.

POWER ALCOHOL

The importance of the power alcohol industry lies in its supplying a product which can replace an equivalent quantity of imported petrol. The rapid development of the sugar industry since 1931 has rendered large quantities of molasses available for its production.

Consumption of power alcohol in 1955-56 was estimated to be only about 10 million gallons, as against 18 million gallons envisaged because of difficulties in providing facilities for mixed petrol with alcohol and of comparatively high cost of production of alcohol in certain areas.

The number of units engaged in the manufacture of power alcohol in 1959 was 17 with an aggregate capacity of 16·68 million gallons.

The installed capacity and actual production in thousand bulk gallons are given below:

Year	Capacity	Production
1952	10,920	7,742
1953	13,020	8,120
1954	13,020	8,007·6
1955	13,812	10,432·8
1956	14,352	10,270·8
1957	15,500	10,100
1958	16,680	10,200
1959	16,680	8,030
Jan.-Aug. 1960 *	75·81	36·26

* Figures are in million litres.

According to the Census of Manufacturing Industries, 1958, the fixed capital investment in the 41 out of the 49 registered distilleries and breweries (including power alochol manufacturers) in the country was of the order of Rs. 363·49 lakhs in 1958. The number of persons employed in the industry was estimated at about 4,608.

The total quantity of molasses consumed was 218,522 tons valued at Rs. 40·65 lakhs. Production amounted to 4,700,404 gallons of country spirit worth Rs. 128·37 lakhs, 463,689 gallons of Indian made foreign spirit worth Rs. 111·11 lakhs, 960,027 gallons of rectified and re-rectified spirit worth Rs. 13·20 lakhs, and other kinds of alcohol worth Rs. 220·16 lakhs.

Imports of alcohol are banned, but small quantities are imported along with drugs and perfumed spirits or in the form of liquors. Exports of alcohol are confined to despatches of denatured spirit to Burma and Ceylon and small quantities of rum.

The principal raw material required is molasses. Out of a total production of 7·25 million tons of molasses in 1958-59 (estimated), Uttar Pradesh and Bihar accounted for about 70 per cent. Other raw materials required in small quantities are sulphuric acid, ammonium sulphate and entertaining agents.

Difficulties in the supply of molasses and offtake and the unremunerative price of power alcohol have kept production at a low level compared to the installed capacity. With a view to overcoming these difficulties and ensuring a steady growth of the industry, a Committee was set up by the Ministry of Commerce and Industry in October 1955.

The Committee submitted its report in December 1956. Its main recommendations have been given in the 1959-60 edition of the Directory.

The report of the Committee, together with the Government of India's decisions, was released to the public in March 1958.

In April 1959, the Government of India announced their decisions on the remaining recommendations of the Committee.

(*See* 1960-61 *edition of the Directory*).

Three notable suggestions of the Committee have been accepted by the Government of India, first, the minimum annual capacity for a distillery (power alcohol or industrial alcohol) should be one million gallons, although units of smaller capacities can be permitted in certain circumstances. Secondly, an adequate number of tank wagons for transport of both alcohol and molasses must be made available. Thirdly, a standing advisory committee on denaturants should be constituted and entrusted with the task of enlarging or altering the list of special denaturants for alcohol intended for different industrial uses. On the question of freight rates on alcohol the Government have agreed to extend uniformly reduced freight only to ethyl alcohol meant for large-scale industrial uses. In its opinion, such a concession need not be given to pure forms of ethyl alcohol meant primarily for potable purposes.

Based on the anticipated requirements during the Second Plan period, a combined production of 45 million gallons of power and industrial alcohol had been fixed as a target to be achieved by 1960-61. It is estimated that a sum of about Rs. 1 crore was invested during the Second Plan to achieve this capacity. This was exclusive of the outlay on the modernisation and improvement of existing units. About 2,000 additional persons are estimated to have been employed in the industry during the Second Plan.

In view of the prospects of plentiful supply of molasses in the Third Plan period and considering the almost unlimited number of industrial uses of alcohol, the draft outline of the Third Plan has accorded a notable role to the development of the alcohol industry. The production target to be reached in 1965-66 is fixed at 50 million gallons (power and industrial alcohol) which is double the estimated output of 25 million gallons in 1960-61 (last year of the second Plan). In order to secure this additional quantity, the draft outline envisages an expansion in the installed capacity from 45 million gallons (estimated) in 1960-61 to 60 million gallons in 1965-66.

ARECANUT INDUSTRY

ARECANUT is one of the most important commercial crops of India. It has an important place in the religious, social an cultural life of our people irrespective of caste, creed or social status. Arecanut chewing with betel leaves and title lime (Thambulam, Pansupari) has become a habit with some people and a luxury of many in the country.

Before partition India had about 5·25 lakh acres under arecanut. She has now 2,61,500 acres under arecanut. The production is about 22 lakh maunds and our requirement is about 33 lakh maunds, India has now to depend on foreign countries such as Malaya, Singapore and Ceylon to make up the deficit of 11 lakh manuds.

Acreage and Production of arecanut:

States.	Area in acres.	Production in lakh maunds.	Percentage.
Kerala	1,49,400	10·6	46·23
Mysore	73,100	7·79	35·80
Assam	25,500	2·60	11·95
West Bengal	5,500	0·50	2·30
Bombay (Bilingual)	5,000	0·56	2·57
Madras	3,000	0·25	1·15
Total	2,61,500	21·76	100

Arecanut Research: To step up the production with a view to making the country self sufficient and saving foreign exchange, a Central Arecanut Research Station at Vittal, South Kanara and a series of regional arecanut research stations at Mysore, Kerala, Assam and West Bengal, have been established by the Indian Central Arecanut Committee and the State Governments. The Regional Arecanut Research Station at Thirthahalli, Shimoga District, Mysore is the pioneer research station sponsored by the Indian Central Arecanut Committee and the Mysore Government.

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AUTOMOBILE INDUSTRY

IT would appear that the first motor car was imported into India in 1898. The practice up to the end of the first world war was to purchase complete motor vehicles directly from abroad or through agents or dealers in India.

It was in 1920 that two automobile manufacturers, one from the U.S.A. and the other from Canada, set up local companies to do business in motor cars and trucks.

General Motors India Ltd. commenced assembling trucks and cars from components and parts imported from the U.S.A. in c.k.d. condition in their factory at Bombay in 1928, while Ford Motor Company of India Ltd. commenced c.k.d. assembly of automobiles at Madras in 1930, and at Bombay and Calcutta in 1931.

Addison and Co., Ltd., commenced c.k.d. assembly of cars and trucks at Madras in 1936.

In addition to the above, other firms in the field were: Standard Motor Products of India Ltd., Madras; Automobile Products of India Ltd., Bombay; Ashok Motors Ltd., Madras; Dewar's Garage and Engineering Works, Calcutta; Peninsular Motor Corporation Ltd., Calcutta; French Motor Car Co., Ltd., Bombay; and Mahindra and Mahindra Ltd.

The total annual assembling capacity of the firms mentioned above was estimated around 84,014 cars and commercial vehicles.

In 1944, two companies, Hindustan Motors Ltd., Calcutta, and Premier Automobiles Ltd., Bombay, with an authorised capital of Rs. 20 crores and Rs. 10 crores respectively, were established with a programme for progressive manufacture of complete automobiles.

Premier Automobiles Ltd., established their factory at Kurla, Bombay in March 1947. Hindustan Motors Ltd. commenced operations at Uttarpara near Calcutta in 1948.

In 1953 Government accepted the recommendations of the Tariff Commission that out of the 12 manufacturers and/or assemblers in the country only 5 who had manufacturing programmes should be allowed to assemble and progressively manufacture vehicles in the country except in the case of Jeep type vehicles. The remaining units which were pure assemblers curtailed their operations by stages and eventually closed down their assembly shops. Of the five approved manufacturers, one could not proceed with their programme of manufacture and consequently the approval was withdrawn.

Ashok Motors Ltd., one of the approved manufacturers subsequently entered into an agreement with Leyland Motors Ltd., England and converted themselves into a new company known as Ashok-Leyland Ltd. for the manufacture of commercial vehicles of G. V. W. of about 10 tons and above. Mahindra & Mahindra Ltd., submitted a programme for the manufacture of jeeps which was approved by Government. Approval was also granted to a new unit, *viz.* Tata Engineering & Locomotive Co., Ltd., for the manufacture of diesel commercial vehicles in collaboration with Daimler-Benz A.G. of West Germany. For automobile diesel engines, Government recognised Simpson & Co., Ltd., Madras, and the Automobile Products of India Ltd., Bombay, as approved manufacturers, these two makes of engines being the power units for diesel chassis (less engines) manufactured by Hindustan Motors Ltd., and Premier Automobiles.

MANUFACTURERS

With the additions mentioned above, the country had thus eight approved manufacturers of automobiles and/or engines by the end of 1955:

1. Hindustan Motors Ltd., Calcutta:—Hindustan Cars and Studebaker trucks now replaced by Bedford trucks.
2. Premier Automobiles Ltd., Bombay:—Fiat Cars and Dodge and/or Fargo trucks.
3. Standard Motor Products of India Ltd., Madras:—Standard Cars.
4. Ashok-Leyland Ltd., Madras:—Leyland Trucks.
5. Mahindra & Mahindra Ltd., Bombay:—Willy's jeeps.
6. Tata Locomotive & Eng. Co. Ltd., Bombay:—Tata-Mercedes-Benz Trucks.
7. Simpson & Co., Ltd., Madras:—Perkins Engines.
8. Automobile Products of India Ltd., Bombay:—Meadows Engines.

Though the Government had originally accepted the recommendations of the Tariff Commission (1953) for the manufacture of (*a*) Baby and Big cars as well by Hindustan Motors Ltd., (*b*) Big cars as well by Premier Automobiles Ltd., and (*c*) medium cars as well by Standard Motor Products of India Ltd. certain policy changes were later made by the Government. The difficult foreign exchange situation that developed by the end of 1956 and in the beginning of 1957 necessitated these changes with the result that the types and makes of vehicles to be developed were rationalised to only 3 passenger cars, 3 medium type trucks, one heavy truck, one jeep and one light truck:

Cars: Three manufacturers of cars:

1. Standard Ten, 2. Fiat 1100, 3. Hindustan Amassador/Land Master.

Trucks: One manufacturer of

(a) *Trucks: Light—1 ton:* Dodge (Petrol & Diesel).

Three manufacturers of:

(b) *Trucks: Medium—3/5 tons:* 1. Dodge (with petrol engine), 2. Mercedes-Benz (with diesel engine), 3. Bedford.

One manufacturer of: (c) *Trucks: Heavy:* Leyland Comet. Tiger/Titan.

Three manufacturers of:

Diesel Engines (for medium trucks): 1. Perkins—P6, 2. Meadows. Both suitablle as original fitment for Dodge and Bedford Trucks. And 3. Tata Mercedes Benz.

One manufacturer of:

Jeeps: Willy's Jeeps.

Thus the country had 3 models and 3 manufacturers for cars and medium trucks and one model and one manufacturer for light trucks, heavy trucks and jeeps in 1957.

The Ministry of Defence also entered the field of manufacture through an agreement with the M.A.N. of West Germany for the manufacture of multi-fuel trucks in ordnance factories. This was in Sept. 1958. The rate of output is reckoned at 2,000 per annum. It is understood that considerable saving would accrue to the Ministry.

According to Government there would be a saving of Rs. 7,500 per truck in the beginning, the saving is expected to increase as the percentage of indigenous manufacture goes up. The 'Shaktiman' truck, as the truck has been called, has additional advantages over other trucks which the Army have been getting like increased payload by 30 per cent, multi-fuel engine and other special features which will make it a sturdy cross-country vehicle more suitable than other kinds for military purpose.

The agreement provides for assistance in establishing complete indigenous manufacture. The production programme envisages progressive manufacture of trucks in India, so that by June 1964, the entire truck will be made in India. According to the original schedule the percentage of the indigenous manufacture of truck components to be progressively achieved are as under:—

First year—30 per cent; second year—50 per cent; third year—70 per cent; fourth year—80 per cent and fifth year—90 per cent. This schedule was later improved upon and an earlier total truck production was anticipated.

The authorised capital of the automobile and transport vehicles manufacturing firms is (Feb. 1960) about Rs. 65 crores and the paid-up capital about Rs. 35 crores. The investment in plant and machinery and buildings is over Rs. 30 crores. Of the total capital the investment in the ancillary industry is about Rs. six crores.

The total employed directly in the automobiles and connected industries is in the neighbourhood of 25,000. This figure, however, does not include the indirect employment this industry affords in various distribution, operation and maintenance centres connected with it. It would not be an exaggeration to say that the indirect employment figure would be about 6 times the figures of labour directly employed by the Industry.

PRODUCTION

The automobile industry has progressed rapidly as a result of the efforts made both by the Government and the Industry. The production of vehicles went up steadily till 1957. This increase however was not maintained in 1958 mainly because of the lack of adequate provision of foreign exchange. The production figures were:

	1956	1957	1958	1959	1960
Passenger cars and station wagons	13,666	12,211	8,126	11,993	19,096
Jeeps	4,139	4,599	4,118	4,568	5,501
Commercial vehicles ..	14,333	16,248	14,579	20,342	27,512
TOTAL	32,138	33,058	26,823	36,903	52,115

N.B. Production of diesel engines in 1959 & 1960 respectively: 8,707; 10,566. Value of ancillary industries in 1959: Rs. 750 lakhs; 1960: Rs. 900 lakhs. Total value of automobiles in 1959: Rs. 78 crores; 1960: Rs. 106 crores.

The progress of an industry could be judged by the extent of indigenous content achieved by it in a period of four to five years. In 1953 there was no manufacture, only assembly from imported components, the only indigenous material used being tyres, tube, battery and upholstery materials. There was, however, one exception to this the Hindustan. The rate of increase is dependent upon the installation of additional machine tools which in turn is dependent upon the foreign exchange and foreign exchange has not been very favourable.

By the end of 1960, the position had completely changed.

The indigenous content achieved by the end of 1960 are:— Standard Ten 50·7%; Fiat 1100 64%; Hindustan Ambassador 76·4%; Jeeps 73·6%; Dodge—3 ton 165″ W.B. 80%; Mercedes-Benz 165″ W.B. 76·8%; Leyland Comet 163″ W.B. 65·7%.

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Percentage of indigenous content as at the end of 1960 : Commercial vehicles 75 ; passenger cars 65 ; Jeeps 73·6 ; Motor Cycles 62 ; Scooters and 3 wheelers 35 to 50.

The figures were arrived at by comparing the *c.i.f.* price of the imported components (finished and semi-finished) with the ex-factory cost of the vehicle in India). Even here in respect of certain vehicles, the progress would have been much more but for the fact that after 1957 the necessary machinery and equipment required to increase further the indigenous content were not made available because of a shortage of foreign exchange for the purchase of capital goods and machinery.

Besides the two truck manufacturers who have a programme for the manufacture of their own diesel engines, two firms exclusively for the manufacture of diesel engines for supply as original equipment to the other truck manufacturers were established. Their production since 1956 has been :

	1956	1957	1958	1959	1960
Perkins	3,236	3,011	3,819	7,814	9,249
Meadows	144	322	436	893	1,317
TOTAL	3,380	3,333	4,255	8,707	10,566

The average indigenous achievement as at July 1959 is of the order of 67 per cent.

Compared with the position of the industry in 1953, there is thus little doubt about the great progress made both in the quantity of production and the indigenous content. Also, it is now supposed that Government will be able to approve and sanction the release of the necessary foreign exchange for machinery, equipment tools, jigs and dies to all the manufacturers. It is hoped therefore that by the end of the Second Five Year Plan, the indigenous content of the cars and vehicles would be raised to 75 to 85 per cent on an average.

The number of persons employed by the main manufacturers has increased from 5,000 in 1954 to 35,000 in 1960.

MOTOR CYCLES, SCOOTERS, TRAILERS

The manufacture of motor cycles, scooters and three-wheelers was established only in the year 1955. There are at present three firms manufacturing these items. The types of vehicles under development and their production year-wise have been :—

(in Nos.)

	1956	1957	1958	1959	1960
Motor cycles :					
150 cc, 350 cc	1,022	1,827	2,653	3,239	3,998
Scooters : 150 cc, *Scooterette :* 48 cc	4,735	6,528	4,391	3,940	12,880
3-Wheelers : 150 cc, 350 cc, 400 cc	529	852	683	1,482	
TOTAL	6,286	9,207	7,727	8,661	16,878

Production of the following by A.P.I. Ltd., during 1959 & 1960 respectively: Scooters (2,656 ; 9,908) ; 48 c.c. (1,176 ; 876) ; 3-Wheelers (876 ; 449).

This shows the considerable progress achieved so far in these branches of the industry.

On an average the indigenous content achieved is about 40 per cent. It is estimated that this would rise to about 70 to 75 per cent by the end of the Second Plan Period. These vehicles are popular, but because of the foreign exchange restriction, it has not been possible to manufacture a larger number and utilise the full installed capacity. The fixed investment in the two industries Motor Cycle and scooter roughly amounted to Rs. 2·34 crores. (Nov. 1960).

Two more units which will manufacture scooters and motor cycles have been licensed. One Escorts (Polish) with a production capacity of 600 scooters a month, was expected to go into production in May or June 1960. The second one Ideal Jawa (India) Prvt. Ltd. would be set up in Mysore with Czech. collaboration with a production capacity of 6,000 per annum. The present output of scooters has already exceeded the 2nd Plan target.

Transport capacity could be augmented by using truck-trailer combination. With this end in view, the manufacture of trailers has been strongly encouraged. There are at present 12 units manufacturing trailers of 2, 4 and 8 wheel types having a carrying capacity of upto 10 tons. The production of trailers since 1956 has been as under :—

(in Nos.)

1956	1957	1958	1959	1960
1,899	1,862	1,920	1,536	—

By 1960–61 these vehicles will have reached 85 per cent indigenous content.

ANCILLARIES

Items like tyres, tubes, battery, rubber parts, upholstery material and paints are all obtained from indigenous sources for all the vehicles in the manufacturing programme.

At present (Feb. 1960) there are about 50 recognised units engaged in the manufacture of various ancillary items besides the original equipment manufacturers.

The following manufacturing industries are more or less well established : pistons and piston rings, cylinder liners (dry), fan felts, radiators, propeller shafts, bodies for automobiles, seat bench assembly, upholstery material, batteries, electric lamps and bulbs, ball bearings, tyres and tubes and paints. To the list are added gudgeon pins, electric horns and new ranges of piston.

Manufactures started later are : sparking plugs, fuel injection equipment, electric horns, shock absorbers, wheels and rims, spanners, and brake lining, clutch facings, piston rings, cylinder liners, oil seals, metal gaskets, scammel semi-trailers, brake lining, clutch discs and friction materials.

The production of automobile components, which was valued at Rs. 42·31 lakhs in 1951, had increased to about Rs. 7·5 crores in 1959. In 1959 production included items like piston assembly, cylinder liners, thin-walled bearings, valves, fuel linings, clutch facings, clutch-assembly, hydraulic brake assembly, leaf springs, spark plugs, dynamos, gaskets, etc. Several schemes to promote the development of ancillary industry for the manufacture of automobile components, licensed during the last few years were expected to go into production during 1961.

The production was valued at over Rs. 9 crores in 1960. This is a big advance. Moreover these figures are exclusive of the production of numerous small firms which are producing many automobile components, and whose activities do not come under the provisions of the Industries (Development & Regulation) Act, and whose production statistics are therefore not available.

The year 1959 saw the approval of a number of fresh proposals for the manufacture of new ancillary items and for effecting a substantial expansion of the existing undertakings. The items covered were starter motors, dynamos, cut-outs, distributors, wheels and rims, dash board instruments, steering assembly, pistons, thin-wall bearings, fuel injection equipment, brake linings, radiators, ignition coils, electric horns, etc.

Capacities remain to be established for items such as tapered and parallel roller bearings, precision die castings, and garage equipment.

It is expected that most of the raw material required by the automobile ancillary industry would be available within the country by the end of the Third Five-Year Plan.

FUTURE

In estimates made in 1956 the Tariff Commission put the total annual production capacity of the industry at 49,800 vehicles on single shift basis and that of engines at 10,000. The annual demand by 1960–61 was estimated at 40,000 commercial vehicles, 20,000 passenger cars and 5,000 jeeps making a total of 65,000 vehicles. The Commission also recorded that there has been a gradual improvement in the quality of automobiles produced in India since 1954.

On the basis of the Commission's report the Government decided that the nett dealer prices (*i.e.* ex-factory prices charged to the dealers) should not exceed the ex-works cost by more than 10 per cent. The Government also came to the conclusion that the dealer's commission should be fixed at 10 per cent of the ex-factory prices for passenger cars and jeeps and 7½ per cent of the ex-factory prices for trucks, buses and other commercial vehicles. The Government finally accepted the Tariff Commission's recommendations that the industry should be given protection for a period of 10 years.

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Details of estimated demands in 1961 and 1966 are shown in the table below :—

Type	Probable demand in	
	1961	1966
	Nos.	*Nos.*
Cars	20,000 to 24,000	40,000 to 45,000*
Trucks & Buses ..	30,000	60,000 to 75,000
Jeeps	6,000	9,000 to 10,000
Motor Cycles and Scooters	20,000 to 24,000	40,000 to 50,000
Three-Wheelers ..	4,000 to 5,000	8,000 to 10,000

*If a small car is introduced into the automobile industry's manufacturing programmes, or any other development results in some appreciable price reduction, the demand would probably increase to 60,000.

If these demands materialise, the annual turnover of the automobiles and the ancillary industries taking into account spare parts and replacements will be nearly Rs. 250 crores against the present turnover of about Rs. 65 crores.

The Government constituted a Development Council for the scheduled industries engaged in the manufacture or production of automobiles, automobile ancillary industries and transport vehicles industries in April 1959. The first meeting of the Development Council was held in New Delhi on 13th July 1959.

The Jha Committee, which was appointed by the Government to review the progress of the Indian automobile industry and explore the possibilities of manufacturing a small car in the country, submitted its report to the Government on Feb. 6, 1960.

The committee is understood to have recommended a number of measures to manufacture practically all the components of a vehicle in the country in the next two years. At present, more than 70 per cent of the components of certain types of vehicles are manufactured in India.

The committee is stated to have come to the conclusion that there is scope for the manufacture of a small car. It has not recommended any particular model but has stated that the small car should be roomy, sturdy and capable of carrying an average Indian family.

The Government, it is reliably learnt, is anxious to give a small car to suit the pocket of an average middle class man at a cost of Rs. 6,000 inclusive of taxes. And it has been announced that the small car would be manufactured in the public sector. An expert committee headed by Mr. G. Pande is now studying the various models of cars with a view to arriving at a decision as to the most suitable model and other aspects of the manufacture.

CEMENT INDUSTRY

THE first venture in the manufacture of Portland Cement in India took place in 1904, in a small factory just outside Madras, but it quickly went out of business.

At the beginning of the First Plan, there were 21 cement factories and at the end of the Plan, 27 units engaged in the production of cement.

In March 1957, the number of factories rose to 28, of which one was owned by the U.P. Government and one by the Mysore Government. Of the rest, all privately owned, seven were in Bihar, four in Bombay,* three in Madras, two each in Mysore, Andhra, Madhya Pradesh, Rajasthan and the Punjab, and one each in Orissa and Kerala. The total capacity was about 6 million tons a year and the total production about 5 million tons. The number of factories in existence in 1958 was 29, in 1959 it was 32. Nine new factories were expected to be set up during the remaining period of the Second Plan—two each in Bombay* and Madras, one each in Mysore, Andhra Pradesh, Assam, Kashmir and Pondicherry. The number of factories as on March 1961 was 34.

The installed capacity which was 8·35 million tons (8·48 million tonnes) at the beginning of 1960-61 increased to 8·93 million tons (9·07 million tonnes) at the end of 1960-61. A total quantity of 7·17 million tons (7·28 million tonnes) was produced during 1959-60. The production in 1960-61 upto Jan. 31, 1961 was about 6·47 million tons (6·57 million tonnes). The production was expected to be 7·10 lakh tons each in Feb. and March 1961.

A sum of about Rs. 29 crores had been invested in the industry up to 1950-51, of which the A.C.C. accounted for Rs. 15·5 crores and the Dalmia Group Rs. 7 crores. Some 33,000 persons were employed by the industry in 1950-51. Excluding Rs. 2·92 crores spent on the 2 lakh tons cement factory of the U.P. Government at Churk, about Rs. 15 crores are estimated to have been invested in new units and expansions in the cement industry during 1951-56. The investment incurred by the Associated Cement Companies on their projects is estimated to amount to Rs. 11·76 crores during this period.

For the expansion of capacity in the private sector to 12·5 million tons by 1960-61 from 4·6 million tons in March 1956 (the capacity in the public sector in the two plan periods was to be 3 lakh tons and 5 lakh tons respectively), an investment of about Rs. 80 crores was expected to be required. The development programme of the ACC envisaged an investment of Rs. 35 crores for stepping up the capacity of their factories from 2·782 million tons in March 1956 to 5·288 million tons by the end of the Second Plan.

Altogether the capacity of the industry was envisaged to be stepped up to 10·25 million tons per annum by the end of the Second Plan.

By 1960-61, the consumption of cement is estimated to have reached 12·5 million tons at the end of the Second Plan period.

To meet this increased demand, the Government approved various expansion schemes.

PRICE

The recommendations of the Tariff Commission regarding price are given in the 1960-61 edition of the Directory. The revised prices were to remain in force until the end of June 1961. While in almost all cases the producers have been allowed an increase in price, the *f.o.r.* destination price of cement, i.e., the price at which cement packed in new gunny bags is sold to consumers at all railheads throughout the country, will continue to be the same as at present, namely Rs. 117·50 per ton.

The S.T.C. has been handling the entire production of cement in India for the last three years.

The prices of indigenous and imported cement are pooled and its distribution has been taken over by the State Trading Corporation in order to provide for substantial import of cement in the interests of consumers and to rationalise properly and regulate the use of cement when its demand has gone up so high.

The excise duty on cement was raised from Rs. 20 to Rs. 24 per ton with effect from 1st March 1958.

EXPANSION

The cement industry recorded steady progress during 1959. With the coming into operation of one new unit and completion of six expansion schemes, the installed capacity of the industry has increased from 7·05 million tons in 1958 to 8·35 million tons in 1959. The capacity at the end of August 1960 stood at 8·57 million tons. The actual production was 5·10 million tons in August 1960, as against 6·82 million tons in 1959, 6·07 million tons in 1958 and 5 million tons in 1957. Besides the 32 units already in operation in the country, 54 schemes, comprising 25 new units and 29 projects for the expansion of existing units involving a total additional capacity of 7·686 million tons a year had been approved by the Government of India upto the end of 1959. The schemes are in various stages of progress. Of these, fifteen schemes (four new units and eleven schemes for expansion of existing units) with a total capacity of 1·8 million tons were completed by the end of 1958, while another eleven schemes were expected to be completed by the end of 1959 giving a total capacity of 10·4 million tons by that date. The remaining schemes were scheduled to be completed progressively by 1960-61. In meeting the requirements of foreign exchange for the procurement of capital goods for implementing these schemes, assistance was received from the Technical Cooperation Mission and the Development Loan Fund.

The Third Plan Draft Outline contains large-scale programmes for these projects, which means that the demand for cement will rise markedly in the coming years. The aggregate requirements in the last year of the Third Plan, that is, 1965-66, are expected to be of the order of 13·50 million tons, whereas the capacity at the end of the current Plan is put at 9·50 million tons on the basis of three shifts working 300 days in a year; the existing capacity is a little over 8·32 million tons. The capacity target to be achieved by 1965-66 is 15·00 million tons. By the end of the Third Plan six to seven cement plants with a daily production capacity of 500 tons will be manufactured annually. The total value of the plants is estimated at Rs. 4—5 crores, with indigenous content of 90 per cent.

Owing to the modernisation of some of the units for making asbestos cement products, the capacity of the industry has reached 240,000 tons (against 210,000 tons in 1957) and production has increased from 119,828 tons in 1956 to 157,577 tons in 1957, and to 185,563 tons in 1958 but declined to 179,321 tons in 1959. The industry has to depend largely on the import of raw asbestos from abroad, and owing to the present difficult foreign exchange position, no new schemes for the manufacture of asbestos products are being licensed.

* Bilingual.

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Six firms have been registered or licensed for the manufacture of cement machinery. Much of this will be manufactured in India by the end of the Plan.

The imports and exports respectively (in tons) of cement by land and sea during the period of the First Plan were as follows: 1951-52 (10,312; 67,758); 1952-53 (3,652; 57,441); 1953-54 (6,694; 86,116); 1954-55 (6,000; 101,429); 1955-56 (10,717; 51,351).

During the year 1957, India imported 351,000 tons of cement and a small quantity was exported.

Import of cement had been completely stopped in 1958, while about 40,602 tons were exported. The export figure for 1959 stands at 176,902 tons and for 1960 (April to September), at 52,412 tons.

The export quota for 1960 was four lakh tons.

WAGE BOARD

The recommendations of Central Wage Board for the Cement Industry are given in the 1960-61 edition of the Directory.

Government has accepted the recommendations. The recommendations of the Wage Board are in the process of implementation. The study in regard to workloads, suggested by the Wage Board, is in progress in a few selected cement factories by the Chief Adviser of Factories (March 1961).

CHEMICAL INDUSTRY

FOR purposes of industrial production, chemicals fall easily into one of two major groups: (*a*) Heavy Chemicals; and (*b*) Fine Chemicals.

According to the latest data, there are over 250 factories with a capital investment of nearly Rs. 33 crores and providing employment for about 35,000 workers.

At present, there are two Development Councils, one for the scheduled industries engaged in the manufacture and production of alkalies and allied chemicals under the chairmanship of Mr. C. R. Rao of Tata Chemicals Ltd., and another for the scheduled industries engaged in the manufacture and production of acids and fertilisers under the chairmanship of Dr. M. D. Parekh of National Rayon Corporation Ltd.

SULPHURIC ACID

The production of sulphuric acid has increased by about 20 per cent over that of 1959. Actual production was 2,92,169 tons in 1959 as against 3,50,000 for 1960.

The trend of production in tons is as follows:

1950, 102,480; 1951, 106,932; 1952, 96,084; 1953, 109,091; 1954, 150,876; 1955, 156,000; 1956, 165,216; 1957, 196,068; 1958, 226,588; 1959, 2,92,169; 1960, 3,50,000.

Licences have been issued for additional installed capacity of 244,735 tons per annum (total for 17 manufacturing units). Two other new units have gone into production with a total capacity of 24,750 tons per annum during 1959-60.

A company was formed in March 1960 for the manufacture of sulphur and sulphuric acid from the pyrites deposits in the Amjor area of Bihar in the public sector. The estimated cost was beween Rs. 6 and 7 crores.

The Government fixed a ceiling price for sulphuric acid at Rs. 175 per ton ex-works, linking it to a price of Rs. 275 per ton for sulphur delivered to the works. Variations in the price of sulphuric acid have been provided for to allow for fluctuations in the price of sulphur.

The reduction in the price of sulphuric acid led to the closure of three chamber plants with capacities less than seven tons of acid per day. However, the capacity of 10 contact plants have been raised. The number of units on production during 1959 was 35 with a total installed capacity of 374,084 tons per annum.

The annual consumption of sulphuric acid in different industries in 1955-56 was estimated at 160,000 tons and was estimated to rise to 470,000 tons by 1960-61. The following picture shows the programme of development for sulphuric acid during the five year plans.

(In '000 tons)

1950-51 Production	1955-56 Production	1960-61 Estimated		Targets for 1965-66	
		Capacity	Production	Capacity	Production
99	164	521	400	1,500	1,250

ALKALI INDUSTRY

The alkali industry comprises the manufacture of soda ash and caustic soda, sodium bicarbonate, bleaching powder, benzene hexachloride, liquid chlorine and zinc chloride.

The rated capacity of the soda ash industry has more than doubled in the past nine years. In August 1960, it stood at 216,996 metric tons as against 54,000 tons in 1950 per annum. Two units were engaged in its production during 1959. The trend of production of soda ash in tons is as under:—

1953, 56,868; 1954, 48,288; 1955, 77,268; 1956, 84,240; 1957, 91,925; 1958, 90,862; 1959, 96,128 metric tons; Jan.-Aug. 1960, 91,667 metric tons.

Three new licences for the production of soda ash were issued during 1955 and expansion of one of the existing plants was approved. With the implementation of the new schemes, the installed capacity was expected to rise to 253,000 tons a year in 1960-61.

On the basis of the Tariff Board's report in 1951 the estimated consumption of soda ash was placed at 115,000 tons. This was expected to rise to 155,000 tons by 1955–56 and to 230,000 tons by 1960–61.

The import policy and the high prices since 1951 gave an impetus to this nascent industry though the heavy imports allowed in the first two years of the First Plan caused some temporary difficulties to indigenous producers owing to accumulation of stocks. Actual imports in tons were: 1951: 52,101; 1952: 112,147; 1953: 35,506; 1954: 94,544; 1955: 65,996; 1956: 90,966; 1957: 84,711; 1958: 50,856; 1959: 126,559; April-Sep. 1960: 40,952.

The tariff protection to this industry has been extended up to the end of 1961.

The following table summarises the programme of development of the soda ash industry:—

('000 tons)

1950-51 Production	1955-56 Production	1960-61		Targets for 1965-66	
		Estimated Capacity	Estimated Production	Capacity	Production
45	81	304	240	530	450

In 1959 the production in tons of hydrogen peroxide was 1,000, of bleaching earth 2,200, of hydrochloric acid 11,000, of sodium bicarbonate 5,700.

Caustic Soda.—There were at the end of 1959, 17 units manufacturing caustic soda with an annual capacity of 98,945 metric tons. There were 18 factories at the end of 1960 and 12 more units might come into existence in the 3rd Plan.

Actual indigenous production of caustic soda and the associated chemicals has been as under:—

Year	Caustic soda in Tons	Liquid chlorine in Tons	Bleaching powder in Tons
1955 ..	34,248	11,580	2,700
1956 ..	39,420	15,072	4,656
1957 ..	42,708	15,696	5,340
1958 ..	57,187	19,823	6,509
1959 ..	69,876	24,780	5,184
Jan.-Aug. 1960 ..	66,356	20,847	3,922

The production was expected to reach 100,000 tons in 1960 and it is expected to reach 300,000 tons during the 3rd Plan.

Imports of caustic soda in tons were: 1955: 54,881; 1956: 93,594; 1957: 66,042; 1958: 61,734; 1959: 147,162; April-Sep. 1960: 37,671.

During the Second Five-Year Plan the installed capacity of the industry has risen from 44,300 tons in 1955-56 to 150,400 tons in 1960-61 and actual production from 36,000 tons to 135,400 tons.

Three new units would be set up. The demand for caustic soda in 1959 was 124,000 tons and is expected to rise to 169,000 tons in 1961.

A new factory of Dhrangadhra Chemical Works went into production in 1959 with an initial capacity of 30,000 tons per annum which is to be increased to 55,000 tons. The expansion scheme of Tata Chemicals is being implemented.

In the case of bleaching powder the demand is 8,000 tons per year and it is believed to have risen to 12,000 tons by 1961.

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MISCELLANEOUS CHEMICALS

The present position of some of the important products is as follows :—

—	No. of units.	Annual rated capacity in tons.	Actual production in tons.	
			1959	Jan.-Aug. 1960
Alum	14	9,930*	4,932	2,694
Aluminium sulphate	25	60,567	43,000	N.A.
Ferrous sulphate	10	3,973	2,400	N.A.
Copper sulphate	11	6,135*	3,000	2,248
Sodium thiosulphate	5	2,153	1,000	N.A.
Sodium sulphate	4	828	550	N.A.
Sodium bisulphate	5	1,218	1,000	N.A.
Bichromates	7	6,852	4,332	3,168
Sodium bicarbonate	2	6,276	5,760	4,842
Potassium chlorate	2	3,660	2,724	2,150
Zinc chloride	4	1,546	900	N.A.
Calcium chloride	3	2,861	500	N.A.
Magnesium chloride	4	39,600	7,000	N.A.

N.A. = Not available. * As in June 1959.

Protection for bichromates has been withdrawn with effect from 1st January 1959, while that for calcium carbide has been extended up to the end of December 1961.

The production of calcium carbide by the two units one each in West Bengal and Madras, stood at 3,803 tonnes in 1958. Their rated capacity as on Jan. 30, 1961 aggregated to 16,939 tonnes as against 4,116 tonnes in 1958. Another unit in Maharashtra with a capacity of 14,228 tonnes was expected to start production in February 1961. Two more units, one each in Delhi and Kerala, have been licensed. The capacity of all the five units is expected to reach 56,537 tonnes in 1964. Production of calcium carbide in 1960 was about 8,964 tonnes as against 4,129 tonnes in 1959.

The production of hydro-sulphite of soda, an important chemical for the textile industry, which has now to be imported at the cost of Rs. 1 crore per year, began for the first time in 1958. Two units which will go into production will have a capacity of 3,000 tons by 1961. This would meet about 60 per cent of the total requirements by the end of the Plan.

FERTILISERS

So far in India the inorganic nitrogenous fertiliser almost universally employed has been ammonium sulphate. There are at present eight units in West Bengal and Bihar with a rated capacity of about 425,900 tons of ammonium sulphate per annum. The Sindri factory went into production in November 1951.

The output of ammonium sulphate progressively rose from 45,395 tons in 1949 to 319,620 tons in 1953, to 340,222 tons in 1954 to 393,095 tons in 1955 and 389,017 tons in 1956. In 1957, however, there was a slight setback, the total output amounting to 379,656 tons. The production during 1958 amounted to 384,228 tons, in 1959 to 378,504 tons and in the first seven months of 1960 to 216,698 tons.

Assuming country-wide application of nitrogenous fertilisers the annual needs would be about 12 million tons of ammonium sulphate. The actual capacity in July 1960 was 450,168 tons.

In spite of the full utilisation of the capacity of the Sindri Factory, it has been necessary to import large quantities of nitrogenous fertilizers because of increasing demand. India imported 138,423 tons of fertilisers worth Rs. 1·42 crores in 1958, 646,142 tons worth Rs. 17·06 crores in 1959, and 223,955 tons worth Rs. 4·13 crores during April-Sep. 1960.

Production of ammonium sulphate at the Sindri Factory went up from 321,000 tons in 1955 to 331,000 tons in 1956 and to 332,031 in 1957. A record production of 32,891 tons was reached during December 1957 giving a record daily average of 1,061 tons. This was exceeded in March 1959. Production in 1958-59 was slightly lower at 330,122 tons and during April-November 1959 it was 188,905 tons.

The Fertilizer Production Committee submitted its report in 1955 and suggested suitable location for the establishment of new plants.

As a part of the plans made by the Government of India for increasing fertiliser supply to 370,000 tons per annum by 1960-61, progress is being made rapidly in the expansion of the Sindri factory for the production of ammonium sulphatenitrate and Urea. A new unit with a capacity of 100 tons per day of superphosphate went into production during 1957. It has been decided to set up a second factory at Neyveli in South India. After the implementation of the schemes both in the public and private sectors, it was expected that the annual installed capacity will be 382,000 tons of fixed nitrogen and the production 290,000 tons by 1960-61.

On 15th May 1957, the Government of India brought into force the Fertilizers (Control) Order 1957, with a view to regulating supply of chemical fertilisers of the prescribed standard to cultivators at fair prices. The order empowers the Central Government to fix the maximum price at which any fertiliser may be sold by a manufacturer or a dealer in a particular area and for a specific class of consumer with due regard to local conditions and other circumstances prevalent in that area.

The production and consumption of superphosphates which received a setback in 1955 due to the fall in agricultural prices and rail transport difficulties recovered markedly during the years 1956 and 1957. Production was: 105,060 tons in 1954, 74,160 tons in 1955, 81,168 tons in 1956 and 141,684 tons in 1957. The production during 1958 was 166,848 tons and in 1959, it was 274,626 tons. During Jan.-July 1960 it was 204,786 tons. The aggregate installed capacity in August 1960 was 343,668 tons per annum. Production during 1960-61: 325,000 (estimated).

But in view of the importance of this fertilizer and that of ammonium phosphate the target of consumption was put at about 120,000 tons by 1960-61.

1960-61 capacity of superphosphate: 6 lakh tons.

The Government is planning to provide one fertiliser factory for each State, though the new plants would be smaller than that at Sindri or Nangal, the cost being about Rs. 5 crores, as against Rs. 25 crores for the existing factories and those already approved.

The estimated needs of potassic fertilisers is roughly 30,000 tons by 1960-61 and it may be possible to recover about 52,700 tons from all the salt works in the country. In 1955, the Indian Potash Supply Agency was formed with the approval of Government, which is expected to assist the development of the production of potassic salts from the bitterns of salt works.

Fifteen more fertilizer factories—all in the private sector—are expected to go into production before the end of 1962, bringing the total number of factories producing single superphosphates in India to 31.

FINE CHEMICALS

The term "fine chemicals" is applied usually to substances such as photographic materials, drugs and pharmaceutical products, paints, pigments and varnishes, and dyestuffs. All the figures given below are in tons per annum except where otherwise stated.

The average annual demand has been estimated at 60 tons for calcium lactate, 80 tons for iron-ammonium citrate, 200 tons for potassium citrate and 50 tons for sodium citrate. Government has, on the Board's recommendation, converted the 36 per cent. standard and 26 per cent. preferential revenue duty on calcium lactate into a protective duty.

Production of bromine and bromides at one of the alkali works has been attempted and an annual output of 75 tons bromine, 36 tons potassium bromide and 14 tons sodium bromide has been recorded. The total installed capacity of bromides in 1959 was 204 tons and actual production was 138 tons. In the first eight months of 1960 it was 56 tons.

Coal, tar and wood distillation products are not sufficiently exploited to manufacture fine chemicals and even the war-time production of methanol and formaldehyde has been recently curtailed. Synthetic fine chemicals are yet to be turned out in India on a commercial scale.

Photographic Materials.—The basic chemical required for the photographic industry are: (*i*) gelatin, silver halides and sensitizers in the coating of film, plate and paper base, and (*ii*) hypo-sodium sulphite metal, hydroquinone and chrome alum in the processing stages.

Borax, boric acid, acetic acid and metal and photographic-grade sodium sulphite are still imported. The capacity of sodium sulphate in 1959 was 828 tons and output 550 tons which meets the full demand. Production capacity of 30 tons for potash chrome alum has been established. Hydroquinone is being manufactured in India since 1950. The actual production in 1959 was 17,543 Kilogrammes. There are two manufacturers with a total installed capacity of 34,000 Kilogrammes per annum. X-ray developing and fixing salts have been placed on the market since 1949.

Pre-war imports of raw film base into India were enormous, the film industry alone consuming some 80 million ft. per annum. The Celluloid Industries Panel has recommended the installation of a factory for manufacturing 50 million sq. ft. of all types of raw film, and this should synchronize with the manufacture of gelatin, silver halides, sensitizers and other photographic materials in adequate quantities.

Chemical.	Production.			Main uses.
	1957	1958	1959	
Acetic acid (tons)	2,762	3,200	2,976	Rayon, white lead, lead acetate, dyeing, rubber
Acetone (tons)	694	700	640	Solvent, explosives
Benzene (gals.)	5,16,368	7,89,084	1,064,013	Solvent
Creosote oil light (gals.) ..	5,29,927	8,85,517	1,049,000	Insecticide
Naphthalene (tons)	816	700	640	Disinfectant, etc.

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Paints and Varnishes

There are at least 200 factories manufacturing paints and varnishes, but nearly 150 of them are very small in size. The bigger ones are concentrated in Bombay and Calcutta. Eighteen units with a capacity of 66,360 tons are in Calcutta, and 16 with an annual capacity of 18,360 tons are in Bombay.

The aggregate annual installed capacity of the paints and varnishes industry in August 1960 was 71,160 tons. Actual production during 1958 was 48,000 tons, as against 38,276 tons in 1957. The production in 1959 was 54,240 tons as against 31,889 tons in the first eight months of 1960.

An excise duty was imposed on paints and varnishes at 10 per cent. *ad valorem* with effect from March 1, 1955.

The consumption of paints, varnishes and enamels went up from about 40,000 tons in 1955-56 to 60,000 tons in 1960-61. The demand for nitrocellulose lacquers was expected to rise from about 3,00,000 gallons to 5,00,000 gallons. The existing capacity for ready-mixed paints and varnishes, *i.e.*, 71,160 tons, was considered sufficient to meet the demand during the Second Plan; so also the present capacity of 8,00,000 gallons for nitrocellulose lacquers. The actual output in 1958 was 290,000 gallons.

The following table summarises the development programme of the industry during the Second Plan:

	1955-56	1960-61
(*a*) Ready-mixed paints, varnishes, etc.:		
Capacity (tons) ..	65,000	65,000
Production (tons) .. (esti.)	39,000	60,000
(*b*) Nitrocellulose lacquers:		
Capacity (gals.) ..	800,000	800,000
Production (gals.) .. (esti.)	300,000	500,000

PROTECTION

Protection has been extended for the following upto the end of the year mentioned against each: Calcium lactate 1960; Deprotected from December 1960; Titanium oxide 1961; Caustic soda 1961; Stearic acid 1962; Oleic acid 1962; Dyestuffs 1964.

Protection for hydroquinone has been withdrawn from 1st January 1960.

DRUGS AND PHARMACEUTICALS

Drugs and pharmaceuticals cover a large variety of products from simple extracts of vegetable drugs and glandular preparations to highly complex synthetic drugs and antibiotics.

The drugs and pharmaceutical industry has made great strides since independence. Production has gone up from Rs. 10 crores to more than Rs. 65 crores in the last 12 years. The six drug plants proposed to be established with Soviet collaboration are expected to produce drugs to the tune of Rs. 35 to Rs. 40 crores. The Third Plan Target is of the order of Rs. 150 crores, the aim being to make the country independent of imports except for small quantities of the latest pharmaceuticals. Standards of quality are strictly enforced. There is a State control laboratory for the purpose, whose decisions can be referred to an appellate laboratory at Calcutta. In addition, the Government has been contemplating for some time the establishment of a central control institution to test the products of the various State drug enterprises during the process of manufacture itself. Due attention is being paid to the question of research and each major licence requires the party to undertake some fundamental or applied research. Similarly, the question of reduction in price is constantly before the Government. One example is penicillin. The price of penicillin has been brought down from Re. 1·68 to just 62 nP.

In the field of antibiotics, a penicillin factory was established in the public sector. The Hindustan Antibiotics, located at Pimpri near Poona went into production in August 1955 with a capacity to produce 3·6 million to 9 million mega units of penicillin per annum. (For details see under Government Industrial undertakings). Chloromycetin is being produced by Parke Davis & Co. from the penultimate levobase which is imported. Their plant has a capacity of 3,600 kgs. Actual output was 1,526 kgs. in 1957 and 1,890 kgs. in 1958. Aureomycin is produced by the Atul Products from imported crude chlortetracyclin. The quantity actually produced was 1,383·50 kgs. in 1957 and 1,870 kgs. in 1958 and 1,574 kgs. in 1959. They have also taken up the manufacture of teracyclin.

The manufacture of sulpha drugs has made substantial progress in the country. The installed capacity and actual production respectively in kgs. of different drugs in 1959 are given below within brackets: Sulphadiazine (107,400; 43,425); Sulpha pyridine (18,200; 8,604); Sulphasomidine (24,000; 27,916); Sulphathiazole (182,300; 57,931).

Among the new drugs recently developed for the treatment of tuberculosis are para-amino salicylic-acid (PAS) and Isonicotinichydrazide (INH). Actual output of the two drugs in 1959 was 107,596 kgs. and 29,372 kgs. respectively as against 66,093 kgs. and 20,051 kgs. in 1958. The installed capacity in 1959 was 31,032 kgs. and 126,000 kgs. respectively.

Three manufacturers produce at present anti-leprosy drugs such as DDS and its derivatives. They have a total capacity for 8,160 kgs. of DDS. Actual output in 1959 was 39,28 kgs.

Quinine, the most extensively used anti-malarial drug, has been produced in the country in the factories established by the West Bengal and Madras Governments. During the First Plan period the Madras Government established a new factory at Annamalai with a capacity of 80,000 to 100,000 lb. of quinine salt. Besides, some synthetic anti-malarials such as chloroquin and its salts are produced in India. There are three units engaged in their manufacture, with an estimated capacity of 1,890 kgs. per annum.

There are three manufacturers of anaesthetics with a total capacity of 720,000 kgs. of ether, 89,500 kgs. of chloral-hydrate and 72,000 kgs. of ethylchloride. Actual production in 1959 was 423,188 kgs., 42,295 kgs. and 69,150 kgs. respectively.

Among insecticides, D.D.T. is produced on a commercial scale. The factory of the Hindustan Insecticides in Delhi went into production in March 1955. Production in 1956 was 500 tons. The capacity of the factory has been doubled. Another D.D.T. factory erected by the Government of India at Alwaye in Kerala with an annual capacity of 1,400 tons commenced production in 1958. The total production of D.D.T. in 1959 was 2,441 tons (50 per cent formulation). Two factories manufacture benzene hexachloride with an annual capacity of 3,900 tons. Actual output in 1959 was 2,635 tons.

Shark liver oil is produced in factories set up by the Governments of Bombay,* Madras and Kerala. The existing factories have an estimated capacity of 70,000 gallons per annum of 6,000 i.u.g. of vitamin 'A'. Actual output in 1959 was 11,548 gallons.

Exports

A number of measures have been taken by the Government of India for stimulating exports of Indian medicinal and pharmaceutical products. An Export Promotion Council for chemicals and allied products has been set up for the purpose and grants in aid are given to the Council for pushing up exports.

A special licensing scheme has been evolved for export promotion. Under this, prospective exporters, who accept a definite target of exports, are granted licences for importing necessary raw materials and accessories. Import duties collected on the imported raw materials and excise duties levied on materials used in the manufacture of exported pharmaceuticals are refunded to exporters. With the co-operation of the Indian manufacturers, certain items of indigenously produced raw materials are being made available to exporters at concessional prices.

Provision is made in Trade Agreements with foreign countries for exports of Indian pharmaceuticals.

Exports: India exported medicinal and pharmaceutical products worth Rs. 88·95 lakhs in 1958 as against Rs. 1·01 crores in 1957. Exports during 1959 were Rs. 82·84 lakhs as against Rs. 49·35 lakhs during April-Sept. 1960. The principal importing countries were Pakistan, Nepal and countries in South-East Asia and West Asia.

Imports: India imported drugs and medicinal products worth Rs. 10·21 crores in 1958, Rs. 8·83 crores in 1959 and Rs. 5·89 crores during April-Sept. 1960.

FUTURE DEVELOPMENT

The Ministry of Commerce and Industry appointed a Committee in February 1953 and the Committee submitted its report in June 1954, making a number of recommendations to improve the existing conditions in the pharmaceutical industry. In 1955, the Government set up a Developmental Council for the industry.

The requirements of drugs and pharmaceuticals are very large in India. Hence, schemes were included in the Second Plan for the expansion of the production of various drugs and medicines.

Some of the important schemes are listed below:

The factory at Pimpri proposes to expand its capacity for penicillin manufacture to 40 million units. In the private sector, the Alembic Chemicals, Baroda, have a scheme for the establishment of a penicillin factory with a capacity of 4·8 million mega units per annum and the Standard Pharmaceutical Works, Calcutta, for the production of 1·8 million mega units of penicillin and 180 kg. of streptomycin. Besides, the Rambaxy & Co., Faridabad, have also been given a licence to set up a plant for the manufacture of 3,000 kgs. of chloromphenicol as also the Mac Laboratories, Bombay for the manufacture of 500 kgs. per annum.

Two firms, Fedco, Bombay and Sarabhai Chemicals, Baroda, have been granted licences for the manufacture of procaine hydrochloride with an annual capacity of 60,650 kgs.

Three new schemes were licensed during 1956-57 for the manufacture of chloramphenicol. The production of isonicotinic acid hydrazide has commenced. About 200 lbs. were being produced a month.

A scheme for the manufacture of streptomycin at Hindustan Antibiotics Ltd. in collaboration with an American firm is under implementation.

A proposal for the manufacture of Vitamin A, Cortisone and its derivatives, Vitamin B_6 and B_{12}, etc. with foreign collaboration, has been licensed for establishment in the private sector. Licences had been granted for the establishment of four new undertakings during 1959-60. One of them will manufacture plaster of paris, bandages adhesive tapes and other surgeon's requisites. Another will produce anti-histamines, heclosine, Buclizine and Tranquiliser Atarax.

Soviet Aid

The following projects have been proposed by the Soviet team of drug experts:

1. An antibiotics plant to produce not only a large quantity of penicillin but also streptomycin, tetracyclin and new antibiotics.
2. A synthetic drugs plant to produce a large number of sulpha drugs, anti-tubercular drugs, analgesics and anti-pyretics and a number of vitamins, and equipped also to produce special intermediates required for their manufacture.

* Bilingual.

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3. A medical plants laboratory and factory to produce a large number of important drugs from medicinal plants.
4. A unit for the manufacture of glandular products, such as insulin, A.C.T.H., pituitrin.
5. A workshop for the manufacture of most of the important types of surgical instruments required in large numbers.

A start was made with the group of these projects in 1959. The setting up of an intermediate and basic organic chemicals plant—one of the N.I.D.C. projects—will synchronise with the development.

The total capital investment, excluding the investment on land, township and working capital, on the five drug units indicated above is placed at about Rs. 28·7 crores.

The Government have decided to locate the antibiotics plant at Rishikesh (U.P.), synthetic drugs plant at Sanatnagar (Hyderabad, Andhra Pradesh); surgical instruments plant in Madras City; phyto-chemicals plant at a suitable site in Kerala ;glandular projects plant (two units), one at the modernised slaughter house, Bombay, and the other at the modernised slaughter house at Calcutta; and basic chemicals and intermediate plant at Kharpada, near Panvel, in Maharashtra. The final selection of the actual sites would be determined in consultation with Soviet technical experts in the case of first five projects and technical experts from the West German firm of Bayers in the case of basic chemicals and intermediate projects. The Government of India have further provisionally decided to establish drug farms in the following regions for growing specific medicinal plants in each region: Jammu and Kashmir; Darjeeling area in West Bengal; Kerala; Nilgiris in Madras; Chakrata Hills in Uttar Pradesh; Monga Hills area in Assam.

According to a statement by the Minister of Industry, Govt. of India, the country was expected to be self-sufficient in respect of penicillin requirements by the end of 1960. In the case of streptomycin and tetracycline, the present requirements of which were fifty tons and five tons per annum respectively, self-sufficiency was likely to be achieved by the end of 1961. For chloramphenicol, the present requirement of the country was eight tons per annum, and the indigenous production was likely to meet the requirement by the end of 1960.

Dyestuffs : The production of dyes had increased from Rs. 2·63 crores in 1956 to Rs. 10·6 crores by 1959. Imports during this period had declined from Rs. 12 crores to Rs. 7 crores.

The following are the third plan targets for the important chemical and pharmaceutical industries :

(In tons)

	Capacity	Production
Nitrogenous Fertilisers	1,000,000	1,000,000
Phosphatic fertilisers ..	500,000	400,000
Sulphuric acid ..	1,500,000	1,250,000
Soda ash	530,000	450,000
Caustic soda	400,000	340,000
Calcium carbide ..	67,000	60,000
Sodium hydrosulphite	12,000	10,000
Hydrogen peroxide ..	9,500	8,000
Dyestuffs	22,400,000	18,000,000
Sulpha drugs	1,000	1,000
Streptomycin	150	150
P. A. S.	400	400
I. N. H.	100	100
Organic intermediates	24,000	24,000
Phyto-Chemicals ..	7,640	7,640
Insecticides, D.D.T. ..	2,800	2,800
Anti-dysentery drugs..	75	75
Penicillin (million mega units)..	205	120

COFFEE INDUSTRY

COFFEE cultivation is mainly confined to the hilly tracts of south India, from one thousand to six thousand feet above the mean sea level, and is centred in the Malnad area of Mysore, Madras and Kerala. In the lower elevations, which have a higher rainfall, the more delicate but better quality Arabica coffee has given place to the harder but coarser Robusta coffee.

No estimate of the capital invested in this industry has been made with complete coverage. The Plantation Enquiry Commission have estimated in their Report on Coffee submitted in 1956 that the capital invested in the coffee plantation industry by estates of 100 acres and above in extent is Rs. 14·57 crores. The value realised into the coffee pool by the sale of 1958-59 crop was over Rs. 15·72 crores.

Over 190,000 people drawn chiefly from Kerala, parts of Mysore and Madras are employed in the industry. Many of the coffee estates are inter-planted with orange trees, cardamom and pepper vines. There are only two types of coffee grown on commercial scale in India, the one most extensively cultivated being Coffee Arabica and the best in quality, with Robusta coming next in importance. About 50 species and sub-species of coffee are being grown in the Coffee Board's research stations.

The area from 1952 and production from 1953, of the two varieties of coffee are as under :

AREA IN THOUSAND ACRES

Year	Arabica	Robusta	Total
1952-53 ..	168	72	240
1953-54 ..	169	77	246
1954-55 ..	167	85	252
1955-56 ..	162	92	254
1956-57 ..	160	100	260
1957-58 ..	164	104	268

PRODUCTION IN TONS/M. TONNES

Year	Arabica	Robusta	Total
1953-54 ..	22,740	6,815	29,555[1]
1954-55 ..	16,165	8,860	25,025[2]
1955-56 ..	22,605	11,870	34,475[3]
1956-57 ..	29,400	12,500	41,900[4]
1957-58 (E)	29,220	14,480	43,700[5]
1958-59 ,,	25,080	20,790	45,870[6]
1959-60 upto Oct. 1960	31,848†	17,312	49,160

E: Estimates. The equivalents in metric tonnes for 1 to 6 are: [1].30,029; [2].25,427; [3].35,028; [4].42,572; [5].44,400; [6].46,605.

† Comprises 25,181 metric tons of plantation and 6,667 metric tons of Arabica Cherry.

The estimates for 1960-61 are placed at 52,100 tonnes.

Increase in production has been followed by a rise in exports and internal consumption.

The following table gives the trend of exports :

Year	Exports in Metric Tonnes*
1953-54	9,767
1954-55	3,592
1955-56	8,082
1956-57	15,472
1957-58	14,281
1958-59	16,400
1959-60 (E)	20,600

* Out of the season's crop.

The Board has sold for export 12,682 tonnes out of the 1959-60 crop upto the end of October 1960.

There is no export duty on coffee at the moment.

The possibilities of further expansion of the coffee cultivation in Andhra and Assam States and in the Andamans are being explored at present.

The annual average prices realised in the pool sales for each type of coffee from the year 1953 (in Rs. per 50 kg.).

Year	Plantation 'A'	Arabica cherry Flats	Robusta cherry Flats
	Rs. nP.	Rs. nP.	Rs. nP.
1953	215·79	185·89	147·69
1954	201·95	161·53	144·00
1955	213·88	177·84	156·36
1956	210·07	179·74	154·77
1957	219·18	183·03	159·55
1958	214·86	182·79	157·21
1959	237·79	190·26	127·84

COFFEE BOARD

To stimulate internal consumption and to regulate exports a statutory body, now known as the Coffee Board, was set up under the Coffee Market Expansion Board. In December 1952 a Bill was introduced in Parliament to amend the Act of 1942 for the purpose of ensuring better co-ordination between the Board and the Central Government and of providing adequate representation of consumer interests on the Board.

During the year 1960 a new and difficult situation developed in the marketing of Indian coffee consequent on the fall in the prices of coffee sold for exports. The Board was faced with the problem of disposing of the exportable surplus without bringing the final return to the grower below the economic level.

AVERAGE INDEX NUMBERS OF WHOLESALE PRICES OF COFFEE

(Price for week ended August 1939 = 100).

Year	Index
1952	675·4*
1953	619·4*
1954	546·8*
1955	616·0*
1956	635·24*
1957	628·80*
1958	646·80*

* Geometric mean of monthly averages.

Expert Committee

The Expert Committee on coffee marketing set up by the Govt. of India, to go into the question of coffee marketing has submitted its report to the Government. Their recommendations are under consideration.

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COIR INDUSTRY

COIR is the trade name given to the fibre obtained from the husk of the coconut fruit. This golden coloured fibre is also known in Europe as "Cocos Fibre".

India and Ceylon have a virtual monopoly in the production of this by-product of the coconut industry.

India produces about 4,370 million coconuts a year. The area under coconut cultivation is over 16 lakh acres.

In India the coir industry is practically confined to the coastal strip of Kerala State. It accounts for over one million acres of the coconut growing areas out of a total of 1·601 million acres in India. The distribution of the area under cultivation and production of coconuts (latest available) is as follows :—

States	Area in thousand acres.	Production of nuts in thousands.
Kerala	1,107	30,99,000
Mysore	218	4,99,345
Madras	127	4,17,453
Andhra Pradesh ..	88	2,33,007
Bombay*	20	40,071
West Bengal ..	17	22,205
Orissa	11	32,576
Laccadive and Amindive Islands	7	9,625
Andamans	4	2,500
Assam	2	12,757
Total ..	1,601	43,68,569

The coir industry is organised partly on cottage basis and partly in factories. The production of coir fibre, yarn and ropes is essentially a cottage industry, while coir mats, mattings, rugs, carpets, mourzouks, speciality articles, etc. are manufactured in factories.

It is estimated that in the spinning sector the industry provides employment to about five lakhs of people. The spinning sector is spread along the entire coastal region of Kerala State. In the manufacturing sector about 15,000 people are engaged. The manufacturing sector is mainly concentrated in and around Alleppey and Shertallai. The Kerala Government have fixed minimum wages under the Minimum Wages Act in respect of the spinning sector of the industry.

Quality fibre used for the manufacture of mats, mattings, carpets, rugs, mourzouks, etc. is extracted from retted husk. Coarse fibre is extracted from soaked husk or raw husk. The bulk of the output consists of fibre extracted from retted husk. The yarn spun by hand is soft and even twist, while that spun on wheels is hard twist and not so even as hand spun. Wheel Spinning is gradually displacing hand spinning. The spinning is mainly done by women, boys and girls. The Coir Board has introduced a new type of treadle spinning machine.

Coir yarn has certain well-known trade descriptions. They are: (1) Angengo—Superior and Ordinary; (2) Mangadan; (3) Carruva; (4) Alapat—Real and Imitation (Ashtamudy); (5) Vycome or Weaving; (6) Beach; (7) Roping; (8) Quilandy; (9) Beypore; and (10) Unsoaked—fine soaked and unsoaked.

The yarn produced in the spinning districts is marketed chiefly in Alleppey where there are a large number of factories for the manufacture of mats, mattings, rugs, carpets, mourzouks, etc. and also exporters of yarn.

Over 130,000 tons of fibre are estimated to be produced annually.

The annual production of coir yarn is estimated at 120,000 tons, of which wheel-spun yarn accounts for about 70 per cent.

On an average, 23,000 tons of coir yarn are utilised in the manufacture of coir floor coverings such as mats and mattings; 55,000 tons are exported as coir yarn; and about 42,000 tons are consumed in India itself for various purposes including manufacture of ropes and cordages.

According to a census conducted by the Coir Board in 1955, there are 29,941 working spindles and 717 non-working or idle spindles in Kerala State. 797 industrial establishments manufacture coir products in Kerala State. Out of the 797 establishments there are only 98 establishments with 20 looms or more. There are 124 coir factories registered under the Factories Act. These include coir yarn baling and rehanking factories also.

Exports of coir products earn about Rs. 9 crores of foreign exchange every year.

The coir industry in India is subject to violent fluctuations in prices and exports, causing often hardship to a large section of the population. This induced the Government of India to set up a Coir Board by special legislation called the Coir Industry Act, 1953.

The Act also provides for the control of the industry by the Union Government and for the levy of a customs duty on coir fibre, coir yarn and coir products.

At present, the duty is levied on coir fibre and coir yarn only at the rate of 50 nP. per cwt. The annual revenue on this account comes to about Rs. 5 lakhs.

The Coir Board† was established on July 6, 1954. Its chief function is the improvement of markets at home and abroad, thereby establishing a balance between internal consumption and exports so as to give the industry the required economic stability. The Board discharges its functions in accordance with the rules framed by the Central Government.

The Second Five-Year Plan Schemes of the Coir Board relate to the establishment of Research Institutes, sending out foreign delegations for market survey and study the uses of yarn in importing countries, opening of showrooms and sales-depots, and propaganda.

According to the above scheme a Central Coir Research Institute has been established at Kalavoor, near Alleppey. It is proposed to instal a Pilot Plant in the Institute, for the manufacture of mats and mattings on powerlooms, to study the effect of mechanisation on the manufacturing side of the industry. A Branch Research Institute with a model factory attached to it is also proposed to be instituted in Calcutta. Construction work in this connection is nearing completion.

A Trade Promotion Delegation of the Government of India which included a member of the Coir Board visited the U.S.S.R. and the East European countries in 1958. A delegation of the Coir Board visited in 1959 the West European countries, the U.K., U.S.A. and Canada in order to have a close study into the end uses of coir fibre and coir yarn and of the conditions of the trade, to explore the possibilities of expansion of existing markets and to find out new markets for coir goods.

In view of the importance of the coir industry as a foreign exchange earner, the Government of India had sanctioned an amount of Rs. 1·48 crores for the State Governments' schemes under the Second Five Year Plan.

The Coir Board has submitted schemes to the Central Government, estimated to cost Rs. 5,76,64,200 for inclusion in the Third Five Year Plan. Out of this, a sum of Rs. 2,87,79,200 will be allotted for the States' schemes and Rs. 2,78,85,000 will be for the Central Schemes to be implemented by the Board direct. An amount of Rs. 10,00,000 will be provided for schemes for Centrally administered areas.

The Central Scheme consists of two parts, viz. continuation schemes and new schemes.

Continuation schemes include scientific research on chemical, biological and other basic properties of coir fibre and coir yarn, applied research on the various methods of extraction of fibre, studies on the improved type of pedal-operated spinning machine, work on utilisation of coconut pith and coir waste, studies in the dyeing of coir fibre and yarn, working of the Branch Research Institute in West Bengal statistical and economical research, maintenance of showrooms, etc.

New schemes include installation of rope-making machines in the Central Coir Research Institute, Pilot Plant for the manufacture of mattings on powerlooms, manufacture of curled fibre and rubberised articles, establishment of design centre and dye house, etc. It is estimated that the New schemes will cost Rs. 1,62,00,000 and the continuation schemes Rs. 1,16,85,000.

* Bilingual.

† Reconstituted in 1960-61 for three years from July 1960.

EXPORTS

Exporters are now registered; the number registered was 470 (March 1960). The offices for licensing exports are located in Cochin, Alleppey and Kozhikode.

Exports of coir fibre, coir yarn, mats and mattings, and rugs and carpets are detailed below :—

	1955-56		1956-57		1957-58		1958-59		1959-60.	
	Q.	V.	Q.	V.	Q.	V.	Q.	V.	Q.	V.
Coir Fibre	13,320	563	11,572	558	16,871	773	19,667	786	21,225	910
Coir Yarn	10,83,261	57,186	12,31,933	65,598	10,37,524	51,450	10,27,986	49,408	19,79,265	53,808
Coir Mats and Mattings ..	2,78,749	22,120	2,76,493	21,722	2,77,872	21,224	3,02,365	23,979	3,13,246	25,191
Coir Rugs and Carpets ..	1,21,658	10,070	96,676	8,805	66,140	5,660	70,809	6,179	61,778	6,009
Total ..	14,96,988	89,939	16,16,674	96,683	13,98,407	79,107	14,20,827	80,352	23,75,514	95,918

Note :—Q. = Quantity in cwts.
V. = Value in Rs. 000's.

Source :—Chief Controller of Imports and Exports, New Delhi.

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COTTAGE INDUSTRIES AND HANDICRAFTS

THIRD Plan : Rs. 250 crores (tentative).

It is customary to refer to industries which are not required to be registered under the Factory Act as cottage and small-scale industries. There is no accepted line of distinction between cottage and small-scale industries. The term Small-scale industries might be interpreted to include industries which are run with comparatively low capital outlay. However for the purpose of providing governmental assistance the official definition of small-scale industries as revised and simplified recently is as follows:

Small-scale industries will include all industrial units with a capital investment of not more than Rs. 5 lakhs irrespective of the number of persons employed.

The data about employment are extremely meagre. It is, however, very roughly estimated that at least 24 million persons are gainfully employed in these industries classified as under:—

Name of Industry	Persons employed in lakhs.
Textiles	75
Leather	24
Wood	21
Metals	42
Pottery, Ceramics, Tiles, Bricks, etc.	20
Vegetable Oils, Chemical Products, etc.	10
Food including Hand-pounding ..	20
Dress and Toilet	11
Miscellaneous including jewellery and toy making	17
TOTAL ..	240 (Estimated)

Towards the end of 1952 the Government also constituted an All-India Handloom Board, to deal specifically with problems affecting the handloom industry.

In the Government of India the Development Wing of the Ministry of Commerce and Industry is responsible for all small-scale industries.

The main objectives of the development of small scale and village industries laid down in the Second Five Year Plan were (*i*) the avoidance as far as possible of further technological unemployment during the period of the Second Plan, (*ii*) provision of as large a measure of increased employment as possible through different village and small scale industries, and (*iii*) a pattern of development capable of laying the foundation of an essentially decentralised society and also for progressive economic development at a fairly rapid rate. Wherever a large-scale industry competes with a cottage industry, a common production programme should be evolved.

The programme may cover (*a*) reservation of spheres of production, (*b*) non-expansion of the capacity of a large-scale industry, (*c*) imposition of a cess on products of a large-scale industry, (*d*) arrangements for the supply of raw materials and (*e*) co-ordination for research, training, etc.

To carry out research an institution called the Jamnalal Bajaj Central Research Institute was set up in 1954 at Maganwadi, Wardha.

Under the Second Plan there is a fund called the Village Industries Fund.

In February 1955, a Small Industries Corporation, designed to assist small industries, was registered as a private limited company under the auspices of the Government of India. The Corporation will accept contracts for supplying orders to Government and issue sub-contracts for these goods to small-scale industries. The Corporation also undertakes and guarantees loans to such units from banks and has an authorised capital of Rs. 10 lakhs subscribed entirely by the Government of India.

THE KHADI AND VILLAGE INDUSTRIES COMMISSION

In order to encourage more effectively the development of cottage and small-scale industries, the All-India Cottage Industries Board, constituted in 1948, was replaced by two Boards, viz., the All-India Handicrafts Board and the All-India Khadi and Village Industries Board. The former was constituted in November 1952 and the latter in February 1953. In November 1956 the Parliament passed the Khadi and Village Industries Commission Act (Act 61 of 1956) and the Commission was constituted on April 1, 1957.

Members of the Commission: Vaikunth L. Mehta (*Chairman*); Dhwaja Prasad Sahu; A. W. Sahasrabudhe; K. Arunachalam; Pranlal S. Kapadia (*Secretary*).

The functions of the Commission cover

(*a*) planning and implementing the development programme for Khadi and Village Industries under its purview; (*b*) arrangements for the supply of funds, raw-materials, technical guidance, improved implements and marketing facilities; (*c*) organisation of co-operative societies and registered institutions; (*d*) organisation of training; and (*e*) promotion of technical research.

The following industries, as provided in the schedule of Industries included in the Act, come under the purview of the Commission: Khadi (traditional and Ambar), Processing of Cereals and Pulses, Village Oil, Village Leather, Cottage Match, Cane-gur and Khandsari, Palm-Gur, Non-Edible Oils and Soap Manufacture, Handmade Paper, Bee-keeping, Village Pottery, Fibre, Carpentry and Blacksmithy, Methane gas from cow-dung, and Lime manufacture.

TRADITIONAL KHADI

The Commission disbursed Rs. 10·44 crores for the development of traditional Khadi Industry during 1959-60 as against Rs. 6·77 crores and Rs. 8·53 crores in 1957-58 and 1958-59 respectively. Disbursements during the first seven months from April 1960 were Rs. 362·44 lakhs.

Production: Production in 1958-59 was 48·29 million sq. yds. valued at Rs. 9·55 crores while in 1959-60 figures were 45·93 million sq. yds. and Rs. 9·65 crores repectively. Productions during April to Sept. 1960 was 9·20 million sq. yds. valued at Rs. 21 million.

Sales: Sales of Khadi also increased from Rs. 8·61 crores in 1958-59 to Rs. 9·97 crores in 1959-60. During the year the Central Government purchases accounted for Rs. 1·04 crores and the State Governments' purchases for Rs. 1·08 crores as against their purchases of worth Rs. 95·90 lakhs and 90·66 lakhs respectively, previous year.

Employment: In 1959-60, the industry provided work to 11·50 lakh spinners, 74,500 weavers and 50,000 dyers, printers, carpenters, etc.

AMBAR CHARKHA PROGRAMME

During 1956-57, the Commission introduced the Ambar Charkha to produce better quality yarn. Since then the two schemes have been in operation side by side. Expenditure on the Ambar Charkha Programme, during the year 1959-60 was Rs. 439·44 lakhs of which Rs. 174·87 lakhs were grants and Rs. 264·7 lakhs were loans, thus bringing the total expenditure to Rs. 17·53 crores of which Rs. 6·23 crores constitute grant and Rs. 11·30 crores loans.

Production: During the year 1959-60, production of Ambar cloth was 256·49 lakh sq. yds. as against 240·38 lakh sq. yds. in 1958-59, the total production for the four year period being 627·11 lakh sq. yds. as shown below:

1956-57..	18·79 lakh sq. yds.
1957-58..	111·45 lakh sq. yds.
1958-59..	240·38 lakh sq. yds.
1959-60..	256·49 lakh sq. yds.
Total	627·11 lakh sq. yds.

The number of Ambar Vidyalayas for training instructors and carpenters was as follows: Andhra 7, Assam 1, Bihar 3, Bombay (Bilingual) 19, Delhi 3, Kerala 4, Madhya Pradesh 3, Madras 5, Mysore 6, Orissa 1, Punjab 9, Rajasthan 6, Uttar Pradesh 10, West Bengal 2, Total 79.

The number of instructors, carpenters, spinners and weavers trained during the year 1959-60 was 88,349 thus bringing their total for the four year period (1956-60) to 3,96,793.

The employment position under the programme also improved from year to year. Upto the end of 1959-60, 3,66,977 spinners were trained and 3,28,675 Ambar Charkhas were manufactured of which 3,21,612 were introduced. During the period ending Sept. 1960, 4,639 charkhas were manufactured and 14,289 charkhas were distributed, raising the number of charkhas so far distributed to 3,34,804. As against 18,800 handloom weavers and 20 other types of artisans like carpenters, smiths etc. brought under the programme, 27,300 and 24,000 respectively were employed at the end of 1958-59 and 1959-60. The total employment created, therefore, was about 3·73 lakh persons.

HANDLOOMS

The handloom industry is the largest cottage industry next only to agriculture providing livelihood to about 20 millions in the countryside. The extra employment created during the first three years of the Second Plan is reckoned at 3·72 lakh persons. The industry meets about a third (28 per cent) of the country's cloth requirement and plays a vital part in contributing to the rural economy of the nation. There were 27·53 lakh registered looms upto March 1960.

Early in 1953, the Government decided to rehabilitate the handloom industry by creating a 'Cess Fund' but it was not till 1954 that the necessary machinery to implement schemes under the Cess Fund could be set up and started functioning.

For putting the industry speedily on sound economic footing, the All India Handloom Board, through the agency of State Governments, has made concerted efforts in many directions.

The Central and State Governments, directed their efforts towards bringing as large a number of weavers as possible into co-operatives to enable them to get raw materials at competitive rates, sell their products at remunerative prices and get technical guidance and other help. Loans were given from the Cess Fund to the share capital of co-operative societies to start with.

Over 40 per cent of the weavers have already been brought under the co-operative fold — 12 lakhs in 1959.

Production*

Production of handloom cloth in the country during 1958-59 was estimated at 1,865 million yards. Production in 1959 was 1,880 million yards. In 1960 (upto August) it totalled about 1,200 million yards.

The 1958–59 production was higher by more than 25 per cent when compared to the handloom cloth production of 1,471 million yards at the end of the First Plan, 1955–56.

Production in the calendar year 1959 is estimated at 1,919 million yards.

During the first three years of the Second Plan, the Government of India incurred a total expenditure of about Rs. 16·7 crores on various development schemes for handloom industry

* The draft outline of the IIIrd Plan has proposed a target of 2,800 mln. yds. of annual production handloom cloth.

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in the States (excluding expenditure on items spent by the Centre) — 1956–57 : Rs. 6·3 crores; 1957–58 : Rs. 5·5 crores; 1958–59 : Rs. 4·9 crores. Of this total about Rs. eleven crores were given in the form of grants and the balance in the shape of loans. The grants were utilised for the supply of improved equipment, organising training facilities for weavers, opening of dye houses, sales depots, etc. and for rebates on sales of handloom cloth. The loans were for financing the share capital and working capital of the weavers' co-operative societies, industrial co-operatives and apex societies and for common service facilities. From April 1957 loans have been made available not only from the Cess Fund but also from the Reserve Bank through the Apex and central co-operative banks. Till the end of 1958-59 the amount given from the Cess Fund towards the working capital was Rs. 9·26 crores and from the Reserve Bank Rs. 4·16 crores for 1957–59.

Handloom Co-operatives

There are over 10,000 weavers' co-operatives in the country.

The number of handlooms in the co-operative sector has also been progressively rising. Out of the 28 lakh looms in the country, 12·99 lakhs were in the co-operative fold in April 1960 as against nine lakhs in April 1956 at the beginning of the Second Plan. In September 1953, when the Handloom Board initiated the programme for financing development schemes, the number of looms in the co-operatives was less than seven lakhs. There were over 10,414 weavers' co-operative societies with a total membership of about 11·97 lakh weavers at the end of March 1960.

Exports

More than 35 million yards of handloom cloth valued at about Rs. 5·23 crores were exported in 1958. Ceylon was the most important customer and imported about 14 million yards of Indian handloom piecegoods. Other major importers were Malaya, Nigeria, Singapore and Aden. The United Kingdom, Sudan, Ethiopia and Saudi Arabia also imported sizeable quantities of Indian handloom cloth.

During Jan.-July 1960, exports were of the order of Rs. 3 crores. During 1959 handloom fabrics worth nearly Rs. 6·6 crores were exported. The U.S.A. took 6·02 million yards during 1959 as against 0·63 million yards during the whole of 1958.

A Scheme for inspection and quality marking for handloom fabrics for export has been introduced. Incentives are given to exporters of handloom cloth in the form of licences for the import of coal-tar dyes, textile chemicals and cotton yarn on the basis of the exports effected by them. Exporters desirous of taking advantage of the incentive scheme have to get their fabrics inspected and quality marked in case these goods are considered for non-traditional markets.

Marketing

Marketing is a vital problem for the dispersed cottage sector of an industry facing competition from its organised and mechanised counterpart. The problem is rendered more complex in the case of the handloom industry because it depends on the organised mill industry for its chief raw material namely, yarn. Assistance for marketing is, therefore, being given from the Cess Fund and is intended for the introduction of sales promotion activities, the establishment of selling units and payment of subsidy on sales. Under the first category, schemes for publicity and propaganda, participation in exhibitions, quality control, award of prizes are being implemented.

Sales depots, inter-State sales depots, central depots and mobile vans have been established under the second category. By the end of March 1960, as many as 1,587 sales depots, 34 inter-State sales depots, 48 central depots and 38 mobile vans had been established to assist in the sales of handloom cloth.

As regards the subsidy, at present the rebate allowed is 5 nP. in the rupee on retail sales and 3 nP. in the rupee on wholesale sales. Under these schemes, a total expenditure of Rs. 11·79 crores had been incurred during the six years ending 1958–59.

From the Cess Fund, financial assistance is being provided for carrying out technical improvements in the handlcom industry and supplying improved looms and appliances to the weavers. Assistance is also given to weaver' co-operative societies for setting up their own dye-houses so that they may not have to depend on outside agencies for getting dyed yarn. Over 420 dye-houses have so far (Feb. 1960) been set up in the various States. In order to give an attractive finish to handloom cloth and increase the marketability, 9 calendering and finishing plants have also been set up.

Cotton yarn is the chief raw material for the handloom industry and the industry depends on the spinning and composite mills in the country for its supply of yarn. Under the Cess Fund schemes, assistance is given to the State Governments for their participation in the share capital structure of co-operative spinning mills. The bye-laws of the mills provide for all the yarn produced to be made available to weavers' co-operative societies. So far (Feb. 1960), assistance for the starting of 9 co-operative spinning mills to be located in the States of Andhra Pradesh, Bombay,* Bihar, Kerala, Madras, Mysore and Uttar Pradesh, has been given. Of these, three mills, one each in the States of Andhra Pradesh, Bombay* and Madras, have already started functioning (Feb. 1960).

The All India Handloom Board runs four Weavers' Service Centres, one each at Bombay, Madras, Banaras and Calcutta and a Sub-Unit at Kancheepuram. The functions of these centres are, broadly, two: preparing designs out of old designs in terms of tradition of a particular centre, and preparing new designs out of existing designs for which no tradition exists. A well planned dyeing and printing laboratory forms an essential part of each Designs Centre. Standardised methods of dyeing and printing are worked out and distributed to the industry. A reference library of books. Photographs, slides, yarn and textiles exists at the centres.

VILLAGE OIL

India is the second largest producer of oilseeds in the world and leads all other countries in respect of acreage under oilseeds.

Mills and ghanis are the two sectors in the oil industry in the country. According to one estimate included in the Report of the Oilseeds Crushing Industry Inquiry Committee (1956), the percentage of major oilseeds crushed in ghanis and those crushed in power mills is as follows :

Seed	Ghanis (per cent)	Mills (per cent)
Groundnut	20	80
Sesamum	83	17
Rape and Mustard ..	37	63
Linseed	30	70
Castor-seed	*	100

* (a small quantity is also crushed in ghanis)

According to the Report of the Indian Central Oilseeds Committee, there are over 7,500 oil mills in the country. The number of ghanis in the country was 446,000 in 1951 according to the Livestock Census (1951).

Although accurate information on employment in the organised sector is not available, it is estimated at 103,000 persons.

Ghanis, on the other hand, provide employment to a considerably larger number. On the assumption of one teli to a ghani, the number of persons engaged in the village oil industry would be 4·46 lakhs.

During 1959-60, the expenditure incurred by the Commission for the development of the industry amounted to Rs. 114·47 lakhs, thus bringing the total to Rs. 419·33 lakhs of which Rs. 132·53 lakhs constitute grants and Rs. 286·80 lakhs loans. Of this total expenditure, Rs. 31·00 lakhs only were expended during the First Five Year Plan period while the balance of Rs. 388·33 lakhs were disbursed during the Second Plan period (1956-60).

There were 3,778 agencies operating various schemes under the Commission's purview of which 3,391 were co-operative organisations including 7 district co-operative federations and 3 apex bodies at the State level. With a view to distributing the improved ghanis and train telis the Commission set up 62 Ghani Manufacturing Workshops and 132 Model Ghani Centres throughout the country. During the year the Commission was able to introduce 3,531 improved ghanis, thus bringing their total number to 12,031.

In the field of production there was considerable activity as the production of oil rose sharply from 3·85 lakh B. Mds. valued at Rs. 2·69 crores in 1957-58 and 8·71 lakh B. Mds. valued at Rs. 6·33 crores in 1958-59 to 13·06 lakh B. Mds. valued at Rs. 9·74 crores in 1959-60. As a result of this, oil-cake production has also gone up from 13·26 lakh B. Mds. valued at Rs. 1·56 crores in 1958-59 to 20·41 lakh B. Mds. valued at Rs. 2·37 crores in 1959-60.

As against 17,296 full-timers and 11,699 part-timers employed during 1958-59, 28,344 and 13,567 respectively were employed during 1959-60. During the year, 1,549 casual workers also found employment. Under its training programme the Commission trained 1,186 telis and 50 carpenters during 1959-60, thus bringing the total personnel trained so far to 3,086 and 339 respectively. Upto 1959-60, 293 instructors were also trained.

PROCESSING OF CEREALS AND PULSES

The Rice Milling Committee (1954) and the Village and Small-Scale Industries (Second Five-Year Plan) Committee (1956) have made recommendations regarding the development programme for this industry. In pursuance of the recommendations of the Rice Milling Committee, Government of India decided, in the year 1957, that licensing of all power driven rice mills should be introduced and a census of all such mills should be taken. They have further decided that no new mill should be allowed to be set up and no expansion of the existing capacity of the mills be permitted unless the State Government concerned is satisfied that it is necessary to do so for the purpose of ensuring adequate supplies and that, in such cases, the hand pounding industry is not affected. To ensure this, an Act was passed in May 1958 — The Rice Milling (Regulation) Act.

The Karve Committee recommended the imposition of an excise duty on the output of mills and the payment of a subsidy to hand-pounders to reduce the price differential between hand-processed and mill-processed rice. A subsidy of 37 nP. per B. Maund is paid on production through co-operative societies and registered, recognized institutions.

During 1959-60 the Commission laid emphasis more on stocking of paddy to enable the artisans obtain continuous employment for a longer period. Thus the disbursement during the year was considerably more, *i.e.* Rs. 77·28 lakhs, than that of previous year, *i.e.* Rs. 58·26 lakhs. The total expenditure incurred by the end of 1959-60 was Rs. 205·20 lakhs of which Rs. 44·24 lakhs formed grants and Rs. 160·96 lakhs loans. Of the total expenditure only Rs. 21·01 lakhs were spent during the First Paln period.

Each year more and more areas are covered and organisations formed to implement the development programme. Within the period of 2 years such institutions have more than doubled as there were 1,010 co-operatives and 258 registered societies at the end of 1959-60

* Bilingual.

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as against only 365 co-operatives and 202 registered societies in 1957-58. To enable the artisans obtain higher production of better rice the Commission has introduced 5,904 chakkis, 794 dhenkis and 554 winnowing fans. Under the Atta Chakki scheme the Commission introduced 71,074 ball-bearings and 19,676 chakkis of which 2,756 were emery stone chakkis.

Under the production activity the achievement was 13·94 lakh B. Mds. in 1959-60 as compared with 11·17 lakh B. Mds. in 1958-59. The number of persons employed also increased from 6,468 as full-timers and 7,362 part-timers in 1958-59 to 9,925 full-timers and 12,044 part-timers in 1959-60. During the year Central Training Centre at Nadiad trained 35 persons as compared to 28 only, in the previous year. In addition to this 58 persons were trained in various States.

BEE-KEEPING INDUSTRY

With a view to organising and developing collection of honey on scientific lines the Commission distributes bee-hives on a subsidised basis, finances rearing and distribution of bee-colonies, collection and marketing of honey, organises co-operative societies and trains apiarists, fieldmen, farmers and others in the art of bee-keeping.

Rs. 12·28 lakhs were disbursed in 1959-60, thus bringing the total expenditure to Rs. 53·33 lakhs of which Rs. 47·60 formed grants, the remaining being loans. Of the total, Rs. 9·35 lakhs were spent in the First Plan period. During the year 1959-60, 3 more Area Offices, 50 Sub-stations, and 10 Plantation apiaries were allotted. Therefore, at the end of the year total allotment was 45 Area Offices, 650 Sub-stations and 75 Plantation apiaries. In addition to this, 40 Model Apiaries, 65 Commercial apiaries and 137 Bee-clubs also were allotted. 125 schools were also financed to introduce bee-keeping for the benefit of school-pupils. There were 61 institutions in the country responsible for the implementation of the programme.

Upto the end of 1959-60, 98,747 Bee-hives were distributed. Under the programme 5·94 lakh lbs. of honey was collected in 1959-60 as against 5·31 lakh lbs. collected in 1958-59 and the whole of it was marketed. During the year 1959-60, 37,327 farmers were benefited as against 32,527 only in the previous year. During the year 38 fieldmen were trained; thus, over the period, 1,048 fieldmen and 38 apiarists received training.

HAND-MADE PAPER INDUSTRY

The per capita consumption of paper has been rapidly increasing with the spread of literacy. The expansion of the mill-made paper industry is limited due to several factors, viz., non-availability of raw materials in large quantities at one place, difficulties of importing heavy intricate machinery, pulp and chemicals, transport difficulties etc. The hand-made paper industry, as being developed by the Commission, aims at utilising easily available raw materials like fibres, old gunny bags, rags, straws, grasses, waste paper etc. The programme of development consists of assisting in the setting up of big, medium, small and school units.

During 1959-60, the Commission disbursed Rs. 23·48 lakhs for the development of hand-made paper industry, thus bringing the total disbursement to Rs. 83·51 lakhs of which Rs. 38·04 lakhs were grants and the remaining Rs. 45·47 lakhs loans. The expenditure during the First Plan period amounted to Rs. 12·34 lakhs only while the operation of the programme during the four year period (1956-60) of the Second Plan consumed Rs. 71·17 lakhs.

The financial disbursement to various types of units depends upon the capacity to produce paper. Upto the end of 1959-60, the Commission had allotted 13 Big, 68 Medium, and 116 Small units. In addition to this, 10 Home Units also have been allotted. In some States manufacture of hand-made paper has been recognised as one of the examination subjects. The Commission has been, therefore, allotting school production units, the total number of such units allotted upto the end of 1959-60 being 258.

The production of paper rose from Rs. 21·16 lakhs in 1958-59 to Rs. 23·58 lakhs in 1959-60. This was mainly due to the considerable progress registered by the units producing high grade papers which reached the highest level of Rs. 9·24 lakhs in 1959-60 from Rs. 6·35 lakhs in the previous year. The sales also have kept pace with production. In 1959-60, sales totalled Rs. 22·40 lakhs as against Rs. 20·72 lakhs in 1958-59. Although the employment figure has not shown any rise, as only 3,646 persons found employment in 1959-60 which is almost the same as in 1958-59, the earnings of artisans were higher, *i.e.* Rs. 12·45 lakhs in 1959-60 as aginst only Rs. 11·01 lakhs during 1958-59. In 1959-60, 172 persons were trained thus bringing the total number of persons trained so far to 576.

NON-EDIBLE OILS AND SOAP

India possesses large quantities of a wide variety of non-edible oilseeds, *e.g.*, neem, karanja, maroti, dupa, castor, undi, etc. The oils extracted from these seeds are highly valued as industrial oils. These resources in vegetable are largely wasted through non-utilisation. The Commission, therefore, formulated a scheme to exploit these resources for the creation of wealth.

During the year the Commission financed the programme to the tune of Rs. 23·49 lakhs, thus bringing the total expenditure to Rs. 180·43 lakhs of which Rs. 64·24 lakhs were grants and Rs. 116·19 lakhs loans. During the first Five Year Paln period Rs. 45·22 lakhs only were disbursed. As against this the development activities during the period of 4 years (1956-60) of the Second Plan consumed Rs. 48·85 lakhs as grants and Rs. 86·36 lakhs as loans.

The financial assistance extended to three types of NEO and SOAP production units *i.e.* "A", "B", and "C" units, depend upon their production capacity. With a view to informing and educating school children in the method of production of soap on cottage basis the Commission introduced "D" units and attached them to schools.

Since 1958-59 the Commission has been emphasising on the possibility of improving production of non-edible oils. To intensify efforts in this direction Oil Producing Units have been organised. At the end of 1959-60, the Commission had allotted 682 soap production units in addition to 43 oil crushing centres and 231 school units.

During the year efforts to collect non-edible oilseeds resulted in the collection of 41·47 lakh lbs. of seeds as against only 24·63 lakh lbs. during 1958-59. The activity in the production of soap also registered a considerable expansion; the value of soap produced in 1959-60 was Rs. 31·93 lakhs as against Rs. 20·19 lakhs in 1958-59, the quantities being 50·06 lakh lbs. and 34·29 lakh lbs. respectively. The Industry provided employment to 921 full-time workers and 5,969 part-time workers in 1959-60.

To ensure efficient working of the production units the Commission trained chemists and supervisors in its 9 training centres. By the end of 1959-60 there were 121 trained chemists and 1,058 other types of personnel.

PALM-GUR

In India, there are four varieties of sugar-yielding Palms—Date, Palmyra, Coconut and Sago. While the total number of tappable palms in the country, mostly Date and Palmyra, is estimated at over five crores, only about 60 lakh palms are being tapped for the manufacture of palm-gur.

The significance of the Palm-Gur Industry in India lies in the manufacture of gur and sugar from the sweet juice of palms, popularly known as *neera*; in providing seasonal employment on a large scale, and in its effects on subsidiary occupation as in the manufacture of products from palm leaf.

The Commission has established a Central Research-cum-Training Centre at Dahanu (Maharashtra). Research in the preservation of *neera*, better processing methods and improved implements is being carried on. A monthly journal "Tad-Gur Samachar" gives information about the industry and the results of research experiments.

For the development of the industry the Commission provided more funds during the year 1959-60, as against funds disbursed in the previous year, the figures being Rs. 38·10 lakhs and Rs. 21·21 lakhs respectively. The expenditure of Rs. 38·10 lakhs in 1959-60 included loans of Rs. 7·43 lakhs given by the Commission for the formation of the co-operative societies. The total expenditure for the period ending with 1959-60, therefore, works out to Rs. 130·37 lakhs of which Rs. 91·22 lakhs formed grants and Rs. 39·15 lakhs loans. This includes Rs. 14·10 lakhs expended during the First Plan period.

The emphasis being on the organisation of co-operatives their number has been showing steady progress from year to year. As against 2,626 primary co-operatives in 1957-58 and 2,716 in 1958-59 there were 2,843 co-operatives at the end of 1959-60. The membership has also shown improvement as there were 2,93,518 members at the end of 1959-60 as against 2,83,427 and 2,46,793 in 1958-59 and 1957-58 respectively. The co-operative societies of 11 States have formed their State level federations also.

During the year 1959-60, the Bharatiya Tad Gur Shilpa Bhavan trained 141 persons while in the States 1,638 persons received training. The scheme of training persons on large scale registered a progressive improvement in production activity. As against 18·92 lakh B. Mds. of Palm-gur manufactured in 1957-58 and 19·70 lakh B. Mds. in 1958-59, 21·07 lakh B. Mds. of Palm gur was produced in 1959-60. The employment position has shown marginal improvement as 3,06,120 persons were employed at the end of 1959-60 as against 2,98,234 in 1958-59.

CANE-GUR AND KHANDSARI

With a view to improving the quality of Gur, production of Khandsari and the efficiency of the farmers, the Commission has schemes to introduce improved equipment like crushers, centrifugals, pans, furnaces etc. The Commission also undertakes to train honorary workers and farmers in better methods of production with the help of improved equipment. The programme aims also at the organisation of co-operative societies to take up production and marketing of Gur and Khandsari and stocking and supplying of improved implements.

During 1959-60 the Commission financed the programme to the tune of Rs. 38·30 lakhs as against Rs. 26·45 lakhs in the previous year, bringing the total expenditure upto 1959-60 to Rs. 95·14 lakhs of which Rs. 45·14 lakhs were grants and Rs. 50 lakhs loans. Almost the whole of the expenditure on the industry was incurred during the Second Plan period (1959-60) as during the First Plan period the expenditure was negligible *i.e.* Rs. 90,000 only as against Rs. 94·24 lakhs during the Second Plan period.

At the end of 1959-60 there were 450 institutions implementing the schemes as against 271 only, the previous year. During the year 168 new co-operative societies were set up, thus bringing their total to 437. At the end of 1959-60 the Commission had distributed 4,466 cane crushers of which 319 were power-driven, the remaining being bullock-driven. 563 centrifugals, 5,361 pans and 7,083 other types of equipment were also introduced during the period ending 1959-60. To train the farmers to undertake manufacture of Gur and Khandsari on improved lines, 462 honorary workers were trained during the year, thus bringing the total of such persons trained to 2,417.

This effort to implement the development programme of Gur and Khandsari industry has resulted not only in improvement in quantity of Gur and Khandsari production and employment opportunities but has enabled the farmers to market their Gur at a rate higher by about Rs. 2 to Rs. 3 per B. maund.

The implementation of the development programme for Gur and Khandsari industry resulted in providing seasonal full-time employment to 1,07,952 persons and part-time employment to 30,780 persons in 1958-59.

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VILLAGE LEATHER INDUSTRY

The processing of hides and skins and the manufacture of leather goods are traditional village industries.

The cottage sector of the leather industry is responsible for the bulk of its production in the country and employed as many as 6·5 lakh persons.

The object of the development programme of the Commission for the industry is the planned recovery and full utilisation of the various by-products of carcasses of dead animals so as to minimise waste and provide large-scale employment. There is a vast livestock population consisting of over 21·2 crores big animals and 9·52 crores sheep and goats.

The programme consists of the establishment of flaying centres, village model tanneries, glue manufacturing centres, and bone crushing units. Besides, small and big marketing depots are also aided to enable the leather workers market their products as well as to supply them with raw materials including hides and skins. With a view to training the artisans in improved methods of production, the Commission assists financially the organisation of production-cum-training centres for both tanners as well as flayers.

To assist the Commission there is an Advisory Committee consisting of representatives of this industry and trade.

During 1959-60, Rs. 44·65 lakhs were disbursed for the development of the industry thus bringing the total disbursement during the four year period (1956-60) of the Second Plan to Rs. 133·75 lakhs of which Rs. 68·99 lakhs were grants and Rs. 64·76 lakhs loans. In addition to this, Rs. 31·79 lakhs were also disbursed during the First Plan period.

Upto the end of 1959-60, 663 flaying centres, 298 village model tanneries, 154 bone crushing units and 77 marketing depots were allotted. The Commission has also financed 16 training-cum-production centres for imparting practical and theoretical training of which 12 are for tanning and 4 for flaying and carcass recovery. The village chamars have no proper tanning facilities. The Commission, therefore, finances the construction of new and repairs of old pits. Financial assistance for the construction of 5,755 new pits and repairing of 6,187 old pits was given upto the end of 1959-60.

During the year 105 and 201 personnel were trained in the art of tanning and flaying respectively. So far the Commission has trained 199 personnel in the improved methods of tanning and 339 in flaying. The implementation of the development programme has resulted in a considerable activity in production. As against the production of goods valued at Rs. 10·38 lakhs in 1957-58 and Rs. 14·47 lakhs in 1958-59, the production in 1959-60 was valued at Rs. 26·62 lakhs. As a result of this, employment position also improved considerably. During 1959-60, 1,374 full-timers and 864 part-timers were employed as against 796 full-timers and 515 part-timers in the previous year.

COTTAGE MATCH INDUSTRY

The match industry in India is classified into A, B, C and D classes according to the size and production capacity of the manufacturing units.

The programme of the Commission consists in the promotion of the 'D' class, licensed to produce a maximum of 25 gross boxes per day and capable of employing about 40 persons each.

The development programme aims at the utilisation of the bamboo resources of the country for the manufacture of matches and the elimination of the use of matchwood and timber which are becoming scarcer and also denude the country of its forest wealth to the detriment of the nation.

The programme also provides for training, research and marketing schemes.

During the year 1959-60 the Commission wanted to concentrate mainly on consolidation work. As such no more production units were added to the original number of 416 'D' class units. It however expended Rs. 2·17 lakhs during the year on training, publicity and propaganda. Thus the total expenditure for the development of the industry was Rs. 55·71 lakhs of which Rs. 35·89 were expended during the Second Plan period (1959-60).

As a result of the Commission's intensified effort, the production of cottage match boxes rose from 9,691 gross boxes in 1958-59 to 24,284 gross boxes in 1959-60. During the year, 68 persons were trained bringing the total to 855 over the period ending with 1959-60.

VILLAGE POTTERY INDUSTRY

The Development programme for the industry is made up of schemes for the promotion of production of pottery goods of various types, marketing, research, central and regional training, organisation and promotion of co-operative societies, supply of improved equipment and improved furnaces.

During the year 1959-60 the Commission expended Rs. 34·20 lakhs as against Rs. 13·45 lakhs in 1958-59, thus bringing the total expenditure to Rs. 66·57 lakhs of which Rs. 26·03 lakhs form grants and Rs. 40·54 lakhs loans. At the end of 1959-60 the Commission had allotted 248 units under various schemes, the figure at the end of 1958-59 being 111 only.

The production activity for the pottery industry in 1959-60 registered a considerable rise, the value of goods produced being Rs. 17·57 lakhs as against Rs. 11·13 lakhs in 1958-59 and only Rs. 3·19 lakhs in 1957-58. Under the training programme the Central Institute trained 32 personnel while 5 regional training centres trained 224 personnel during 1959-60 thus bringing the total at the end of 1959-60 to 211 and 530 respectively.

INTENSIVE AREAS SCHEME AND MARKETING SCHEME

The Commission's Intensive Area Scheme was introduced by the former Board in 1954-55 in selected rural areas having a population of about 20,000 each. The Scheme is an experiment in village planning with a view to integrated development of the rural economy. It aims at planned production for local consumption, thereby creating conditions favourable for full employment.

For the implementation of the schemes in the areas, the Commission spent Rs. 54·05 lakhs during 1959-60, which was more by Rs. 4·80 lakhs than that of 1958-59. The expenditure during the four year period of the Second Plan (1956-60) was Rs. 177·32 lakhs as against Rs. 24·47 lakhs during the First Plan period; thus the total expenditure upto the end of 1959-60 amounted to Rs. 201·79 lakhs which includes Rs. 88·69 lakhs for Khadi and Rs. 42·76 lakhs for various village industries.

FIBRE INDUSTRY

With a view to utilizing various kinds of fibres like sisal, hemp, san-hemp, etc., which grow in abundance in villages, but remain mostly unprocessed, the Commission implements a development programme under which improved Charkhas are distributed, artisans are trained and model production centres are organised.

In 1959-60, Rs. 4·63 lakhs were disbursed thus bringing the total assistance under this scheme to Rs. 16·90 lakhs. At the end of 1959-60, 52 institutions throughout the country were operating various types of 421 centres of which 32 were model centres, 338 training-cum-production and 51 hessian fibre spinning centres. Upto the end of 1959-60, 1,644 charkhas were distributed and 164 instructors trained.

CARPENTRY AND BLACKSMITHY

The Commission has also been implementing development programme for the village carpentry and blacksmithy industry since 1957-58 and has disbursed so far Rs. 8·36 lakhs of which Rs. 7·48 lakhs account for the organization of training-cum-production centres.

NAYA MORH

Beginning with the Third Five-Year Plan the Khadi Commission has proposed to organize Khadi and village industries activities on new lines, popularly known as *Naya Morh*. The object of this 'New Line' is to bring about a balanced development of rural economy leading to the growth of agro-industrialism. During the Third Five-Year Plan period, the Commission has proposed to organize 3,000 new intensive areas, called *Gram Ekais*, each *Ekai* covering a population of 5,000. The programme will be worked out in co-ordination with the other agencies like the Community Development Blocks, Gram Panchayats, Panchayat Samitis and Zila Parishads. The programme is in addition to the continuation programme on lines hitherto followed.

The Third Plan Outline has allocated a sum of Rs. 89 crores for the development of Khadi and Village Industries.

HANDICRAFTS

(Also see articles on Cottage Industries and Small-Scale Industries).

The All-India Handicrafts Board* is the authority entrusted with the development of the handicrafts in India.

It was first constituted in November 1952. It was reconstituted in December 1954 then in August 1957 and again in August 1960.

It advises the Central Government, plans and executes development schemes through the State Governments, formulates and executes schemes of its own, helps in the promotion of sales, sees to technological improvement, quality control, research and training. It secures raw material, organizes co-operatives, arranges credit, and sees to housing of craftsmen and general welfare.

There is a Standing Committee of the Board and where necessary panels of experts are appointed.

The Board has set up a Central Handicrafts Marketing Committee with representatives of State Govts. and Managers of emporia. The Committee functions as an All-India promotional and coordinating agency.

The Board has been emphasising the need for voluntary introduction of quality control in important handicrafts of each State. The Board has set up a Technical Committee on Quality Control. It also keeps a liaison with the Indian Standards Institution and laboratories of the country.

Most of the State Govts. have undertaken schemes for quality marking of their handicrafts and also for conducting surveys of handicrafts in order to formulate specific programmes of development.

Under the Second Plan a sum of Rs. 9 crores was allotted for the promotion and development of handicraft industries (Rs. 6 crores States, Rs. 3 crores Central).

A sum of Rs. 8 crores has been provisionally provided for the development of handicrafts during the 3rd Five Year Plan.

An Indian Handicrafts Development Corporation† has been set up. This body organizes the production of handicrafts on a commercial basis specially to cater for orders from foreign markets. Surveys of foreign markets will be conducted and sales depots and selling agencies established.

The principal foreign markets are: Aden, Ceylon, British West Africa, Malaya, Saudi Arabia, the Sudan, Iraq. The U.S.A. is regarded as an important potential market.

* Headquarters in Bombay.

† Headquarters in New Delhi.

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Handicrafts worth about Rs. 3·6 crores were exported during the first half of 1959. A sizeable increase in exports during the second half of the year was expected on account of Christmas and other seasonal demands. During the whole of 1958, export earnings on account of handicrafts had amounted to Rs. 6·67 crores.

The Indian Handicrafts Development Corporation is helping manufacturers in procuring raw materials at reasonable prices. Information about the market trends and changing tastes in foreign countires is communicated to manufacturers.

The Corporation has made a beginning in developing the Far Eastern markets, in collaboration with the Handloom Fabrics Marketing Co-operative Society which has sales depots in several Asian and African countries. The trade centres set up by Government in foreign countries are also being made use of for export promotion of handicrafts. A choice variety of Indian handicrafts, of particular interest to Germany and Scandinavian countries, was exhibited at the trade centre in Frankfurt in 1959.

Handicraft Centres : The Corporation proposes to set up four regional centres in India and two abroad. These centres will be equipped with a complete range of representative samples of Indian handicrafts and will provide a ready guide for intending buyers.

A sample room has already been set up at the head office of the Corporation at Delhi.

A list of the major handicrafts is given below :

Textiles : Hand-printing and traditional dyeing of textiles, brocades, himroo, carpets and druggets, rugs, gabbas and namdas, embroidery (cotton, silk, wool and zari), lace and lace work including nakki and gota making, shawls.

Metalware : Silver and gold ware, bidri, filigree, brass and copper ware, bronze work.

Ceramics : Pottery and earthenware.

Ivory : Ivory carving.

Papier-mache : Papier-mache articles.

Woodwork : Wood-carving and inlay, lacquer work including *nirmal* work, decorative furniture.

Stone-work : Stone-carving including marble work and alabaster.

Toys : Dolls and toys other than mechanical toys.

Leather : Leather goods (artistic work).

Horn : Artistic articles.

Bone : Artistic articles.

Cane, Bamboo, etc. : Articles made of cane, bamboo, willow, straw and grass including mats and pithcraft.

Incense & Perfumery : Incense and perfumery of various types.

Flax and Fibre : Handicraft articles made of flax and fibre.

Bangles & Beads : Bangles and beads.

Musical Instruments : Musical instruments. The Sangita Vidyalaya in Madras gives training in music and the making of musical instruments.

Conch-shell and semi-precious stones : Articles made of conch-shell and semi-precious stones.

Miscellaneous : Miscellaneous traditional art objects such as Orissa, Mysore and Tanjore paintings, and handicraft products specially made for ceremonies, articles of worship and theatrical requisites such as costumes, masks, puppets, etc.

DEVELOPMENT

Steps taken to develop handicrafts include the establishment of design centres to revive ancient designs and create new ones and training centres to teach better techniques. Some of these are also production centres.

Mobile exhibitions are taken round the country and handicrafts weeks are held. There will be a handicrafts museum in New Delhi.

In the financial year 1958–59 the Government of India approved schemes to set up 58 centres for training in handicrafts. Grants totalling Rs. 7·52 lakhs were sanctioned for implementing 41 of these schemes.

Some of these centres are training-cum-production centres. A monthly stipend of Rs. 25 to Rs. 30 is provided. On completion of the training the trainees are encouraged to form co-operative societies with financial assistance from Government.

Design Centres

The Handicrafts Board has at its headquarters a design section which is primarily concerned with providing advisory service and practical assistance to the State centres. And there are design centres at Bombay, Calcutta, Delhi, Bangalore, Kothakola in Mahbubnagar District in Andhra Pradesh, Junagadh, Madras, Kancheepuram, Nizamabad in U.P., Banaras, Faridabad, Madurai, Kalahasti and so on.

The design movement has also received a marked impetus as a result of the National Design Competition organised by the Board. In the first year this was confined to three crafts : textiles, pottery, and toys of all types. In the second competition conducted in 1960 the crafts taken up were carpets, wood work and metalware. Cash prizes of Rs. 7,500 were awarded to the best entries. The Board also publishes a design album which includes the latest designs evolved in different handicrafts.

Craftsmen are also helped by the Board through Pilot and Development Centres which impart a training in economical and improved production methods, use of new raw materials, the production of new designs.

Over 1,000 new designs were evolved during 1960 of which almost 700 designs were supplied to the market.

Development of Co-operatives

The Board encourages formation of handicraft co-operatives and provides financial, technical and marketing facilities to them. Under financial assistance, the Board provides 75 per cent of the share capital and also 75 per cent of the working capital as loans at 2½ per cent interest payable in two years and ten years respectively. Besides, subsidy for supervisory staff for co-operatives is provided on 50 per cent basis. Rapid surveys of the working of co-operatives have been completed in Delhi, Jammu & Kashmir, Orissa, Madras, Andhra, Assam and Manipur. Survey studies in U.P., Bihar, Bombay** and Kerala have been entrusted to co-operative organisations there. Reports from Kerala and Bihar have been received.

In order to review and advise the Board on their programme for the development of handicraft co-operatives, the Board set up a Central Handicrafts Advisory Committee. State-level Co-operative Advisory Committees have also been set up in the States.

The Board is also starting a training programme for the co-operative organisers for which trainees from Government Departments and co-operative organisations are selected for training.

Survey of associations of artisans, dealers and exports has been completed by the Indian Co-operative Union on behalf of the Board. The recommendations on the survey have been circulated among the States for necessary action.

Credit Facilities

One of the main functions of the Board is to see that adequate credit facilities are made available to the handicrafts industries and trade at different stages of its production, storage, distribution and sales.

Apart from the financing of emporia, handicrafts co-operatives and State schemes in different States by the Board, the Reserve Bank of India has agreed to cover handicraft industries under their guarantee scheme of Small-Scale Industries against loans granted by commercial banks.

The Board is also contemplating a new scheme called Supervised Credit Scheme under which loans will be given to poor artisans along with technical advice and guidance without any security or little security and to recover the loans slowly from the sale proceeds of their products.

Considerable amount of Block Loans are also being placed at the disposal of State Governments for financing the handicrafts industries. The total disbursement of Block Loans during the three years from 1955–56 to 1957–58 from different States excepting Bombay**, West Bengal, Himachal Pradesh and Orissa amounted to over Rs. 32 lakhs.

State financial corporations have also financed the handicrafts industries to the tune of Rs. 4,90,000. The State Bank of India also finances some well organized handicraft industries under their Liberalised Loan Scheme.

The Handicrafts Development Corporation also finances the exporters, to a considerable extent in addition to other types of assistance offered. The total loan sanctioned upto 1959-60 amounted to about Rs. 8 lakhs.

State Schemes

The Govt. of India have made a provision of Rs. 45 lakhs as grant and Rs. 17 lakhs as loan for central assistance to State Govts. for the development of handicrafts for 1960-61.

Besides sponsoring schemes of its own the Board has helped State Governments to promote the following schemes.

Assam : Training in and production of fancy mats, sitalpati toys and dolls. *Andhra :* A training-cum-production centre at Hyderabad, the setting up of a co-operative society in Hyderabad by Bidri craftsmen, providing a common facility centre for nirmalware and himroo, a co-operative society for the manufacture of ivory and tortoise-shell articles and to another society for kalamkari work. Kondapalli Toy Makers Co-operative Purchases and Sales Society. *Bihar :* Setting up of a common facility production centre for bamboo products, a production centre for the manufacture of sikhi goods and mats, calico printing, training-cum-production centres for papier-mache goods, glass bangles and basket making. Training-cum-production centres for carpets, cloth dolls, decorative pottery and wood carving have also been sanctioned by the Board. *Bombay**:* A training-cum-production centre was started for the development of printing on cloth at Amreli and Surat. Financial assistance has also been given for the development of papier-mache industry and for the expansion of the existing handicrafts emporia in Bombay. *Kashmir :* Establishment of a design centre at Srinagar, export trade centres, for publicity and for the development of the shawl industry. *Kerala :* Training schemes for bamboo articles, mat and basket-making, dyeing and printing and lace and embroidery. *Madhya Pradesh :* A design-cum-production centre has been set up in Bhopal. *Madras :* Several training schemes for vegetable fibres, glass bangle making, lace and embroidery, dyeing and printing, art metalware, sculpture, papier-mache, carpets and druggets, etc.

Grants have also been given to develop artistic pottery and wool processing and for marketing of handicraft articles.

Mysore : Development of sandalwood carving, wood carving, mat and basket-making, soapstone industry and marketing of the numerous crafts of Mysore. *Orissa :* Establishment of an arts and crafts design centre at Cuttack. *Punjab :* A central organisation and design demonstration unit. A design and production centre located in Phulkari. Training schemes covering pashmina rugs, carpet weaving, chain stitch embroidery, ivory inlaying. *U.P. :* Ivory industry, chikan embroidery, pottery, brocades, brassware and marble inlay. *West Bengal :* Training schemes for the development of toy making and artistic pottery, the horn industry, durree making and stone and wood carving, and revival of the well-known craft of Jamdani sarees.

Assistance has been given to the States for setting up emporia for sale of handicrafts. At present (Dec. 1960) there are 125 emporia which sell handicrafts throughout the country. The total sale of these emporia has exceeded Rs. 2 crores.

** Bilingual.

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FILM INDUSTRY

THE shortage of raw film was the main difficulty during the year. In this connection the representatives of the film industry had a meeting with the Prime Minister.

Meanwhile negotiations for the manufacture of raw film within the country were complete and it is expected that sometime in 1962 Indian made films would be available for exposing and printing.

This unit would be put up in the public sector in Ooty in Madras State through collaboration with the French firm of Messrs. Ets Banchet. The cost of the equipment is estimated at Rs. 3·3 crores.

The limited stock that is available is being distributed by the industry itself.

Another source of difficulty was the excise duty ranging from 10 nP. to 50 nP. per metre levied on exposed films in the 1960-61 budget.

There were a large number of film festivals during the period under review—of imported films, Indian documentaries and children's films.

Exclusive shows of documentaries and newsreels have now become a regular feature in some of the large cities where special theatres for the purpose are available. A nominal entrance fee (from 25 to 50 nP. per head) is charged and Bombay, Calcutta and Delhi, have been arranging these shows throughout the year now. Similar arrangements are likely to be extended to other towns and cities.

Here are some of the institutions in the film industry:

Indian Motion Picture Producers' Association, Indian Motion Picture Distributors' Association, Indian Documentary Producers' Association, Film Federation of India, all with headquarters in Bombay.

There are now in the film industry associations of workers as well.

Among these are:

Film Journalists' Association, Cine-Costume and Make-up Artists' Association, Cine Musicians' Association, Character Artistes' Association, Western India Cinematographers' (Cameramen) Association, Cine Labs.' Association.

The Indian Motion Picture Producers' Association, Film Producers' Guild, Cine-Lab Association and others have formed a supreme Council of Film Producers. Steps are being taken to organise the industry and its various arms.

UNESCO has sponsored a study of Indian film heroes and Institute of Social Sciences, Agra, has undertaken in co-operation with a group of International scientists, the study for which $ 20,000 have been sanctioned in the first instance.

U.N. Asian Film Projects: ECAFE and 17 U.N. countries (13 of them Asian) are participating in a co-operative project to produce three films in Asia: *Malaya:* Work of ECAFE; *India:* Community Development Projects (Ezra Mir; Jagat Murari: Romesh Thapar); *Ceylon:* Agriculture.

UNIVERSITIES Film Council (with Mr. R. R. Diwakar as Chairman) has been established with the idea of making university students take intelligent interest in the films. It is proposed to have a society for each University which would arrange to show at least 16 films every year of outstanding and classical importance through the university societies.

The Raw Film Factory at Ootacamund with French collaboration is likely to go into production by the beginning of 1962. It will produce X-Ray films and photo papers also. Out of Rs. 7·7 crores as capital needed to start with, the National Industrial Development Corporation has agreed to advance Rs. 3·3 crores which is equivalent to the foreign exchange component of the project.

There are some institutions which were expected to start functioning in 1960. These are:

The Film Institute, has been set up at Poona for providing training in the technical aspects of film-making such as cinematography, sound engineering, editing, direction, art direction, make-up and costumes. The institute is located in the former Prabhat studios which have been acquired by the Government for the purpose. (*For a fuller note see under "Poona District"*).

The Department of Technical Education, Madras, has started a film institute in Madras for training technicians.

Production Code Bureau, "White House," 91, Walkeshwar Road, Bombay 6: This will frame a self-imposed code of what is legitimate and what is not legitimate for use in films.

Film Finance Corporation, This will have an initial capital of between Rs. 20 and Rs. 25 lakhs.

Children's Film Society: This was started in 1955. Its object is to undertake, aid, sponsor, films of special interest to children. It has its headquarters in Delhi and has branches in some States. It has set up a National Centre of Entertainment Films for Children and Adolescents which is affiliated to the International Centre set up by UNESCO in Brussels.

In 1960 the Society made two feature films "Meera Ka Chitra" and "Dilli Ki Kahani" and three short films "Idd Mubarak" (originally called "Idgah"), "Hero" and "Chetak". The Society has also made various versions of its films "Guru Bhakti", "Panchtantra Ki Ek Kahani", "Ekta" and "Saral Biswas" in 12 languages. It has taken in hand two feature films "Savitri" and "Bapu Ne Kaha Tha".

Besides the private producers, the Films Division of the Government of India produces newsreels and documentaries.

A very important body is the Central Board of Film Censors which is located in Bombay.

Among the annual features of the film world are the various festivals of Indian or foreign films and the awards for outstanding achievement in various departments of film production. There are two main awards one by the Government of India and the other by the *Times of India* (called Claire award).

FILMS DIVISION

The Films Division produces documentaries and newsreels. About 110 documentaries are produced every year. Documentaries are also produced by private agencies and some of the foreign missions in India.

The Films Division's documentaries are produced in 13 languages: English, Hindi, Bengali, Tamil, Telugu, Gujarati, Punjabi, Assamese, Kannada, Kashmiri, Oriya, Marathi and Malayalam.

The newsreels are produced in five languages: English, Hindi, Bengali, Tamil and Telugu.

The documentaries and newsreels are made both in 35 mm and 16 mm. The former are usually 1,000 feet long and the latter 400.

The Films Division also buys documentaries from private producers and State Governments.

Every cinema is required under the terms of its licence to exhibit at each show not more than 2,000 feet of film approved by the authorities specified in the licence. One newsreel or alternatively one documentary is released every week to all the cinema houses.

To non-profit making and charitable institutions such as schools, hospitals films are supplied free.

Films that are suitable for foreign exhibition are supplied to Indian missions abroad. A monthly overseas edition of newsreels is also sent out to certain places. They are also marketed abroad on a commercial basis. Besides, there are arrangements for televising them with certain foreign countries—England, Canada and Japan. The films also help to promote tourism as they are regularly exhibited through the Tourist Division of the Ministry of Transport.

Indian documentaries and newsreels are now regularly shown in Nepalese cinemas. They are supplied free of cost.

The Films Division produced in 1960 72 films and released on commercial circuit 55 documentaries.

In March 1960, 108 films were under production and 33 with approved producers on contract.

Films produced by private producers for the Films Division was 15 in 1960. Three documentaries were acquired from State Governments or others for exhibition through the Films Division Circuit.

Number of prints of films sold for non-commercial exhibition was 2,010.

During 1959-60 the Films Division participated in 32 international film festivals and won seven awards. During April-Dec. 1960 the Films Division participated in 14 international film festivals held in various parts of the world and 28 films were entered. Five awards were won: "Taj Mahal" (Golden Eagle as the best documentary in the Afro-Asian Festival, Cairo); "Holiday in South India" and "Periyar" (Diploma of Honour, International Film Festival, Locarno, Switzerland); "Spring Comes to Kashmir" (Diploma by Jury of the International Competition for Sports Motion Pictures, Cortino D'Ampezzo, Italy, and Certificate of Merit, International Festival of Short Films, Buenos Aires (Argentina); "Radha and Krishna" (Second award in the Creative Art Class, 6th Biennial International Documentary Film Festival, Yorkton (Canada). The documentaries "Kathakali", Mayurakshi Dam" and "Banyan Deer" won Certificates of Merit in the State Awards. "Heera Moti" and "Veerapandiya Kattabomman", feature films from the private sector won awards at Karlovy Vary and Cairo respectively. "Apur Sansar" was adjudged as the best foreign film of the year 1960 by the National Board of Review of Motion Pictures, U.S.A.

Documentaries

Among the films released by the Films Division in 1959 were two biographical documentaries: one on Dr. D. K. Karve and the other on the late Sir J. C. Bose. Four reels were devoted to steel industry in the public sector, Rourkela and Bhilai plants while Bhakra-Nangal and Koyna projects were covered in two more reels each. Twelve documentary films were in fact produced on power projects and 15 were under production (Nov. 1959). The geography of India is sought to be conveyed in films. As a beginning, six reels on the Indo-Gangetic plain, covering vegetation and wild life, agriculture and city life, two reels for each topic, were prepared but they were not released. In the same way three reels describing the climate of India are also awaiting release (Feb. 1960).

Konarak and Ujjain are two historical and archaeological subjects treated early in 1960 while 16 mm (colour) films—three reels each, on Jaipur and Sanchi, were kept ready.

Taj Mahal and the People of Naga Hills are other documentaries in colour which were released.

For record, only eight reels in colour, depicting the tour of the King of Nepal, and nine reels in black and white on similar topical subjects were prepared.

The *Call of the Mountains* is a two-reeler documentary on the school of mountaineering in Darjeeling.

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The Films Section of the Gandhi Memorial Fund has delegated all its work to the Films Division, for better results and more efficient distribution.

A full length documentary film on the biography of Mahatma Gandhi is under compilation as the repository of the Fund contains copies and originals of many shots relating to Gandhiji's activities, collected from all over the world. Shorter documentaries of individual aspects of Gandhiji's activites are also planned from the material available. The Fund had secured the services of a British expert; but ultimately it was decided to get the work done through the Films Division. The Ministry of Information is already committed to the publication of the complete works of Mahatma Gandhi and work on the films would also logically belong to the same Ministry.

New Production

Three biographical documentaries "Vinoba Bhawe", "Gurudev Tagore" and "Acharya P. C. Ray" have been produced and released. Six films are to be produced on the removal of untouchability while one for family planning propaganda is nearly completed. More and more colour, now being processed in the country, is being used for films by the Films Division. Full length documentary on the land and the people of India, Festivals of India, Himalayas, and Khedda operations, are all planned to be in colour.

Documentaries for record made during 1960 (Jan.-Dec.) were 72 (122 reels). From Jan.-March 1961, the Films Division was expected to complete about 48 films.

The revenue and expenditure are as follows:

Year	'000 Rs.	
	Revenue	Expenditure
1951–52	25,00	31,00
1952–53	33,00*	37,77
1953–54	34,00*	43,00
1954–55	33,00*	47,40
1955–56	37,00*	67,87
1956–57	40,00*	81,02
1957–58	43,90	71,00
1958–59	33,72	75,00
1959–60	49,98	91,00
1960–61	50,82	89,06

* The figure includes other revenue by sale of prints and surplus material and rentals.

The figures down to 1956-57 are revised estimates, and the figure for 1957-58 is the budget estimate.

News-reels

For obtaining a country-wide coverage, Films Division has stationed 15 cameramen in all the state capitals and for international coverage it has exchange arrangements with 22 news-reel producers from abroad. A wide distribution of Indian news items is thus secured on television also. State-governments who have their own "news-reel" units for their own distribution arrangement occasionally supply material to the Union news-reels.

Like documentaries, news-reels also are being dubbed in 12 Indian languages as from the beginning of 1960, for obtaining more intensive penetration.

Except for 153 cinemas in Andhra Pradesh and one in Rajasthan which have obtained stay orders from the High Courts against statutory direction for the exhibition of approved films, all cinemas in the country use either the documentaries or the newsreels for their shows.

For the compulsory showing of approved films, the Films Division levies rental on cinemas at the following rate:

(*i*) From cinemas where the gross weekly collections are less than Rs. 500 @ Rs. 2½ per film per week;

(*ii*) From cinemas where the weekly gross collections excluding entertainment tax are Rs. 500 or more, 1 per cent of the collections per film per week.

Regular shows of documentaries and news-reels are arranged at the small theatre auditorium of the Films Division, Janapath, New Delhi, and Tarabai Hall, Marine Drive, Bombay, at the nominal charge of 25 nP. per head per show.

Similar shows are being introduced in other cities as well as they will help make audiences documentary-minded.

Films dealing with Plan activities, are supplied to State Governments, social education units, railways, exhibition directorate, information centres and so on.

AWARDS

(See also under 'Prizes and Awards' under 'Late Particulars')

There were 59 feature films, 27 documentaries and 11 children's films in the competition for awards during 1959, an all time record so far in all categories. Language distribution: Bengali 15, Hindi 10, Tamil 8, Telugu 8. Six educational films applied for being considered.

The President's Gold Medal carries with it a cash award of Rs. 25,000 (Rs. 20,000 for the producer and Rs. 5,000 for the director) has a cash prize of Rs. 12,500 (Rs. 10,000 for the producer and Rs. 2,500 for the director). For the All-India Certificate of Merit for documentary, there is a cash prize of Rs. 2,500 (Rs. 2,000 to the producer and Rs. 500 to the director). The cash awards are mostly in National Plan Savings Certificates and Treasury Savings Deposit Certificates.

The President's awards for the films of 1959 are given in the 1960-61 edition of the Directory in the article "Awards and Prizes".

There are regional committees in Madras, Bombay and Calcutta which make a preliminary selection in the matter of feature films. These committees consist of persons who are qualified to judge. The final selection is made by the Government. In the matter of documentaries educational films and children's films the selection is made solely by the Government.

The Chairman of the Central Committee which makes the final selection in the matter of feature films is Dr. K. B. Barucha. The Chairman of the Bombay, Calcutta and Madras Regional Committees are Mr. C. B. Nagarkar, Prof. N. K. Sidhanta and Mr. M. Satyanarayana, M.P. respectively. The Chairman of the Documentary and Educational Committees is Mr. Krishna Kriplani and that of the Children's Films Committee is Smt. Lakshmi Majumdar.

The Claire awards are given on the basis of a readers' poll. The awards for 1959 are given in the 1960-61 edition of the Directory in the article "Awards and Prizes".

CENTRAL BOARD OF FILM CENSORS

The Board was constituted in 1951 for certification of films. Most of the censoring of important films is now concentrated in Bombay where the Board is located. This was done to secure uniformity. New censorship rules were introduced in 1958, replacing the ones that had been put in force in 1953. The period of validity of a certificate is now 10 years as against five years under the old rules.

The Board has seven members including the Chairman, all of whom are appointed by the Government of India. There are regional offices in Bombay, Calcutta and Madras. The Regional Officers are assisted by Advisory Panels appointed by the Government. The Panels consist of educationists, doctors, social workers, lawyers.

Every film is scrutinized by the Examining Committee. And a certificate is given or refused, or given with cuts or modifications. There is an appeal to a Revising Committee presided over by the Chairman. There is also a final appeal from the decision of the Board to the Government of India.

Certificates could be for unrestricted exhibition in which case they are marked U (Universal). Or they could be restricted to persons above the age of 18 in which case they are marked A (Adults).

Broadly speaking, the Censors see that there is no encouragement to vice, crime or that there is no offence against decency or morality, or that they do not promote disrespect for law and order or to a foreign country or people.

The Board examined during 1960, 2,876 films (including features, shorts and trailers) of which 959 were Indian.

In all 1,529 imported films and 946 Indian films were given U certificates, meaning that these were suited for universal exhibition. The other class of certificate *viz.*, A (for Adults only) was given to 7 Indian and 93 foreign films.

Forty-three feature films were refused certificates: 6 Indian and 37 imported.

Of 64 films considered for re-certifying two were given 'A' certificate.

The total footage cut during the year was 78,001.

Feature films in India have shown an increasing tendency to turn to crime for their themes. It was found, for example, that in 1954 only four crime films were produced out of a total of 273, in 1959 the number had risen to 29. From 11 in 1956 the number rose to 20 in 1957 and 28 in 1958.

Next in importance is fantasy which has shown high and low figures—alternately, from 49 in 1956 to 23, 45 and 36 during the succeeding years respectively. Mythologicals have suffered a slight set back, from 37 in 1956 to 32 in 1959, with 39 and 37 for the intervening years. Stunt and adventure as themes have cropped up during 1959, contributing as many as 16 films together under this category.

A thematic classification is as follows: The figures given are for the four years 1956, 1957 1958 and 1959:

Social: 160, 170, 150, 175, Crime: 11, 20, 28, 29; Fantasy; 49, 23, 45, 36; Historical: 4, 7, 5, 8; Mythological: 37, 39, 37, 32; Stunt and adventure: —, —, —, 16.

16 MM. FILMS

The use of the 16 mm. film for propaganda and publicity is realised by Governments, municipalities, and trade and industry.

The Union Government maintains for the Five Year Plan publicity 62 units (61 vans; one boat), which are equipped with 16 mm. projectors.

These gave 19,566 film shows during 1960.

The Community Development Projects and the National Extension Service Blocks seem to be using the films as a regular part of their work. Obviously there is a considerable number of projectors in use throughout the country.

Many industrial houses maintain a regular stock of films for non-commercial use.

There are in addition 16 mm. libraries and small theatres for films suitable for non-theatrical audiences maintained by the British Information Services, the British Council and the U.S. Information Services through their regional offices.

In the Defence Forces, 16 mm. films have been extensively used for training and entertainment. There are Inspectors of Visual Education under Directors of Education in the States who do valuable service by using 16 mm. projectors and film strips.

One of the biggest single 16 mm. libraries of films in States is maintained by the Inspector of Visual Education in Bombay who makes the films available regularly to schools under him.

The Ministry of Education in Delhi has an extensive library of 16 mm. educational films.

Most of the diplomatic missions and embassies in the Capital and Consulates in Bombay, Madras and Calcutta maintain a film section and arrange shows of special films.

The U.K. and U.S.A. representatives and the British Council maintain a special library of educational and informative films. These are available for exhibition free of charge.

Many international friendship societies too have libraries of 16 mm films. Notable among these are the Indo-Soviet Cultural Society and the Indo-Czech Cultural Society.

In fact 16 mm films on a variety of subjects are available from many countries in the world.

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EXPORT, IMPORT

The Film industry earns about Rs. two crores through export of films outside India. Excluding those in Pakistan, there are about 2,500 theatres available for the showing of Indian films in about 60 foreign countries where Indians live in some concentration and where Indian films are welcomed by the residents of the region.

The main export market for Indian films at present is Pakistan; but Indian exporters are put to considerable difficulty.

The Government of India have taken a number of steps for the promotion of export of Indian films abroad.

Our missions abroad have been addressed for information about the marketability of Indian films; selected Indian films are exhibited by our missions abroad on a non-commercial basis; instructions have been issued to these missions to look for honorary correspondents to report on the reception of Indian films in their respective territories; agreements have been concluded with some Indian and foreign concerns for the commercial distribution of Films Division's documentaries abroad.

India participates in important international film festivals from time to time by entering films and sending delegations where necessary.

Festivals of Indian films are organised in foreign countries when practicable. Selected films are also screened at exhibitions and trade fairs organised or participated in by India abroad. A souvenir on the film industry is under preparation (Dec. 1960). It will be distributed through our missions and at international film festivals.

Arrangements are being made for the supply of articles through the trade missions for publication in foreign journals dealing with different aspects of our film industry. There is an exchange of films which is made in accordance with trade and cultural agreements concluded with foreign countries.

Import licences have been given to the film industry for putting up machinery for subtitling of films. Licence is given to the exporters for the import or release of raw film for export prints under the Export Promotion Scheme. Exporters are allowed to import raw films equal to 2 per cent of the F.O.B. value of export of feature films.

The foreign exchange earned by export of Indian films in 1959 amounted to Rs. 153,79,000 and for the first nine months of 1960 to Rs. 107·80 lakhs.

Export earnings from Indian films: 1954 *to* 1959: 1954: Rs. 97,13,000; 1955: Rs. 111,39,000; 1956: Rs. 129,22,000; 1957: Rs. 128,17,000; 1958: Rs. 113,09,000; 1959: Rs. 153,79,000.

Single large importers—1959: Ceylon Rs. 29 lakhs; Malaya Rs. 28 lakhs; British East Africa Rs. 17 lakhs; Burma Rs. 15 lakhs; Persian Gulf Ports Rs. 11 lakhs.

While imports of foreign films are mostly on rental basis, exports of Indian films are both on rental and outright sale basis. The actual amount of remittance on rentals made on such films from April 1959 to December 1960 amounted to Rs. 51·7 lakhs.

Apart from traditional importers of Indian films like Ceylon and Singapore, other countries importing films from India now include U.K., U.S.S.R., France, U.S.A. and Canada.

Imports of exposed cinematograph films have been fairly heavy. Until 1936-37 imports remained below 10·8 million feet, touched the peak at 26 million feet in 1938-39 and dropped to 6·9 million feet in 1942-43 owing to wartime conditions. In the post-war period imports recovered to 16·2 million in 1945-46 and thereafter have fluctuated between 17 million feet and 12 million feet.

Under the import control regulations, import of foreign films is subject to a monetary ceiling and distributors are authorised to remit up to 70 per cent. of the gross revenue.

CINEMATOGRAPH ACT

The regulations of films for exhibition and of the cinemas take place under the Indian Cinematograph Act. The power of certifying films was until the amendment of the Act in 1949 vested in the State Governments. Since production was concentrated in the three States of Bombay (Bilingual), Bengal and Madras and imports also mainly took place through the three ports in those States, the first examination of films for certification was done mainly by the Boards at Bombay, Calcutta and Madras. The Act as amended in 1949 made a distinction between films considered suitable for exhibition to adults only and those suitable for general exhibition.

A Bill was passed in 1952 to amend the Act with a view to removing certain defects noticed in the course of actual administration. Under the original Act responsibility for deciding whether a film is or is not suitable for public exhibition was entrusted to the Central Board of Film Censors; but powers are vested in the Central Government to declare that any film already certified as uncertified and notice has to be given to the person who has been granted certificate to show cause why the film should not be uncertified. This delay is sought to be avoided by the amendment. Provision is also made in the amended Act making it obligatory on persons delivering a certified film to a distributor or exhibitor to transmit information and documents relating to the certificate which would enable punishment of the exhibitor if he shows the film with portions cut out by the Board before certification. The difficulties encountered in proceedings against persons for interpolation and exhibition of unauthorised scenes in certified films are sought to be countered. Enhancement of the penalty has also been suggested.

The Censorship Rules as amended provide for a deposit of a 35 mm. or 16 mm. version of the certified film or its shooting script as a condition precedent to the issue of a certificate. Such a certificate is valid for ten years from the date of issue and old films once censored have to be recensored if the previous certificate has been in effect for five years or more.

PRODUCTION OF FEATURE FILMS

Year	1957	1958	1959	1960
Hindi ..	115	116	121	121
Bengali ..	54	45	38	38
Tamil ..	44	61	78	63
Telugu ..	36	36	46	54
Marathi ..	14	16	10	15
Kanarese ..	14	11	5	12
Malayalam..	7	4	3	6
Others ..	8	6	9	15
Total ..	292	295	310	324

PRODUCTION OF FILMS

The total number of Indian feature films produced from 1931 to 1956 was 4,909. A language-wise break-up is as follows:

Hindi 2,712; Tamil 666; Bengali 656; Telug 302; Marathi 265; Gujarati 92; Kannada 72 Malayalam 2; Punjabi 44; Assamese 13 English 12; Oriya 8; Persian 6; Arabic 2 Others 7.

The total number of Indian film producers from 1931 to 1956 was 2,244. Of these 1,580 were single picture producers. The language break-up is as follows:

Hindi 1,040 (708); Tamil 334 (228); Bengali 322 (230); Telugu 187 (139); Marathi 143 (99); Gujarati 60 (49); Kannada 50 (40); Malayalam 35 (27); Others 73 (60).

Below we give figures to show the production and release of documentaries:

Year	Production		
	Films Div.	Others	Released
1953–54 ..	35	8	43
1954–55 ..	33	6	39
1955–56 ..	55* (125 reels)	14 (20 reels)	67 (142)
1956–57 ..	48* (94 reels)	13 (32 reels) 7 (9 reels)†	69 (136)
1957-58 ..	50(102) 3(4)	11(20) 6(7)†	70(133)
1958-59 ..	83 (157 reels)	20 (50 reels)	52
1960 ..	72 (122 reels)	15 (24 reels)	55 (68)

* Most of these films have more than one reel per title.

† These were obtained from the State Governments for release through the Films Division circuit.

Note: Not all the documentaries produced are released in the same year. The number of releases therefore is not a total of the first two figures.

Films production 1956, '57, '58, '59: (By centres): Bombay: 135, 128, 127, 122; Calcutta: 59, 57, 48, 45; Madras: 102 108, 118, 136.

CINEMAS IN INDIA AND THE "CIRCUITS" (1951)*

Circuit	Places	Permanent Cinemas
1. Bombay ..	301	619
2. Central ..	272	501
3. North ..	162	385
4. Bengal ..	259	504
5. South ..	493	924
Total ..	1,487	2,933

* In 1960, there were 4,315 cinemas in the circuit of the Films Division, and in the country 4,360.

IMPORT OF FILMS

	Raw Films		Exposed Films	
	Footage (m. feet).	Value (Rs. in lakhs).	Footage (m. feet).	Value (Rs. in lakhs).
1949–50	178·75	95	14·63	38·18
1950–51	208·54	126	14·54	35·79
1951–52	198·17	136	10·60	28·01
1952–53	247·94	166	12·65	39·49
1953–54	207·45	155	10·85	30·39
1954–55	204·12	151	8·64	22·79
1955–56	300·96	222	12·12	35·10
1956 (Calendar Year) ..	262·70	196	15·03	40·37
1957	271·31	205	16·88	45·00
1958 (upto Nov.)	200·46	157	10·08	28·00

IMPORT OF EQUIPMENT

(Rs. in lakhs).

	1953–54	1954–55	1955–56	1956 (Calendar)	1957 (Calendar)	1958 upto Nov.
Cinema projecting apparatus, etc...	21·51	20·19	43·25	65·07	56·39	32·63
Sound recording apparatus, etc.	7·50	4·57	7·46	13·91	13·10	5·40

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GLASS INDUSTRY

THE glass industry is regarded as a key industry.

The more commonly used raw materials are: sand, borax, soda ash and salt cake, dolomite, lime or limestone, salt petre and sulphur, manganese dioxide and colouring materials. Though supplies of sand are in plenty, its quality is not uniform. Nearly all the glass factories of northern India and West Bengal obtain their requirements of sand from the Allahabad district. Subsequent to the Tariff Board's inquiry in 1932, little progress has been made in the installation of grading and washing equipment for sand. Borax is mostly obtained from abroad, while soda ash is received from indigenous manufacturers and importers. Sufficient quantities of lime or limestone are available. Coal is the commonest fuel. The bulk of refractories is obtained from indigenous sources. The demand for refractories by the glass industry is estimated at about 10,000 tons per year.

The industry comprises the manufacture of sheet glass, blown and pressedware and bangles.

Government protection to the sheet glass section granted in 1950 has been further extended for two years upto the end of 1962. The rate of protective duty fixed at 45 per cent *ad valorem* in 1950, but raised to 70 per cent in January 1955, will continue to prevail till the end of December 1962.

The number of registered glass factories in 1959 was 123 with an aggregate capacity of 392,284 tons per year; the capacity excludes an annual output of 35,000 tons, for the bangle industry which is mainly centred at Faridabad. The total capital invested in these 121 units is about Rs. 12 crores with a labour strength of 25,000 (excluding those engaged in the cottage industry) and an annual turn-over of nearly Rs. 16 to 18 crores.

Two factories for the manufacture of sheet glass are being set up, one at Tiruvottiyur and the other at Sembium in Madras State with an initial investment of about Rs. 50 lakhs each, with Belgian collaboration. For the first time in India, the factory at Sembium would adopt the "Pittsburg process" for the manufacture of sheet glass, which, according to the technologists, produces better quality glass.

A scheme was approved by the Central Government to set up one unit at Bombay and another was given approval to expand its producing capacity at West Bengal for the production of laboratory ware and scientific glassware during the year. The total capacity approved was 16,800 tons per month.

Messrs. Technoexport of the U.S.S.R. submitted their project report for the optical and ophthalmic glass project to be located at Durgapur in West Bengal, to the Ministry of Commerce and Industry in July 1959.

(*For more details see article on Government Industrial Undertakings.*)

The manufacture of bangles was undertaken by about 100 units, mostly established on a cottage industry basis and localised in the Ferozabad district in Uttar Pradesh and Belgaum district in Mysore. The rated capacity of these factories is placed at 35,000 tons.

The manufacture of quality glass tablewares, bulbs, 'reshami' and 'nylon' bangles and other brilliantly coloured glass products will receive a big fillip in the country with the proposed full scale supplies from Uttar Pradesh of iron-free silica sand, the basic raw material for glass. Seven more sand washing plants are being set up by the U.P. Government to cope with the heavy demand for the refined silica. Five of these new plants will be set up in the public sector at Shankargarh in district Allahabad to increase the capacity of the existing Government sand-washing centre from 20 tons to 200 tons per day—one plant to be kept as a standby. The other two, in the private sector, will be located at Loghra (Allahabad) and Bargarh in district Banda. The last unit was scheduled to start functioning by the end of 1960-61.

Besides, penicillin vials, sheet glass of sizes less than 16 oz. and over 32 oz., glass tubing by automatic drawing, narrow-mouth thermos flasks and decorated aerated water bottles are some of the items newly manufactured in the country during the First Plan.

The new items produced during 1960 are coloured sheet glass, safety glass for automobiles, aeroplanes, etc., glass wool and fibre, glass syringes, synthetic stores and glass chatons.

OUTPUT

Actual output and consumption of glass and glassware is shown by the following table:

	1959	Jan.-July 1960	Installed Capacity 1959	Domestic consumption end of 2nd Plan
Bottles and Phials (tons)	93,002	—	210,918	90,000
Sheet Glass (million sq. ft.)	88·00	43·49	106·60	64
Laboratory Glass (tons)	5,120	2,693	6,744	..
Glass Shells for electric lamps (lakh pieces)	370	242	274	..
Table & Pressedware (tons)	36,000	—	64,626	35,000
Lampware (tons)	20,000	—	34,700	18,000
Thermos Flasks (dozens)	121,000	67,500	297,300	100,000
Miscellaneous glassware (tons)	5,850	99,461	21,386	12,000
Scientific glassware (tons)	—	—	—	6,000
Sheets for lamps (million pieces) ..	—	—	—	55
Safety glass (million sq. ft.)	—	—	—	1·25
Optical glass including ophthalmic glass (tons)	—	—	—	250

The annual demand for glass and glassware was about 200,000 tons in 1960-61. By that period, the installed capacity of the industry had been raised to 423,421 tons per annum. It is estimated that the capital requirements of the glass industry inclusive of replacements and modernisation amounted to about Rs. 3 crores during the Second Plan period. The industry in the organised sector is said to have employed over 30,000 persons in 1960-61, as against 18,500 persons in 1955-56.

It was expected that at the end of the Second Plan, exports and imports would balance each other at about Rs. 50 lakhs per annum. The Government have during the past few years been helping the industry in a number of ways; they have granted rebate of duty on heavy soda ash, provided technical help, set up a Central Glass and Ceramic Research Institute and the National Instruments Factory. The Central Glass and Ceramics Research Institute produces optical glass of quality comparable with the imported product by utilizing indigenous raw materials.

Imports and exports are as follows:

(Rupees in lakhs)

—	1956	1957	1958	1959	April-Sept. 1960
Imports	148·82	167·75	58·29	74·05	65·69
Exports	25·76	22·65	20·30	24·73	11·99

The table below summarises the development programme of the glass industry (excluding bangles) in the Second and Third Five Year Plans:

(In '000 tons)

	1950-51 Production	1955-56 Production	1960-61		Targets for 1965-66	
			Estimated Capacity	Estimated Production	Capacity	Production
Glass and glassware (includes ophthalmic glass)	92·0	125	457	240	615	440

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HIDES, SKINS AND LEATHER

INDIA possesses abundant resources of raw hides and skins, fully adequate to meet the requirements of the domestic tanning industry leaving a sizable surplus which is exported abroad. On an average, India exports every year about Rs. 20 crores worth of raw skins, tanned or dressed hides and skins, and unwrought leather. It is estimated that normally it produces 16·2 million cow hides, 5·5 million buffalo hides, 23·2 million goat and 15·1 million sheep skins a year. Only a portion of the cattle and buffalo hides is obtained from slaughtered animals and the bulk, about 75 to 80 per cent. is derived from animals that die a natural death.

The bulk of the production is carried on in small towns and villages.

The tanning industry comprises four sections, *viz.*, 1. organised tanneries producing finished vegetable tanned buffalo leather and chrome tanned upper leather; 2. tanneries producing vegetable tanned leather known to the trade as E. I. kips and E. I. tanned skins; 3. small-scale chrome tanneries producing chrome tanned upper leather; and 4. village tanneries producing vegetable tanned cow and buffalo leather and vegetable tanned leather from goat and sheep skins.

The number of factories and annual rated capacity in 1959 of each of these sections was as follows :—

—	Number of factories.	Capacity in million.
1.	45 (13 produce chrome)	4·44 (hides for vegetable tanning) 1·58 (hides for chrome tanning)
2.	500	16–17 (tanned hides) 24 (goat and sheep skins for vegetable tanning)
3.	250	3 (hides)
4.	..	8 to 9 (raw hides) 3 to 4 (raw goat and sheep skins)

The few big tanneries are in Madras, Kanpur, Calcutta and Bombay.

Only about 75 tanneries employ more than 50 workers each.

PRODUCTION

The following is the trend of production :—

Year.	Chrome and tanned hides.	Vegetable tanned buffalo and cow hides (in terms of cow hides).	Leather cloth
	(thousands)	(thousands)	(000 yards)
1955	668·4	1,635·6	2,623·2
1956	741·6	1,683·1	2,640·0
1957	630·5	1,791·8	3,500·0
1958	678·0	2,067·6	4,243·2
1959	650·4	2,467·2	5,420·4
Jan.-Aug. 1960 ..	534·2	1,526·2	3,800·1

According to the information supplied by the manufacturers registered under the Industries (Development and Regulation) Act, the total capital invested in the large-scale units manufacturing leather and leather goods in 1956 was about Rs. 9·37 crores and the number of persons employed was about 9,400.

A large quantity of raw hides and skins is imported, mostly overland from Pakistan. In addition, a small quantity of tanned hides and skins and of unwrought leather is also imported.

The following table gives the position:

(In lakhs of Rs.)

Year	Raw hides	Raw skins	Hides, skins, tanned or dressed	Unwrought leather
Imports :				
1955–56	66·5	23·3	..	6·7
April-Dec. 1956 ..	78·32	30·15	1·84	6·62
1957	69·76	37·25	9·37	N.A.
Exports :				
1955–56	..	6,52·7	22,52·3	20·6
April-Dec. 1956 ..	..	4,16·0	15,67·80	11·45
1957	..	6,61·71	21,56·98	N.A.

The trend of exports and imports of hides and skins and leather during 1959 and in the first six months of 1960-61 is indicated below :

(Value in lakhs of rupees)

Year	Hides and skins (undressed)	Leather (undressed)	Leather (manufactures)
Exports :			
1959..	10,67·32	28,65·18	14·79
April-Sept. 1960 ..	4,58·73	12,39·04	8·70
Imports :			
1959..	1,72·19	4·74	36·13
April-Sept. 1960 ..	1,39·31	1·89	12·46

The main problems about raw material relate to the supply of hides and skins and wattle bark. Supplies of hides have to be arranged from Pakistan. The indigenously available *Karada* bark is stated to be a potential substitute for wattle bark.

For the development of indigenous tanning industry and for increasing exports of tanned skins, the Government of India decided from June 15, 1959, to regulate export of raw goat skins on quota basis through established shippers.

India imports about 15,000 tons of wattle extract and bark per year. By the end of the Second Plan the total area under wattle cultivation was proposed to be 27,000 acres.

It was estimated that the demand in 1960–61 would be 23 million tanned hides and 26 million tanned skins. The quantities of the principal raw materials required for this target were : Raw hides 23·5 million pieces; raw skins 26·5 million pieces; lime 28,000 to 33,000 tons; wattle bark and extract, 33,000 tons; other barks 330,000 tons; myrobalans 28,000 to 33,000 tons.

A number of schemes had been launched by the Centre and States for the development of the tanning and leather industries during the Second Five-Year Plan. Some of these provided for setting up production-cum-training centres, re-tanning and finishing centres, organization of co-operative societies of tanners and leather workers.

FOOTWEAR INDUSTRY

The larger units manufacturing leather and leather goods employ about 9,950 persons and the total investment is about Rs. 10 crores. The small-scale industry employs about 7,63,000 persons.

The principal use of leather is for the production of footwear.

The following table gives the regional distribution of the capacity for Western type footwear early in 1957 :

State	Unit No.	Annual Capacity (Pairs)
Uttar Pradesh ..	7	2,277,000
West Bengal ..	1	3,442,000
Bihar	1	174,200
Madras	1	75,000
Punjab	1	4,800
Mysore	1	1,200
Total	12	5,974,800

The principal towns concerned are Agra, Kanpur, Bombay and Calcutta.

During 1959, there were 12 units engaged in the manufacture of western type of leather footwear with a total capacity of 6·688 million pairs and 12 units engaged in the manufacture of Indian type with production amounting to 4·103 million pairs. In addition, there were quite a large number of cottage and small-scale factories producing in all 12-13 million pairs of western type leather footwear and 65-70 million indigenous footwear.

The output of the large-scale factories since 1955 is given below :—

Year	Western type (million pairs).	Indian type (million pairs).
1955 ..	3·243	2·303
1956 ..	3·620	2·911
1957 ..	4·369	3·038
1958 ..	4·280	3·290
1959 .	4·140	4·103
Jan.-Aug. 1960	3·581	2·467

Imports of leather footwear during the First Plan period were very small while exports were much higher. The following table gives the trend in exports and imports from 1955–56 :

Year	Imports (in pairs)	Exports (in pairs)
1955–56	1,816	1,577,754
April-Dec. 1956 ..	14,173	1,437,235
1957	14,540	2,550,367
1958	684	1,613,100
1959	1,980	2,665,771
April–Sept. 1960 ..	Nil	1,123,627

An excise duty of 10 per cent *ad valorem* has been imposed on footwear since March 1, 1954. Only power-operated factories employing 50 or more workers and using more than two H.P. come under this levy.

It was estimated that the total requirements of leather footwear in 1960–61 would be 100 million pairs for domestic consumption and 2 million pairs for export purposes. This would be an increase of 12·6 million pairs over the 1957 level. This additional demand was proposed to be met by a fuller utilisation of the existing capacity in the organised sector and by developments in the cottage and small-scale sector and no expansion of capacity was envisaged during the Second Plan period in the large-scale sector of the industry.

For achieving the target of 100 million pairs in 1960–61, the following quantities of raw materials would be required : 12·25 million tanned hides and 4·75 million tanned skins; 5·4 million reels of thread for uppers and 360 tons for others; and 285 million pieces of eyelets.

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JUTE INDUSTRY

As one of the principal earners of foreign exchange, the jute industry plays a vital role in India's economy. Out of the aggregate value of all goods and commodities exported every year, the share of jute manufactures is 18–19 per cent. The value is exports of jute yarn and manufactures during 1959 was Rs. 110·75 crores and Rs. 103·91 crores in 1958. The jute industry also provides direct employment to as many as 260,000. The annual value of output is of the order of Rs. 130 to Rs. 140 crores.

There are 59 jute mills with a loomage of 35,435 under Indian managing agency houses and 37 mills with 33,518 looms under non-Indian managing agency houses. In 1957–58, 22 Indian-managed mills made a profit and eight incurred a loss, while eight non-Indian managed mills made a profit and 19 incurred a loss. Out of the 112 jute mills, 68 have been modernised so far (up to end of August 1959), four out of their resources and 21 with loans advanced from the National Industrial Development Corporation. It is proposed to complete the modernisation by the end of the Third Plan.

The Corporation has so far granted loans amounting to Rs. 4·6 crores to 22 jute mills for modernising their machinery. Of this, a sum of Rs. 2·64 crores had been drawn by 15 mills by November 1959. The Corporation has also introduced a scheme to provide short-term loans to jute mills to facilitate the purchase of indigenous machinery. Loans up to Rs. 5 lakhs will be granted under this scheme.

According to a statement issued to the Press on September 12, 1959 by the Indian Jute Mills Association, its member mills had unsealed a total of 4 per cent of their looms during the previous three months. The industry then had only 10 per cent of its looms idle.† About 5,000 tons of jute goods had been added to the average monthly production. Prices had been stabilised and there was a fall of 11,700 tons in jute goods stocks during August 1959. The unsealing process was done in two stages creating in all over 5,000 temporary jobs besides making a commitment for the consumption of at least an additional 28,500 bales of jute a month.

Details of the production trends of raw jute in the Indian Union :—

Year	Lakh acres	000 bales
Average		
1950–51	14·5	3,301
1951–52	19·5	4,678
1952–53	18·2	4,605
1953–54	11·96	3,129
1954–55	12·43	2,928
1955–56	17·39	4,197
1956–57	19·08	4,288
1957–58 (Revised) ..	17·42	4,052
1958–59 (Revised) ..	18·11	5,158
1959–60	17·07	4,548

N.B.—The jute season is from July to June.

The all-India yield per acre was 1,066 lbs. in 1959–60, as against 1,139 lbs. in 1958–59.

Supply of jute and mesta during 1959-60 was about 88 lakh bales.

Supply and distribution of jute during the seasons 1958–59 and 1959–60 :

	1958-59 (lakh bales)	1959-60 (lakh bales)
Supply :		
Opening stocks—		
With mills ..	13·86	19·96
With other stockists	4·23	4·50
TOTAL ..	18·09	24·46
Crop : Total ..	69·92	57·00
Import from Pakistan	3·40	6·14
Total supply ..	91·41	87·60
Distribution :—		
Mill consumption	64·60	67·60
Exports	0·43	1·63
Domestic consumption ..	2·32	2·00
Total Distribution ..	67·35	71·23

The following table gives the trend of I.J.M.A. mill consumption of raw jute :—

Year ended June	Lakh bales
1952-53	52·53
1953-54	50·24
1954-55	58·63
1955-56	64·28
1956-57	60·72
1957-58	61·34
1958-59	60·14
1959-60	62·91

JUTE MILLS

In 1959, there were 112 jute mills in India with a total loomage of 72,125. This is about 56 per cent of the total loomage capacity of the world.

Of the 112 mills, 101 were in W. Bengal, four in Andhra, three in Bihar, three in U.P. and one in M.P. The mills in W. Bengal are concentrated in Calcutta. The number of companies managing the 112 mills was 81. There is a 15 to 18 per cent increase in jute acreage in 1961 over 1960 acreage of 800,000. The output in 1960 was between 1,900,000 and 2,000,000 bales.

The total capacity is about 1,000,000 tons of jute goods a year. The average production during the last five years is 1,094,000 tons. The total value of the goods produced in a year is about Rs. 130–140 crores.

According to the census of manufactures 1957, 102 mills had a fixed capital of Rs. 42·46 crores and a working capital of Rs. 42·87 crores. In the same year, 245,309 persons were employed in the 102 mills.

The progress of the industry during the past few years is summed up in the following table :—

(in thousand tons).

Year (July–June)	Production*				Exports from India	Stocks*
	Hessian	Sacking	Others	Total		
1952–53	348	511	33	892	676	134
1953–54	390	445	31	866	811	87
1954–55	399	558	38	995	862	88
1955–56	403	623	69	1,095	860	127
1956–57	428	527	70	1,025	864	116
1957–58	392	596	68	1,056	802 (Revised)	134
1958–59	446	510	85	1,041	826	95
1959–60	449	531	94	1,074	886	82

* Represents I.J.M.A. mills and three non-members.

INDEX NUMBER OF PRICES

(Base July 1914 = 100)

Period.	Raw Jute	Manufactured Jute
1956	293	313
1957	350	320
1958	331	294
January 1959	324	288
February ,, ...	324	272
March ,, ...	324	284
April ,, ...	324	284
May ,, ...	324	286
June ,, ...	324	300
July ,, ...	328	296
August ,, ...	336	302
September ,, ...	340	292
October ,, ...	336	299
November ,, ...	355	304
December ,, ...	380	323
January 1960	355	314
February ,, ...	348	319
March ,, ...	360	320
April ,, ...	372	352
May ,, ...	478	390
June	413	363

There has been no Government control on production or distribution of jute goods. The only control in vogue is that exercised by the Indian Jute Mills' Association, in the light of their Working Time Agreement, the main object of which is to ensure that production and supply are aligned to world demand.

Mills have lately been paying greater attention to the need for diversification of their products. Some of the specialities which are manufactured now are cotton bagging (a loose fabric meant for packing of cotton in U.S.A.), wide hessian used as carpet backing in U.S.A., jute tarpaulins, paper-lined hessian, jute carpets and jute webbing.

Out of 88 jute mills which had to implement the Jute Wage Board's recommendations for cash interim relief for workmen, 82 had implemented the recommendations. (April 1961).

† In April 1960 the Jute Mills' Association decided to permit its members to unseal an additional one per cent of their sealed looms with effect from May 1.

With effect from 2nd May 1960, one per cent. of the looms was unsealed and further 1½ per cent. from 1st June. The decision to unseal 1½ per cent looms was soon withdrawn and, with effect from 6th June, the jute mills were allowed to seal a part of their looms on a voluntary basis according to the availability of raw jute supplies to them on the understanding that the working hours lost could be made up after the end of October 1960. Thereafter, the working loomage was 91 per cent which continued till October 1960 when the Indian Jute Mills Association decided to seal voluntarily 5 per cent of the looms with effect from 17th October and another 5 per cent. from 24th October, bringing the total sealed complement to 19 per cent.

The announcement also said the Government of India had advised the Association that, so far as it lay within their power, they would ensure that during the coming jute season, adequate supplies of raw jute would be made available to the industry from local sources and by way of imports.

In the event of climatic conditions adversely affecting the size of next season's jute crops prompt action would be taken by the Association to review the level of production.

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LAC INDUSTRY

LAC is a resin which finds extensive application in industries. It is a resinous protective secretion of an insect which lives by sucking the sap of certain trees and shrubs called lac hosts.

There are four crops of sticklac, named after the Hindu months in which the collection of each crop commences. These are 'Baisakhi' and 'Katki' from one strain of the insect (Rangeeni) and 'Jethwi' and 'Aghani' from another strain (Kusumi). The first processed product, after the crushing and washing of sticklac is known as 'seedlac'. From this shellac is manufactured either by melting it (seedlac) manually in cloth bags held near a fire place called 'bhattas' or by the mechanised process of extraction with suitable solvents.

India is the chief source of supply of sticklac and till 1950 accounted for nearly 85 per cent of the world production. But since then production in Thailand has rapidly increased and now accounts for about 30 per cent of the world production. The average production of sticklac in different States based on the annual production during the years 1949-59 is as follows :—

State	Average Crop (in maunds)
Bihar	4,42,500
Madhya Pradesh..	3,42,000
West Bengal	1,92,000
Bombay*	71,500
Uttar Pradesh	15,000
Orissa	15,000
Assam	14,500
Other States	15,000
Total ..	11,08,000

The actual production in 1959-60 was 11,59,000 maunds as against 10,13,500 maunds in 1958-59.

The average annual production of shellac including button lac is 15,300 tons.

There are no regulated markets for trading in sticklac. The manufacture of shellac is a cottage industry and the number of shellac factories varies from season to season. According to the latest information there are about 300 factories in the country; only two of these which are located in Calcutta are fully mechanised.

Yield from sticklac varies from year to year and locality to locality.

Roughly the yield of seedlac and shellac is 65 per cent and 55 per cent of sticklac.

The cost of manufacturing one maund of shellac from seedlac is about Rs. 16 and of converting sticklac into seedlac is Rs. 3. In 1939 these were roughly Rs. 3-8 and as. 8 respectively.

The falling tendency in prices observed during 1957-58 continued and by April 1958 prices of T.N. Shellac touched the lowest level of Rs. 57 in post-war years. This necessarily caused concern to Government and the trade alike. At the suggestion of the Government a voluntary association of exporters was formed for canalising exports at minimum export prices. With the formation of this association in June 1958 a stabilising influence was brought about in the market.

In spite of fixation of minimum prices at the export stages, benefit has not been passed on to the manufacturers and growers in full measure and internal price levels have been much lower than the export minimum price.

In the latter half of 1959, due to heavy demand from the U.S.A., China and Western Europe, prices increased substantially. As it was felt that this was an unhealthy situation from the point of view of overseas consumers, a schedule of maximum prices was also fixed by the Indian Lac Exporters Association with effect from 1st November 1960 for all grades of lac. These maxima were generally Rs. 15 to Rs. 20 per maund higher than the minimum prices.

EXPORTS

About 90 per cent of the total quantity of processed goods is exported.

The U.S. is the best customer, followed by the U.K. and Germany. Since 1953 the U.S.S.R. and China have also been buying sizable quantities.

Exports of all kinds of lac to foreign countries have averaged seven lakh maunds in the past five years; but there has been a drop in foreign exchange earnings to the tune of over Rs. 3 crores due to lower prices of lac during 1958 and 1959. The average value of exports which stood at Rs. 10 crores till 1956-57 has now declined to less than Rs. 6 crores.

The table below gives exports of lac to the important countries during 1958-59 and 1959-60.

(The figures are in maunds)

	1958-59	1959-60
SHELLAC AND BUTTONLAC		
U.K.	49,333	68,840
U.S.A.	56,665	70,231
China	26,567	48,115
U.S.S.R.	51,676	20,648
Other countries ..	1,35,276	1,71,966
Total quantity ..	3,19,517	3,79,800
Total value in rupees	3,00,61,562	3,83,23,942
SEEDLAC		
U.S.A.	2,76,245	2,36,887
West Germany ..	43,479	34,963
U.K.	26,851	21,694
Other countries ..	13,167	15,370
Total quantity ..	3,59,742	3,08,914
Total value in rupees	2,64,14,225	2,37,41,148
OTHER KINDS		
Total quantity ..	34,402	41,553
Total value in rupees	9,58,288	15,95,752
Total of all kinds :		
Quantity	7,13,661	7,30,267
Value in rupees ..	5,74,34,075	6,36,60,842

Lac has made significant contributions to the development of art and industry.

Shellac is consumed chiefly by five industries.

The gramophone industry consumes about 11 to 13 thousand tons.

The varnishes and paint industry absorbs something like 4 to 6 thousand tons.

The total demand from the electrical industry is estimated at 3,000 tons as against 6,000 tons in pre-war years.

Nearly 3,000 tons are used in the hat industry as a stiffening material.

The manufacture of sealing wax requires about 1,500 tons.

For the promotion of the improvement of methods of cultivation and manufacture of lac in India the Indian Lac Association for Research was formed by traders in Calcutta in 1921 and the Government found the funds by levying a cess on all exports of lac other than refuse lac at annas four per maund and for refuse lac annas two per maund. This association set up the Indian Lac Research Institute at Namkum (Ranchi).

At the suggestion of the Royal Commission of Agriculture in 1927 this association was succeeded by the Indian Lac Cess Committee which was established under the Lac Cess Act of 1930 "for the improvement and development of the cultivation, manufacture and marketing of Indian lac" under the control of the Central Ministry of Food and Agriculture. By this Act the cess was raised to annas seven and annas five respectively. With effect from April 1948 this cess was doubled. In order to associate the members of Parliament with the Committee and also to provide adequate representation to all the lac growing States the Indian Lac Cess Act has recently been amended.

On 19th September 1956, the Committee celebrated its Silver Jubilee and to mark the occasion brought out a Souvenir publication containing an exhaustive survey of research and statistics on lac and a detailed directory of lac trade. In 1959 the Committee brought out another publication entitled 'Atlas of Lac' which gives the story of lac in the form of maps and charts with explanatory notes and detailed statistics. These publications are available from the Secretary, Indian Lac Cess Committee, Circular Road, Ranchi.

An Export Promotion Council for shellac has also been formed under the Central Ministry of Commerce and Industry to promote exports of shellac.

At the suggestion of the Bihar Shellac Enquiry Committee and the Indian Lac Cess Committee the Government of India banned futures trading in shellac and seedlac.

Under the Second Five-Year Plan it was proposed to spend Rs. 50 lakhs for the development of the industry. The more important of the schemes were (*i*) 50 broodlac farms to increase the production of lac to 16 lakh maunds; (*ii*) Seven regional testing laboratories for testing shelear and (*iii*) A number of storage godowns including an air-conditioned godown at Calcutta in order to provide better marketing and credit facilities.

All the broodlac farms have been established in the various States. Proposals for inclusion in the Third Five-Year Plan have been finalised. Schemes on research and development at an estimated cost of Rs. 75 lakhs have been proposed.

* Bilingual.

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MISCELLANEOUS INDUSTRIES

Agricultural Implements: There were 49 factories in 1959 as against 38 in 1958, manufacturing the implements, with a productive capacity of 23,788 tons in 1959 as against 19,696 tons in 1958 in terms of steel. The Tata (Agrico) Jamshedpur is the largest unit with an annual capacity of 12,000 tons. They also include two units in the public sector, *viz.*,the Nahan Foundry and the Mysore Implements Factory. In the Nahan Foundry, the production in 1958 (April–Dec.) was 1,955 tons as against 2,456 tons in 1957-58. The production during 1959 (April-September) was 1,442 tons as against 2,465 tons in 1958-59. Actual production by the organised sector was 14,000 tons in 1958 and 15,886 tons in 1959. In addition there were 350 small units registered with State Governments.

Agricultural Machinery: In 1950 there were eight organised units manufacturing power-driven pumps with a capacity of 33,460 pumps per annum. At the end of 1959, the number was 37 with an annual installed capacity of 84,116 pumps, as against 29 with an installed capacity of 68,716 pumps in 1958.

During the calendar year 1959, 81,612 pumps were manufactured, as against 75,656 in the preceding year. During Jan.-July 1960, 52,800 pumps were manufactured. The total value of agricultural machinery produced in 1958 was Rs. 67·50 lakhs as against Rs. 52·90 lakhs in 1957.

Imports of centrifugal pumps including turbine pumps were worth in 1950-51 Rs. 57 lakhs; 1951-52 Rs. 95·6 lakhs; 1952-53 Rs. 80·6 lakhs; 1953-54 Rs. 66·4 lakhs; 1954-55 Rs. 59·3 lakhs; 1955-56 Rs. 51·6 lakhs; April-Dec. 1956: Rs. 59·16 lakhs. Calendar year 1957: 123·68 lakhs; 1958: 123·59 lakhs; 1959: 140·51 lakhs and April-Sept. 1960: 92·10 lakhs.

Total demand in 1955-56 was about 40,000 pumps, and it is expected to rise from 85,000 to 86,000 pumps by 1960-61. To meet this increased demand, some schemes have been recommended under the Second Five-Year Plan. With their implementation, the capacity will increase to 74,700 pumps per annum.

Diesel Engines: At the beginning of the First Plan there were five units engaged in the manufacture of diesel engines with a combined annual rated capacity of 6,320 engines. By the end of the Plan, the number increased to 16 with a capacity of 19,759 engines per annum. This number rose to 17 at the end of 1956 with a total annual installed capacity of 22,169 engines. Actual production during 1957 aggregated 19,997 engines. In addition, three more firms with a capacity of 10,000 engines for the manufacture of road vehicular type of diesel engines were established to meet the automobile requirements.

The position of the diesel engine manufacturing industry in 1959 and Jan.–August 1960 was as follows:

	No. of units	Capacity		Actual production
Diesel engines (Stationary)	19	23,225	30,217	26,029
Diesel engines (Vehicular type)	2	6,000	8,296	6,691

The total demand by 1960-61 is estimated at between 20,000 and 21,000 engines upto 50 H.P. Capacity and production targets envisaged in the Second Five-Year Plan were 220,000 H.P. and 205,000 H.P. respectively.

The value of diesel engine exports was Rs. 4·28 lakhs in 1956, Rs. 10 lakhs in 1957, Rs. 10·21 lakhs in 1958, Rs. 13·78 lakhs in 1959 and Rs. 13·59 lakhs during April-Sept. 1960. Indian diesel engines were exported to 25 different countries, the principal buyers being Bahrein, Oman, Cyprus and Thailand.

The production of diesel engines to drive agricultural pumps rose to 27,165 in 1958, substantially higher than the target of 20,500 engines per year scheduled to be achieved by the end of the Second Plan. The value of the production in 1958 was about Rs. 5·43 crores.

The industry has now grown to a level where there are 19 units manufacturing diesel engines in different parts of the country with a capacity of over 23,225 engines per year.

There are now units manufacturing ancillary items. Their total output in 1958 stood at Rs. 4·8 crores.

Agricultural Tractors: At the beginning of the Second Plan, there was no regular tractor manufacturing plant. The requirements are met by imports. The imports were: 1950-51, 4,930; 1951-52, 7,148; 1952-53, 1,227; 1953-54, 3,195; 1954–55, 2,939. Calendar year 1957: 4,792; 1958: 5,640; 1959: 3,949 and April-Sept. 1960: 2,477.

It is estimated that more than 20,000 tractors are in use at present in the country as against 10,000 in 1949-50. And the total requirements for all types of tractors by 1960-61 have been estimated by the Committee on Tractors and Tractor drawn Agricultural Implements at 5,000 per annum.

A contract between the Government of India and Messrs. Komatsu Manufacturing Co., Japan, has been concluded, under which Ordnance factories will produce tractors, earth-moving equipment, etc. The actual production is expected to start during 1959-62.

Two units each with a capacity of 1,250 tractors a year were to go into production in the middle of 1960. One will manufacture British tractors under licence, and the second would collaborate with a German firm.

In 1957, there were two units engaged in the production of tractors. The aggregate capacity was 3,000, while actual output was 2,269. The output of tractors in 1958 was 771 as against 189 in 1959 because of import restrictions.

A scheme for the manufacture of bulldozers and scraper attachment was licensed at the end of 1958. The factory would be located in Bombay.

Licence was also expected to be given for the manufacture of spare parts of the caterpillar units. This would be set up in Calcutta.

Machine Tools: At present, there are 23 units, two owned by the Government and 21 by private enterprise, manufacturing graded machine tools. The capital investment (private) is about Rs. 90 lakhs and the total number of persons employed exceeds 2,000.

The position in respect of actual production during 1959 and Jan.–July 1960 is shown below:

Article	1959		Jan.–July 1960	
	No.	Value Rs.	No.	Value Rs.
Complete tools	5,655	4,02,73,247	N.A.	30,171,200
Accessories	16,653	23,93,625	N.A.	7,63,300

As a part of the overall programme an expansion of the Hindustan Machine Tools was envisaged during the Second Plan. The production of lathes at the Jalahalli Works of this concern was worth Rs. 1·5 crores in 1960-61. The production in the private sector is currently worth about Rs. 75 lakhs per annum. A provisional target of Rs. 3 crores worth of machine tools was proposed for 1960-61 for the public and private sectors pending submission of the report of the Expert Committee.

The capacity of the machine tool industry in terms of value was Rs. 4·36 crores in 1959, as against Rs. 4·02 crores in 1958. Production of machine tools which was expected to be about Rs. 10 crores in 1960 is to be stepped up to over Rs. 38 crores by 1965—Rs. 23 crores for machine tools and Rs. 15 crores for small tools.

It is estimated that there are now 80,000 machine tools in operation and, by 1960–61, it was estimated, 170,000 would be required.

Cotton Textile Machinery: The principal items are carding engines, spinning ring frames and looms. The target capacity and production in the First Plan for carding engines was 600 and in the Second Plan 1,692. The total installed capacity in 1959 was 3,000 per annum. Actual production was 1951: 158; 1952: 108; 1953: 192; 1954: 436; 1955: 600; 1956: 732; 1957: 1,020; 1958: 1,148; 1959: 768; Jan.-Aug. 1960: 638.

The total value of the textile machinery produced in 1957-58 was Rs. 9 crores. It is expected that by 1961 self-sufficiency would be achieved in most items.

It was estimated that the annual demand under the Second Plan was 1,400 for new units and 600 for replacement, totalling 2,000 units. To meet this demand, the Government has approved the proposal of the private sector for 600 carding engines by the National Machinery Manufacturers and 300 by Texmaco for implementation.

At present the annual demand is estimated at 2,810 ring frames, 7·8 lakh spindles, 23·4 lakh spinning rings, 312,300 fluted rollers and 14,625 looms.

About spinning ring frames, there were 2 units with a rated capacity of 396 pieces per annum. Two more units started production early in 1955 bringing the total capacity to 936 ring frames against the Plan target of 800. Actual production was 1951: 291; 1952: 255; 1953: 197; 1954: 314; 1955: 868; 1956: 1,116; 1957: 1,368; 1958: 877; 1959: 1,080; Jan.-Aug. 1960: 724. The production target set in the Second Plan was 1,896. The total capacity in 1958 was 2,784 and in 1959 it was the same as in 1958.

About looms, there were three units with a capacity for producing 4,980 looms per annum; the target capacity in the First Plan was 4,980. The actual production was 1951: 2,166; 1952: 1,527; 1953: 1,340; 1954: 1970; 1955: 2,346; 1956: 2,868. The target production set in the Second Plan was 6,000 looms. The number of looms actually manufactured was 2,868 in 1957, 3,187 (of which 36 were automatic) in 1958, 4,224 in 1959 and 3,413 during Jan.-Aug. 1960. The installed capacity in 1958 was 4,980 In 1959, it was 5,700 looms and in Aug. 1960 it was increased to 10,560.

The number of drawing frames rose from 24 during the first eleven months of 1956 to 30 during the same period in 1957; but declined to 9 in 1958. It was higher at 29 during Jan.–Sept. 1959. Automatic looms rose from 161 to 282 in 1957 and in 1958 it was only 36. During 1959, 356 were produced and in Jan-Sept. 1960 it was 260. Reeling machines rose from 1,158 to 1,841 in 1957 and in 1958 it was at 804. During Jan.-Sept. 1959 it was at 339.

The production of spindles rose from 5·72 lakhs in 1954 to 10·5 lakhs in 1956, of fluted rollers from 2·26 lakhs to 3·84 lakhs.

Protection to the industry has been extended upto the end of 1963 at the protective duty of 10 per cent *ad valorem* for complete ring frames, spindles, spinning rings, fluted rollers and automatic looms. Protection for plain looms was discontinued with effect from 1st January 1958.

The value of textile machinery exported rose to Rs. 2·2 lakhs in 1957 from Rs. 1·5 lakhs in 1956.

In 1958 the value of export was Rs. 12·96 lakhs, in 1959 it was Rs. 19·91 lakhs and during April-Sept. 1960 it was Rs. 7·37 lakhs.

Ball Bearings: There is one unit with an annual rated capacity of 900,000 ball bearings

N.A. Not available.

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on a single shift basis. In 1958, the one unit worked on a three shift basis. The total demand by 1960–61 was estimated at 2·4 million bearings which the existing firm was expected to be able to meet with its expanded capacity and by working on a multiple shift system. The production of 21 different sizes of roller bearings was undertaken for the first time.

The number of ball bearings actually produced during the calendar year 1958 was higher at 2,400,000, the figures for 1957 being 1,595,044. In 1959 it was higher at 1,699,200 and during Jan.-July 1960 it was 1,612,200.

The number of units in the small-scale sector is 14 in the Punjab and one in Maharashtra.

Protection has been extended upto the end of 1962, at the protective duty of 95 per cent *ad valorem*.

Bicycles : As on September 26, 1960 there were 21 units manufacturing complete bicycles as against 18 units in 1957. The aggregate annual capacity was 725,000 in 1957, 925,500 in 1958 and 1,050,500 in 1959. The actual production in the calendar year 1957 was higher at 790,579 ; in 1956 it was estimated at about 664,000 and in 1955 at 491,000. Of these big units, Uttar Pradesh has six, West Bengal three, Punjab five, Delhi three and Madras, Maharashtra, Assam and Bihar have one each.

Number of persons employed in 1957 was about 8,000.

The output for 1958 is placed at 10 lakhs. During 1959 the actual output was placed at 10·68 lakhs and during Jan.-July 1960 it was 5·96 lakhs. Production in the large and small-scale sectors during 1959 (estimate): 13 lakhs as against the Plan target of 12·5 lakhs. Production was expected to go up to 15 lakhs by the end of the 2nd Plan.

But the internal demand has shown a steady rise. From 4·03 lakh cycles in 1951-52 it moved up to about 6·8 lakhs in 1955-56. It was expected that the offtake would go up to 11 lakhs at the end of the Second Plan. Besides, an export of 1·5 lakh cycles was also envisaged.

This is to be achieved through the organised sector as well as the decentralised sector of the industry. In view of the considerable employment potentialities of the small-scale sector, it was considered that it would be enabled to produce 2·5 lakhs cycles per annum by 1960-61. The balance of 10 lakhs was expected to be produced by the organised sector which includes 20 units.

The production of bicycles in the small sector, which started only towards the end of March 1956, was about 109,000 bicycles in 1957 as against about 22,000 in 1956.

There are 78 units in the small sector ; of these 22 are in the Punjab, 14 in Delhi, 10 in West Bengal, nine in Uttar Pradesh, eight in Bombay*, four in Madhya Pradesh and two in Madras. Five units in Rajasthan, two in Mysore and one each in Andhra Pradesh and Orissa are to go into production soon.

A Development Council was constituted for this industry in December 1953.

The output of bicycle tyres in India in 1958 was higher at 8·57 million, against 7·15 million tyres manufactured in 1957 and 3·94 million tyres manufactured in 1951. In 1959 the production was 9·5 million and during Jan.-Aug. 1960, 7·3 million.

During the same period, the number of bicycle tubes made in India went up from about 4·9 million to over 8·02 million in 1958 as against 7·03 million in 1957. During 1959, 9·95 million tubes were produced and 8·4 million during Jan.-Aug. 1960.

The target for the production of bicycle tyres and tubes under the Second Plan was twenty million tyres and tubes each per year.

The current domestic demand for bicycle tyres and tubes is estimated at nine million each per year. This was expected to rise to 16 million tyres and tubes each by the end of the Second Plan, keeping pace with the steady increase in the number of bicycles on Indian roads.

The industry can practically meet all internal requirements.

Indian capital invested in the bicycle industry in India was Rs. 3·39 crores while the amount of foreign investment in the industry was about Rs. 39·81 lakhs. (September 1958.)

A Standing Liaison Committee has been formed by the Development Council for the bicycle industry to assist the Export Promotion Council.

Provision has been made to enable manufacturers of bicycles to obtain a 133 per cent replacement quota of iron and steel used in producing the bicycles exported.

Indian cycles have been successfully introduced, on a commercial scale, in six foreign countries.

During 1959, as many as 7,573 complete bicycles valued at about Rs. 10·21 lakhs were exported. During April-Sept. 1960, 1,904 complete bicycles valued at about Rs. 2·29 lakhs were also exported. During 1958 exports had amounted to just five bicycles.

The importing countries were Burma, Ceylon, Malaya, Afghanistan, Mozambique and Nigeria.

Bicycle accessories worth about Rs. 1·64 lakhs were also exported in 1959 and accessories worth Rs. 1·72 lakhs were exported in April-Sept. 1960.

Apart from bicycles, an overseas market on a small scale for Indian tricycles has also been built up.

In the bicycle industry the use of imported component has been steadily declining. In Feb. 1960, the value of imported components accounted for Rs. 2 to 5 per cycle. At the end of the Plan period the country's requirements were fully met from indigenous production.

An "Export Pool Scheme" has been introduced to facilitate sales abroad at a price lower than the domestic price. The scheme is being operated by the Cycle Manufacturers Association of India.

Protection has been extended upto the end of 1963.

Sewing Machines : At the end of the First Plan there were three organised units engaged in the manufacture of complete domestic sewing machines with a total capacity of 46,500 machines per annum. This has since gone up to seven units with a total annual capacity of 81,200 machines. During 1959 the installed capacity was 91,700 per annum and in August 1960 it stood at 133,704. Actual production in 1958 was 210,900 as against 167,478 in 1957 and 130,388 in 1956. It was estimated that the demand for the domestic and industrial types of machines of 130,000 to 160,000 machines per year might go up to 300,000 by 1960-61. This can be met by the production from the small-scale sector as well as from the organised sector with its expanded capacity. Of these about 30,000 machines were earmarked for export. Production—32,965 in 1950–51 ; 48,116 in 1951-52 ; 52,206 in 1952–53 ; 68,417 in 1953–54 ; 80,776 in 1954–55 ; 110,000 (estimate) in 1955–56 ; 130,388 in 1956 ; 167,478 in 1957 ; 210,900 in 1958 and 300,000 in 1959. The target envisaged under the Plan by 1960-61 was 300,000. During Jan.-July 1960 it was 170,247.

There are 35 manufacturers of sewing machines in the small-scale sector besides seven firms in the large-scale sector. Of the 35 small units, 14 are in the Punjab, nine in Delhi, four in Rajasthan, three in Uttar Pradesh, two in Jammu and Kashmir and one each in Bombay*, Madhya Pradesh and Andhra Pradesh. Of the seven big manufacturing firms, West Bengal and Punjab have three each and the seventh is in Delhi.

Special steps are being taken by Government to increase the output, particularly in the small-scale sector.

Imported components account for only Rs. 8 to 10 per machine.

Exports of Indian sewing machines fetched foreign exchange worth Rs. 20·40 lakhs in 1958 as against Rs. 5·51 lakhs for the whole of 1957.

In 1959 the value of export was as much as Rs. 23·96 lakhs and during April-Sept. 1960 it was Rs. 8·94 lakhs.

The number of sewing machines exported in 1958 was 11,708 as against 4,465 during 1957. During 1959 the number was 22,702 and during April-Sept. 1960 it was 10,827.

The countries to which Indian sewing machines are exported include British Guiana, Afghanistan, Thailand, Ceylon, Malaya, Singapore, the U.S., Kenya, Jordan, Madagascar, Tanganyika, the Sudan, Pakistan, Uganda, Iraq, Sierra Leone, Rhodesia, Saudi Arabia, Zanzibar, Mauritius, Burma, Nepal and Vietnam.

The protection granted to the industry has been withdrawn since January 1, 1955.

Hurricane Lanterns : There are 10 units with a capacity of 4,015,153 lanterns a year. The Second Plan target was 6 million.

During the calendar year 1958, 3,483,900 lanterns as against 4,344,770 in 1957 and 5,179,719 in 1956, were produced. In 1959, 4,560,000 lanterns were produced and during Jan.-July 1960, 2,844,500 were produced.

Actual export was 1950 : 15,036 ; 1951 : 14,136 ; 1952 : 108,264 ; 1953 : 449,734 ; 1954-55 : 349,079 valued at Rs. 8·83 lakhs ; 1955-56 : 204,670 valued at Rs. 5·15 lakhs ; April-Dec. 1956 : valued at Rs. 88,726 ; Calendar year 1958 : 49,381 valued at Rs. 7·89 lakhs ; 1959 : 31,393 valued at Rs. 15·99 lakhs and in April-Sept. 1960 : 3,181 valued at Rs. 4·11 lakhs.

Protection has been withdrawn since January 1, 1955.

Grinding Wheels : There are four units with a rated capacity of 2,829 tons. It was expected that with the completion of the expansion schemes, it was considered to be adequate to meet the demand by 1960-61. Production—1950-51 : 231 tons ; 1951-52 : 352 tons ; 1952-53 : 390 tons ; 1953-54 : 395 tons ; 1954-55 : 525 tons ; calendar year 1955 : 681 tons ; 1956 : 1,112 ; 1957 : 1,452 tons ; 1958 : 1,186 tons ; 1959 : 1,198 tons ; Jan.-July 1960 : 988 tons. Imports : 1950–51 : 209 tons ; 1951–52 : 202 tons ; 1952–53 ; 93 tons ; 1953–54 : 112 tons ; 1954–55 : 158 tons ; 1955–56 : 60 tons.

During the calendar year 1957, 1,750 tons valued at Rs. 1·19 lakhs, in 1958, 165 tons valued at Rs. 10·31 lakhs and during Jan.-Aug. 1959, 271 tons valued at Rs. 12·50 lakhs and April-Sept. 1960, 87 tons valued at Rs. 7·28 lakhs were imported.

Protection has been discontinued with effect from 1st January 1960.

Electric Goods : The value of electrical consumer goods produced in 1957 (lamps, fans, radio sets, batteries) was estimated at Rs. 25 crores. The Second Plan target was Rs. 40 crores.

Dry Batteries : There are five units with a capacity for producing 224·5 million dry cells a year. The Second Plan target was 225 million. About 183·88 million cells were produced in 1959 as against 168·18 million cells in 1958, and 166·54 million cells in 1957. The exports were 1950 : 85,193 valued at Rs. 0·2 lakh ; 1951 : 1,445,673 valued at Rs. 2·58 lakhs ; 1952 : 1,114,966 valued at Rs. 2·92 lakhs ; in 1957 : Rs. 9·67 lakhs ; 1958 : Rs. 16·45 lakhs ; 1959 : Rs. 15·17 lakhs ; April-Sept. 1960 : Rs. 3·32 lakhs.

Attempts are being made to manufacture the raw material in this country—manganese dioxide, sealing compound, carbon electrodes.

There has been no protection since January 1954.

Storage Batteries : There are 12 units with an annual rated capacity of 379,300. The anticipated demand in 1960-61 was 420,000.

* Bilingual.

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Production—1951-52 : 212,836 ; 1952-53 : 136,000 ; 1953-54 : 179,000 ; 1954-55 : 210,100 ; 1955-56 : 258,086 ; Calendar year 1956 : 314,199 ; 1957 : 324,513 ; 1958 : 343,400 ; 1959 : 454,008 ; Jan.-July 1960 : 300,600.

There is progress in the diversification of products and a greater degree of self-sufficiency about raw materials. Among the different products are aircraft batteries and railway requirements. Schemes for the manufacture of dry-charged batteries, iron-clad batteries, heavy duty and traction batteries have been approved. Raw material manufacture includes refined lead and microporous rubber separators.

Protection to the industry has been withdrawn since January 1, 1956.

Electric Cables and Wires : Actual production of 1. bare copper conductors, 2. winding wires, 3. rubber insulated cables and flexibles, 4. A.C.S.R. cables is as follows :

	in tons (1)	in tons (2)	in mil. yd. (3)	in tons (4)
1956	10,255	761	105·6	11,285
1957	8,554	1,016	103·9	15,388
1958	8,200	2,300	120·0	14,000
1959	6,570	4,669	165·0	17,000
Jan.-July 1960	5,441	2,408	114·51	12,156

The major schemes of the First Plan were the Hindustan Cable Factory in the public sector for producing different kinds of cables, (this started regular production on Sept. 1, 1954), the expansion of the Indian Cable Company at an estimated cost of Rs. 2·8 crores, the expansion of capacity for A.C.S.R. cables from 2,500 tons to 5,000 tons per annum, the creation of producing facilities for 500 tons of insulated aluminium conductors per annum.

Electric Fans : There are 23 units with an installed capacity of 780,900 fans per year. The Second Plan target capacity was raised from 600,000 fans to 900,000 fans per year in 1960-61.

Actual production was 1950 : 194,100 ; 1953 : 199,468 ; 1954 : 238,850 ; 1955 : 282,236 ; 1956 : 338,932 ; 1957 : 524,664 ; 1958 : 635,000 ; 1959 : 743,070 ; Jan.-July 1960 : 556,000.

Exports of electric fans were expected to reach about 40,000 per year by 1960-61. Exports were : 1952-53 : 3,655 valued at Rs. 4·9 lakhs ; 1954-55 : 10,869 valued at Rs. 13·6 lakhs ; 1955-56 : 16,456 valued at Rs. 19·51 lakhs ; Apr. to Dec. 1956 valued at Rs. 11·57 lakhs. In calendar year 1957 ; 15,471 valued at Rs. 17·40 lakhs ; 1958 : 21,379 valued at Rs. 22·31 lakhs ; 1959 : 39,446 valued at Rs. 39·70 lakhs and in April-Sept. 1960 : 37,876 valued at Rs. 35·54 lakhs.

Thirty different countries bought Indian fans, the main buyers being Ceylon, Burma, Malaya, Singapore, Kuwait and Thailand.

Electric Lamps : There are 11 units manufacturing general lighting service lamps with an installed capacity of 44·08 million lamps per year. The target was 50 million by 1960-61.

Production was, 1950 : 14 million ; 1953 : 19·8 million ; 1954 : 22·86 million ; 1955 : 23·51 million ; 1956 : 29·9 million ; 1957 : 32·13 million ; 1958 : 29·50 million ; 1959 : 34·04 million ; Jan.-July 1960 : 22·12 million.

There are two units with an installed capacity of 1,000,000 units to produce fluorescent lamps. Production in 1956 was 880,891 ; in 1957 : 1,018,964 ; in 1958 : 1,010,000 ; in 1959 : 1,114,991 and in Jan.-July 1960 : 866,000.

Electric Motors : There are at present 20 units in the large-scale sector with a total annual capacity of 602,520 H.P. Besides, there were 31 units in the small-scale sector in 1958 whose annual capacity was 130,000 H.P. In addition, there are several small units which are not registered but which assemble electric motors and manufacture parts. In 1959 there were 74 units in Small Scale Sector with a production capacity of 266,204 H.P.

Eleven out of the fifteen large units have schemes for expanding their capacities and 16 new units have also been licensed.

This will raise the total capacity in the large sector to 1,134,290 H.P.

Actual production was, 1950-51 : 99,000 H.P. ; 1951-52 : 153,000 H.P. ; 1952-53 : 160,000 H.P. ; 1953-54 : 161,000 H.P. ; 1954-55 : 201,000 H.P. ; 1955-56 : 271,000 H.P.

The total production by the large units in 1957 was 469,590 H.P. (74,400 motors), as compared with 630,000 (94,800 motors) H.P. in 1958. In 1959 production was 590,550 H.P. (92,251 motors). In Jan.-Oct. 1960 the production was 612,171 H.P. (66,300 motors). The production is confined mainly to the manufacture of electric motors of one to 30 H.P. ratings. A few units also manufacture motors of large ratings.

The current demand for electric motors is around 750,000 H.P. and this is expected to go up to about one million H.P. by 1960-61.

A.C. 3 phase induction motors upto 225 H.P. and motors of the slip-ring type of up to 125 H.P. are now being produced in the country.

The Government has accepted the Tariff Commission's recommendations that the existing protective duties of 15 per cent *ad valorem* on electric motors and 20 per cent *ad valorem* on component parts of electric motors, excluding control gear, should be continued for a further period of three years ending December 31, 1961. Protection was first granted to the electric motor industry in 1948.

Electric Transformers : There are 16 units with an annual rated capacity of 1,204,000 K.V.A. When the present schemes for development are implemented the capacity will go up to 1,310,000 K.V.A. per annum—against the the Second Plan target of 1·5 million KVA by 1960-61.

Production in the calendar year 1958 was 1,150,000 KVA as against 1,219,101 KVA in 1957 and 919,198 KVA in 1956. In 1959 the production was 1,108,400 KVA and in Jan.-July 1960 it was 631,000 KVA.

Imports were valued at Rs. 144·5 lakhs in 1951-52 ; Rs. 149·4 lakhs in 1952-53 ; Rs. 197·5 lakhs in 1953-54 ; Rs. 161·6 lakhs in 1954-55 ; Rs. 173·41 lakhs in 1955-56 ; Rs. 146·98 lakhs during April-December 1956 ; Rs. 354·39 lakhs in 1957 ; Rs. 157·35 lakhs in 1958 ; Rs. 280·53 lakhs in 1959 and Rs. 92·05 lakhs in April-Sept. 1960.

Soap : The organised sector contains some 90 units with an installed capacity of 253,270 tons per annum, though not all of these are actually in production, while the cottage sector contains over 3,000 units, scattered throughout the length and breadth of India. Naturally there is a concentration of these small factories in those areas where oil-seeds are most plentiful. For example, the Punjab, U.P., and Gujarat each has an annual production of over 40,000 tons of soap, while Andhra, another large State, produces just 8,000 to 10,000 tons per year. The production in 1957 and 1958 was as follows (In tons): 1957 : Organised sector : 110,000, Cottage sector : 220,000 and total 330,000 ; 1958 : Organised sector : 123,000, Cottage sector : 267,000 and total 390,000. 1959 : organised sector only : 130,000 tons and in Jan.-July 1960, 78,238 tons (organised sector).

The official capacity of all the factories in the organised sector is just over 250,000 tons, whereas their total production in 1958 was only 123,000 tons. But the figure 250,000 tons includes a number of factories which have never been in operation, or factories, the plants of which are unworkable or highly uneconomic ; the real figure of worthwhile capacity is probably less than 200,000 tons.

With total soap production in 1958 at about 390,000 tons, the amount of oil consumed was about 190,000 tons. The oils are of various kinds, of which groundnut oil, coconut oil and palm oil are the most important. All the groundnut oil is produced in India, but it is necessary to import the palm oil and some of the coconut oil (which is, of course, used for many other products besides soap). It is estimated that the tonnage of oil required for soap alone will grow by 40 per cent every five years and that, twenty years from now, the total annual requirement of oils and fats for all products will have increased from about 1·8 million tons to 6·3 million tons.

The total demand for soap is likely to be 450,000 tons in 1961, 629,000 tons in 1966, 870,000 tons in 1971 and 1,220,000 tons in 1976.

Exports were 1952-53 : 1,300 tons valued at Rs. 32·56 lakhs ; 1953-54 : 571 tons valued at Rs. 13·57 lakhs ; 1954-55 : 542·6 tons valued at Rs. 14·57 lakhs ; 1955-56 : 413·8 tons valued at Rs. 9·67 lakhs ; Apr. to Dec. 1956 : 209 tons valued at Rs. 5·88 lakhs ; 1957 : 359·2 tons valued at Rs. 9·83 lakhs ; 1958 : 358 tons valued at Rs. 10·52 lakhs ; 1959 : 498 tons valued at Rs. 16·29 lakhs and April to Sept. 1960 : 227 tons valued at Rs. 5·98 lakhs.

Matches : There are 242 units with a rated capacity of 44.04 million gross boxes. The Second Plan target was 35·3 million gross boxes.

Actual production was in millions of gross boxes, 1953 : 29·3 ; 1954 : 26·5 ; 1955 : 31·18 ; 1956 : 30·78 ; 1957 : 28·92 ; 1958 : 31·32 ; 1959 : 31·86 and Jan.-Aug. 1960 : 21·96.

Both imports and exports are negligible.

Plywood : The number of units on the approved list of DWCI is 70 with an annual installed capacity of over 250 million sq. ft. on three shift basis. Besides, there are a large number of unapproved factories with an estimated capacity of about nine million sq. ft. Actual production of tea-chest plywood in million sq. ft. was 1953 : 50 ; 1954 : 62 ; 1955 : 91·13 ; 1956 : 98·33 ; 1957 : 95·02 ; 1958 : 87·64 ; 1959 : 100·96 ; Jan.-July 1960 : 6·08 million sq. metres.

Protection has been withdrawn from 1st January 1961.

Razor Blades : The actual production of razor blades in 1957 was about 336·48 million. The total installed capacity of the five Indian factories was about 614·6 million in 1957, 629·0 million in 1958 and 650·4 million in 1959. Permission has been granted to open new factories. The production in 1958 was 356·2 million. In 1959 it was 392·7 million and during Jan.-July 1960, it was 320·2 million. By the end of the 2nd Plan it was expected to go up to 650 million blades.

Average monthly production in 1958 by the three factories in Bombay and Calcutta : 25 million blades.

Thermos Flasks : The production of thermos flasks in India, which was just a little over 6,900 dozens in 1951, increased to 53,368 dozens in 1957, 65,000 dozens in 1958, 121,500 dozens in 1959 and 67,500 dozens in Jan.-July 1960.

The production in 1956 was 48,336 dozens and in 1955 about 44,000 dozens.

The present demand in the country is estimated at between 60,000 and 70,000 dozens of flasks per year. This was expected to increase to 1,00,000 dozens by the end of the Second Plan period.

There are now six units in the country manufacturing thermos flasks with a total installed capacity of 297,300 dozens per year.

Three units are engaged in the manufacture of ampules by automatic machines. The total capacity of these three units is over 35 lakh ampules per month. Besides these there are a number of small-scale units manufacturing ampules by the table-blowing process.

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Printing Machines : A firm in Coimbatore in Madras State has made a prototype stereo rotary printing machine. The machine is under test. Another firm in Titaghur has been permitted by Government to manufacture flat bed machines. The first batch of machines was expected to be completed by April 1960. As against an annual production of Rs. 5 lakhs in the country the 3rd Plan target is Rs. 3·5 crores. Three more firms have been licensed. Domestic demand during the 3rd Plan is estimated to be Rs. 5 crores.

Typewriters : Production of typewriters, a development of the Second Plan period, has been about 70 per cent higher in 1959 than in 1956. It has been estimated that by 1960-61, production would be of the order of 35,000 typewriters of standard and portable size.

Production 1959 : 21,437. Capacity : 33,000. During Jan.-July 1960, 10,494 typewriters were produced. These are standard typewriters. There are three units. For portables one unit has been licensed. Typewriters are in seven languages : English, Hindi, Bengali, Marathi, Gujarati, Assamese, Tamil.

Watches : A number of new schemes has been sanctioned and is under implementation for the production of time-pieces, clocks and watches. Two units are already producing electric clocks. Two schemes for manufacture of lever clocks are now under implementation. For time-pieces, two schemes with a total capacity of 1·8 lakhs have already been sanctioned and more proposals are under consideration. As regards watches, a scheme in the private sector in collaboration with a group of French firms has been finalised. The collaborators are the consortium of watch manufacturers known as S.E.D.I.M. The venture will be known as Indo-French Pione Industries Private Ltd. (Managing Director : Mr. J. H. Parikh) and will be situated at Goregaon, a suburb of Bombay. It will have an initial capacity to produce 90,000 watches annually, on a single shift basis. This Capacity will progressively be stepped up to 310,000 by the fifth year of production. The price range of the watches is given as Rs. 50 to Rs. 100. The unit will go into production by the end of 1961. A second scheme for setting up a factory in the public sector with the assistance of a Japanese firm is now being finalised. The public sector factory is situated in the vicinity of Hindustan Machine Tools at Bangalore. The foundation stone was laid on Jan. 28, 1961. This factory, which is in collaboration with Messrs. Citizen Watch Co., Ltd., Japan, will produce 240,000 watches on a single shift basis. The plan will cost Rs. 2·5 crores. The selling price is expected to be below Rs. 100 a piece. The capacity of these two schemes would be seven lakh watches every year.

The public sector factory will begin production in 1962.

New Lines of Production : Production of a number of new items like sewing machine needles, band-sewing needles, hypodermic needles, heaving industrial sewing machines, hand-model addressing machines, staples and pressure cookers has already started in the country. Schemes have also been sanctioned to manufacture, for the first time in the country, items like self-lubricating porous borings, electric addressing machines, bicycle tube walls and metallic safety razors, besides timepieces and watches.

It may be added that the exports of engineering goods in general of 1959 recorded an increase of 60 per cent during the first seven months of 1959 as compared with the corresponding period in 1958. The actual value of exports was about Rs. 3·70 crores, as against Rs. 2·29 crores. Exports to South-East Asian countries increased by nearly 100 per cent and amounted to Rs. 1·26 crores, about one third of the total exports. Exports to the U.S.A. recorded an impressive rise, from about Rs. 32 lakhs to about Rs. 78 lakhs. Exports to West Asia, Africa and Europe were also higher. Some of the items where exports increased substantially were sewing machines, electric fans, steel furniture, textile machinery, aluminium ware and diesel engines.

A Rs. 35 lakh Indo-Polish organisation the Electro-Equipment Corporation for the manufacture of metering units, set up in Bombay in the private sector without involving foreign exchange, was expected to go into production in Dec. 1960. The factory was to be located at Mulund on the Bombay-Agra road. On the one-shift basis, the factory would be able to turn out 60,000 pieces a year.

Refractories : There are 42 refractory factories in the private sector with a total capacity of about 7·1 lakh tons per annum. About 20 of these have expansion programmes involving a total additional capacity of 3·44 lakh tons annually. Twenty-two new factories with a total capacity of 11·93 lakh tons per annum have also been licensed. The target fixed under second Plan for refractories was Rs. 12·5 lakh tons as compared with a demand of 10 lakh tons. Production : 1958 : 434,446 tons ; 1959 : 492,994 tons ; and Jan.-July 1960 : 308,600 tons.

The development programme for refractories during the Plan periods is given below.

(In million tons)

1955-56 Production	1960-61 Estimated		Targets for 1965-66	
	Capacity	Production	Capacity	Production
0·28	0·87	0·6	2·0	1·6

Clinical Thermometers : The chief production centre will be the National Instruments Factory (see separate note in 'Government Industrial Undertakings') which in collaboration with Japan will produce 6,00,000 thermometers in 1962-63. At present there is one firm in Amritsar. This has a capacity of 2,16,000 per annum. Its production in 1958 and upto Oct. 1959 was 1·37 lakhs and 1·83 lakhs respectively.

Fountain Pens : The number of pens manufactured during 1959 was 11 to 12 million in the large-scale sector. The small-scale sector, it is estimated, manufactured over 10 million pieces. The value of pens exported during Jan.-Nov. 1959 was Rs. 1,57,000.

Paper Making Machinery : As many as 15 schemes have been approved by the Government. It is expected that within the next three years or so, nearly Rs. 10 crores worth of paper making machinery both of large scale type or small-scale type, would be manufactured.

Tea Machinery : The country is almost self-sufficient. The proposed annual capacity by 1965 is Rs. 1·75 crores.

Jute Mill Machinery : The production target for 3rd Plan is Rs. 2·3 crores as against Rs. 1·75 crores expected in 1960.

NON-FERROUS INDUSTRY

(See also under 'Mines and Minerals'.)

THE position regarding these metals is briefly described below :

(*a*) **Aluminium Ores :**—India is rich in deposits of Bauxite which are estimated at 250 million tons, of which perhaps a tenth is of high grade suitable for the manufacture of Aluminium. These are generally located in the Jabalpur and Balaghat Districts of Madhya Pradesh ; Belgaum District in Mysore ; Kolhapur and Thana Districts in Maharashtra ; Kaira District in Gujarat ; Ranchi Plateau in Bihar ; and Shevaroy Hills in Salem, Madras.

(*b*) **Copper Ores :**—Copper pyrites is the principal ore of copper. The deposits of copper pyrites in India are in Singbhum and Baragunda in Bihar ; Khetri Daribo in Rajasthan ; Sikkim State, Mysore State and in the Salem District of Madras State. Although only the Singbhum deposits are worked at present, the copper belts of Sikkim and Khetri Daribo are very promising and work has commenced for the exploitation of this as well.

(*c*) **Lead Ores :**—Lead ores are known to occur at a number of places in India. The only large deposits now being worked are those of Udaipur State in Rajasthan where lead is found in association with zinc.

(*d*) **Antimony Ores :**—Antimony ore deposits have been found at the Shigree Glacier in Lahaul, Kangra District, Punjab and in the region of Nagpur in Maharashtra State.

(*e*) **Zinc Ores :**—At present zinc deposits are known to occur at only two places in India : Zawar mines in Udaipur and in the Riasin District in Kashmir State. The deposits in Udaipur are being worked.

(*f*) **Tin Ores :**—Hazaribagh, Bihar.

The requirements of non-ferrous metals by the end of the 3rd Five Year Plan are estimated at Rs. 105 crores as against Rs. 43 crores at the end of the 2nd Plan.

PRODUCTION

There is one smelter working in Singbhum deposits in Bihar with a capacity around 8,000 tons. The production of refined copper in tons is as follows : 1951—7,084 ; 1952—6,079 ; 1953—4,920 ; 1954—7,162 ; 1955—7,282 ; 1956—7,628 ; 1957—7,848 ; 1958—7,841 ; 1959—7,642. The installed capacity of the industry was 7,000 tons in 1947 ; expanded to 7,200 in 1952, since when it has stood at this figure.

An Electrolytic Copper Refinery is being set up by the existing firm with a capacity of 8,400 tons at Ghatsila and a refinery with a capacity of 20,000 tons is proposed in the Public Sector based on Khetri, Daribo deposits in Rajasthan.

For antimony there is only one smelter at Bombay working on imported ores with a capacity of 1,000 tons. The production has been as follows : 328 in 1951, 181 in 1952, 130 in 1953, 539 in 1954, 504 in 1955, 589 in 1956, 502 in 1957, 545 in 1958 and 663 in 1959. The rise in production is due to adjusted demand.

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There is a lead smelter at Katrasgarh in Bihar with a capacity of about 6,000 tons per annum. The Company has set up an ore dressing plant at the Udaipur mines which will reduce the weight of the ore to be transported. The capacity of this plant is reported to be 9,000 to 10,000 tons of lead concentrates of 60 to 65 per cent. lead and 7,000 to 8,000 tons of zinc concentrates averaging 55 per cent. zinc. There are also lead refineries in Bombay and Calcutta, which started working in 1955. The production of lead in tons is as follows: 1951—859; 1952—1,132; 1953—1,694; 1954—1,788; 1955—2,234; 1956—2,497; 1957—3,174; 1958—3,335; 1959—3,896, rise being due to the immense availability of ore. There are two units refining lead from battery lead scrap to the extent of 600 to 800 tons annually. Zinc metal is not produced in India though zinc concentrates are produced and exported on a toll basis to Japan for refining.

A zinc smelter is proposed to be set up with a capacity of 15,000 tons in Udaipur during the 3rd plan period. Lead production will be simultaneously increased to 9,000 tons. Two additional smelters for lead and zinc based on imported ores are also under the consideration of the Government.

Tin is not produced in India though there is a de-tinning industry.

SEMI-MANUFACTURES

The greatest progress in the non-ferrous industry made since 1939 is in regard to the semi-manufactures.

Aluminium Sheets, Strips, Circles: There are eight units registered with the Development Wing for a total capacity of 17,000/18,000 tons. Production: 1957—11,030 tons; 1958—13,580 tons; 1959—15,946 tons.

Brass/Copper Sheets, Strips, Circles: There are 17 units mainly in Bombay,* registered with the Development Wing for a total capacity of 45,000/46,000 tons. Production: 1957—20,735 tons; 1958—19,547 tons; 1959—22,456 tons.

Lead Sheets: There is only one unit registered with the Development Wing. Total capacity 1,092 tons. Production: 1957—43 tons; 1958—85 tons; 1959—55 tons.

Zinc Sheets: There are four units registered with the Development Wing for a total capacity of 5,700 tons. Production: 1957—1,799 tons; 1958—2,072 tons; 1959—2,498 tons.

Brass/Copper Rods including Arsenical Copper Rods, Sections, Brass, etc.: There are three units registered with the Development Wing with a total capacity of 5,240 tons. Production: 1957—1,775 tons; 1958—2,069 tons; 1959—2,105 tons. Two more units have recently commenced production.

Brass/Copper Pipes: There is only one unit registered with the Development Wing with a capacity of 360 tons. Production: 1957—63 tons; 1958—60 tons; 1959—51 tons.

Lead pipes and tubes: There are altogether three units with a capacity of 4,800 tons. Production: 1957—335 tons; 1958—339 tons; 1959—606 tons.

Aluminium Extrusions: There is only one unit registered with the Development Wing, with a capacity of 960 tons. Production: 1957—738 tons; 1958—1,093 tons; 1959—1,233 tons. One more unit has commenced production of seamless aluminium tubes.

Aluminium Foils: There is only one unit registered with the Development Wing with a capacity of 3,000 tons. Production: 1957—1,354 tons; 1958—1,581 tons; 1959—1,925 tons. Aluminium and lead foils for tea-chests are also manufactured in the Calcutta area.

Alloys: Fifteen units have been registered with the Development Wing for manufacturing different kinds of non-ferrous alloys such as anti-friction bearing metal, bell metal, bronze, gun metal, solders, type metal, antimonial lead, zinc, base die casting alloys etc., with a total capacity of 68,000/69,000 tons. Production: 1957—16,697 tons; 1958—15,404 tons; 1959—16,561 tons.

Cables and Conductors: (*a*) Aluminium conductors: There are five units with a capacity of 23,470 tons. Production: 1957—15,388 tons; 1958—14,387 tons; 1959—14,121 tons.

(*b*) Bare copper conductors: There are five units registered with the Development Wing with a capacity of 17,800 tons. Production: 1957—8,554 tons; 1958—7,482 tons; 1959—6,581 tons.

(*c*) Rubber and plastic insulated cables and flexibles: There are ten units with a capacity of 279·30 million yards. Production: 1957—103·85 million yds.; 1958—128·75 million yds.; 1959—166·05 million yds.

(*d*) Winding wires: There are eight units with a capacity of 4,669 tons. Production: 1957—1,016 tons; 1958—2,078 tons; 1959—2,835 tons.

Protection has been withdrawn for copper and brass sheets (commercial and industrial), lead sheets for tea-chests and lead strips with effect from 1st January 1960. Protection has, however, been extended for a further period of three years from 1st January 1960 for lead sheets other than sheets for tea-chests, zinc sheets not otherwise specified, zinc strips, copper rods other than electrolytic copper rods, brass rods, copper pipes and tubes, and brass pipes and tubes.

The protective duty on Antimony Industry has been extended till 31st December 1963 subject to a review by the Commission in 1961 and has been reduced to 45 per cent. or Rs. 45 per cwt. whichever is higher. The existing protective duty of 25 per cent. *ad valorem* on crude antimony is to be maintained. Protection to H.D.B.C. has been withdrawn and protection of A.C.S.R. and A.A.C. is being continued at 35 per cent *ad valorem* for a further period of 3 years up to 31st December, 1963.

ALUMINIUM

Aluminium is the only non-ferrous metal which India can produce in large quantities because of extensive deposits of bauxite and adequate supplies of bulk power. There are two units: The Indian Aluminium Co. Ltd., and the Aluminium Corporation of India Ltd. The principal activities of these companies are: (1) the mining of bauxite in the Lohardaga region of Bihar; (2) the processing of bauxite ore to alumina at Muri, Bihar; (3) the electrolytic reduction of alumina to aluminium metal at Alwaye, Kerala and Hirakud, Orissa; (4) the rolling of aluminium metals to sheets and circles at Belur, W. Bengal; (5) the manufacture of aluminium powder and paste at Kalwa, Maharashtra and (6) the manufacture of extrusions at Alwaye, Kerala. The Aluminium Corporation has an integrated plant near Asansol.

There are two companies operating three smelters with a total capacity of 18,100 tons.

The production of aluminium in tons since 1951 is as follows: 1951—3,848; 1952—3,566; 1953—3,758; 1954—4,886; 1955—7,225; 1956—6,501; 1957—7,784; 1958—8,044; 1959—17,248.

Except bauxite and coal, most of the other raw materials are available only partly or not at all from indigenous sources. Caustic soda and soda are not produced in enough quantities, cryolite, aluminium fluoride, carbon blocks and filter cloth have to be imported, and the possibilities of producing cryolite in this country are yet to be investigated.

The demand for aluminium has been estimated at 1,00,000 tons by 1965-66. The handicaps of the industry are the small capacity of the units, the inherent refractory nature of Indian bauxite which costs more to mine, the low alumina content of Indian bauxite, the high cost of electric power, the cost of railway freight and expensive raw materials such as petroleum coke.

To meet the increased demand, there are different schemes for the expansion of the industry under the Third Plan. The Indian Aluminium Co., Ltd., Calcutta has set up an aluminium smelter at Hirakud. The factory has an installed capacity of 10,000 tons of aluminium ingots per year.

The company has now undertaken to increase the production capacity of the Hirakud Smelter to 20,000 tons.

Production at the Company's Alupuram Smelter in Kerala State is about 5,600 tons of ingots per annum. The Aluminium Corporation of India has also programme to raise the capacity of Asansol Plant to 7,500 tons per annum.

Besides, three additional smelters are proposed to be set up at Rihand in U.P., Koyna in Maharashtra and Salem in Madras by Messrs. Hindustan Aluminium Corpn. Ltd. (a Birla-Kaiser undertaking), Messrs. Tendulkar Industries Ltd., (in collaboration with Alcoa) and Madras Aluminium Co. Ltd., (in collaboration with Montecatinni, Italy) with capacities of 20,000 tons, 20,000 tons and 10,000 tons respectively. With the completion of all these schemes the capacity in the country at the end of Third Plan period will be 83,100 tons.

Protection to the industry will continue till Dec. 31, 1964 and the existing rate of 35 per cent *ad valorem* would be maintained.

IMPORTS OF NON-FERROUS METALS

	1958	Jan.-Aug. 1959
Aluminium (Cwts.)	240,911	155,986
Aluminium, unwrought (Cwts.)	142,295	86,859
Brass, Bronze, etc. (Cwts.)	29,414	27,327
Copper (Cwts.)	29,548	13,244
Copper, unwrought (Cwts.)	957,739	499,929
Copper old for remanufacture (Cwts.)	N.A.	N.A.
Ferro Alloys (Tons)	1,081	1,380
Stainless steel (Tons)	1,981	2,013
Lead (Cwts.)	429,509	306,236
Tin (Cwts.)	101,882	53,555
Zinc (Cwts.)	1,190,654	708,957

Value of imports of non-ferrous metals during 1958, 1959 and 1960 respectively is as follows:

Ores of Non-ferrous base metals and concentrates: Rs. 67,09,934; Rs. 61,54,666; Rs. 28,75,538; Non-ferrous metal scraps: Rs. 99,09,039; Rs. 1,54,38,228; Rs. 1,94,52,253; Aluminium: Rs. 5,99,76,866; Rs. 5,93,72,201; Rs. 3,90,21,901; Copper: Rs. 13,52,62,002; Rs. 16,38,09,797; Rs. 19,20,04,560; Lead: Rs. 2,28,53,483; Rs. 2,40,76,588; Rs. 2,22,32,167; Nickel: Rs. 60,52,139; Rs. 79,41,868; Rs. 1,10,96,665; Tin: Rs. 4,79,00,881; Rs. 4,76,71,509; Rs. 3,39,55,033; Zinc: Rs. 6,11,58,633; Rs. 5,27,94,178; Rs. 7,47,99,525; Miscellaneous Non-ferrous base metals: Rs. 42,21,275; Rs. 53,78,907; Rs. 59,04,898.

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OPIUM INDUSTRY

THE area under poppy cultivation for the production of opium and the quantities of opium produced during the opium years (1955-56 to 1958-59) are given below :—

	Opium year	Area Cultivated (Acres)	Produce at 70° Mds.
Uttar Pradesh	1955-56	12,531	2,324
	1956-57	19,331	3,763
	1957-58	18,592	4,165
	1958-59	18,894	4,725
Madhya Pradesh ..	1955-56	18,535	4,094
	1956-57	22,420	5,211
	1957-58	27,617	8,089
	1958-59	33,783	9,540
Rajasthan ..	1955-56	12,114	2,821
	1956-57	17,565	3,977
	1957-58	17,725	5,318
	1958-59	21,527	6,127

N.B. :—The opium year starts on 1st October and ends on 30th September.

During the year 1959-60 the total area under poppy cultivation in the country was 105,250 acres and the production was 24,491 maunds.

The purchase price of opium was fixed on a sliding scale ranging from Rs. 33·50 to Rs. 38·50 per seer. Payment made to the cultivators amounted to Rs. 3·4 crores during 1959-60 as against Rs. 2·7 crores in the previous year.

Only a small percentage of the opium is sold to the State Governments after processing, and the balance is exported for medicinal and scientific purposes. Some opium is also supplied to Pakistan for quasi-medical purposes.

Poppy is generally cultivated and does not grow in a wild state. In India, cultivation of poppy for the production of opium is carried on by growers licensed by the Government, on behalf of the Government of India, who undertake to sow the poppy, lance the capsules, collect the latex, and deliver the drug at the weighing centre at a price fixed by the Government of India.

The opium purchased from the cultivators is sent to the Government factories at Ghazipur or Neemuch, where it is chemically tested and prepared for export and internal consumption. The factories made a net profit of Rs. 109 lakhs during 1959-60.

In addition to being a narcotic, opium is used in many essential medicinal drugs. Because of its harmful effect as a dope, the Central and State Governments have adopted various measures to put an end to normal traffic ; at present only a very small fraction of the population makes habitual use of the drug.

Poppy cultivation for the purpose of production of opium is confined to the States of Uttar Pradesh, Madhya Pradesh and Rajasthan. The cultivation in the Territory of Himachal Pradesh was discontinued with effect from 1st October, 1954. The cultivation of poppy starts in November and the crop is harvested in April or May. Preparation of the land for the reception of the seed is a prolonged process, the field being given 10 to 15 ploughing.

The quantities of opium exported during the opium years 1956-57, 1957-58, 1958-59 and 1959-60 are given below :—

Opium Year	Exports (in tons)
1955-56	245-7/14
1956-57	331
1957-58	443
1958-59	519·5
1959-60	624

The value of export of opium in 1956-57 was more than Rs. 2 crores as against Rs. 1·6 crores in 1955-56. More than half of the export went to the United Kingdom. Export 1959 : Rs. 3·43 crores. Export 1959-60 : Rs. 4·59 crores.

At a Conference of the State Governments held in 1949 it was decided to reduce the supply of opium to the States at the progressive rate of 10 per cent every year so that the supply of opium to the public for oral consumption (for non-medical or quasi-medical purposes) might be completely stopped with effect from 1st April, 1959. This decision was reiterated by the All India Narcotics Conference held in September, 1956.

This decision was to become effective from the date mentioned above in pursuance of India's international obligations.

After 31st March, 1959, opium was, however, to be supplied to registered opium addicts through Government Depots on medical permits issued by the appropriate medical authorities.

The quantities of excise opium supplied to the State Governments during the financial years 1955-56 to 1958-59 are given below :—

Financial Year	Mds.	Srs.	Chts.
1955-56	1,734	34	8
1956-57	1,267	0	0
1957-58	722	0	0
1958-59	360	0	0

In 1944, the Central Government erected an Alkaloids Plant at the Ghazipur Opium Factory for extraction and manufacture of various alkaloids from opium.

The quantities of various alkaloids exported and sold in the internal market during the opium years 1955-56 to 1958-59 are given below :—

Opium Year	Quantity exported			Quantity sold in internal market		
	Lb.	oz.	dr.	Lb.	oz.	dr.
1955-56	760	8	0	2,556	13	8
1956-57	1,253	0	0	3,355	0	0
1957-58	316	0	0	3,355	0	0
1958-59	Nil			3,775	0	0
1959-60	—			4,553	0	0

Illicit traffic in narcotics : In order to make prevention and detection of illicit traffic in narcotics more effective, the States have been grouped into three zones and committees have been constituted in each zone to co-ordinate anti-smuggling activities, in accordance with the recommendations of the All India Narcotics Conference held in 1956.

On the eve of the introduction of the total prohibition of opium consumption, an All India Narcotics Conference, was convened (March, 1959) with a view to taking fresh stock of the situation. Important decisions were taken regarding the registration of opium addicts, the quantum and mode of supply of medicinal opium to registered addicts, the question of de-addiction of addicts, further strengthening of preventive measures to control illicit traffic in this drug.

With a view to further strengthening the hands of enforcement authorities in the struggle against the social evil of addiction, an Opium Laws (Amendment) Act was passed in 1957. This Act makes it obligatory on the part of the Magistrate trying offences under the Opium Act, 1878 and the Dangerous Drugs Act, 1930 not to let off an offender with a mere sentence of fine but to award a sentence of imprisonment. The offences were made cognizable and non-bailable also.

During the year 1959, 7,154 cases of violation of narcotics law involving a quantity of 174 mds 20 srs. of opium were detected by the various enforcement authorities in the country.

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PAPER INDUSTRY

THE bulk of the production comprises the more common types of paper, especially printing and writing paper. The manufacture of superior varieties is also undertaken but on a restricted scale.

The following table gives the trend of production :—

(In thousand tons)

	1955–56	1956–57	1957	1958	1959	Jan.-July. 1960
Printing & Writing	148·83	153·51	126·52	154·42	169·88	106·35
Wrapping	36·37	40·01	38·02	40·02	63·43	33·06
Special Varieties	7·15	7·50	7·20	6·30	6·35	4·20
Paper Boards	39·52	43·14	38·40	52·26	58·82	28·10
Total	231·87	244·26	210·14	253·02	298·48	171·71

Production of paper in 1959 reached the level of 2,98,481 tons. Production of paper and paper board during the first half of the year 1960 is put at 173,000 tons. By the end of the 2nd Plan it is expected to go up to 4·3 lakh tons.

The aggregate installed capacity of the paper industry in 1959 is 321,000 tons, as against 268,600 tons in 1958 and 211,896 tons in 1956.

Value of production of paper and paper products in 1959: Rs. 20·41 crores. Quantity: 298,480 tons.

The gross fixed investment in the industry during 1951-56 was estimated at about Rs. 11 crores and it found employment for about 88,000 persons. The productive capital employed during 1957 was Rs. 33·34 crores as compared with Rs. 29·28 crores in 1956. The workers employed during 1957 was 31,601 as against 29,919 in 1956.

In April 1956, the annual rated capacity of the paper and paper-board industry stood at about 210,000 tons. This capacity is exclusive of the capacity of the Travancore Rayons for transparent paper estimated at 1,800 tons per annum. Newsprint was not manufactured in the country at the beginning of the First Plan. Since then, the State-aided Nepa Paper Mills has been established. But the production target of 27,000 tons has not been reached and the production of newsprint in 1959 is put at 19,755 tons, as against 21,708 tons in 1958, and 14,515 tons in 1957. In regard to straw-boards, there are now 24 units with an annual capacity of 310,900 tons. If the scheduled expansions in paper industry materialise, its annual capacity will rise to 359,800 tons by the end of 1960 and to 417,700 tons in 1961 (inclusive of output by a new unit which is expected to go into production by then). The demand for paper will also go up every year. It was 350,000 tons in 1960 and is likely to be of the order of 400,000 tons in 1961 and 520,000 tons in 1962. Several new companies have been licensed for the establishment of capacity for the manufacture of paper. They will augment the capacity by 114,060 tons, but will go into production only after 1961.

The State-wise distribution of the paper and paper-board industry early in 1960 is given below :—

State.	No. of units.	Annual rated capacity (tons).
West Bengal	6	88,200
Bihar	1	48,000
Orissa	2	62,000
Uttar Pradesh	2	10,500
Punjab	2	19,200
Bombay*	6	30,000
Andhra	2	20,000
Mysore	2	26,000
Kerala	1	7,000
	24	310,900

The Bihar Government has sanctioned the establishment of a Rs. 4 crore paper mill at Darbhanga with a daily capacity of 100 tons. Ten more paper mills are proposed to be set up in North Bihar, each having a capacity of 10 tons per day.

The Government of India has granted licences to five parties for setting up paper mills in Darbhanga, Samastipur, Sakrigalighat, Barauni and Dinapur in Bihar. The total annual production of these mills is estimated at about 29,000 tons.

Imports of paper and paper-board in the recent years are as follows :—1956–57—26 lakh cwt. 1957 (calendar year)—20·85 lakh cwt. 1958—14·47 lakh cwt. 1959: 18·47 lakh cwt. 1960 (Six months ended Sept. 60) 10·58 lakh cwt.

Exports have not been appreciable in the past. During 1958, the export was 40,178 cwt. as against 37,926 cwt. in 1957 (calendar year). During 1959, the export was 32,400 cwt. and 1960 (Six months ended September 1960): 12,171 cwts.

Paper and paper pulp had protection from 1925 to April 1947.

The Tariff Commission in its report submitted to the Government in 1959, recommended a substantial reduction in the ex-works and selling price of paper and paper boards and fixed fair prices of paper and paper boards of 24 varieties.

The Commission's recommendations were accepted by the Government. The new prices came into force from January 1960.

The prices of white printing and cream laid papers have now been fixed at 68 nP. and 71 nP., respectively, excluding excise duties and local taxes, as against the previous existing ex-mill price of 73·5 and 74·5 nP. and their selling price at Re. 1 and Re. 1·25, respectively. These prices, which do not include selling expenses, freight or selling commission, are applicable in accordance with existing practice to Government purchases.

In order to meet the existing shortage of paper, the Government has authorised the State Trading Corporation to negotiate import of a large quantity of writing and printing paper. The Corporation was expected immediately to arrange for the import of 25,000 tons of paper of these varieties from countries having rupee payment arrangements with India.

The Tariff Commission recommended several measures for expanding paper production in the country and creating new capacity to meet the increasing demands. It also suggested steps to tighten up the distribution system to keep a check on the prices. The Tariff Commission recommended that the Government should take early steps to make technical assessment of the capacity of each unit in terms of several types of paper and paper boards and production should be planned in such a way as to rectify the imbalance in the pattern of production which had developed during the last few years.

The possibility of permitting long-term leases of forests to paper mills was suggested by the Commission. It recommended that establishment of pulp manufacturing units independently of paper mills and direct supply of waste paper in bulk quantities from the Government departments to mills, instead of through intermediate dealers, should be encouraged.

In its resolution on the Commission's report, the Government of India announced that it would take necessary steps to implement the recommendations.

DEVELOPMENT PROGRAMME

A new factory to manufacture high-grade printing and writing papers using sugarcane bagasse as the primary raw material is being set up near the Krishnarajasagar Dam in Mysore State by the Mandya National Paper Mills Ltd. in collaboration with Messrs. Parsons and Whittemore Lyddon Organisation, U.S.A. The initial production capacity of the factory will be about 35 tons per day.

The Union Government have also approved and granted licence for 11 new schemes for production of paper by small units. Foreign exchange requirements for these schemes will be about Rs. 22 lakhs and the annual total production capacity will be about 21,200 tons.

Distribution of these units: Three units in Bombay* with an annual capacity of 7,200 tons; three new mills in UP. with total annual capacity of 4,200 tons; two in Punjab with a total annual capacity of 2,700 tons; three in West Bengal with a capacity of 7,000 tons per year.

At the beginning of the 2nd Plan there were 23 units for producing straw and mill boards with a total capacity of 70,000 tons. Nine new units and six expansion schemes with additional capacity 45,000 to 50,000 tons had since been licensed. With the implementation of these Schemes, the indigenous capacity would increase to 1·2 lakh tons. There are two units producing tissue paper.

In the report submitted in December 1959, to the Government of India, the Tariff Commission has estimated the demand for paper and paper board (excluding newsprint and straw board)

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during 1960, 1961, 1962 and 1963 as of the order of 3,50,000 tons, 4,00,000 tons, 4,60,000 tons and 5,20,000 tons, respectively.

The demand for paper and paper board has developed at a rather faster rate than was visualised in the Plan. The Second Plan envisaged the establishment of three hard-board factories. Of these, one, namely, Anil Hardboard Ltd. in Bombay, went into production in November 1958. The annual capacity of this factory is 6,000 tons. The other two factories now being set-up are the 6,000 tons Madhya Pradesh Industries Ltd. and the 3,700-ton Western Indian Plywood Ltd. at Ballapatam.

The progress made by the paper industry during the First and Second Plan periods and the targets set for it in the Third Plan Draft Outlines are indicated below:

(In '000 tons)

	Paper and paper board	Newsprint	Security paper (In tons)
1950-51 production	114	..	..
1955-56 Capacity	210	30	..
1955-56 Production	187	4·2	..
Second Plan targets:			
1960-61 Capacity	450	60	..
1960-61 Production	350	60	..
1960-61 Capacity (anticipated)	363	30	..
1960-61 Production (anticipated)	320	28	..
1965-66 Target Capacity	820	120	1,500
1965-66 Target production	700	120	1,500

During the First Plan period, the consumption of paper and paper-board increased on an average by about 8 per cent. per annum. It showed a progressive increase of 10 per cent during the Second Plan. On this basis, the demand by 1960-61 might have been about 350,000 tons. The demand for newsprint went up to 120,000 tons, and that for strawboards and other boards to 40,000 tons by end of the Plan period. A sum of Rs. 44 crores over and above the investment of about 4·25 crores in public sector projects was invested in the paper and paper-board industry during the Plan period, to achieve the target capacity of 450,000 tons. The investment on newsprint factories was Rs. 6 crores for 60,000 tons. An increase in the production of paper to the extent of 700,000 tons is envisaged during the Third Plan period, *i.e.*, by 1965-66.

NEWSPRINT

The National Newsprint and Paper Mills Ltd. (NEPA) is India's first newsprint mill. (For details see under Government Industrial Undertakings.)

A scheme for another newsprint factory is under the consideration of the National Industrial Development Corporation. This is to be established at Shakarnagar in Andhra. It would have a capacity of 100 tons a day.

It is proposed to develop the indigenous capacity for manufacturing 1,20,000 to 1,50,000 tons of newsprint annually by the end of the Third Plan period.

This would meet 75 per cent of the country's requirements. It is estimated that Rs. 15 crores will be required for the implementation of this programme. Part of the expansion will be in the public sector project located at Nepanagar in Madhya Pradesh, where an additional production of 30,000 tons is envisaged. Two newsprint plants in the private sector are proposed to be located in Maharashtra State. The capacity of these two units will be 60,000 tons per annum.

The production of indigenous newsprint was 2,563 tons in 1955, 10,781 tons in 1956, 14,515 tons in 1957, 21,708 tons in 1958 and 19,755 tons in 1959. The fall in production was due to overhauling and paper shortage.

The demand for paper in 1959 is estimated at 80,000 tons a year and was expected to rise to 1,20,000 tons at the end of the Second Plan.

The import of newsprint was as follows: 1955: 73,600 tons, 1956: 71,450 tons, 1957: 63,750 tons, 1958: 57,470 tons, 1959: 74,538 tons.

The main supplying countries are Canada, Finland, Norway and Austria.

PLASTICS INDUSTRY

THE Indian plastics industry is a post-war development and, during the first 10 years of its existence, the industry developed in the processing sector with the help of imported raw materials, machinery and moulds. But, at present, the main raw materials such as P.F. moulding powder, U.F. moulding powder, polystyrene, polythylene, P.V.C. sheeting, nylon monofilament and laminated sheets are manufactured in the country. The plastics industry has now over 150 factories operating on modern lines, in addition to innumerable small ones working on small-scale or cottage industry basis. The capital invested by the industry is reckoned at nearly Rs. 22 crores and the industry provides employment to about 25,000 workers.

In terms of value, the production of plastic goods in 1960 was Rs. 20 crores, as against Rs. 1 crore in 1947. According to one estimate, the value of production of plastic goods will be of the order of Rs. 100 crores in 1965-66.

The machine capacity of the industry at present is estimated as under:—

Compression moulding: 35,000 tons; injection moulding 1,200 ounces; extrusion: 200 inches and surface coating: 10 units.

The protection for P.F. moulding powder has been continued at the existing level of duty of 35 per cent *ad valorem* upto 31st Dec. 1962, and the protection granted upto 31st Dec. 1959 for plastic buttons has been discontinued.

There are six units manufacturing polyvinyl chloride (PVC) plastic coated cables, wires and flexibles with an annual capacity of 11 million yards. Six units are manufacturing leather cloth with a capacity of 8·7 million yards per annum. There is one unit producing phenolic resin laminates, with a capacity of 450 tons per annum. There are six units manufacturing polythylene films, layflat tubings and have an aggregate capacity of 837 tons.

The trend of production of compression and injection moulded goods since 1955 is given below:—

Year	Production (million gross)
1955	2·48
1956	3·70
1957	3·80
1958	4·50
1959	5·24

The present position of the plastic goods is shown below. Figures relate to 1959.

Processes	No. of units	Installed capacity	Production
Compression moulding	48 (major units)	14,110 tons	5·24 million gross articles
Injection moulding	N.A.	1,200 oz.	N.A.
Extrusion:			
Polyethylene films and layflat tubings	6	837 tons	1,035 tons.
P.V.C. unsupported sheets	2	1,232 tons	718 tons
Lamination	1	450 tons	455 tons
Coating:			
Leather cloth P.V.C.	6	8·70 mil. yds.	5·19 mil. yds.
Leather cloth nitrocellulose	1	0·45 „ „	0·40 mil. yds.

The production of P.F. moulding powder has been steadily increasing. The relevant figures are given below:

Year	Production (lbs.)
1955	1,600,800
1956	1,980,000
1957	2,631,600
1958	2,837,700
1959	3,857,280
1960 Jan.-July	1,196,200 (Kgms).

The annual installed capacity of the P. F. moulding powder sector in 1959 was 3,360,000 lbs.

The articles now manufactured cover a wide range of household consumer and utility items, electrical accessories, telephone equipment, gramophone records, insulated wires, combs, toys, tooth brushes, spectacle-frames, hand-bags, leather cloth, packaging materials, films, industrial items and accessories for automobile engineering, radio and air-conditioning industries. Production of mechanised toys has been an important achievement in recent years.

The consuming capacity of the industry in respect of raw materials is about 3,000 tons of Thermosetting moulding powders and about 6,000 tons of Thermoplastic moulding powders. A large part of the raw material is imported. Phenol formaldehyde moulding powder, phenol and formaldehyde and alkyd resin are manufactured in the country out of imported basic materials. At present, three concerns, Industrial Plastics Corporation, Plastic Products of India, Satara and Indian Plastics, Kandivli, all in Maharashtra manufacture phenol formaldehyde moulding powder with a combined capacity of 1,182 tons per annum.

The machinery installed in the industry is almost wholly imported.

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THIRD PLAN PROGRAMME

The plan for plastics materials is to raise the capacity which was expected to be of the order of 21,000 tons at the end of the Second Plan (1961) to 85,000 tons in the Third Plan (1966) at an estimated investment cost of Rs. 35-40 crores. The production target is placed at 74,000 tons, of which at least 10,000 tons of material as such or converted will be for export. Roughly 12,000 tons of thermosets, principally phenolics ureas and polyesters and 62,000 tons of thermoplastics (of which 50,000 tons would be polyolefeins, polystyrene and P.V.C. and 12,000 tons mainly polymethylmethacrylate, Nylon 6, cellulose acetate and polyvinylacetate) are proposed by the end of the Third Plan.

Indigenous fabrication of processing equipment and tools will be tailored for a consumption of 60,000 tons of material. It has been estimated that 350 presses of different sizes for compression moulding and lamination can handle 11,000 tons of thermosets. 350 extruders would convert 22,000 tons of thermoplastics into extruded products, besides, compounding 16,000 tons for injection moulding by 800 machines of varying capacities. The value of 1,500 machines and presses inclusive of replacements required for the period of the Plan together with auxiliary equipment such as predryers, preformers, tumbling barrels, scrap grinders, haul off for extruders, mould temperature controllers and other miscellaneous equipment for vacuum forming, vacuum metallising, hot stamping, embossing and printing rollers, heat welding machines, automatic blow moulding equipment, lamination presses, rotational casting machines, etc. would be around Rs. 10 crores. The miscellaneous equipment will cater to foaming, blowing, coating, calendering, casting and fabrication of 11,000 tons of thermoplastic materials.

The requirements of moulds for compression and injection moulding will progressively increase from 800-1,000 in the beginning of the Plan to 3,500-4,000 by 1966—an average of 2,500 moulds per year. As many as 2,500-3,000 dies for extrusion will also be required in the period of the Plan—an average of 500 dies annually. The value of moulds and dies required over the whole period may be put at Rs. 7—8 crores. Alloy steel for the construction of moulds would also become available by the end of the Plan.

IMPORTS, EXPORTS

The imports of plastic raw materials, plastic manufactures and leather cloth are given below :

(Rs. lakhs)

	(Calendar year) 1956	1957	1958	1959	1960 April-Sept.
Synthetic Resins & Moulding Powder	307·74	285·02	342·30	452·71	283·17
Semi-fabricated Plastic materials	129·49	150·14	87·96	37·07	3·66
Finished Plastic goods	N. A.	N. A.	5·44	12·54	5·98
Leather Cloth	N. A.	N. A.	0·18	1·38	N. A.

N.A. Not available.

By 1961 the plastics processing industry was expected to obtain locally all the three important raw materials *viz.* polystyrene, polythene and P.V.C. to the extent of at least 16 million pounds.

The Government has licensed two schemes of total capacity of about 14 million pounds for the manufacture of polythene. One of the plants was commissioned in 1959 and the second in 1960. The scheme for the manufacture of P.V.C. from calcium carbide had been finalised and the plant was expected to commence operations before the end of the Second Plan period. Two thousand tons of urea for urea resin and moulding powder were available from Sindri by the end of 1958.

A Development Council for oil-based and plastics industries has been set up to advise the Government of India on various matters concerning development of soaps, paints and plastics industries.

The country is now an exporter of plastic goods. The following is the yearly exports of plastics from India :

Year	Rs. lakhs
1956-57	7·41
1957	12·47
1958	9·98
1959	17·13
1960 (April-Sept.) ..	3·01

In order to encourage exports, an Export Promotion Council was set up in 1955. The Government also allows rebate of import duty at specified rates on raw materials used in the manufacture of plastic goods intended for export. At present the concession is given on urea formaldehyde, cellulose acetate/cellulose acetate butyrate and polystyrene moulding powders.

Ceylon leads other countries in import of Indian plastic goods. The other importing countries include Burma, Kuwait, Kenya, Saudi Arabia, Tanganyika, Mauritius and Mozambique.

RAYON INDUSTRY

THE rayon industry is a post-war industry. The first three plants established are Travancore Rayons Ltd., Perumbavoor, the National Rayon Corporation Ltd., Kalyan, Bombay, with an annual production capacity of 4 million lbs. and 7·9 million lbs. respectively of filament yarn and the Sirsilk Ltd. in Andhra Pradesh with a production capacity of 4·0 million lbs. based on the cellulose acetate process. The first came into production in July 1950 and the second in February 1951. Both the factories have adopted the viscose process. The third started production in 1954.

During 1959, four units were engaged in the production of continuous filament viscose rayon yarn, with an aggregate installed capacity of 17,800 metric tons; actual output was 15,074 metric tons. In the same year, one firm with a capacity of 1,800 metric tons produced 1,615 metric tons of continuous filament acetate rayon yarn. One firm with a capacity of 21,600 metric tons produced 20,512 metric tons of viscose staple fibre and another with a capacity of 1,800 metric tons produced 1,670 metric tons of cellophone.

YARN

Rayon filament yarn is used for the manufacture of many types of fabrics and is also used in manufacturing hosiery and knitted goods, gas mantles, embroideries, automobile tyres. The internal demand for rayon yarn far exceeds the indigenous production capacity, the gap being filled by imports. In 1959, total consumption of rayon yarn was estimated at 72·24 million lbs. out of which 36·22 million lbs. were produced indigenously and 36·02 million lbs. imported at an estimated cost of about Rs. 9 crores. The following table indicates the gap between consumption and production and how it was bridged during the four years ended 1959 and in the first half of 1960 :

(Quantity in thousand lbs.)

	Total consumption	Indigenous production	Imports	
	Quantity	Quantity	Quantity	Value (Rs. in crores)
1956	79,717	19,848	59,869	17·40
1957	71,846	24,986	36,860	13·00
1958	67,278	33,598	33,680	10·91
1959	72,239	36,223	36,016	8·94
1960 (Jan.-June)	43,652	20,782	22,870	6·80

The consumption of viscose rayon yarn is estimated to have reached 80 million lbs. by 1960-61. The production target under the second Plan had been fixed at 60 million lbs. Thus there was a gap of 20 million lbs. to be covered by imports.

Three new rayon yarn producing companies are the Indian Rayon Corporation, the Baroda Rayon Corporation and the South Indian Viscose.

The Indian Rayon Corporation is putting up the plant at Veraval, about 200 miles west of Bombay at a total capital outlay of Rs. 3·32 crores. The Company has entered into agreements with Messrs. Von Kohorn International Corporation (who, jointly, with the Financial and Development Fund, Inc., of the U.S., have agreed to invest $825,000 or Rs. 40 lakhs in equity capital), Messrs. Von Kohorn International (London) Limited and Messrs. Von Kohorn Eastern Corporation Limited, under which the entire plant and machinery for the Company's factory have been designed and supplied from the U.S. and the U.K. The factory was expected to commence trial production in September 1960 and go into full production by the end of 1960. The initial capacity of the factory will be 5 tons of rayon yarn per day which will be expanded gradually to 10 tons. The bulk of the production, it is said, will consist of finer counts of yarns—100 deniers and below—which are not being manufactured in India at present and which are largely imported. The manufacture of staple fibre and other viscose

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and synthetic fibre products may also be undertaken at a later stage. The factory will employ directly about 1,000 persons and produce goods worth approximately Rs. 3 crores annually.

The Baroda Rayon Corporation's plant is being set up at Udhana near Surat and the plant will have a capacity of 6¼ tons per day for the manufacture of continuous filament Rayon. Besides, the company will also manufacture 20 tons of sulphuric acid per day, five tons of carbon disulphide and ten tons of sodium sulphate. The plant is likely to go into production by the end of 1961. The cost of the project is Rs. 5·1 crores. The cost of machinery is Rs. 4 crores of which Rs. 3·3 crores c.i.f. Indian port is the foreign exchange component. The balance machinery will be made in India. The major portion of the Japanese machinery will be obtained under the Yen credit agreement.

The Rs. 5-crore rayon factory of the Century Spinning and Manufacturing Company, Ltd., has raised the production capacity from 13 tons of rayon yarn a day to 19 tons per day. The requisite machinery was obtained from Japan under the Yen credit facilities offered by that country. Government's sanction has also been obtained for the manufacture of tyre yarn and nylon yarn. A five-ton tyre yarn plant and a two-ton nylon yarn plant are proposed to be installed and they are expected to be commissioned in about two years' time. The capital expenditure on the expansion of rayon plant capacity, the tyre-yarn plant and the nylon-yarn plant is expected to be of the order of about Rs. 8 to 9 crores.

FIBRE

Before the First Five-Year Plan, there was no plant for staple fibre. The factory of the Gwalior Rayon Silk Manufacturing (Weaving) Co. went into production in February 1954 with a capacity of 15 tons per day (11·2 million lbs. per annum). The present annual capacity is, therefore, about 21,600 tons. The firm produced 5,712 tons of staple fibre in 1955, 7,908 tons in 1956, 8,004 tons in 1957 and 13,908 tons in 1958. Production amounted to 20,532 metric tons in 1959 and 16,241 metric tons in January-July 1960. The First Plan envisaged that consumption would be 14·2 million lbs. in 1955-56. But it averaged a little over 28 million lbs. per annum during the Plan period and it was expected to be about 30 million lbs. in 1955-56.

Another plant with an annual estimated capacity of 8 million lbs. of staple fibre is being set up by the South India Viscose Ltd., in collaboration with Italviscosa Eastern Trading S.P.A., Milan (Italy) at Mettupalayam in Coimbatore district, with a financial outlay of Rs. 8·4 crores.

The investment in rayon yarn industry during the Second Plan period is estimated at Rs. 7 crores. This was inclusive of investment in ancillary plants attached to the rayon units for the manufacture of sulphuric acid, carbon disulphide, etc.

The installed capacity and actual production of the yarn industry during the year 1959 and January-August 1960 are given below :

Article	1959			Production in Jan.-Aug. 1960 (thousand pounds)
	No. of units	Capacity (thousand pounds)	Production (thousand pounds)	
Continuous filament viscose rayon yarn	4	39,249	33,054	26,341
Continuous filament acetate rayon yarn	1	3,969	3,622	2,917
Viscose staple fibre	1	48,380	28,530	31,810
Staple fibre yarn	63	N.A.	27,069	27,506*

* Jan.-Oct. 1960.

FABRICS

Art Silk Weaving Industry : The Development Council for the art silk industry, set up in 1955, suggested a target of 350 million yards of art silk cloth to be achieved by 1960–61, representing an increase of about 20 per cent in the present *per capita* consumption of art silk fabrics.

The Development Council has recommended for inclusion in the Third Five-Year Plan, 880 million yards (inclusive of the quantity required to meet the export demand, as the target of production for art silk, staple fibre and art silk-staple fibre mixed fabrics. This target represents a rise of 480 million yards as compared with the actual output of 400 million yards in 1959.

The targets fixed by the Council for rayon-synthetic yarn and fibre to be achieved by the end of the Third Plan (1965-66) are as under :

		(In million lbs.)
Filament yarn :		
Viscose	(on 120 denier basis)	140
Acetate	,, ,, ,,	24
Cuprammonium	(60 D basis)	10
Synthetic	(30 D basis)	10
Total		184
Staple fibre :		
Viscose		130
Acetate		8
Synthetic		3
Total		141

According to the Council, though on technical basis the minimum economic size of a unit to manufacture viscose-acetate rayon yarn should be eight million lbs. per annum, initially the units may be licensed for four million lbs. capacity which can be expanded later to eight million lbs. Licensing of additional capacity for manufacturing acetate rayon yarn is to be made on the basis of allowing imports of cellulose acetate in the initial stage on the condition that, after a stipulated period, the production of acetate yarn would be based on indigenous cotton linters and alcohol.

The Tariff Commission estimated the number of powerlooms engaged in the production of art silk fabrics in 1958 at 44,500. The industry is big and largely concentrated in Bombay† with as many as 36,641 of the powerlooms. They provide employment to nearly a lakh of workers. The output of fabrics has registered a marked increase. A wide variety of fabrics such as velvet, velveteen, sharkskin, finishing fabrics, etc. are being produced. Licences have been issued for the installation of over 3,500 powerlooms. In addition, there are a number of handlooms producing art silk fabrics and mixed fabrics. Their exact number is not known, but the Tariff Commission estimates it at 17,600. The total capacity of the industry amounts to about 470 million yards on the basis of a single shift.

The production in 1954 was 181·21 million yards; in 1955, 231·16 million yards; in 1956 over 251·86 million yards. The production rose to 279 million yds. in 1957, 328·45 million yds. in 1958, 400·32 million yds. in 1959 and 260·39 million yds. in January-October 1960.

Rayon textiles have emerged as an important earner of foreign exchange for the last two years. The actual value of rayon fabrics exported was Rs. 10·87 crores in 1958-59 and Rs. 2·76 crores in 1959-60. The corresponding figures for exports in the two years were 3·87 million yards and 1·89 million yards, respectively.

The revised export promotion scheme which came into effect on 1st July 1959 provides for the grant of licences for import of art silk yarn upto 100 per cent. of the value of such fabrics and *saris* exported as assessed by the Office of the Textile Commissioner; compulsory pre-shipment examination of the goods meant for export by the Textile Commissioner's Office; and grant of import licences to exporters, including manufacturer-exporters of art silk fabrics and *saris*, as well as processors of art silk yarn, to import permissible types of coal-tar dyes and textile chemicals to the extent of 2 per cent. of the value of exports assessed.

IMPORTS

Imports consisting of rayon yarn, staple fibre yarn and rayon piece-goods were as follows :—

Year	Rayon yarn		Rayon piece-goods		Staple fibre yarn	
	Quantity (million lbs.)	Value (Rs. lakhs)	Quantity (million yds.)	Value (Rs. lakhs)	Quantity (million lbs.)	Value (Rs. lakhs)
1954–55	40·85	12·69	4·12	90·59	0·51	21·75
1955–56	50·78	15·44	9·84	185·12	—	—
1956 (Apr.-Dec.)	47·62	13·74	5·56	101·94	3·02	26·09
1957	46·86	1,299·88*	3·60	99·92	0·63	16·66
1958	33·64	813·77	1·94	33·40	2·71	311·15
1959	44·53	1,122·69	9·24	204·30	3·14	1,385·09
1960 (April-September)	23·88	605·40	1·30	36·10	1·71	145·37

* Includes viscose and other rayon yarns. † Bilingual.

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The programmes of development for the rayon and staple fibre industry envisaged for the Second and Third Plans are summarised below:

	1955–56		1960–61		1960-61 (Actual position estimated)		1965-66 (Targets)	
	Annual Capacity	Production	Annual Capacity	Production	Annual Capacity	Production	Annual Capacity	Production
Rayon Filament (Million lbs.)	22·3	15·9	68·3	68·0	52·3	47·0	140·0	140·0
Staple Fibre (Million lbs.)	16·0	13·2	32·0	32·0	48·0	42·0	75·0	75·0
Chemical Pulp (Tons)	..	..	30,000	30,000	Nil	Nil	100,000	90,000

RUBBER INDUSTRY

INDIA produced 24,173 tonnes of raw rubber during 1959-60 as against 24,169 tonnes in 1958-59 constituting a little over one per cent of the world output.

Of an area of about 305,400 acres under rubber cultivation at the end of 1959, nearly 94 per cent is located in the State of Kerala. Other rubber growing areas are the districts of Kanya Kumari, Coimbatore, Salem, Nilgiris, Madura in Madras State and Coorg in Mysore State.

The total number of rubber estates registered up to the end of 1959 was 55,207.

The following are other details :—

Year	Planted area in acres	Tappable Area (worked out on the basis of year of planting) in acres	Production (Tons)	Average yield per acre in lbs.
1952	172,800	159,500	19,863	279
1953	173,600	163,100	21,136	290
1954	176,600	165,200	21,493	291
1955	207,200	180,400	22,481	279
1956	234,400	178,500	23,444	294
1957	262,000	175,500	23,767	303
1958	286,600	173,600	24,328	314
1959	305,400	172,500	23,398	304

STATEWISE DISTRIBUTION OF THE PLANTED AREA AT THE END OF 1959

(Area in acres)

STATES	Holdings		Estates	
	No. of units	Area	No. of units	Area
Kerala	54,351	175,526	471	112,924
Madras	330	3,103	31	9,528
Mysore	13	232	10	3,717
Andamans	—	—	1	422
TOTAL	54,694	178,861	513	126,591

Areas upto and including 50 acres are classified as *Small Holdings* — (small growers).

Areas above 50 acres are classified as *Large Estates* — (large growers).

The price of rubber was raised to Rs. 155-12-0 per 100 lbs. in Sept. 1955. It remained at that level till March 31, 1961. The price was again revised on March 24, 1961, according to which the price per 50 kgms. of rubber is Rs. 164-80. This revision came into force from April 1, 1961.

With more factories coming into existence every year, the consumption of rubber is increasing.

The quantities actually consumed were:

1953 : 22,389 tons (raw 22,373 ; synthetic 6); 1954 : 25,506 tons (raw 25,487 ; synthetic 19); 1955 : 27,649 tons (raw 27,543 ; synthetic 106); 1956 : 31,405 tons (raw 28,996 ; synthetic 2,409); 1957 : 34,797 tons (raw 31,765 ; synthetic 3,032); 1958 : 38,008 tons (raw 34,756 ; synthetic 3,252); 1959 : 43,005 tons (raw 38,663 ; synthetic 4,342).

Imports of rubber were: 1954 : 3,388 tons (natural 3,371 ; synthetic 17); 1955 : 4,453 tons (natural 3,839 ; synthetic 614); 1956 : 9,269 tons (natural 6,463 ; synthetic 2,806); 1957 : 13,211 tons (natural 9,677 ; synthetic 3,534); 1958 : 15,401 tons (natural 11,878 ; synthetic 3,523); 1959 : 19,159 tons (raw 14,486 ; synthetic 4,673).

The demand for rubber in 1960-61 is estimated at 46,900 tons, and at the end of 1965-66 at 79,400 tons. At present about 7 per cent of the demand is met by synthetic rubber.

The total value of rubber plantation in the country is estimated at over Rs. 50 crores. The rubber plantation and manufacturing industries offer direct employment to over one lakh workers and means of livelihood for over four lakh people according to a modest estimate. (Nov. 1959).

SYNTHETIC RUBBER

A Rs. 15-crore synthetic rubber plant, the first of its kind in India, is being set up at Bareilly in Uttar Pradesh. Kilachand Devchand & Co. Private Ltd., which has sponsored the project, has secured the technical and financial collaboration of Firestone Tyre and Rubber Co., Ohio, U.S.A.

The foundation digging operations of the factory began on 28th November 1960. The factory will be run by the Synthetics and Chemicals, Ltd. The manufacture of synthetic rubber by this factory will be processed by utilising alcohol obtained from the U.P. sugar mills. The factory is expected to go into production in the middle of 1962.

The setting up of this important basic industry is being made possible through financial aid and know-how promised by the U.S. Government and American private business. The Firestone Tyre and Rubber Co. of the U.S. will contribute 25 per cent of the capital. The U.S. Government, acting through the Export-Import Bank, has given a loan of Rs. 3·92 crores to the Synthetics and Chemicals Ltd., from the sale proceeds of U.S. agricultural commodities supplied to India. Four private American banks will also contribute equal amounts to a loan of $6,000,000 to the Indian Company. Besides, the Firestone Tyre and Rubber Company will make available to the Indian Company $5,625,000 in cash in American and other currencies for the purchase of machinery, equipment and the initial stores. The Indian Company will also be assisted by its American associate—the Firestone Tyre and Rubber Company—with the necessary technical information, know-how expert advice and supervision in setting up the factory.

In India, especially in Uttar Pradesh, plenty of alcohol is available as a by-product of sugar factories which explains the location of the Indian synthetic rubber factory in the centre of an alcohol producing area. The new factory will need about 14 million gallons of alcohol a year. The Uttar Pradesh sugar factories, currently producing nearly 125 million gallons, are expected to be able to meet the synthetic rubber factory's alcohol requirements by the time it goes into production. Initially the new factory will produce 20,000 tons of synthetic rubber annually with a capacity to expand production to 30,000 tons.

RUBBER GOODS

India has a modern manufacturing industry.

In this, the manufacture of tyres and tubes accounts for about 70 per cent of the total consumption of rubber and bulk of capital investment, followed by foot-wear with 15 per cent annual consumption.

The total investment in the industry is estimated at about Rs. 13 crores and the number of persons employed is about 21,800.

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The progress of the manufacturing industry is given below:—

Product	1958	1959	Jan.-Aug. 1960
Footwear (Lakh pairs)	367·2	392·4	258·6
Toys, Balloons, etc. (Lakh Doz.)	242·4	289·2	220·0
Tyres:			
Automobile (000)	1,005·6	1,138·8	893·5
Cycle (000)	8,259·6	9,511·2	7,268·9
Tractor (No.)	28,896	35,112	32,284
Aero (No.)	2,328	1,836	2,141
Cab (thousand ft.)	274·8	216·0	140·0
Tubes:			
Automobile (000)	946·8	1,124·4	837·7
Cycle (000)	7,754·0	9,950·4	8,360·1
Tractor (No.)	31,128	34,968	32,656
Aero (No.)	1,140	1,056	589
Hoses:			
Radiator (000)	168·0	214·8	165·7
Vacuum Brake (000)	602·4	470·4	200·9
Other Types (000 ft.)	9,217·2	11,440·0	7,756·3
Fan Belt (000s.)	666·0	1,040·4	729·7
Ebonite (000 lb.)	234·0	253·4	180·2
Waterproof (000 yds.)	3,336·4	3,626·0	2,531·0
Latex foam sponge (000 lb.)	2,226·0	2,391·8	1,584·7

The programme of development for the rubber goods industry envisaged under the Plans period is summarised below:—

(In million Nos.)

	1955-56 Production	1960-61		Targets for 1965-66	
		Estimated Capacity	Estimated Production	Capacity	Production
Automobile tyres	0·9	1·76	1·50	3·70	3·0
Bicycle tyres	5·78	16·9	14·00	38·6	31·0

The Draft Outline of the Third Five-Year Plan has fixed the following targets for automobile tyres and bicycle tyres:

	Capacity	(In millions) Production
Automobile Tyres	3·7	3·0
Bicycle Tyres	38·6	31·0

IMPORTS AND EXPORTS

Export of raw rubber has now been completely stopped; considerable quantities are being imported to meet the increased domestic demand of the manufacturing industry.

(In lakhs of Rs.)

	Imports		Exports	
	1959	April-Sept. 1960	1959	April-Sept. 1960
Raw Rubber	671·57	579·25	1·18	0.05
Pneumatic tyres	33·41	69·99	0·10	2·73
Pneumatic tubes	4·24	6·25	0·92	0·11
Bicycle tyres	1·26	0·82	2·79	5·11
Bicycle tubes	1·37	8·63	0·01	0·06
Solid rubber tyres	27·66	14·33	0·03	—
Other manufactures (excluding apparel, boots and shoes)	15·74	13·77	7·52	8·48
Total	755·25	693·04	21·55	16·54

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SERICULTURE AND SILK

SERICULTURE is carried on mainly as a subsidiary occupation to agriculture.

In 1959 the total production of raw silk was 15,15,078 kilos (Mulberry 11,40,611 kilos; non-mulberry 3,74,467 kilos). In 1958 the total production was 15,27,989 kilos.

The major portion of mulberry raw silk is produced in Mysore State. This State accounts for more than 74 per cent of the total output of mulberry raw silk in India. The other important States producing mulberry raw silk are West Bengal, Jammu and Kashmir and Punjab. Eri, Muga and Tassar are the three non-mulberry varieties of silk produced in India. The most important producers of non-mulberry silk are Assam, Madhya Pradesh, Orissa and Bihar. While Assam produces the entire quantity of Muga silk and major portions of Eri silk, Tassar silk is produced mainly in Bihar, Madhya Pradesh and Orissa.

While the average annual availability of raw silk was about 1·6 million kgms., the annual demand has been placed at 1·8 million kgms. by some of the producers' and consumers' associations.

21,960 kgms. of spun silk yarn and 29,317 kgms of noil yarn were produced in India during 1958. Mysore Spun Silk Mills Ltd., Channapatna which was the only spun silk mill in India, remained closed during 1959. Out of the total output of silk waste of the order of 7,38,217 kgms. including mulberry and non-mulberry, 3,68,898 kgms valued at Rs. 27,66,805 were exported to other countries. The export of silk waste was permitted freely to all destinations without any quantitative restrictions.

The demand for spun silk yarn has been estimated at 90,000 kgms. by the Tariff Commission in its enquiry held in 1958.

On the basis of figures of production and imports of spun silk yarn, it was found that on an average the annual consumption of spun silk yarn for the three years from 1956 to 1958, was 0·41 lakh kgms.

Import of raw silk and its value during 1955 to 1959: 1955: 2,08,505 kgms; Rs. 91,86,771; 1956: 49,462 kgms; Rs. 20,45,504; 1957: 1,50,333 kgms; Rs. 69,96,820; 1958: 55,821 kgms; Rs. 24,81,124; 1959: 1,49,801 kgms; Rs. 59,83,191.

Import of spun silk yarn and its value during 1955 to 1959: 1955: 14,597 kgms.; Rs. 4,25,184; 1956: 23,150 kgms.; Rs. 7,40,388; 1957; 18,036 kgms.; Rs. 4,43,675; 1958: 3,665 kgms.: Rs. 1,32,498; 1959: 8,227 kgms.; Rs. 2,54,690.

Spun silk yarn was allowed to be imported by the actual users subject to quantitative ceiling fixed by the Government of India on the recommendation of the Board. Since 1959 (licensing period April-Sept. 1959) import of spun silk yarn is canalised through the Central Silk Board. Import of raw silk has been canalised since 1955.

Exports of silk fabrics are freely allowed to all permissible destinations.

The total area under mulberry is about 76,492 hectare at present. Mulberry is cultivated both as rain-fed and irrigated crop. The yield of leaf per acre per year from rain-fed garden is about 1,530 kilos. Average yield per acre in irrigated mulberry gardens in 1957 was about 6,300 kilos. The yield per acre from mulberry graft garden was 9,000 kilos.

In Mysore there are about 10 lakh persons who are directly or indirectly engaged in sericulture industry. The total production of cocoons per year is about 150 lakh kilos and the raw silk produced may be put at 8·55 lakh kilos for Mysore. After reorganisation, Madras has lost its importance as a major sericultural area in the south.

Based on the area under mulberry, the total requirement of disease-free layings is estimated to be about 800 lakh layings per annum for Mysore. The sericulture industry has been under tariff protection since 1934.

During May 1958 a well known Japanese sericultural expert, Mr. Chuji Harada, came to India. His services were obtained by the Board under the Colombo Plan. During his stay for one year in the country, Mr. Harada made valuable recommendations for the improvement of the sericulture industry, particularly in West Bengal and Kashmir. Another Japanese expert, Mr. Kokichi Takahashi is at present working in India under the Colombo Plan.

SECOND FIVE-YEAR PLAN

The Board's programme for the Second Five-Year Plan is intended to achieve self-sufficiency in the silk industry by the end of the Plan period.

The capital outlay of the programme under the Second Five-Year Plan is estimated at Rs. 5·0 crores. The total estimated outlay of silk and sericulture was Rs. 6·5 crores, as against a negligible outlay of Rs. 1·3 crores in the First Five-Year Plan. The actual allocation has since been reduced to Rs. 4·08 crores.

Mulberry Silk: As regards mulberry silk, an important item in the development programme relates to the reduction in costs of cultivation of mulberry leaf through substitution of existing mulberry with high-yielding grafts in both rain-fed and irrigated areas, evolving of new varieties of mulberry of higher yield, and improvement in cultivation methods, manuring, etc. These and other measures for bringing about improvement in mulberry and cocoons will be supplemented by steps to modernise silk reeling, encourage substitution of improved basins for country *charkhas* and converting the improved basins for filatures into multi-end basins, and introducing central cooking system and drawing chambers. Utilisation of by-products in the spun silk industry is necessary for the service of the reeling industry and steps are proposed to be taken to rehabilitate and extend the spun silk industry. And as an experimental measure, co-operative societies for raising young worms of the first and second stages collectively are to be established.

Non-Mulberry Silk: As regards non-mulberry silk, the development programme provides for plantations, as well as improvement of basic seed cocoon production for *eri*, *muga* and *tassar*. The organisation of seed supply, improvement of spinning and reeling, marketing, and training and research will be undertaken more or less on lines similar to those for the mulberry silk industry.

In April 1959 the Government of India appointed a working group to evaluate the progress of sericulture industry during the Second Five Year Plan and suggest the targets for the Third Plan. The working group's report submitted in December 1959 embodies recommendations for development of the industry. The group has suggested a target of 18 lakh kgms. (40 lakh lbs.) for mulberry raw silk and 5·62 lakh kgms. (12·50 lakh lbs.) for non-mulberry raw silk by end of the Third Five Year Plan. The total outlay during the Plan is proposed at Rs. 10 crores.

STATES

The State-wise position of sericulture industry at the end of 1959 is briefly given below:—

Andhra Pradesh: During 1959, 125 hectares of land was brought under mulberry cultivation. Against an estimated requirement of 50 kgms. of disease-free mulberry silkworm seed, 40 kilos of silkworm seed was examined. The production of mulberry raw silk amounted to 158 kilos. Besides, 308 kilos of tassar silk was also reported to have been produced in the State. In all 34 sericultural schemes were taken up for implementation. Total grants of Rs. 7,63,982 and loans amounting to Rs. 1,82,000 were approved by the Board.

Assam: During 1959, 920 hectares of land was brought under mulberry cultivation. Against an estimated requirement of 135·8 kilos of disease-free mulberry silkworm seed 117·6 kilos were examined during the year. The production of mulberry silk was 13·860 kilos.

Besides, Assam produced 1,10,948 kgms. of eri yarn and 83,880 kilos of muga yarn during the year. During the Second Plan period besides 4 continuation schemes initiated during the First Plan, 23 additional schemes were sanctioned by the Board. Total grants amounted to Rs. 25,64,678 and loans to Rs. 3,75,000.

At the Titabar Sericultural Training Institute 36 students completed training. Seven officers of the sericultural department of the State were deputed for training in Mysore.

Bihar: During 1959, 100 hectares were brought under mulberry cultivation. The requirement of mulberry silkworm seed in the State was placed at 23·8 kgms. The production of mulberry raw silk was 1,125 kgms.

The production of tassar silk in the State was 70,200 kgms. during the year. Besides, 15·862 kgms. of eri yarn was also reported to have been produced during the year 1959.

In all 13 tassar developmental schemes and 3 eri developmental schemes were considered and approved by the Board during the Plan period. The Tassar Research Station at Chaibasa and Eri Research Station at Ranchi were reorganised. 16 graduates deputed for training at the All India Sericultural Training Institute at Mysore completed their training. Fifteen Tassar rearers' cooperative societies were also organised.

Jammu & Kashmir: During 1959, mulberry raw silk production in the State amounted to 62,403 kgms.

In all, nine schemes have been approved by the Board. Two silkworm seed centres at Banihal and Udhampur were under construction.

In Jammu Province, the possibilities of rearing tassar silkworms on oak trees, found in abundance in the areas have proved to be encouraging.

Madhya Pradesh: During 1959, 67,500 kgms. of tassar raw silk was produced in the State. In all 26 sericultural schemes were considered and approved by the Board, among which 6 schemes were relating to the development of tassar industry. The tassar grainage building in Raigarh District was completed. Training in reeling was imparted. Seven graduates, 14 matriculates and 40 operatives were trained in various aspects of sericultural work.

Madras: 1,024 hectares of land was brought under mulberry cultivation. Against an estimated requirement of 50·7 kgms. of disease free silkworm seed 36·04 kgms. were organised during the year. The production of mulberry raw silk was 1,125 kgms. In all, 24 sericultural schemes were sanctioned by the Board for implementation. Total grants amounted to Rs. 5,17,256 and loans to Rs. 2,85,500.

At the major nursery unit at Hosur, 1,75,700 mulberry grafts were prepared for distribution. Two chawki rearing centres were established one at Talavadi and the other at Hosur. In the Hill Rearing Station at Coonoor, a quantity of 86,069 disease free layings of foreign races was produced. It is proposed to strengthen the Hope Silk Farm at Hosur and the Hill Rearing Centre at Coonoor, for the preparation of better silkworm seed for meeting the requirements of other States.

Mysore: Mysore, the most important sericultural State in India, accounted for 8,39,240 kgms. of mulberry raw silk out of 11,40,611 kgms. of total production during the year 1959. 68,000 hectares of land was brought under mulberry cultivation. Against an estimated requirement of 22,400 kgms. of disease free silkworm seed, there was a production of 13,026 kgms. of examined seed.

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During the Second Five Year Plan, in all 54 schemes covering all aspects of sericultural development were approved by the Board.

Under the scheme relating to establishment of graft nurseries a total number of 22·47 lakh grafts were prepared of which 10·27 lakh grafts were distributed.

Two incubation chambers were installed one at Kamgerai and the other at Kunthur in Kollegal District. In the two hill rearing stations in B. R. Hills and K. R. Hills, 2·85 lakh cocoons were harvested.

As regards reeling, 180 multi-end basins were installed at the Filatures at Kanakapura and Mysore under the modernisation programme of reeling industry. In the Sericultural Training Institute of Mysore Government, 73 students were afforded training out of whom 58 were absorbed in the sericultural department.

Voluntary cocoon market at Ramnagaram initially aided through the central grants continued to function satisfactorily.

The Silk Marketing Cooperative Society Ltd. at Bangalore continued to discharge its sole distribution work in respect of filature raw silk produced in all the Government silk filatures in the State. Its sales turnover during the half-year ended December 1959 was worth Rs. 38·50 lakhs in respect of filature raw silk and Rs. 5·24 lakhs in respect of filature silkwaste.

Orissa: 16,200 kgms. of tassar silk and 157 kgms. of eri yarn was produced in the year 1959. During the Second Five Year Plan in all 13 sericultural schemes all in the non-mulberry sector were approved by the Board. The schemes related to the establishment of tassar and eri seed supply stations, organisation of tassar rearers cooperatives, etc. A sum of Rs. 3,37,927 as grant and Rs. 4,06,500 as loan was approved by the Board.

Four eri rearers' cooperatives and ten tassar rearers' cooperatives were organised.

One eri seed supply station and one tassar seed supply station was also established.

The central tassar depot transacted 10,636 kahans of tassar cocoons during the year 1959-60.

Punjab: During 1959, 55·6 hectares of mulberry were brought under cultivation. The estimated requirement of disease-free silkworm seed was 98 kilos against which 88·9 kgms. were actually examined in the Government grainages. The production of mulberry raw silk amounted to 7,084 kilos.

In all, 16 schemes were approved by the Board involving total grants of Rs. 6,02,998 during the plan period.

Plantation-cum-demonstration farms were established at Kangra and Rupar.

Under training schemes, 23 candidates were trained in the sericultural work.

Uttar Pradesh: Nearly 80 hectares of mulberry were under cultivation in the State. Against an estimated requirement of 56 kilos of disease-free mulberry silkworm seed, 27·9 kgms were actually examined. The production of filature silk in the only filature unit managed by the Doon Valley Sericultural Cooperative Society (Ltd.), Premnagar, Dehra Dun amounted to 822 kilos. Besides, a small quantity of eri yarn (69 kgms.) was also reported to have been produced in the State during the year.

During the Second Plan period, 15 schemes were considered and approved by the Board. As a result of the implementation of these schemes, the sericulture industry has now been extended to six districts viz., Dehra Dun, Nainital, Etawah, Gorakhpur, Pausi Garhwal and Saharanpur.

West Bengal: Nearly 6,000 hectares were under mulberry cultivation at the end of the year 1959. The estimated requirement of disease free mulberry silkworm seed was 5,040 kilos against which 1,876 kilos were actually examined during the year. The production of mulberry silk amounted to 2,14,396 lbs. Besides, the production of tassar and eri yarn was also reported as 5·581 kilos and 1·291 kilos respectively.

In all, 36 sericultural schemes were under implementation involving grants of Rs. 21,94,841 and loans Rs. 31,29,531.

One mulberry garden at Bhadrapur in Birbhum District and four mulberry graft nurseries at Amrity, Kristapur, Kumarpur and Sadullapur were established.

One Government grainage at Matigara in Darjeeling District was also established. The Foreign Race Seed Station at Kalimpong continued to function satisfactorily.

Nine State departmental officials visited Mysore and Madras for acquainting themselves with sericultural practices there under the scheme for Inter-State study tour.

Mulberry Silk Production (1959)

(All in kgms.)

State	Filature	Charkha	Cottage Basin	Total
Andhra Pradesh	—	158	—	158
Assam	—	13,860	—	13,860
Bihar	—	1,125	—	1,125
Himachal Pradesh	—	173	—	173
Jammu & Kashmir	62,403	—	—	62,403
Madhya Pradesh	—	225	—	225
Madras	—	675	450	1,125
Mysore	63,141	6,59,332	85,243	8,07,716*
Punjab	—	7,084	—	7,084
Uttar Pradesh	822	—	—	822
West Bengal	—	2,11,270	3,126	2,14,396
Total	1,26,366	8,93,902	88,819	11,40,611

* Excl. production of Dubion Silk of 31,524 kgm.

Non-Mulberry Silk Production (1959)

(All in kgms.)

State	Tassar	Eri	Muga	Total
Andhra Pradesh	308	8	—	316
Assam	—	1,10,948	83,880	1,94,828
Bihar	70,200	15,862	—	86,062
Bombay†	2,463	—	—	2,463
Madhya Pradesh	67,500	—	—	67,500
Orissa	16,200	157	—	16,357
Uttar Pradesh	—	69	—	69
West Bengal	5,581	1,291	—	6,872
Total	1,62,252	1,28,335	—	3,74,467

† Bilingual.

Statement showing the hectares under mulberry cultivation and number of mulberry trees in India during the year 1959 :—

State	Hectare	Number
Andhra	134	..
Assam	894	..
Bihar	80	..
West Bengal	5,970	..
Himachal Pradesh	14	20,000
Jammu & Kashmir	..	19,50,000
Kerala	18	..
Madhya Pradesh	804	..
Madras	66,000	..
Mysore	..	..
Manipur	50	..
Punjab	68	1,70,000
Uttar Pradesh	..	65,000
Total	74,118	22,05,000

Statement showing the production of mulberry silk waste in the different States of India in 1959 :—

(All in kgms.)

State	Filature	Charkha	Total
Andhra	..	102	102
Assam	..	6,430	6,430
Bihar	..	1,125	1,125
West Bengal	..	1,54,116	1,54,116
Himachal Pradesh	..	97	97
Jammu & Kashmir	49,265	..	49,265
Madhya Pradesh	..	90	90
Madras	..	495	495
Mysore	43,560	2,80,194	3,23,754
Punjab	..	2,796	2,796
Uttar Pradesh	450	..	450
Total	93,275	4,45,445	5,38,720

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Non-Mulberry Silk Waste (1959)

(All in kgms.)

State	Tassar	Eri	Muga	Total
Andhra Pradesh	150	16	—	166
Assam	—	73,950	34,020	1,07,970
Bihar	47,700	5,287	—	52,987
Maharashtra	1,053	—	—	1,053
Madhya Pradesh	31,500	—	—	31,500
Orissa	4,275	—	—	4,275
Uttar Pradesh	—	25	—	25
West Bengal	1,521	—	—	1,521
Total	86,199	79,278	34,020	1,99,497

SHIPPING INDUSTRY

INDIAN shipping is a potential and quick earner of foreign exchange. During the 2nd Five Year Plan period, India paid in terms of foreign exchange an average of Rs. 130 crores per annum to foreign shipping companies for obtaining their services.

In 1959 Indian shipping companies acquired 23 ships totalling 114,577 tons gross bringing the strength of the Indian merchant fleet to 164 vessels aggregating 744,577 gross tons, by the end of 1959.

The dead-weight tonnage of the Indian merchant fleet exceeded 1,000,000 tons. Six vessels totalling 15,000 tons were disposed of owing to overage etc. The net addition to the fleet during the year was thus 17 vessels and 96,000 gross tons.

Of the 164 Indian sh. 's, 68 totalling 465,000 gross tons, were operatin in the overseas trades of the country. Of these 27 vessels of 210,000 tons were in the India-U.K./Continent trade, six of 37,000 tons in the India-Black Sea ports trade, six of 30,000 tons in the India-West Africa/Mediterranean trade, four of 29,000 tons in the India-U.S.A. trade, two of 19,000 tons in the India-South America trade, four of 26,000 tons in the India-Far East trade and three of 17,000 tons in the India-Australia trade.

Two recent acquisitions have been placed in the India-Far East and India-Australia trades. One passenger-cum-cargo vessel operates between India and East Africa and another between India and Malaya. Three ships are licensed to ply in the India/Persian Gulf trades, while one small vessel, fully refrigerated, will shortly enter that trade as a banana carrier. In addition, there are four vessels which are operating on a tramp basis. The overseas fleet consists of a large number of new and near-new vessels, some of which have a high speed of 19 knots.

The coastal fleet consists of 96 vessels totalling 307,000 gross tons. Of these, 67 totalling 274,000 tons, are cargo vessels, three totalling 24,000 tons are tankers which have been chartered to the oil refineries for carrying refined oil along the coast, 7 of 19,000 tons cargo-cum-passenger vessels, 8 of 7,000 tons passenger vessels and 11 of a little over 5,000 tons small vessels engaged in short coastal range operations.

By the end of 1959, Indian shipping companies had eleven vessels totalling some 80,800 gross tons under construction or on order in Indian and foreign yards, for delivery before March, 1961. Negotiations for an additional 17,000 tons of secondhand tonnage were also in progress.

There are two Government-sponsored shipping corporations:

* The Eastern Shipping Corporation and the Western Shipping Corporation.

The Eastern Shipping Corporation was registered on March 30, 1950 with a capital of Rs. 5·5 crores. It became a full-fledged State enterprise on Aug. 15, 1956. It has a fleet of nine vessels (Dec. 31, 1959).

Towards the close of 1959, the Corporation had three vessels under construction at Vishakapatnam. During 1958-59 the Corporation made a profit of Rs. 15·32 lakhs after providing for depreciation amounting to Rs. 41 lakhs.

The Western Shipping Corporation was set up in 1956 with an authorized capital of Rs. 10 crores. It has two tankers at present. In 1959 it acquired two cargo vessels (one of 9,172 G.R.T. and the other of 6,679 G.R.T.) Towards the close of 1959, the Corporation had two vessels under construction abroad and one vessel at Vishakapatnam. It is intended that this Corporation should run the Indo-Polish Service and also function on the Persian Gulf Service. At a later stage it is to extend its operations to the Red Sea.

During 1958-59 the Corporation made a profit of Rs. 2·6 lakhs after providing for normal depreciation amounting to Rs. 6·43 lakhs. The total amount available from the Fund upto the end of March 1961 was Rs. 14·91 crores. Government announced in 1957 its decision to set up a non-lapsable Shipping Development Fund to provide an assured source of rupee finance for the expansion of Indian shipping. The Fund is composed of annual contributions from the Consolidated Fund of India, the quantum of which will be determined from year to year. Repayments against loans already granted to shipping companies are also to be credited to the Fund.

A sum of Rs. 1 crore was provided in the Budget for 1958–59 by way of contribution to this Fund. During 1959 two loans amounting to Rs. 52 lakhs were sanctioned by the Fund Committee to two Indian Shipping companies for acquiring two second-hand cargo vessels.

Another significant step taken in the field of shipping was the establishment of a Shipping Co-ordination Committee in the Department of Transport. The Committee is intended to bring about better liaison between various Ministries of the Government of India and other Government organisations which have cargoes requiring transport, on the one hand, and the Indian shipping companies, on the other, so as to ensure the maximum utilisation of the available Indian tonnage.

The Committee has been able to secure a considerable quantity of Government owned cargoes (to the extent of 500,000 tons upto the end of 1959) for Indian ships.

The Government of India has agreed to permit the acquisition of second-hand tonnage on deferred payment terms which involve not more than 20 per cent down payment, with the balance of the price spread over a period of 5 years. Despite the foreign exchange difficulty, not a single proposal for the acquisition of tonnage on deferred payment basis has been turned down by Government. The Government has also agreed to consider orders for new building, provided the payment of price is spread over a period of 7 years after delivery, with a small initial cash payment.

So far as rupee resources are concerned, a sum of over Rs. 9 crores was available from the Shipping Development Fund for being utilised before the end of the Plan period.

The idea of a foreign exchange pool under the aegis of the Shipping Development Fund mooted by the Chairman of the National Shipping Board is being considered.

SHIPPING ACT

The Merchant Shipping Act 1958 provides for the establishment of a National Shipping Board and a Shipping Development Fund. It also provides for the safety and the efficiency of the merchant marine and the welfare of seamen and passengers.

There is a Director-General of Shipping to administer the provisions of the Act. There will also be officers under the Act at all ports.

There is a National Welfare Board for Seafarers to advise Government on welfare problems.

An important provision is about the definition of an Indian ship.

Shipping Board

The National Shipping Board mentioned in the Act was set up on 1st March 1959. It consisted of 20 members with Mr. G. L. Mehta as Chairman and Mr. C. P. Srivastava as Member-Secretary. The Board was reconstituted with effect from May 1, 1961 with Mr. G. L. Mehta as Chairman and Mr. S. K. Venkatachalam as member-Secretary. The Board now has 22 members.

Immediately after the 1st Board was set up, it appointed a Committee under the chairmanship of Mr. A. Ramaswami Mudaliar to formulate the shipping target for the Third Five-Year Plan.

* It is reported (May 1961) that the Govt. of India has decided to merge the two corporations into one The Shipping Corporation of India Ltd. from June 1961. The strength of both corporations is 18 vessels with 1,32,375 G.R.T. tonnage (May 1961).

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The progress of Indian shipping is given in the following table :—

Year.	No. of companies.	No. of ships.	Tonnage (G.R.T.).
1949 ..	20	84	332,490
1950 ..	23	90	364,632
1951 ..	23	92	366,646
1952 ..	26	100	383,911
1953 ..	25	111	422,452
1954 ..	30	124	435,300
1955 ..	30	126	465,264
1956 ..	30	125	478,307
1957 ..	25	131	576,500
1958 ..	25	141	630,000
1959 ..	25	164	744,577
1961 March.	25	N.A.	905,000

N.A. Not available.

MERCHANT NAVY TRAINING

Besides "Dufferin," there are six training establishments for the training of Merchant Navy personnel. Till the end of 1959 the Union Government spent more than Rs. 2·5 crores for the training of merchant navy personnel and about 17,000 candidates had been trained since 1947.

A Merchant Navy Training Board has been set up to advise the Government on all training problems and to supervise the training imparted in the merchant navy establishments.

FIVE-YEAR PLANS

Taking into account the financial resources available, a programme of development was formulated which aimed at raising the total gross registered tonnage to over 600,000 by the end of the period of the First Five-Year Plan. In order to assist the shipping companies in replacing obsolete tonnage operating on the coast and expand, Government had provided funds for constructing ships at Vishakapatnam : a total of 100,000 G.R.T. was expected to become available from this shipyard during the period of the First Plan.

At the beginning of the First Five-Year Plan, India had a tonnage of 390,707* G.R.T. On 31st March 1956, the actual tonnage stood at 491,000 tons, but taking into consideration the tonnage of 109,000 G.R.T. (17 ships) on order in Indian and foreign yards, the target had been exceeded.

In the Second Five-Year Plan it was proposed that about 301,000 tons should be added after allowing for obsolescence of 90,000 tons. Thus by the end of the Second Plan, the total tonnage is believed to have reached 905,000 G.R.T.

With the achievement of this target, Indian tonnage was expected to carry at least 15 per cent of the country's overseas trade, as against 7 to 8 per cent, in the beginning of the 2nd Plan, 50 per cent of the trade with adjacent countries as against 40 per cent, besides 100 per cent of coastal trade.

In the First Plan a sum of Rs. 19 crores was provided for shipping and this was subsequently raised to Rs. 26·3 crores. Actual expenditure over the First Plan period was about Rs. 18 crores.

In the Second Plan a provision of Rs. 45 crores including the carryover of Rs. 8 crores was made for shipping expansion. The full amount was utilised in placing the orders for ships in Indian and foreign yards by the shipping companies in the private and public sector.

The draft outline of the 3rd Plan fixed a target of 1,420,000 gross registered tons to be achieved by 1965-66 made up as follows :

	(Gross registered tons) 1960-61 (Anticipated)	1965-66 (Target)
Overseas trade ..	613,000	1,080,000
Coastal trade ..	292,000	340,000
Total	905,000	1,420,000

The 3rd Plan allocation of funds is Rs. 55 crores.

Sailing Vessels

According to the Sailing Vessels Committee's Report, it is estimated that 150,000 tons of shipping under sail consisting of about 2,000 vessels carry about a million to a million and a half tons of cargo every year. These vessels employ about 40,000 men, 2,500 masters, 2,500 mates and about 35,000 seamen. Taking the average cost of these vessels at Rs. 250 a ton, the capital outlay is computed at Rs. 4 crores.

The Sailing Vessels Committee emphasised that if the industry were to survive, the owners of sailing vessels should be encouraged to mechanise their vessels. Government have, therefore, approved a scheme for the grant of loans for this purpose. Under the scheme, loans are being granted for mechanisation of sailing vessels of 100 tons and over upto a maximum of 75 per cent of the cost of auxiliary machinery, provided the vessels in question are considered seaworthy and suitable for installation of machinery.

The effective rate of interest to be charged on these loans is 2½ per cent and the period of repayment ordinarily extends to 5 to 6 years, but may be extended by one or two years more if the circumstances of the loanee so justify. Until March 1960, 19 applications were received requesting loans for an aggregate amount of Rs. 9 lakhs. Other measures taken by the Govt. of India to develop the sailing vessels industry include the constitution of Central and Regional Advisory Committees, education of *tindals* in the traditions of the sea, training of seamen under sail, and issue of identity cards to the crew of sailing vessels proceeding to Ceylon.

SHIP-BUILDING

(See 'Hindustan Shipyard' under 'Government Industrial Undertakings').

* Allowing for obsolescence.

SMALL-SCALE INDUSTRIES *

Indian industry is made up primarily of small-scale rather than large-scale units. It is reckoned that there are about two crore persons engaged in small-scale and cottage industries.

The small-scale industry is primarily the responsibility of the State Government and not of the Centre. But the Centre supplements the efforts of the State Governments.

Small-scale industries will include all industrial units with a capital investment of not more than Rs. 5 lakhs irrespective of the number of persons employed.

The rate of interest on loans advanced under State Aid to Industries Act would be governed by the capital investment of small scale industries —it would be 3 per cent to industrial undertakings with capital investment up to Rs. 2 lakhs, 4½ per cent to undertakings with capital investment of Rs. 2 to 4 lakhs and 6 per cent to undertakings with capital investment of more than Rs. 4 lakhs. This does not, however, apply to industrial co-operatives in the small scale sector which will continue to receive loans at 2¼ per cent.

Preference would be given to small scale units in the light of their capital investment *i.e.* units with smaller capital investment would be given preference over others.

Small-scale industries are distinct from village industries and handicrafts. Generally speaking village industries are of traditional nature catering primarily to local markets.

Small-scale industries can and do produce a large variety of consumer goods :—bicycles, agricultural implements, sewing machines, domestic electrical appliances, builders' hardware, cutlery and domestic hardware, furniture, wood work, footwear and other leather products, ceramics, glassware, sports goods, hand tools, surgical and drawing and surveying instruments, mechanical toys, matches, chemicals, paints and varnishes, polishes.

Small-scale industries can really be classified into four main groups :—manufacturing industries, feeder industries to large industries, servicing industries, and ancillaries to large industries.

Manufacturing industries include complete articles or products manufactured for sale directly to consumers (consumer items) and in some cases used as spare parts.

Feeder industries are a kind of general engineering shops which specialise in certain types of products and services such as castings, forging tools and dies, electroplating and galvanizing, welding and other services for large scale industries. They do not have a regular line of work but take job orders from time to time depending upon the need of the large industry.

Servicing industries mostly cover light repair shops which are necessary to maintain mechanical equipment owned by the community. They cater to such works as auto repairs, repair of cycles and radios, photographic studios, repair of pumps, motors and other kinds of light machinery used in industry, agriculture, etc.

Ancillaries to large scale units include parts and components for several light engineering products such as cycles, sewing machines, electric motors, radios, clocks, automobiles, diesel engines, textile and other machinery and machine tools.

Several large scale units, especially in the light engineering field have made sustained efforts to obtain quite a number of small components from small scale units. In certain cases, like the manufacture of machine tools, even capital equipment have been loaned by the large units to their ex-employees to encourage the setting up of small scale units to act as ancillary industries. Sub-contracting of components has been practised to a large extent in the manufacture of cycles, sewing machines, machine tools and electric motors and to a smaller extent in the manufacture of diesel engines.

DEVELOPMENT AGENCIES

The nature of assistance available and the organisations responsible for rendering such assistance are given below :—

(*i*) Technical know-how, industrial information service, industrial potential surveys and market research : Organization of the Development Commissioner, Small-scale Industries; Small Industries Service Institutes and Extension Centres.

* Total outlay raised to Rs. 264 crores from Rs. 250 crores in final draft of IIIrd plan. Estimated expenditure in IInd plan Rs. 180 crores.

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(*ii*) Training: Both technical and managerial: Small Industries Service Institutes, State Governments, universities, technical institutes and colleges and institutes and colleges of economics, commerce and business.

(*iii*) Finance: (*a*) For cash loans: State Governments, State Bank of India, State Financial Corporations, Co-operative Banks, Scheduled Banks; (*b*) For machinery on Hire Purchase: National Small Industries Corporation Limited.

(*iv*) Marketing Service: National Small Industries Corporation Limited.

(*v*) Factory Accommodation in Industrial Estates: Central Small Industries Organization, State Governments, Industrial Estates, Industrial colonies and Co-operative Societies.

Technical bulletins and survey reports have been published.

The Office of the Development Commissioner, Small-Scale Industries, New Delhi now issues a monthly bulletin. The first number came out in March 1958.

The agencies mainly concerned with the development of small-scale industries in the country are thus the State Directors of Industries, Small Scale Industries Organisation under the Development Commissioner, Small Industries Service Institutes functioning in the States as well as in New Delhi and the National Small Industries Corporation, with four branches one each at Bombay, Calcutta Delhi and Madras.

FINANCES

Second Plan allocation: Rs. 55·57 crores.

This is made up of States schemes Rs. 33·18 crores, industrial estates Rs. 11·00 crores, and Central schemes Rs. 11·39 crores. The expenditure during Plan period is estimated to be Rs. 11·65 crores on Central schemes, Rs. 10·72 crores on industrial estates and Rs. 22·27 crores on other State Govt. schemes. Total Rs. 44·64 crores.

The provision for Central assistance for 1956-57, 1957-58, 1958-59 and 1959-60 were in Rs. lakhs: 360·54; 400·00; 453·90; 397·02 respectively. Total 1,611·46.

The States' provision in Rs. lakhs: 115·75; 257·05; 213·81; 293·50. Total 880·11.

The Union Territories' provision in Rs. lakhs: 37·69; 37·53, 37·21; 7·21. Total 119·54.

Thus the total provision for 1956-57, 1957-58, 1958-59 and 1959-60 in Rs. lakhs: 513·98; 694·58; 704·92; 697·73. Total 2,611·21.

The total expenditure incurred in 1956-57, 1957-58, 1958-59 and 1959-60 was in Rs. lakhs: 284·09; 515·47; 645·85; 745·27.

The percentage of the expenditure to the provision made during the four years was 52, 74, 92 and 106·8.

Third Plan allocation: Rs. 107 crores tentative).

State Provision

State-wise figures of provision and expenditure upto March 1959 in Rs. lakhs are as follows:—

Andhra 157·01 and 117·66 (75%), Assam 69·81 and 37·89 (54%), Bihar 150·32 and 128·95 (86%), Bombay* 175·76 and 71·95 (41%), Jammu & Kashmir 44·83 and 37·20 (83%), Kerala 86·37 and 60·63 (70%), M.P. 145·89 and 57·96 (40%), Madras 214·15 and 232·80 (109%), Mysore 81·57 and 65·01 (80%), Orissa 80·05 and 67·70 (85%), Punjab 161·86 and 135·14 (83%), Rajasthan 89·13 and 69·59 (78%), U.P. 208·52 and 191·92 (92%), W. Bengal 144·78 and 96·11(66%), Union Territories and Pondicherry 112·23 and 74·90 (67%).

Total provided Rs. 1,912·38 lakhs. Amount spent Rs. 1,445·41 lakhs. Percentage of spent to provided 76.

Central Assistance

Below we show Central assistance to States—the amounts released in Rs. lakhs for 1958-59, 1959-60 and 1960-61 (Provisional) respectively:—

Andhra Pradesh 33·05, 35·00, 45·00; Assam 10·26, 19·00, 22·00; Bihar 41·31, 40·00, 43·00; Bombay (Bilingual) 32·42, 40·00, 37·00; Kerala 24·36, 24·00, 27·00; Jammu & Kashmir 5·18, 8·61, 8·00; Madhya Pradesh 24·60, 35·00, 35·00; Madras 54·00, 47·00, 50·00; Mysore 16·89, 16·00, 16·00; Orissa 27·37, 26·00, 28·00; Punjab 37·96, 48·00, 50·00; Rajasthan 22·24, 24·00, 25·00; Uttar Pradesh 64·61, 56·00, 56·00; West Bengal 39·40, 51·00, 54·00.

Total 433·65, 469·61, 496·00.

Loans

Total loans granted by the States under State Aid to Industries Acts: During the first four years of the Second Plan Rs. 10·07 crores had been advanced to small scale industries by the various State Governments under these Acts.

Loans to the extent of Rs. 5,09,14,000 were sanctioned to 612 parties by 30th June 1960 from their own funds by the State Financial Corporations of Punjab, Kerala, Bombay*, Assam, Andhra Pradesh, West Bengal, Uttar Pradesh, Bihar, Rajasthan, Madhya Pradesh, Orissa and Madras. The Governments of U.P., Andhra Pradesh, Bombay (Bilingual), Punjab, Kerala and Rajasthan have also made arrangements to route a portion of the funds available under the State Aid to Industries Act through the State Financial Corporations.

Total loans sanctioned to 2,230 small industrial units by the State Bank of India till 30th Sept. 1960 were Rs. 6,86,43,000. Loans aggregating Rs. 4·66 crores were sanctioned to 558 small industrial units by the State Financial Corporations upto March 1960. By the end of 1960 the State Bank of India had sanctioned loans totalling Rs. 5·11 crores to 1,691 parties.

TARGETS

Under the manufacturing industries the targets which should be achieved by 1960-61 by the small scale sector were (Rs. lakhs):—Hand tools and small tools (hand tools, carpentry tools, mason tools, moulding tools for foundry etc.)—200; Sports Goods—250; Furniture—800; Building hardware—200; Domestic hardware—100; Cutlery 150; Agricultural implements—330; Scientific glasswares and instruments—100; Table glassware—100; Bicycles and bicycle parts—400; Sewing machines and sewing machine parts—100; Toys—50; Electric fans—100; Other electrical goods—300; Surgical instruments 150; Rubber parts—50; Pipe fittings and valves—200; Metal fittings for shoes and leather articles and wearing apparel—50; Fountain pens and stationery articles—250; Small machines like pumps, drills, presses, etc.—130; Miscellaneous chemical items—300; Other miscellaneous industries not mentioned above—350; Hosiery and knitted ware—1,600.

Production targets for some of the items covered under the feeder industries to large industries have been estimated as follows (Rs. lakhs):—Foundries—300; Forging shops—100; Tool and gauge making shops—100; Electroplating and galvanizing shops—100; Welding shops—100; Heat treatment shops—10.

The servicing industries will also have to grow with the rapid industrialisation of the country. There is ample scope for the development of servicing industries on a balanced basis. The targets which had been estimated to be achieved by 1960-61 for the servicing industries were (Rs. lakhs):—Automobile repair shops, filling stations etc.—150; Repair shops for cycles, radios etc.—100; Photographic shops, sound recording and public address systems—10; Motor repairs and maintenance including repair of tractors and agricultural equipment—50; Other machinery repairs and maintenance, such as textile, flour mills, cotton gins etc.—200.

The value of components and accessories that the small scale sector in ancillaries could cater to is as follows (Rs. lakhs): Cycle accessories 50; Cycle components 100; Parts of clocks 25; Parts of sewing machines 25; Attachments and accessories to sewing machines 10; Parts of electric motors (upto 10 H.P.) 50; Parts of electric fans 50; Parts of radios 25; Automobile and diesel engines 50; Total 385.

INDUSTRIES AND LOCATION

The Office of the Development Commissioner of Small-Scale Industries, New Delhi, carried out a survey in certain areas relating to location of industry and production. The findings of this survey which show what industries were located in the area surveyed and what the production was in that area are given in the 1959-60 edition of the *Directory*.

EXPORTS

The following items of small industries' products have been selected by the National Small Industries Corporation for promoting their sales in overseas markets:—Leather footwear and leather goods; Cotton and Woollen hosiery; Sports goods; Builders' hardware, locks and scissors; Tinned fruits, chutneys and pickles; Paints and varnishes; Glass beads. Nearly six lakh pairs of shoes supplied by small scale units have been exported to countries like Russia, Poland and German Democratic Republic through the agency of the Corporation.

National Small Industries Corporation and the State Trading Corporation also assist in import and distribution of some articles like copper, zinc, copper and brass scrap, cycle and sewing machine parts, knitting needles.

State Governments are establishing raw materials depot for the small industries. The National Small Industries Corporation, as an experiment, set up a depot at Ludhiana for supplying iron and steel to the small units there. This depot has supplied raw materials worth Rs. 23 lakhs till the end of Dec. 1959.

The following quantity of steel had been allocated to the States for small scale and cottage industries:— 1957-58—52,750 tons; 1958-59—1,07,950 tons; 1959-60— 2,11,000 tons.

The Directors of Industries have been asked to meet the requirements of small scale units situated within the Industrial Estates on a full 8 hour shift basis. The total allocation of steel made is generally less than 50 per cent of the demand placed by the State Directors of Industries.

STATE SCHEMES

The small scale industry schemes of the State Governments could be classified:—Block loan for disbursement under State Aid to Industries Act; Service Schemes; Commercial Schemes; Industrial Co-operatives; Common Facility Service Schemes; Service-cum-Commercial Schemes; Subsidy on Power Supply; Establishment of Emporia; and Training of Technicians.

The States get assistance from the Centre in respect of State Governments schemes the main features of which are that service schemes, in which the element of training predominates and profit is not envisaged, are aided to the extent of 50 per cent of the cost of land and buildings, 75 per cent of the cost of machinery and equipment and 50 per cent of the recurring expenditure for the first year as grant, and 100 per cent of the working capital as loan. As regards commercial schemes of the State Governments, the Central assistance is limited to 75 per cent of the total cost of the scheme as loan. In addition to the above, 50 per cent of the cost of additional staff appointed in the States Directorates of Industries in connection with the implementation of State Government schemes is given by the Central Government as grant.

* Bilingual.

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A Small Inventions Development Board has been established to assist inventors in the small scale sector by providing financial assistance and research facilities. To start with, every year 34 prizes of varied value ranging from Rs. 5,000 to Rs. 25,000 each are awarded. The Board will also help the inventors in getting their inventions patented and arrange for their commercial use. The Central Board will also constitute State Boards in each State.

Nearly 700 development schemes relating to small industries were sanctioned by the States during the first three years of the Second Plan. This includes 588 schemes relating to different industries; the rest relate to Service Schemes, that is schemes involving power supply, communication development, marketing facilities etc.

Industry-wise, the largest number of schemes—105—were in the field of tanning and leather industry, for wood-working and carpentry 90, for light engineering industries, 76, other schemes included ceramic, cutlery, tailoring, glass industry, match industry, toy-making, sports goods, blacksmithy.

The development programme about industrial co-operatives covered in all, 101 societies for the period ending 1959-60. Loans amounting to over Rs. 22 lakhs were disbursed to 55 societies by State Governments and co-operative banks. In addition, 23 societies received grants amounting to Rs. 3·3 lakhs. In eight States, committees were formed to co-ordinate the efforts of all the agencies. The Small Industries Service Institutes provided technical assistance to about 65 societies and active steps were being taken to cover the remaining societies rapidly. About 26 of these societies received marketing assistance including help in obtaining Government orders, while assistance in obtaining raw materials were rendered to ten societies.

Below we give the value in Rs. of contracts placed with small industries units by State Governments for 1958-59 and 1959-60 (upto 30th Jan. 1960) respectively :—

Delhi 40,04,986 ; 33,55,255 ; Uttar Pradesh 79,35,163, 11,89,904 ; West Bengal 55,51,507 ; 66,34,252 ; Bombay (Bilingual) 32,52,805 ; 52,66,101 ; Punjab 7,33,728 ; 31,13,794 ; Madras 2,65,203 ; 5,93,627 ; Andhra Pradesh 2,46,381 ; 1,60,336 ; Kerala 35,458 ; 4,23,287 ; Bihar 10,639 ; 18,807 ; Madhya Pradesh 3,13,337 ; 26,427 ; Rajasthan — ; 13,898 ; Mysore— ; 3,97,597.

Total 2,11,93,285 ; 5,31,39,939.

SMALL INDUSTRIES CORPORATION

The National Small Industries Corporation is a Government of India concern. Its main activities include assistance to small scale units in securing contracts from the D.G.S. & D. and Railways, development of small industrial units as ancillaries to large units, rendering of marketing assistance both in internal and overseas markets, distribution of certain raw materials, supply of machines on Hire Purchase basis etc.

Contracts valued at over Rs. 8 crores have been secured by the small scale units from the D.G.S. & D. alone since the year 1957. The orders secured by the small units during April to Aug. 1960 aggregated Rs. 1·10 crores as against Rs. 2·65 crores, Rs. 2·56 crores and Rs. 62 lakhs in the years 1959-60, 1958-59 & 1957-58 respectively. The scheme is thus gathering momentum and it is expected that during the year 1959-60, orders to the tune of over Rs. 3 crores would have been placed on the small scale units through the assistance of the Corporation. The number of small scale units considered capable of supplying various stores required by Government and enlisted with the Corporation was 6,877 at the end of November 1960.

The Corporation has also initiated negotiations with the other Central Government Purchasing Agencies and the Railways have already introduced the scheme of purchases from small scale units. The value of contracts placed by them on the small scale units upto November 1960 amounted to approximately Rs. 9 lakhs.

The Corporation has also taken certain positive steps to foster growth of ancillary units around large industrial units.

While a comprehensive marketing assistance programme of the Corporation to render assistance in the marketing of small scale industries products in the country is being finalised, a Pilot Centre has been set up at Delhi to try out new methods of creating a link between the manufacturers on the one hand and the retailers/distributors on the other. Orders worth approximately Rs. 70,000 have been booked by the Corporation's salesmen and passed on to the manufacturers for execution. Besides rendering marketing assistance in the internal markets, the Corporation has exported leather footwear manufactured by the small-scale fabricators valued over Rs. 176 lakhs since 1956.

The Corporation supplies machines on Hire Purchase basis either for starting a new industry or for augmenting the existing capacity as well as for replacing old and out-dated machines. 3,446 machines worth over Rs. 3 crores were supplied from the inception of the scheme in 1956 upto the end of March 1960 ; by the end of November 1960, machines worth over Rs. 4 crores had been delivered and the number of machines delivered was more than 4,000.

Recently D.L.F. Credit of $10 million has been made available to the Corporation for utilisation in the operation of the Hire Purchase scheme. Two new schemes, *viz.*, Bank Guarantee Scheme and Special Hire Purchase Scheme, have been introduced for the purpose. Under the Bank Guarantee Scheme, an applicant, after acceptance of his application for the supply of machine(s) on hire purchase, shall deposit 20 per cent of the CIF cost of machines as earnest money where the machinery is valued above Rs. 50,000 and 10 per cent where the value is less than Rs. 50,000 and shall also furnish a bank guarantee for the balance 80 per cent in the former and 90 per cent in the latter to the effect that the amount will be repaid to the Corporation in four equal annual instalments. In the former case, however, they will be given the choice to pay 5 per cent in cash and furnish bank guarantee for the remaining 15 per cent, encashable at the time of delivery of machines. According to Special Hire Purchase Scheme, the applicant will have to pay 20 per cent as earnest money and 20 per cent before the handing over of shipping documents. The balance 60 per cent will be recovered in five equal annual instalments. The rate of interest for both the Schemes is 6 per cent. Under the normal Hire Purchase Scheme, the applicants are required to deposit only 20 per cent of the value of machines as earnest money and the balance is repayable during the period of 7 years. The rate of interest chargeable is 4½ per cent if the value of machines is less than Rs. 15,000 ; for machines valued above Rs. 15,000, the rate of interest is 6 per cent. For industrial co-operatives, these rates are 3½ per cent and 5 per cent respectively.

Besides the above activities, the Corporation has set up Prototype Production & Training Centres at Rajkot and Okhla (Delhi) in collaboration with the Technical Co-operation Mission of the U.S.A. and the Federal Republic of Germany respectively. The training of the artisans at Rajkot has already commenced. Besides imparting training to artisans, these Centres would develop prototypes of machine tools for production on commercial scale by small scale units.

Main Corporation : National Small Industries Corporation, Ltd., Rani Jhansi Road, New Delhi.

Subsidiary Corporations : 1. National Small Industries Corporation, 116-A, Lower Circular Road, Calcutta-14. 2. National Small Industries Corporation, Janmabhoomi Chambers, 5th Floor, Fort St., Bombay 1. 3. National Small Industries Corporation, 15, Mowbrays Road, Madras-18. 4. National Small Industries Corporation, 61, Sunder Nagar, New Delhi.

(See also the note on NSIC in the article 'Corporations').

SERVICE INSTITUTES

Economic and commercial information useful to small industrialists, who want to start new industrial units, is provided by the Small Industries Service Institutes set up by the Government of India early in 1956.

The Institutes give broad outlines of the potentialities of different small-scale industries. They supply information on the number of existing units, their production and installed capacities as well as the present consumption, future demands and export possibilities for their products.

Information about the working capital required for a new unit, suppliers of machinery and raw materials, and markets for the sale of products, is also made available by the Institutes.

There are 19 Small Industries Service Institutes including four branch institutes in the country.

They are located in New Delhi, Bombay, Calcutta, Madras, Agra, Jaipur, Ludhiana, Bangalore, Indore, Rajkot, Patna, Cuttack, Gauhati, Srinagar, Kanpur, Allahabad, Hubli, Hyderabad, Trichur.

There are also 45 Extension Centres to provide specialized technical assistance to particular industries. By the end of the Second Plan it is expected that there would be about 50.

To sum up the whole position as on 31st October 1960 :—

No. of institutes 15 ; no. of branch institutes 4 ; no. of industrial extension centres sanctioned 66 ; no. functioning 45 ; no. of model demonstration workshops sanctioned 3 ; no. functioning 2 ; no. of production centres planned 4 ; no. functioning 2.

No. of parties given purely technical assistance 90,912 ; no. of parties given information to start new industries 41,089 ; no. of factory visits to render on-the-spot technical advice 1.34.307 ; no. of parties given other assistance 62,095.

No. of mobile workshops in operation 47 ; no. of centres visited by the workshops 4,308 ; no. of artisans trained in the operation of the machines installed in these workshops : 32,151.

No. of designs and drawings prepared 12,029 ; no. of model schemes prepared 1,041 ; technical bulletins prepared 368.

No. of industry outlook reports issued or approved for issue 136 ; community projects area reports issued 27 ; no. of market research reports completed 161.

No. of schemes of State Governments scrutinized 2,648 ; no. of schemes prepared and supplied 802.

There were 56 foreign consultants employed from time to time till 31st October 1960.

The position in regard to the total number trained as on 31st October 1960 and the total expected to be trained by 31st March 1961 respectively are given below :

Block level extension officers 2,063 and 2,367 ; in business management of entrepreneurs 1,175 and 1,662 (long-term) and 620 and 979 (short-term) ; in footwear training 178 and 269 ; Blueprint reading 1,737 and 1,836 in course of State; Govt. officers 46 and 277 ; in D.I.O. course 115 and 128 ; in Advance Pattern Making course 2 and 3 ; in Periputatic training 156 and 365 ; manufacture of potterywares 36 and 52 ; manufacture of thermometers and training in thermometre blowing 22 (provisional) ; Scientific glass-blowing 38 and 49 ; miscellaneous training imparted 163 and 233 respectively.

The location of the Small Industries Service Institutes is given below :—

Calcutta : 4, Camac Street.
New Delhi : 56, Sunder Nagar.
Madras : 20, Rutland Gate.
Kanpur : 113/80, Swaroop Nagar.
Agra : 416, Mandi Syed Khan.
Allahabad : 15, Colvin Road.
Ludhiana : B-XV-1679, Ferozepur Road.
Gauhati : I. C. Shed No. 4, Bamunimaidan.
Srinagar* : School of Designs Building, Karan Nagar.
Indore : 10, Industrial Estate, Polo-ground.
Bombay : 40-40A, Cowasji Patel Street, Fort.
Rajkot : Land Mortgage Bank, New Building.
Hubli : Bachi Lodge, Club Road.
Hyderabad : Iftikar Mansion, 79-Azambad.
Bangalore : 193, 6th Cross Road, Gandhi Nagar.

* Shifts to 746, Gandhi Nagar, Jammu during winter.

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Cuttack : Darpan House.

Trichur : "Krishna Vihar", Kerala Varma College Road, Trichur 4.

Jaipur : M. Ismail Road.

Patna : Boring Road.

The Extension Centres which specialize in particular industries are located as follows :—

Ambala (Punjab): Shiv Nivas, Punjabi Mohalla (Scientific Glass Industry).

Batala (Punjab): 9, Guru Nanak Nagar (Agricultural Implements & Machine Tools).

Rewari (Punjab): (Footwear, Non-Ferrous Metal Industry).

Kaithal (Punjab): R.K.S.D. College Building (Blacksmithy and Carpentry).

Jullundur (Punjab): (Sports goods).

Jagadhari (Punjab): (Metal industry).

New Delhi: Balsahyog, Connaught Circus (Tailoring, Cane Working, Carpentry and Sheet Metal Work).

Faridabad: Near Railway Station (Blacksmithy and Carpentry).

Meerut (U.P.): 291, Garh Road (Sports Goods).

Ferozabad (U.P.): Park Building (Glass Bangles and Pressed Glassware).

Trichur (Kerala): West Fort (Footwear).

Shoranur (Kerala): (General Engineering and Cutlery).

Erode (Madras): B.P. Agraharam (Leather Finishing).

Coimbatore (Madras): (Foundry and Metalwork).

Madurai (Madras): (Machine shop and tool room, blacksmithy, heat treatment and electroplating).

Jamnagar (Gujarat): (Electroplating).

Kolhapur (Maharashtra): Udyam Nagar (Machine Shop).

Savarkundla (Gujarat): (Forging and Heat treatment).

Nadiad (Gujarat): Machine shop, carpentry, forging and heat treatment.

Amravati (Maharashtra): Sheet metal (No work is being carried out as technical officers are not in position).

Jabalpur (M.P.): C/o Simplex Engineering Works Compound (Machine shop, heat treatment and Electroplating).

Ujjain (Madhya Pradesh): Maleona-am (Machine shop).

Khanapur (Mysore): C/o Arun Potteries (Training-cum-production centre for pottery-ware.)

Thiruvalla (Kerala): Production centre for electric motors.

Ettumanur (Kera'a): Production centre for small tools and hand tools.

Poona (Maharashtra): (Electroplating).

Sanatnagar (Andhra Pradesh): (Heat treatment and electroplating).

Vijayawada (Andhra Pradesh): (General engineering and foundry).

Paranaidupet (Andhra Pradesh): (Glass beads).

Bhavnagar (Gujarat): (Machine shop, foundry and sand testing).

Surat (Gujarat): (Machine shop foundry, sand testing and mechanical testing).

Gwalior (Madhya Pradesh): (Machine shop, forging and heat treatment).

Indore (Madhya Pradesh): (Clocks).

Pondicherry (Heat treatment and electroplating).

Mysore: (Forging, heat treatment and machine shop).

Belgaum (Mysore): (Forging, heat treatment and machine shop).

Varud (Maharashtra): (Log cutting, carpentry, pump repair shop and oil engine).

Baruipur (West Bengal): (Carpentry workshop).

Habra (West Bengal): (Smithy workshop).

Manicktala (West Bengal): (Footwear and leather goods).

Kallai (Kera'a): (Wood seasoning and furniture design).

Attingal (Kerala): (Stainless steel utensils).

Muvattupuzha (Kera'a): (Tin printing).

Alleppey (Kera'a): (General engineering).

Vaniyamkulam (Kera'a): (Leather goods).

INDUSTRIAL ESTATES

Another feature of the industrial policy is the establishment of industrial estates. This was initiated in 1955.

The main object is decentralization. Government seeks to remove small industrial units from crowded urban areas and thus reduce the pressure on the latter, and secondly it seeks to provide small units with factory space and common facilities for efficient working.

The State Governments acquire and develop land, construct roads, put up factory buildings, arrange for supply of water and electricity and also set up common service workshops. The factory buildings in the States are then let out at concessional rents, outright sale or hire-purchase basis to small entrepreneurs.

The Government of India advance to the States the entire cost of the estates as loans. Grants are also given for specific purposes, such as planning and designing of these estates. The loans will carry interest at 4½ per cent.

These industrial estates provide better accommodation for small industries with facilities of power, water, etc. They bring industries together and facilitate the establishment of common servicing centres, introduction of modern techniques, collective purchase of raw materials and sale of finished products. They stimulate the co-operative spirit among them.

Industrial estates are of two kinds—large estates near big cities and urban areas and small ones in community development blocks.

The larger estates cost roughly from Rs. 20 to 30 lakhs, the smaller ones from Rs. 2 to 3 lakhs.

Only two—the one at Naini and the other at Okhla—are under the National Small Scale Industries Corporation. The rest are under the States.

The provision for Industrial Estates in the Second Five-Year Plan had been increased from Rs. 10 crores to Rs. 15 crores and subsequently reduced to Rs. 11·12 crores on a reappraisal of the Plan resources. The number of estates was also reduced to 90 from 100. These 90 together with the 10 sanctioned in the 1st Plan made a total of 100 estate to be set up by the end of the 2nd Plan.

From 1955-56 to the end of 1959-60, loans and grants to the extent of Rs. 819·18 lakhs had been sanctioned and Rs. 803·63 lakhs had been spent.

Upto the end of June 1960, 49 estates had been completed and 40 were functioning with 590 factories. More than 7,000 persons were working in these workshops. Total monthly production in them was about Rs. 49,10,436. As on 30th June 1960, 14 were nearing completion. When the whole programme is completed, it is estimated to provide employment for 50,000 persons in these estates.

The list of estates approved by the Commission, their estimated cost in Rs. lakhs and the Second Plan allotments in Rs. lakhs respectively are shown below.

Andhra Pradesh : Visakhapatnam (a) 20·00 ; Sanatnagar (a) 20·00 ; Vijayawada (a) 20·00 ; Samalkot (a) 7·00 ; Nandyal (b) 3·00. Total 70·00. Plan allotment 70·00.

Assam : Gauhati (a) 25·50 ; Dhekiajuli (b) 3·00 ; Total 28·50. Plan allotment 28·50.

Bihar : Patna (a) 38·99 ; Darbhanga (a) 12·11 ; Biharsharif (a) 6·91 ; Ranchi (a) 7·90 ; Total 64·91. Plan allotment 63·00.

Gujarat : Rajkot† (a) 38·13 ; Baroda (a) 12·46 ; Surat (Udhna) (a) 15·00 ; Gandhidham (b) 10·55 ; Ahmedabad (c) 15·00 ; Bhavnagar (d) 10·00. Total 101·14. Plan allotment 111·96 (Gujarat and Maharashtra).

Jammu & Kashmir : Jammu (a) 14·50 ; Srinagar (c) 16·00 ; Anantnag (c) 3·00 ; Total 33·50. Plan allotment 33·50.

Kerala : Quilon (†) (Kollakadavu) (a) 11·64; Palghat (†) (Olavcot) (a) 11·64 ; Ettumanoor (a) 11·64 ; Ollur (a) 11·64 ; Trivandrum (a) 11·64 ; Veli (d) 2·57 ; Total 60·77. Plan allotment 60·77.

Madhya Pradesh : Indore (a) 20·00 ; Gwalior (a) 12·00 ; Jabalpur (c) 22·00 ; Raipur (d) 12·00 ; Bhopal (c) 3·00 ; Satna (d) 2·50 ; Burhanpur (c) 2·50 ; Ujjain (d) 4·00 ; Katni (d) 2·50 ; Ratlam (d) 2·50 ; Sagar (d) 2·50 ; Bilaspur (d) 2·50 ; Durg (d) 2·50 ; Total 90·50. Plan allotment 77·50.

Madras : Guindy (a) 70·23 ; Virudhunagar (a) (†) 29·09 ; Erode (a) 9·10 ; Tirunelveli (b), Tiruchirapally (a), Tanjore (b), Madurai (a) 25·10 ; Marthandam (a) 2·92 ; Total 136·44. Plan allotment 82·50.

Maharashtra : Kolhapur (a) 7·00 ; Poona (Hadapsar) (a) 6·00 ; Kurla (c) 10·00 ; Nagpur (c) 6·28 ; Karad (c) 4·00 ; Nanded (c) 13·24 ; Amraoti (c) 10·50 ; Bapty Road (d) 12·54 ; Parli-Vaijnath (d) 3·00. Total 72·56. Plan allotment 111·96 (Maharashtra & Gujarat).

Mysore: Mysore (a) (†) 7·00 ; Bangalore (a) 23·00 ; Belgaum (c) 6·00 ; Harihar (c) 6·00 ; Gulbarga (c) 5·00 ; Ramanagaram (c) 3·00 ; Hubli (b) 8·00; Mangalore (c) 5·00 ; Total 63·00; Plan allotment 63·00.

Orissa : Cuttack (a) 24·20 ; Rourkela (b) 14·00 ; Jharsuguda (b) 12·00 ; Berhampur (d) 12·00 ; Kendrapara (c) 3·00 ; Total 65·20. Plan allotment 65·20.

Punjab : Batala (d) 12·00 ; Ludhiana (a) 25·10 ; Malerkotla (d) 8·50 ; Factory accommodation for SSI (d) 20·00 ; Sonepat (c) 3·00 ; Nilokheri (c) 3·00 ; Total 71·60. Plan allotment 71·50.

Rajasthan : Jaipur (a) 25·00 ; Bhilwara (a) 10·00 ; Makhupura (b) 3·00 ; Kotah (c) 5·00 ; Jodhpur (c) 4·00 ; Bharatpur (d) 8·41 ; Sriganganagar (c) 5·00 ; Udaipur (c) 3·00 ; Sumerpur (d) 3·00 ; Total 66·41. Plan allotment 66·41.

Uttar Pradesh : Kanpur† (a) 50·00 ; Agra (c) 50·00 ; Deoband (c) 10·00 ; Varanasi (c) 3·00 ; Luni (c) 3·00 ; Total 116·00. Plan allotment 104·00.

West Bengal : Kalyani† (a) 54·03 ; Baruipur (a) 5·62 ; Saktigarh (c) 4·28 ; Howrah (d) 30·65; Siliguri (d) 5·42 ; Total 100·00. Plan allotment 100·00.

Total for States : 1,140·03.

National Small Industries Corporation Private Ltd. :—

Uttar Pradesh : Naini (a) 26·00.

Delhi : Okhla (a) 100·00.

Total for NSIC 126·00. Plan allotment 126·00.

Union Territories :—

Tripura : Arundhutinagar (b) 3·00. Plan allotment 3·00.

Delhi : Badli (d) 3·00. Plan allotment 3·00.

Himachal Pradesh : Solan (c) 3·00. Plan allotment 3·00.

Pondicherry : Thattanchavadi (d) 5·41. Plan allotment 5·41.

Total for Union Territories : 14·41.

Grand Total : 100 : 1,280·44. Plan allotment 1,148·25.

There are nine estates in the pilot project areas, and 20 in community development block areas.

The nine are : Samalkot, Kolhapur, Pappanamcode, Bhopal, Erode, Pata'a, Malerkotla, Deoband, Baruipur.

The estates in community development areas are : Nandyal, Biharsharif, Karad, Anantnag, Veli, Satna, Marthandam, Ramanagaram, Kendrapara, Sonepat, Nilokheri, Makhupura, Varanasi, Luni, Saktigarh, Badli, Solan, Arundhutinagar.

a = started functioning. b = ready but not yet started functioning. c = under construction. d = construction has not been started. † Industrial estates sanctioned during the 1st Plan period. In case of Okhla however no loan was sanctioned during the 1st Plan.

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STEEL INDUSTRY*

THE first successful and the most outstanding attempt to manufacture steel in the country on a commercial basis was that of the Tata Iron & Steel Co. which started its Steel Works at Sakchi in the year 1908. Pig iron was made in 1911 and the first steel ingot a year later.

The Indian Iron & Steel Company was started in 1918 at Hirapur about 4 miles from Asansol junction on the Eastern Railway for producing pig iron. Eighteen years later it floated another company, the Steel Corporation of Bengal to manufacture steel. Towards the end of 1952 the two companies were merged.

An iron works was started at Bhadravati in Mysore State in 1921 to which a steel plant was added in 1934. During World War II, a 25-ton basic furnace and two small electric furnaces were installed.

The total capital investment in the private sector is about Rs. 191 crores and the number of workers employed about 60,000. Of the total investment, Tatas account for Rs. 135 crores and the Indian Iron and Steel Co. for Rs. 56 crores.

The three steel plants set up in the public sector during the second Plan period are Rourkela, Bhilai and Durgapur mills. Hindustan Steel (Private) Ltd. re-formed on April 1, 1957. The shares are owned wholly by the Central Government. The authorized share capital is Rs. 300 crores.

The revised overall cost of the three public sector steel projects are: Rourkela Rs. 170 crores (excluding Rs. 44 crores representing the cost of all other ancillaries including township, water supply system, iron ore mines, limestone quarries and railway sidings); Bhilai Rs. 131 crores; Durgapur Rs. 138 crores (excluding the township fees to consultants and other ancillaries estimated to cost Rs. 29 crores).

Each of these has a production capacity of about a million tons with scope for increase. All the three have already gone into production.

(For details see under 'Government Industrial Undertakings').

The Second Plan target of steel production was fixed at 6 million tons (or about 4·7 million tons of saleable steel), as against the then production level of less than 1·5 million tons. This was proposed to be achieved by raising the capacity of the Tata Iron and Steel Works at Jamshedpur from 900,000 tons to 2 million tons, of the Indian Iron and Steel Company's works at Burnpur from 500,000 tons to 900,000 tons and of the Mysore Iron and Steel Works from 30,000 tons to 100,000 tons. The remaining three million tons were to be produced by setting up three new works in the public sector at Rourkela, Bhilai and Durgapur.

PRODUCTION

The recent trend of production in India is given below :—

Year.	Pig iron.	Steel ingots.	Semi-finished steel.	(000 tons) Finished steel.
1955	1,757	1,704	1,457	1,260
1956	1,807	1,738	1,484	1,337
1957	1,789	1,715	1,440	1,346
1958	2,003	1,813	1,600	1,300
1959 †	2,994	2,434	2,542	1,832
Jan.-Aug. 1960 †	2,600	2,023	2,123	2,220‡
Installed Capacity (September 1960)	2,771	2,189	1,366	1,730

† In metric tons. ‡ During 1960.

A team of experts was sent to China and Japan in March-April 1959 to study the working of the industry there.

The steel delegation recommended in its report that there was scope for setting up some modern small-size blast furnaces and side-blown converters in areas in India where conditions were favourable for such units (as already reported). The delegation considered that construction of a few small plants entirely from Indian designs and with Indian material would give confidence to designers and construction engineers in this country though it was emphasised that it would only be an experimental measure. Adjustments would be necessary to allow for local conditions and further pilot plant tests would have to be carried out before assessing the suitability and economics of small blast furnaces and side-blown converters for the production of iron and steel on a commercial scale even in selected areas.

The Government of India has generally accepted the recommendations and sanctioned eight schemes totalling a capacity of 300,000 tons in the private sector for the production of pig iron. The blast furnaces that started production in 1959 produced 1·5 million tons of pig iron upto Oct. 1960. Two small blast furnaces with an annual capacity of 15,000 tons (one in Madras and the other in Orissa) went into production in 1959. Seven more were sanctioned in 1959 — two in Madras, three in Bombay,† one in West Bengal and one in Madhya Pradesh.

In 1958-59, 28 scrap-based furnaces with a capacity of about 187,000 tons per annum were licensed. The capacity of furnaces existing in 1959: 150,000 tons. Production: 58,782 tons of ingots, 38,928 tons castings. Availability of scrap: 600,000 tons a year.

In all, the steel expansion programme is estimated to cost around Rs. 439 crores.

The Tata expansion plans took place in two stages, first to 930,000 tons, and then to 2,000,000 tons of steel ingots to be rolled into 1,500,000 tons of finished steel. The Tata expansion, which had practically been completed by March 1959, cost Rs. 95 crores, including expenditure on ore mines, collieries and other ancillaries.

The Company obtained for this purpose two loans from the World Bank totalling 32·5 million dollars and one from the Government of India of Rs. 10 crores.

The expansion was undertaken through agreement with Henry J. Kaiser Co. of California, U.S.A.

The Indian Iron and Steel Co. obtained from the World Bank two loans totalling 50·02 million dollars to meet the foreign exchange cost of the expansion programme. The Central Government has given a loan of Rs. 7·9 crores and a special advance of Rs. 10 crores. The approximate production of saleable steel by the I.I.S.C. during Dec. 1960 was 61,395 m. tons. Pig iron production during the month was 111,516 against 106,490 m. tons in November. Steel ingots output was 86,424 m. tons against 76,169 m. tons in November.

The first of the two new blast furnaces went into operation in Feb. 1958 and the second went into production in 1959. The cost of the expansion was Rs. 50 crores (original estimate).

The production of steel during 1961-62 is expected to be 3·5 million tons in the public sector.

(For the Mysore Iron and Steel Works see under 'Government Industrial Undertakings').

PRICE AND DISTRIBUTION

Since the war in 1939 the price and distribution of steel have been controlled by the Government.

The prices of all controlled categories of steel were raised by Rs. 70 per ton uniformly in May 1957. The increase followed the enhancement of excise duty on steel from Rs. 4 per ton to Rs. 40 per ton with effect from 16th May 1957.

On 11th November 1959, the Government of India again raised the retention prices payable to the Tata Iron and Steel Company (T.I.S.C.O.) and the Indian Iron and Steel Company (I.I.S.C.O.) by Rs. 5 per ton to Rs. 424 per ton, excluding the excise duty of Rs. 45·75 per ton for the period 1955-56 to 1959-60 for all categories of steel taken together. The I.I.S.C.O. had represented to the Government in December 1958 that their costs had risen as a result of increases in wages, railway freight, prices of coal etc. A similar representation was made by the T.I.S.C.O. in January 1959. The two representations were considered by the Government and the matter was referred to the Cost Accounts Branch of the Ministry of Finance in April 1959 for examination, which made the following recommendations:

(*i*) The average retention price payable to the T.I.S.C.O. and the I.I.S.C.O. for the period 1955-56 to 1959-60 on all categories of steel taken together should be increased by Rs. 7 per ton, if negotiated labour settlements are to be accepted and Rs. 5 per ton if such settlements are not accepted.

(*ii*) The 1954-55 retention prices for the I.I.S.C.O. as adjusted from time to time, should be increased by the same amount as mentioned in (*i*) above and consequently, the average amount per ton to be credited by the Company to its development fund during the period 1955-56 to 1959-60 shall remain unchanged.

(*iii*) As the 1954-55 retention price for the T.I.S.C.O. has increased only by Rs. 4 per ton, as against the present increase of Rs. 7 per ton in the retention price if negotiated settlement is to be taken into account and Rs. 5 per ton, if negotiated settlements are to be ignored. The average amount to be credited by the T.I.S.C.O. to its development fund during the period 1955-56 to 1959-60, should be increased by Rs. 3 per ton, if negotiated settlements are admitted and Re. 1, if they are not accepted.

The Government of India stated in November 1959 that they were examining separately the question of admitting increases in labour costs due to negotiated settlements. The latest increase in the retention price, it was claimed, had enabled the T.I.S.C.O. to increase its contribution by Re. 1 to its development fund, i.e. to the level of Rs. 50 per ton and the I.I.S.C.O. to maintain its contribution of Rs. 7 per ton.

A year later, that is, in November 1960, the Government raised the average retention price payable to the two companies by Rs. 4·85 per ton for the period 1955-56 to 1959-60. This brought the total increase for the five years to Rs. 29·85 per ton. The latest price increase did not, however, involve any rise in the official selling prices of steel which average Rs. 598 per ton uniformly at all rail-heads.

Retention prices for tin plates were also revised during 1954 and on the recommendation of the Tariff Commission, they were fixed at Rs. 807 per ton for 1953 the same level as for 1952 and were reduced to Rs. 762·9 per ton for 1954-56.

The Tariff Commission had recommended a price increase of Rs. 10·64 per ton on a weighted average basis for the period from 1st August, 1954 to 31st March 1960 for pig iron produced by the I.I.S.C.O. The Government of India, while accepting the recommendations of the Tariff Commission in regard to the actual increases in costs, do not consider that the increases should be given a weighted average basis. An increase of Rs. 17·23 per ton has been granted from 8th July 1957. The previous retention price of T.I.S.C.O. pig iron was Rs. 141·5 per ton.

The pig iron production at Burnpur Works not being separately costed, the Government have decided that increase in prices recommended by the Tariff Commission and accepted by Government should be applied to the kulti pig iron till the kulti plant ceased to operate and to the corresponding grades of pig iron produced at

* See also under 'Government Industrial Undertakings'. † Bilingual.

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the Burnpur Works up to the end of March 1954 finally, and thereafter provisionally, with the intention that the prices of pig iron produced at Burnpur after 1st April 1958 should be examined separately and adjustments based on costings made later.

The increase of Rs. 12·92 per ton in the retention price of the pig iron produced by Tatas for the period 1958-60 was granted by the Government of India. The previous retention price of Tatas was Rs. 128 per ton.

The T.I.S.C.O. represented to the Government that they were incurring increases in costs in the manufacture of pig iron. The Tariff Commission recommended a price increase on a weighted average basis of Rs. 9·54 per ton for the period 1955-56 to 1959-60. The Government accepted the recommendation on the basis of actual increases instead of on a weighted average basis.

SUPPLY POSITION

The total output of saleable steel during the Second Plan period is estimated at about 11 million tons, as against the overall requirements over the five years assessed by the Planning Commission at about 17 million tons. Production was expected to be equal to the demand only in the last year of the Plan. The total demand of steel in 1960–61 was 5·06 million tons against 4·1 million tons in 1959–60. The total availability in 1960 was about 3·2 million tons against 2·6 million tons in 1959. To meet the increased demand it has been decided to set up an integrated steel plant at Bokharo in Bihar during the Third Plan with an initial capacity of one million tons of ingots.

To relieve shortage due to the wide gap that exists between the demand for steel and the supplies available from internal sources, there have been sizable imports of steel.

The aggregate imports of iron and steel during 1960 (upto Nov.) amounted to 10·3 lakh tons as against 8·39 lakh tons in 1959 and 11·73 lakh tons in 1958. Arrangements had been made with various countries, including the U.S.A., the U.S.S.R., W. Germany, Japan, the U.K., Poland, Czechoslovakia, Hungary, China, Belgium and Yugoslavia, for the supply of steel during the period 1956–59.

An agreement had been signed with the Soviet Union for the supply of one million tons of steel in the first three years of the Plan period.

The total supply of steel during 1959 was 25·87 lakh tons, including 17·68 lakh tons from indigenous sources.

The supply position in 1959 eased with the first saleable steel—billets and plates—from the public sector plants at Bhilai and Rourkela.

About 200,000 tons of steel were also brought from the U.S.S.R. Arrangements had been made to purchase about 200,000 tons with funds coming from the U.S. Government D.L.F. Loan. Substantial quantities of steel for Railways were purchased by them, again out of funds coming from the U.S. Development loan. A few contracts for the purchase of steel against the export of scrap, iron ore and manganese ore were also concluded.

During the First Plan, exports of steel were mainly restricted to obligations arising from bilateral trade agreements and other inevitable commitments. With the completion of the steel development programmes, Indian steel should be available for export, especially to the whole of South-East Asia. The Second Plan envisaged an export target of 2 lakh to 3 lakh tons of steel in 1960-61.

The total exports of ferrous scrap during 1959 amounted to 266,907 tons, as against 116,615 tons in 1958 and 92,944 tons in 1957. For the first time since 1953, pig iron was exported. Exports of about 258,900 tons were finalised in 1959.

RE-ROLLING MILLS

The steel re-rolling industry in India had its beginnings about the year 1928. The industry began as a salvaging and processing industry, making mostly wire rods and wire products from cast-away rails. It began to grow in the thirties.

During the war years, in conditions of extreme scarcity, the re-rolling industry grew quite rapidly to meet the demand for products which otherwise would have been produced by integrated iron and steel works.

At present (Feb. 1960) there are over 160 re-rolling mills in the country, of which three make distinctly special products, namely tin plates and tubes. Geographically the re-rolling units are well dispersed in almost all parts of the country. Largest concentration, however, is in Calcutta, Punjab, Kanpur and Bombay regions. In the south the mills are too few in number.

The Committee which reported on re-rolling mills (in April 1957) estimated the capacity of all the re-rollers in the country at about 700,000 tons on single shift. To meet this demand, about 700,000 tons of billets, it was said, had to be produced by the steel works in Jamshedpur, Burnpur, Bhilai and Durgapur. With these billets and with the increasing quantities of scrap which would be available, the industry should be able to run two shifts comfortably.

While in the country as a whole, there is an adequate number of re-rolling units, the Committee recommended the establishment of new re-rolling units in certain States where there are no units at present. One new re-rolling unit each has been sanctioned in Assam, Andhra Pradesh, Bihar (north of Ganges) and Kerala.

In addition, some plant and machinery have been licensed by the Iron and Steel Controller to be obtained from abroad or indigenously, mainly for replacement. The additional capacity has been assessed at 104,760 tons per annum.

Re-rollers use steel semis (Billets) and steel re-rollable scrap for rolling steel sections mostly lighter sizes of bars, rods, flats, hoops and strips, etc. The main sources of supply are the Main Producers, Messrs. Tata Iron & Steel Co., Ltd., Indian Iron & Steel Co., Ltd., Hindustan Steel Ltd. (Bhilai and Durgapur). Re-rollable scrap is also available from miscellaneous other sources such as, the Railways, Engineering Concerns, etc. Present availability both of billets and scrap is inadequate and so the full capacity is not being utilised.

The re-rollers at places like Amritsar, Jullundur, etc. situated at considerable distance from the ports had to incur heavy freight charges which inflated their production costs. Relief was given to them from May 1954 through the fixation of a maximum freight charge at Rs. 60 per ton. Similarly in 1955–56 the Government extended the port prices to Jamshedpur and Burnpur to encourage the growth of industries in the vicinity of steel plants.

A seamless tube plant belonging to the Indian Tube Company (1953) Ltd. was formally inaugurated in Jamshedpur in the last week of January 1960. Work on the tube project commenced in 1953 and the first plant, the Fretz-Moon tube mill, came into operation in November 1955. The second plant, the Rs. 2-crore electric resistance weld mill and the ancillary cold rolled strip plant, went into production in April 1957.

The seamless tube plant, which has now been added, represents the third and final phase of the project. The present capacity of the works is about 140,000 tons of steel tubes per year. The Company has also established capacity at Jamshedpur for the manufacture of 30,000 tons per year of cold rolled steel strip for use in tube making and for sale as strip. In addition, a plant has been installed for the fabrication of upto 150,000 tubular steel poles per year.

With the commissioning of the 140,000-ton Jamshedpur tube plant, the total installed capacity of the tube industry now works out at 175,000 tons a year.

The Kalinga Tubes (Cuttack) account for a capacity of 30,000 tons and the Tube Investments in Madras for 5,000 tons.

The great bulk of the total capacity—about 68 per cent—is in Fretz-Moon tubes used for conveyance of gas, water and steam.

The other category of electrically welded precision tubes, used mainly in railway locomotives, bicycles and steam boilers, accounts for another 14 per cent. Seamless tubes make up the balance of 18 per cent, the main applications being high-pressure conveyance of gas, manufacture of transmission poles and lighting columns for water-well casing, besides numerous other industrial applications.

Estimates of large-scale and small-scale units : Generally speaking, the industry is a small to medium scale one. The individual units are, however, of varying sizes and capacities. There has been some increase in the capacities of mills due to improvements effected. The potential capacity of the industry is of the order of 2 million tons per annum.

Production over last three or four years with dates : 1958 : 416,000 tons ; 1959 : 568,000 tons; 1960 : 823,052 tons.

Total investment in the industry is estimated to be of the order of Rs. 25 crores.

It is estimated that about 40,000 persons are employed by the industry in various parts of the country.

A project has, however, been approved for setting up a unit at Rourkela which will produce 100,000 tons of tubes a year in sizes varying from 8″ to 20″ in diameter. Thus, the third Plan will see India manufacturing substantial quantities of tubes in sizes ranging from ½″ to 20″. The foundations of self-sufficiency have thus been laid.

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SUGAR INDUSTRY

THE sugar industry is the second largest industry in India next only to the textile industry. According to the official Census of Manufacture for 1957, the total capital of the industry was Rs. 126·26 crores of which Rs. 46·10 crores were fixed capital and Rs. 80·16 crores were working capital. The annual value of the industry's products for 1959–60 is estimated at Rs. 263 crores.

There were in 1960, 168 units of which 20 were in the co-operative sector.

The labour employed in sugar industry is roughly 1,40,000 skilled and unskilled workers and about 3,600 University educated men. The total earnings of workers are Rs. 13·03 crores. The industry supports 20 million cultivators and their families and contributes about Rs. 68 crores in levies to the national exchequer.

On the basis of an average crushing season of 120 working days and assuming a recovery of 10 per cent sugar, the rated capacity of the existing factories in 1959-60 was 2·10 million tons of sugar per annum. This was expected to rise to 2·28 million tons in 1960–61, the last year of the second Five-Year Plan.

The growth of the industry is attributable to the protection given to it in 1932 which was continued till 1950. The industry has considerable influence on the agricultural economy in so far as it gives sustenance to millions of cultivators spread over most of the States in the country. The economy of U.P. and Bihar is particularly tied with the development of this industry since 65 per cent of the sugar produced is from these two States.

The industry also produces a variety of raw materials for other industries such as power alcohol, paper, paper board, and straw board.

The industry has mainly developed in the private sector.

Recently under the Second Five-Year Plan encouragement has been given to co-operative ventures and licences have been given to 38 co-operative factories.

Of the existing 168 factories which worked in 1959, 20 were co-operatives.

During the last two Five-Year Plans, the Government had issued licences for (a) 55 new units with an annual capacity of 6·4 lakh tons of sugar and (b) expansion of 68 existing units to realise an additional capacity of 4·24 lakh tons of sugar.

By the end of 1960–61 it was expected that 43 new factories would have come into being with an additional production capacity of 5·15 lakh tons and 69 existing factories would have expanded their capacity for an additional production of 3·34 lakh tons.

Twelve of the new units are expected to be installed only during the Third Plan after the plants are manufactured by the consortia of machinery manufacturers.

The Wage Board for Sugar Industry, appointed in 1957, submitted its report to the Government on November 28, 1960. Earlier the Board made an interim report which gave certain benefits to the workers. This had effect from January 1, 1959, and was largely carried out by the industry.

The Government of India announced on February 23, 1961 their acceptance of the recommendations of the Central Wage Board for Sugar Industry subject to certain considerations.

(*a*) *Workload studies :* Government has taken note of the Board's recommendations that workload studies be undertaken in the sugar industry and that such studies should be preceded by reasonably specific programme of implementation drawn up in consultation with the organisations of the interests concerned. Government propose to consider the matter further in consultation with the parties.

(*b*) *Bonus :* Government commends the bonus formula for the north and central regions recommended by the Wage Board. If, however, the parties concerned in any of the States included in these regions agree to adopt any other formula for determination of bonus payable in respect of a particular period, they may be allowed to do so.

PRODUCTION

The details of sugar production are given below :—

Year Ended October	Installed capacity (Lakh Tons)	Sugar output (Lakh Tons)
1952	15·40	14·97
1953	15·40	12·94
1954	15·40	10·01
1955	15·40	15·90
1956	16·60	18·62
1957	17·30	20·29
1958	18·70	19·75
1959	20·00	19·18
1960	21·00	24·18 (approximately)

Production in 1961 is estimated at 26 lakh tons.

The State-wise production in the two seasons 1958-59 and 1959-60 is given below :—

States	Sugarcane crushed (1,000 tons)		Sugar produced (1,000 tons)	
	1958-59	1959-60	1958-59	1959-60
Uttar Pradesh	9,244	12,592	888	1,223
Bihar	3,175	3,500	311	325
Maharashtra and Gujarat	2,799	3,492	320	398
Andhra	1,279	1,394	120	138
Punjab	805	1,101	69	101
Madhya Pradesh	223	290	21	28
Mysore	817	809	85	91
Madras	812	727	74	75
Rajasthan	77	139	7	12
Kerala	133	119	11	10
Orissa	30	30	3	3
West Bengal	70	98	7	10
Assam	23	58	2	4
All India	19,487	24,349	1,918	2,418

The size of factories operating in India varies, the largest group being within 800 to 1,000 tons capacity. About one-third of the factories are of 800 or less and another one-third are of 1,000 tons or more capacity.

The Sugar Industry did remarkably well in 1959-60 by achieving an all-time record production of 24·18 lakh tons. In the previous two seasons the industry could not maintain the upward trend it showed since 1953-54, due mainly to the increasing diversion of cane to khandsaris.

In 1959-60 the Government announced certain incentives and concessions both to the growers and the industry. The growers were given the incentive of higher cane price, as it was raised from Rs. 1·44 to 1·62 per md. for gate deliveries and from Rs. 1·31 to Rs. 1·50 per md. for deliveries at rail centres. To the industry a rebate of 50 per cent in the basic excise duty was granted on all sugar produced in excess of the average production of the previous two seasons. Further, the factories in U.P. and Bihar were given the concession of 31 nP. per md. of cane crushed by them before certain fixed dates.

As a consequence of the increase in cane price, Government decided to raise the ex-factory controlled price from Rs. 36 to Rs. 37·85 per md. in U.P. and North Bihar and from Rs. 36·50 to Rs. 38·35 per md. for the Punjab. The revised prices came into force from 25th October 1959 and applied to all stocks held by sugar factories on that date as also the sugar which was produced after that date. The fixed F.O.R. destination prices in respect of allotments made to Kanpur and Calcutta was Rs. 38·60 and Rs. 39·85 per md. respectively.

The policy of incentives has been continued for 1960-61 also. Besides the increased cane price, the factories have been given the incentive of 50 per cent rebate in excise duty on production achieved in excess of the average of the last two years. Further, the State Governments of U.P. and Bihar have announced a remission in cane cess at the rate of six naye paise per md. of cane crushed in excess of last season's crush provided the factories started their operations for the season on or before 4th November 1960 in the case of West U.P. and on or before 10th November 1960 in the case of East U.P. The Sugar output in 1960-61 is expected to be about 26 lakh tons. Production of white is valued at Rs. 200 crores per year and gur and khandsari account for Rs. 200 crores annually.

CANE PRODUCTION

The principal raw material is sugarcane. Tota cane consumption in 1959–60 was 24·34 million tons for a production of 2·41 million tons of sugar. Cane produces just one-tenth of its weight in sugar. Approximately 30 per cent of cane is consumed by sugar factories. Balance goes to production of gur and khandsari and for chewing and other purposes.

Although over 90 per cent of the cane acreage is now under improved cane varieties evolved by the Coimbatore Institute, the per acre yield and the sucrose content have not improved materially. This accounts for the high cost of sugar.

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The following table gives the details:—

Year	Acre under sugarcane (000 acres)	Total output of sugarcane* (000 Tons)
1951-52	4,792	60,680
1952-53	4,376	52,600
1953-54	3,498	43,673
1954-55	3,994	57,600
1955-56	4,565	59,820
1956-57	5,057	66,998
1957-58	5,080	68,019
1958-59	4,836	70,915
1959-60	5,178	75,038

The first estimate of acreage for 1960-61 is 51,57,000.

Generally the area at the first estimate stage forms roughly 95 per cent of the area under the crop finally reported. The first estimate for 1960–61 shows an increase of 3·71 per cent in acreage over the corresponding adjusted estimate of 4,975,000 acres in 1959–60.

The sugar position during the year 1959–60 was satisfactory. We started with a carry over of 1·74 lakh tons and with the 1959–60 production of 24·18 lakh tons the total availability was 25·92 lakh tons. As against this our consumption was expected to be around 20·50 lakh tons. The carry forward at the end of the year was expected to be more than 5·2 lakh tons.

In 1959–60, the sugarcane crop position was also satisfactory. Larger area was under sugarcane crop and this resulted in a higher output. But the per acre yield has not shown any improvement. It was only 14·49 tons as against the previous season's figure of 14·66 tons. The quality of cane has shown a slight improvement, as the factories could recover 9·89 tons of sugar per 100 tons of cane, as against 9·86 tons during the previous year.

The increase in production of sugarcane in 1959–60 was mainly in Andhra Pradesh, Bihar, Punjab, Mysore and West Bengal. There was some slight decrease in production in Bombay†, Madhya Pradesh, Madras and Rajasthan, while U.P. maintained its last season's production with slight increase.

According to the first estimate for 1960–61, the increase in acreage has been shared by almost all the States and it is particularly marked in U.P. and Punjab.

The draft outline for the Third Five-Year Plan envisages a target of 30 lakh tons of white sugar and six million tons of gur and khandsari to be achieved by 1965–66. It also envisages a target of 92·0 million tons of sugarcane, as against the Second Plan target of 78 million tons and the actual production of about 75 million tons in 1959–60. Intensive development schemes for cane are being stepped up, in order to fulfil the targeted yield.

CONSUMPTION

Consumption of sugar in the country is steadily increasing. It rose from 17·22 lakh tons in 1954–55 to 20·80 lakh tons in 1958–59. However the consumption in 1959–60 is expected to be slightly lower at 20·50 lakh tons due to limited releases of sugar by the Government in the beginning of the season, transport bottlenecks and freer availability of khandsari.

The per capita consumption which was about 6·6 lbs. before the Second World War and about 7 lbs. in 1950–51 has risen to 11·2 lbs. In addition, per capita consumption of gur and khandsari comes to 20·8 lbs. bringing the total per capita consumption of sweetening agents to 32·0 lbs. which is far behind the 60 to 120 lbs. per capita of the industrially developed countries in the West.

EXPORTS

The Government of India have announced an export quota of 50,000 tons of sugar out of 1959–60 production. In 1957–58, India exported more than 150,000 tons and in 1958–59 an export quota of 100,000 tons was announced, but only a small portion less than 20 per cent of the quota was actually exported.

The Government are also exploring the possibilities of exporting a substantial quantity to the United States of America, who pays an appreciable premium over the World sugar prices for sugar purchased by it.

SUGAR MACHINERY

Two consortia of manufacturers, the first consisting of Messrs. Walchandnagar Industries, TEXMACO and Indian Sugar and General Engineering Corporation, and the second consisting of K.C.P. Ltd., Binny & Co., and New India Development Corporation, have been formed to manufacture complete plants in India.

The consortia have been charged with the task of producing 7 complete plants to be delivered in 1960–61. Besides, 2 plants each will be delivered outside the consortia by Messrs. K.C.P. Ltd., Madras and the Walchandnagar Industries, Bombay. Foreign exchange to the tune of Rs. 70 lakhs have been released for equipping the workshops of these firms. The indigenous content of each plant will be 75 per cent. The machinery manufacturers will from 1963 onwards be able to manufacture 12 plants per annum which is expected to make the country self-sufficient.

The production of sugar machinery in the country has been gradually increasing and the value of such machinery was as follows: 1955: Rs. 19 lakhs, 1956: Rs. 32 lakhs, 1957: Rs. 162 lakhs, 1958: Rs. 200 lakhs, 1959: Rs. 320 lakhs, 1960: Rs. 350 lakhs (est.).

It is expected that after 1963, by which time the existing manufacturers are expected to achieve full production, the industry will be in a position to supply every year 12 complete sugar plants of the capacity of 1,000 to 1,250 tons and the equivalent of about nine complete plants by way of expansion and replacement requirements of the sugar industry. This will meet the needs of the country except in regard to turbo-alternators and mill engines.

TARIFF COMMISSION

The Tariff Commission submitted its report on sugar industry during 1959–60 to the Government. The Commission was required to report on (1) cost structure of sugar, (2) fair price of sugar payable to the industry and (3) claims of the sugar industry for rehabilitation charges and profit. It selected 48 factories in the principal manufacturing regions for examination and prepared four separate schedules of cost of production for (1) the Northern Region comprising the States of Uttar Pradesh, Bihar and Punjab, (2) Bombay State,† (3) Madhya Pradesh and (4) Southern Region comprising the States of Andhra Pradesh, Mysore and Madras.

The main recommendation in regard to the cost structure is that from year to year the price for each region should be determined according to duration and recovery with the help of the regional schedules prepared by the Commission, and thereafter a fair price for the industry should be fixed at a level which would cover the fair prices of the four regions. The Commission recommended a gross return to the industry of 12 per cent on capital employed. As regards the industry's claim for rehabilitation charges, the Commission did not agree to include it as an item of cost.

* In terms of the weight of the cane.

† Bilingual.

CO-OPERATIVE SECTOR

The total quantity of sugar produced by co-operative sugar factories during 1957–58, 1958–59 and 1959–60 crushing seasons was 1·50 lakh tons, 1·79 lakh tons and 2·85 lakh tons respectively.

Fifty-two sugar factories had been licensed upto Jan. 1961, of which 24 were in production in Nov. 1960 and seven scheduled to go into production by Feb.–March 1961.

In a co-operative unit the shareholders are the sugarcane growers whose production of cane the co-operative is expected to market after processing it into sugar. The only exceptions to this rule are the shares issued to co-operative societies within the area of operation of a sugar co-operative, and the shares issued to the State Government in question. The State Government's share capital contribution is in the nature of an initial assistance to make up the funds required for setting up the plant and particularly to enable the co-operative to borrow long-term loans for the same purpose from institutions like the Industrial Finance Corporation of India. The participation of the co-operative societies in the area of operation is in the nature of a sympathetic gesture. The shares issued to the State Government are redeemable over a period of time. Thus, essentially, the shareholders of a sugar co-operative are the producers of cane themselves.

To a private sector factory, sugarcane is a raw material which it has to purchase. In a sugar co-operative there is no purchase of sugarcane from members. The co-operative processes the cane. What is left over from the total realisations from its production after meeting all the external costs, is the amount available for distribution among the growers. From the same amount, other items such as contributions to reserves, dividend on share capital and bonus to staff have to be accommodated.

The co-operatives are run by boards of directors. The day to day affairs are conducted by a Managing Director who is a full-time employee and who carries on the business of the society in accordance with the society's bye-laws which lay down the matters in which the Managing Director is competent to act under his own powers and the matters in which he has to take the prior sanction of the board of directors or the executive committee or the other sub-committees, as the case may be.

A National Federation of Sugar Factories was set up in Dec. 1960 to co-ordinate the efforts and to assist in the promotion of sugar factories and to provide technical assistance and guidance to them.

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The following table shows the position of Co-operative Sugar Factories as on 30th June, 1960:

(Rs. in lakhs)

Name of Societies	No. of Members	Total Amount of share capital	State Govt. contribution to share capital	I.F.C. loan sanctioned
Assam				
1. Assam Co-operative sugar Mills ..	6,980	39·66	27·00	60· 0
Bihar				
2. Purnea	2,946	19·43	10·00	—
Madras				
3. Maduranuakam	2,546	43·33	20·00	50·00
4. North Arcot	2,382	31·00	25·00	55·00
5. Amaravati	1,359	40·11	20·00	55·00
Mysore				
6. Bellary	3,335	37·09	25·00	60·00
7. Sankeshwer	1,682	20·79	10·00	75·00
8. Pandavapura	4,606	27·90	15·00	60·00
Orissa				
9. Aska	2,336	24·99	20·00	—
Punjab				
10. Janta	12,077	49·74	20·00	45·00
11. Haryana	10,064	49·88	20·00	55·00
12. Panipat	11,054	41·72	20·00	51·00
13. Morinada	10,598	29·56	12·00	—
14. Batala	7,277	32·07	10·00	—
Uttar Pradesh				
15. Baghpat*	2,932	30·197	14·997	60·00
16. Sarsawa*	2,973	23·90	15·00	—
17. Bazpur*	1,230	46·79	20·00	75·00
Andhra Pradesh				
18. Ettikopokka	2,120	13·57	—	—
19. Chodavaram	3,910	31·40	20·00	75·00
20. Amadalavalasa	1,403	31·07	20·00	75·00
21. Palakole	1,554	28·19	20·00	75·00
22. Chittoor	3,070	29·29	20·00	75·00
23. Tandava	1,560	4·99	—	—
24. Anakapalle	—	—	—	—
Gujarat				
25. Bardoli (Khodut)	1,884	32·09	10·00	52·50
26. Kodinar	1,418	25·70	10·00	60·00
27. Gandevi	1,703	18·00	8·00	—
Maharashtra				
28. Paravara	1,443	47·68	10·00	56·00
29. Bhogawati	1,698	29·01	10·00	65·00
30. Kopergaon	937	49·05	10·00	40·00
31. Malegaon	1,429	32·38	10·00	52·00
32. Rahuri	1,437	36·61	10·00	50·00
33. Warna	1,820	26·06	10·00	65·00
34. Panchganga	1,783	25·98	10·00	65·00
35. Karegaon (Ashok)	1,152	34·33	10·00	52·00
36. Ganesh (Rahata)	1,752	37·98	10·00	52·00
37. Shriam	1,543	35·01	10·00	47·50
38. Girna	1,206	28·15	10·00	65·00
39. Shivaji	716	27·14	10·00	24·00
40. Krishna	1,827	38·76	20·00	75·00
41. Shetkari	1,524	22·07	10·00	65·00
GRAND TOTAL	1,25,304	1,271·799	552·097	1,888·50

* As on 31-3-1960.

Sugar produced in tons during the season 1959–60: *Maharashtra* — Malegaon 16,843; Bhogawati 10,581; Kopargaon 19,452; Rahuri 18,743; Warana 8,368; Panchganga 10,171; Ashok 17,206; Ganesh 15,885; Phaltan (Shriram) 15,742; Girna 12,666; Sansar 11,663; Sangli 8,829; Pravaranagar 23,617; *Gujarat* — Bardoli 4,844; Kodinar 4,413; *Mysore* — Bellary 12,359; Pandawapura 4,799; *Andhra Pradesh* — Etikoppoka 8,394; Anakapalle 3,491; *Panjab* — Rohtak 12,938; Bhogpur 12,492; Panipat 12,859; *Uttar Pradesh* — Bazpur 15,360; *Assam* 4,233. *All-India* — 2,85,548.

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TEA INDUSTRY

TEA ranks as the largest item in India's export trade. It earns every year a foreign exchange of about Rs. 120 crores and a revenue of about Rs. 19 crores from export duty and Rs. 4 crores from excise

During 1959 tea exports were valued at Rs. 126·39 crores forming over 20 per cent of the total value of exports. The actual revenues earned through customs and central excise duties on tea during 1958-59 were Rs. 16 crores and Rs. 5 crores, respectively. The budget estimates for 1959-60 are Rs. 13·50 crores and Rs. 7·65 crores.

The State Governments also derive considerable revenue from the agricultural income-tax on tea grown within their jurisdiction as well as from the sales tax, carriage tax, octroi, etc. on the commodity.

The industry as a whole gives employment to a labour force of almost one million. The daily average number of persons actually employed in 1957 was 997,421.

Unlike China, which consumes all its tea, India exports a substantial portion of tea produced in the country. Out of the total production of 719·68 million lbs. in 1959, as many as 472·48 million lbs. were sold abroad. India meets nearly 40 per cent of the world demand for tea.

The present trend of production indicates that the production during 1960 will be slightly lower than that in 1959.

There are about 8,071 registered gardens with a total area of nearly 810,000 acres under tea. Of these, 598,685 acres are in Assam and West Bengal, while Madras, Mysore and Kerala account for nearly 179,873 acres, and the rest are in Bihar, U.P., Tripura, Punjab and Himachal Pradesh.

There are over 700 joint stock companies engaged in the tea industry. The total paid-up capital in the industry as a whole is about Rs. 74 crores. The number of Indian companies is about 540 with a paid-up capital of about Rs. 25 crores. (Latest available.)

Profits and dividends accruing to non-residents 1958-59: Rs. 5·8 crores. Remittances of profits and dividends 1958-59: Rs. 7·3 crores. (Latest available.)

The production target of 700 million lbs. and the export target of 500 million lbs. for 1960-61 have already been exceeded.

The peak of the boom in tea was reached in 1954, but prices began to decline from 1955 and touched their lowest level in May-June 1955. Thereafter, prices slowly recovered and reached more satisfactory levels, though they never touched the 1954 peak. As a matter of fact, the decline in prices continued by a slow and gradual process, owing to the excess of world total supply of tea over actual requirements. Tea prices during the years 1956, 1957 and 1958 were more or less steady, despite several ups and downs, because of seasonal and other influences operating from time to time. Prices obtained at Calcutta and Cochin auctions during 1959 were generally higher than 1958 except for the quality grades produced in Darjeeling and Assam.

EXPORT

The tea export quota fixed for 1959-60 was 507·50 million lbs., representing 67 per cent of the crop basis for the year.

The tea actually exported in 1958 was 505·96 mln. lbs. valued at about Rs. 136·54 crores. The export during 1959 was 472·48 mln. lbs. valued at Rs. 126·39 crores.

From March 1955, export duty on tea was levied on a slab system according to which the duty was announced at the beginning of every month on the basis of the weighted average prices obtained by Indian teas at the London auctions during the previous month. This system was abolished and the Government decided, in September 1958, that the export duty on tea should be reduced to 26 nP. per lb.

Excise duty on tea is now levied at different rates for different zones. The rates fixed are 2 nP., 4 nP. and 10 nP. per lb. on tea produced in Zones I, II and III respectively. These zones have been demarcated on the basis of the average price which teas from those areas fetch at the internal and export auctions in Calcutta and Cochin. Thus, teas which fetch upto Rs. 1·75 per lb. pay the minimum excise duty at 2 nP. per lb. Those teas which are sold at a price not exceeding Rs. 2 per lb. pay excise duty at 4 nP. per lb. and the rest 10 nP. per lb.

Excise duty is not refunded at the point of export. The excise-cum-export duty structure, therefore, provides a method by which inferior teas produced in certain areas bear an incidence of taxation which is less than that of quality teas. At the same time the excise duty on packaged tea has been fixed at 21 nP. per lb. over and above the duty on loose tea cleared from the gardens. In the case of packaged tea exported, excise duty already paid is refunded.

This system has been in force from 28th September 1958. Prior to the introduction of this scheme, the Government gave interim relief from the 1st June by levying excise duty at 3 nP. per lb. and reducing the export cess on teas to Rs. 2 per 100 lbs. While the reduction in excise duty has been replaced by the differential excise duty now levied, the export cess still continues to be levied at Rs. 2 per 100 lbs.

The Government of India has announced the grant of tax relief to common teas. The relief, which came into effect immediately after the notifications were issued simultaneously with the introduction of a Bill in the Lok Sabha on 27th September 1958, takes the form of a reduction in the maximum rate of export duty from 75 nP. per lb. to 30 nP. the maximum rate of excise duty being 19 nP. for loose tea and 21 nP. *plus* the duty leviable on loose tea for package tea.

The effect of the aforesaid changes on teas exported is indicated below:

Zone	Total incidence	Relief granted as compared with the export duty applicable before
	nP.	nP.
I	28	10
II	30	8
III	36	2

It will be recalled that, on 1st June 1958, the Government of India reduced the cess on export of tea from Rs. 4 per 100 lbs. to Rs. 2 and cut the excise duty on tea not used in the manufacture of packaged tea from 6 nP. to 3 nP. per lb.

As a result of these changes, the revenue yield from tea was expected to be down by Rs. 1·2 crore per annum. The cut in export cess, it was stated, was only a temporary relief, effective till the Government was able to formulate a scheme of giving relief to the tea export trade on a permanent basis.

The anticipated loss in revenue as a result of the changes was estimated at Rs. 1·58 crore in a full year.

With effect from 1st March 1959, Zone III has been broken up into Zone IIIA and Zone III B paying excise duty of 8 nP and 12 nP per lb., respectively. The export duty has also been reduced to 24 nP. The relief actually obtained is as follows:

(In nP. per lb.)

	Total incidence	Relief
Zone IIIA	32	6
Zone IIIB	36	2
Zone I	26	12
Zone II	28	10

The additionall oss as a result of these changes is put at Rs. 35 lakhs in a full year.

An export promotion drive for tea has been launched by the Indian Tea Board through the establishment of Tea Councils and frequent participation in trade exhibitions. At present Tea Councils, set up in collaboration with local tea interests, are functioning in U.S.A., Canada, West Germany, Eire and Netherlands. During 1957-58, the Tea Board participated in as many as eight major international trade exhibitions.

The Tea Board has already opened Tea Promotion Councils at Cairo, Sydney, New York and London and has appointed Tea Advisers there. There is also a proposal to open two similar units at Frankfurt and Baghdad.

In August 1957, the Chairman of the Indian Tea Board paid visits to Cairo, Khartoum, Nairobi and Kericho to explore new markets for Indian tea in the countries of the Middle-East.

To ensure quality control over exported tea, the Government of India promulgated the Tea (Distribution and Export) Control Order vesting the Tea Board with powers to take appropriate action in such cases. The provisions of the Order have been brought into force with effect from the 1st of April, 1958.

The following table shows the growth of the industry from 1946 to 1959:—

Year	Area under tea in thousands of acres (*a*)	Production in millions of lb. (*b*)
1946	842	592
1947*	771	561
1948	772	568
1949	780	585
1950	783	613
1951	786	629
1952	787	614
1953	789	615
1954	791	652
1955	792	678
1956	799	681
1957	804	685
1958	810	717
Jan.-July 1959 ..	N.A.	720

(*a*) 31st March of the following year.

(*b*) Calendar year.

* Figures relate to India from 1947 onwards.

Source: International Tea Committee.

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The following table shows area* under and production of tea in the different States:

Year	Assam		W. Bengal		Bihar		Tripura		U.P.		Punjab	
	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)
1958	393,522	377·35	204,726	167·98	1,791	0·15	12,451	5·32	5,896	1·79	9,607	2·26
1959	396,314	377·23	202,371	177·24	1,791	0·13	12,659	5·51	5,896	2·11	9,607	2·26

* As on March 31.

Year	Himachal Pradesh		Madras and Coorg		Mysore		Kerala		Total area	Total production
	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	Area (acres)	Production (mln. lbs.)	(Acres)	(Million lbs.)
1958	1,046	0·26	76,458	76·61	4,468	3·66	97,004	81·64	803,969	717·00
1959	1,046	0·32	78,393	72·76	4,452	3·37	97,028	78·76	809,556	719·68

Source : Tea Board.

CALCUTTA MARKET

(Leaf and Brokens)

Season	Export Auction		Internal Sale	
	Chests	Average Price	Chests	Average Price
		Rs. a. p.		Rs. a. p.
1952–53 ..	1,858,566	1 6 6	47,547	1 1 7
1953–54 ..	1,635,429	1 15 10	101,775	1 12 5
1954–55 ..	1,590,410	3 1 6	437,863	2 3 7
1955–56 ..	2,277,550	2 0 4	138,410	1 3 3
1956–57 ..	2,137,758	2·37 nP.	94,941	1·57 nP.
1957–58 ..	2,128,529	2·62 nP.	108,072	1·42 nP.
1958–59 ..	2,197,117	2·15 nP.	75,689	1·55 nP.
1959–60 ..	2,205,077	2·29 nP.	45,777	1·80 nP.

Source : J. Thomas & Co. Ltd.

The following table shows tea exports by sea from the Indian Union to the chief importing countries:—

(In million lbs.)

Country	1957	1958	1959
United Kingdom	301·72	330·92	282·57
U.S.A.	23·34	25·49	23·66
Canada	16·88	19·04	16·02
Australia	7·90	7·29	6·34
Iran	9·94	12·02	7·60
Egypt	16·82	25·52	25·79
U. S. S. R.	15·95	25·28	27·35
Eire	19·46	15·85	16·45
Sudan	4·36	13·96	23·63
Netherlands	1·89	2·84	3·36
Turkey	7·12	8·21	10·47

DISPOSAL OF TEA

(In million lbs.)

	1954–55		1956		1957		1958		1959	
	North	South	North	South	North	South	North	South	North	South
Crop*	513·6	128·5	540·1	126·9	528·4	150·5	555·8	157·7	561·2	161·8
Export	373·7	76·0	436·1	76·2	359·9	77·7	409·6	91·1	385·1	77·6
Balance (Internal Consumption)	139·9	52·5	104·0	50·7	168·5	72·8	146·2	66·6	176·1	84·2
Internal Consumption ..	192·4		154·7		241·3		212·8		260·3	

* Trade estimates.

Source : J. Thomas & Co. Ltd.

TEXTILE INDUSTRY

THE cotton textile industry, which is the largest single industry in the country, has made rapid strides during its existence of a century. India holds the third place among the countries of the world in its capacity for yarn and cloth based on mechanical equipment and stands second on the basis of cotton consumption.

In addition to providing means of livelihood for nearly 10 million handloom weavers, the mill industry provides direct employment to nearly 900,000 workers.

The total number of mills in the country in July 1960 was 483, the number of spindles installed 13·54 million, of looms 200,272. The monthly average number of workers, including *badlis*, on list in cotton mills during the January-July 1960 period was 892,108 and cotton consumption was at an annual rate of 5·09 million bales of 400 lbs. each.

The capital invested is estimated at Rs. 127 crores, and the annual value of the output amounts to Rs. 400 crores.

The various fiscal measures adopted by the Government and the constitution of an export promotion council are expected to assist the industry in stepping up exports. A scheme of voluntary inspection of cloth meant for export has also been instituted.

SECOND FIVE-YEAR PLAN

By the end of 1960-61, the *per capita* consumption of cloth in the country was expected to reach 18·5 yards, in addition to the export target of 1,000 million yards a year. This would involve a production of 8,400 million yards. But the production of all the three sectors was then about 6,700 million yards a year. Therefore, the country would require an additional quantity of 1,700 million yards of cloth.

This quantity was allocated thus: 700 million yards for handloom industry from mill yarn; 300 million yards for handloom industry from Ambar Charkha yarn; 200 million yards for powerlooms to be introduced in the handloom sector; 350 million yards for mill sector for export purposes, leaving a balance of 150 million yards.

THIRD FIVE-YEAR PLAN

The draft Third Five-Year Plan estimates the production of mill cloth at 5,000 million yards of Handloom cloth, 2,205 million yards of Khadi and 405 million yards of Powerloom cloth in 1960-61. The targets for 1965-66 proposed are 9,300 million yards of which 5,800 million yards will be mill cloth, 2,800, million yards handloom cloth and 700 million yds. cloth produced by khadi and powerlooms. The tentative

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allocations in the Third Plan are: Handlooms and Powerlooms in the handloom sector Rs. 36 crores (as against 32·1 in the II Plan); Khadi, Ambar Khadi and Village Industries Rs. 89 crores (as against 80·5 in the II Plan).

For Handloom industry a production target of 2,800 million yards has been suggested by 1965-66 and for this purpose it is proposed to bring into active use about 200,000 looms which are at present idle, to raise production efficiency through technological improvements including gradual installation of semi-automatic looms and to strengthen the structure of co-operatives. As regards powerlooms in the handloom sector, it is proposed to concentrate on the installation of 13,000 powerlooms already approved during the II Plans.

Automatic Looms

The quantity of 850 million yards for export and allotted to the mill sector was required to be produced through the installation of 18,000 automatic looms.

Certain conditions were laid for the allocation.

It was laid down that all the cloth produced on these looms would be earmarked for export and the allocation of looms was being made on a guarantee being given by the mills that in addition to 50 per cent of their past exports all the cloth produced on these looms would be exported and that any cloth sold internally therefrom would be subject to penal excise duty as given below:

Certain features of the allocation are:

1. Normal number of looms allottable for a single unit will be minimum 48 and maximum 144; in exceptional cases 300 looms might be allowed with the agreement of the unions. 2. Reed space formula currently applicable for replacement of plain looms by plain looms will also be applicable for replacement by automatic looms; and 3. Allotment of these looms will be governed by the principles contained in the recommendations of the 15th session of the Indian Labour Conference in regard to modernisation and rationalisation.

In the selection of units a prime consideration will be the extent to which the Code of Discipline had been observed.

The proposal of the Government was that 2,500 looms should be installed annually during 1959, 1960 and 1961 in replacement of ordinary looms.

At the moment there are only 14,000 automatic looms out of a total of about 200,000.

The following table gives details about the distribution of mills in India as in December 1960.

State	No. of Mills in existence	Spindles installed	Looms installed	Average No. of workers employed daily in all shifts	Consumption of raw cotton (In bales of 400 lbs. gross = 392 lbs. nett.)
Andhra Pradesh	12	204,040	1,228	12,997	9,701
Bihar	2	33,584	803	1,158	415
Gujarat	99	2,920,044	56,320	192,210	84,017
(a) Ahmedabad City ..	64	2,083,904	41,569	140,781	60,980
(b) Rest of Gujarat ..	35	836,140	14,751	51,429	23,037
Kerala	11	208,268	1,397	8,798	4,770
Madhya Pradesh	18	513,472	12,719	54,836	26,473
Madras	131	3,064,448	7,489	119,517	75,634
Maharashtra	85	4,100,092	80,820	310,412	141,665
(a) Bombay City	58	3,175,436	62,376	242,256	113,817
(b) Rest of Maharashtra ..	27	924,656	18,444	68,156	27,848
Mysore	15	449,476	4,846	33,015	16,707
Orissa	1	60,236	864	6,920	2,971
Punjab	6	124,800	1,621	9,610	9,020
Rajasthan	7	172,028	3,466	11,564	9,130
Uttar Pradesh	21	843,754	13,747	62,122	35,515
(a) Kanpur	10	552,538	11,027	47,082	24,449
(b) Rest of U.P.	11	291,216	2,720	15,040	11,066
West Bengal	29	606,902	9,105	45,841	22,936
Delhi	4	168,968	3,734	21,065	13,585
Pondicherry	3	79,424	2,113	8,467	6,116
Total ..	444	13,549,536	200,272	898,532	458,655

PRODUCTION

The actual production of yarn and cloth by the mills sector is as follows:—

Year	Yarn in 000 lbs.	Cloth in 000 yards.				
		Coarse	Medium	Fine	Superfine	Total
1953	1,510,000	599,000	3,136,000	839,000	304,000	4,878,000
1954	1,565,000	989,110	3,565,000	461,280	350,100	5,011,000
1955	1,637,000	592,510	3,747,850	458,270	300,120	5,098,000
1956	1,671,204	719,000	3,796,156	444,033	347,295	5,306,584
1957	1,780,096	1,143,712	3,402,908	383,176	267,720	5,317,416
1958	1,685,380	969,960	3,395,808	303,062	258,135	4,926,965
1959	1,722,806	892,047	3,500,408	241,949	291,025	4,925,429
1960	1,737,123	704,564	3,813,226	229,025	301,531	5,048,346

* Bilingual.

The total production of cotton cloth by all the sectors in India during 1960 was over 7,183 million yards.

Of this the mill sector accounted for 4,925 million yards, powerlooms 351 million yards, and handlooms 1,907 million yards. The output of traditional Khadi was 41·17 million yards and Ambar Khadi 10·91 million yards.

The exports of cotton textiles produced by the mills, including the powerloom sector, in 1957 were higher than the exports in 1955 and 1956 but lower than those in 1954. The figure for 1957 was 844·92 million yards as against 744·23 million yards exported in 1956 and 815·49 million yards in 1955.

There was a decline in the exports of handloom cloth in 1958 when compared with the exports in the previous five years, the actual figure being approximately 35 million yards. In 1959 also it stood at 35 million yards.

In the production of mill-made cloth, Bombay* leads other States. Bombay* accounted for about 3,285 million yards in 1959 out of the total output of 4,925 million yards.

The production figures for the other States in the first six months of 1960 are as follows:

Madhya Pradesh 210 million yards, Uttar Pradesh 186 million yards, West Bengal 135 million yards, Delhi 66 million yards, Madras 81 million yards, Mysore 37 million yards, Punjab 31 million yards, Rajasthan 22 million yards, Orissa 19 million yards, Pondicherry 23 million yards, Andhra Pradesh 17 million yards, Kerala 8 million yards and Bihar 2 million yards.

The total production of mill-made cloth during the first ten months of 1960 was 4,177 million yards. The production during the corresponding period in 1959 was 4,100 million yards.

During 1959 the cotton consumption by mills was 50·96 lakh bales of which Indian cotton accounted for 46·39 lakh bales and foreign cotton for 4·57 lakh bales. By the end of October 1960, mill consumption of Indian cotton was 34·43 lakh bales against 38·47 lakh bales during the corresponding period in 1959.

The estimated production of yarn during the year 1960 was about 1,713 million lbs. of which 550 million lbs. was consumed by the handloom, powerloom and hosiery and other units.

The production of yarn and cloth by the mills during December 1960 was provisionally estimated at 159 million lbs. and 447 million yards respectively. The stock of cloth with the mills at the end of December 1960 stood at 4·11 lakh bales made up of 2·06 lakh bales of unsold cloth and 2·05 lakh bales sold but lying with the mills pending clearance by the buyers. The stocks as at the end of 1959 were 273,700 bales.

The cotton textile mills' production in February, 1961 is provisionally placed at 144 million lbs. of cotton yarn and 403 million yards of cotton cloth.

At the end of February, 1961, the composite mills of the cotton textile industry held an estimated stock of 3·06 lakh bales of unsold cloth and 1·58 lakh bales of coth sold but not lifted.

A target of 78 lakh bales of cotton production under the 3rd Five Year Plan was recommended by the Cotton Forecast Sub-Committee of the Indian Central Cotton Committee.

TEXTILE ENQUIRY COMMITTEE

The Report of the Committee was unanimous. It was signed on 15th July 1958 and submitted to the Government thereafter.

The composition of the Committee, the report as well as Government reaction are summarized in the 1959-60 edition of the Directory.

N.I.D.C.'s WORKING GROUP FOR THE COTTON TEXTILE INDUSTRY

Several important proposals of the National Industrial Development Corporation's Working Group for the cotton textile industry, including

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including the one calling for a "minimum level of modernisation of the industry," have been accepted by the Government, according to a resolution presented to Parliament on March 29, 1961.

The other proposals accepted by the Government include the establishment of five new units for the production of quality cloth for export, the setting up of a suitable machinery to help resolve problems of rationalisation and compulsory scrapping of units where "rehabilitation is not worth-while."

Headed by the Textile Commissioner, Mr. D. S. Joshi, the Working Group, set up in August, 1959, by the N.I.D.C., comprised Mr. K. Thakersey, Mr. G. D. Somani, Mr. K. Sreenivasan, Mr. S. R. Vasavada, Mr. Ram Ratan Gupta, Mr. Trilokinath Sharma, Mr. N. Majumdar and Mr. K. R. Aravamuthan.

The cost of modernisation and rehabilitation of the textile industry in India is estimated to be about Rs. 180 crores according to the Working Group.

CENTRAL WAGE BOARD

The Central Wage Board for the cotton textile industry was set up in 1957 to evolve a wage structure based on the principles of fair wages as enunciated in the Fair Wages Committee Report.

The Board consisted of: *Chairman:* Feroze Jeejeebhoy; *Members:* Asoka Mehta, Prof. Mathur, Bharat Ram, Arvind Mafatlal, G. D. Ambekar, S. R. Vasavada.

Some of the main recommendations of the Wage Board are as follows:—

Certain desirable minium standards in workloads should be achieved throughout the industry.

No claim for further revision of minimum wages should be made by either employers or workers for 5 years from 1960.

The process of rationalisation should continue to progress everywhere in the industry; but there should be no retrenchment or loss of earnings of the existing employees as a result of rationalisation.

An increase at the average rate of Rs. 8 per month per worker shall be given to all workers in mills in Category I (*i.e.*, Bombay City and Island, Ahmedabad, Baroda, Billimora, Navsari, Nadiad, Surat, Phagwara, Hissar, Delhi, Modinagar, Calcutta, Bangalore and the whole of Madras State) and Rs. 6 to workers in mills in Category II (*i.e.*, other centres not mentioned in Category I) from 1st January 1960; a further flat increase of Rs. 2 per month shall be given to them from 1st January 1962.

The dearness allowance should be linked to the cost of living index in every centre or that in the nearest centre. 75 per cent of the average monthly dearness allowance of textile workers during January-June 1959, should be merged with basic wages and the rest of the 25 per cent should be paid as dearness allowance to neutralise fluctuations in the cost of living.

The scales of pay and the amount of dearness allowance of Junior and Semi-Clerks have also been revised.

The Central and State Governments should take steps to maintain correct cost of living indices of the several centres.

Financial burdens on the industry as a result of the Wage Board's recommendations may be summarised as under:—

The increase in the wages by Rs. 8 per worker covers two-thirds of the total cotton textile labour force, the remaining one-third receiving Rs. 6 per month, with a provision for a further flat rise of Rs. 2 per month from 1st January 1962. Taking into account the consequent increase in the employers' contribution to the workers' provident fund, health insurance, gratuity etc., which on an average amounts to about 22·5 per cent. of the total emoluments of workers, the actual increase with immediate effect will be Rs. 9·80 per worker per month in Category I area and Rs. 7·35 in Category II area. These amounts will grow to Rs. 12·25 and Rs. 9·80 respectively from 1st January 1962. Thus increases in emoluments of workers, clerks and other employees will add to the total annual wage bill about Rs. 9 crores immediately and Rs. 11·25 crores two years hence.

The recomendations have been implemented in 75 per cent units (March 1961).

COTTON

The statistical position of cotton in the Indian Union is summed up in the following table:—

(In lakhs of bales)*

	1956-57	1957-58	1958-59	1959-60
Opening Stock	21·56	20·10	21·1	20·1
Production	49·70	51·50	51·4	38·0
Imports	6·07	4·29	4·1	9·4
Total Supply	77·33	75·89	76·6	67·5
Mill Consumption	52·55	50·10	50·7	51·0
Exports	3·01	2·92	4·0	2·0
Extra Factory Consumption ..	3·20	3·31	2·9	0·5
Total Distribution ..	58·76	56·33	57·6	53·5

* Trade Estimate.

According to the information furnished by the trade, the total cotton supply, available in the 1959-60 season was estimated at 67·5 lakh bales, of which 56·5 lakh bales were Indian cotton, including 18·5 lakh bales of carryover with both the trade and the mills on August 31, 1959. The total mill consumption was estimated at 51·1 lakh bales (44·2 lakh bales of indigenous cotton and 6·9 lakh bales of foreign varieties). Exports amounted to 2 lakh bales and the extra factory consumption half lakh bales, thereby allowing a carryover for the 1960-61 season at 13·4 lakh bales.

The production of long, medium and short staple cotton was in the ratio of 34%, 49% and 17% (1958-59).

The latest trade estimates of the production of cotton in 1959-60 is 44 lakh bales.

The import of cotton for 1960-61 is fixed at 9·5 lakh bales.

The Government of India fixed the floor and ceiling prices of Indian cotton during the 1959-60 season. Both the floor and ceiling prices for Jarilla with stapling 25/32" are Rs. 820 per candy and those for Vijay with stapling 26/32" Rs. 945 per candy.

The Government of India have decided to allow for import the following further quantities of raw cotton: 55,000 bales of 13/16" and above and 140,000 bales of 1 1/16" and above. The Cottons may be imported from any country. Half of this quantity would be earmarked for allotment under the Export Incentive Scheme.

As regards export of raw cotton, it was expected that the entire quantity of five lakh bales of raw cotton released for export during the season beginning from September 1958, would be exported.

HANDLOOM CLOTH

(*See under "Cottage Industries"*).

AMBAR CHARKHA

(*See under "Cottage Industries"*).

IMPORTS AND EXPORTS

The following table gives the sea-borne export trend of all cloth:—

Year	Twist and Yarn		Cloth	
	Million lb.	Rs. in crores	Million yd.	Rs. in crores
1954-55	1·2	0·3	819·0	63·15
1955-56	23·1	4·21	740·0	56·60
1956 (April to Dec.)	6·92	1·50	557·08	42·71
1957 (Jan. to Dec.)	16·55	3·10	839·0	59·00
1958 (Do.)	31·61	5·80	581·0	40·00
1959 (Do.)	24·32	4·37	850·8	59·00
1960 (Jan. to Oct.)	11·40	2·86	55·00	43·00

Export of cotton piece goods to West Asian countries during the first eight months of 1959 amounted to 63·1 million yds. as against 58·9 million yds. during the same period in 1958. Exports during the year 1959 are estimated to be of the order of 750 million yds. which are about 170 million yds. more than during 1958. It is estimated that exports may easily be in the neighbourhood of 1,000 million yds. in 1960.

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EXCISE DUTIES

The Cotton mills were heavily burdened with the accumulations of large stocks of cloth during 1957.

As a result of representations made to the Govt. of India, reduction in excise duty was first made in December 1957 and secondly on March 18, 1958. (*For details see* 1960-61 *Directory.*)

Export of cotton yarn by mills was allowed freely for the licensing period July to December, 1958. The export policy for yarn had also been announced on a long term basis, *i.e.* till 1961.

The excise duty on piecegoods underwent further changes early in July 1958 when the Government of India announced, in pursuance of the recommendations made by the Textile Enquiry Committee modifications in the levy with a view to helping the mills to overcome the crisis facing it due to accumulation of heavy stock.

For the revised rates of excise duty per square yard (excluding the additional excise duty and the handloom cess) which were enforced with effect from July 1958. (*See* 1960-61 *Directory.*)

The stocks of cloth with the textile mills in the country at the end of October 1959 were 334,300 bales as against 601,800 bales in October 1958. The unsold stocks of yarn in October 1959 were 27,000 bales as against 63,900 bales in January 1959. The fall in production in 1958 was largely due to a shift in production from coarse varieties to medium and finer varieties of cloth. This shift in production had been necessitated by the consumers' preference for finer varieties.

As on 30th June 1959, 39 mills had gone out of production: Andhra 1, Bihar 1, Bombay† 15, Madhya Pradesh 1, Madras 5, Orissa 2, Mysore 3, Rajasthan 4, U.P. 5, West Bengal 1, and Delhi 1. Three mills which had remained closed at the beginning of 1959 reopened later. Eight mills closed down during the first six months.

At the time of presenting the Budget for 1961-62, the Minister for Finance announced some changes in the existing rate of excise duty as under:

(1) Excise duty payable on Medium 'A' Grey Cloth (Higher Medium) has been increased from 7·2 nP. per square meter to 9 nP. per sq. meter, an increase of 25 per cent. Apart from this, surcharges on processed fabrics of all the categories have been increased by 66 per cent in the following manner:

Category.	*Existing Duty.* (nP. per sq. meter)	*Enhanced Duty.*
Bleached and not otherwise processed ..	0·6	1·0
Shrink proofed or/and organdie processed	3·6	6·0
Other than bleached, shrink proofed or/and organdie processed, but dyed, printed, mercerised or/and otherwise chemically processed	1·8	3·0

(2) The Government have further imposed higher rates of excise duty on grey cloth produced on automatic looms. The following table shows the comparative rates of excise duty for grey cloth produced on automatic looms as against ordinary looms:

Category.	*Ordinary Looms.* (nP. per sq. meter)	*Automatic Looms.*
Superfine Grey ..	29·3	36·6
Fine Grey	22·1	27·6
Medium A Grey ..	9·0	11·2
Medium B Grey ..	6·0	7·5
Coarse Grey	4·8	6·0

Excise Duty on Yarn

It was first proposed to levy excise duty at 10 nP. per K.gm. on cotton yarn produced by mills of counts below 35s and at 15 nP per K.gm. on cotton yarn of 35s and over. The duty was to be applicable irrespective of whether the yarn is consumed in mills or sold to the market. However, yarn of 11s to 40s sold in hanks is exempt from the excise duty.

On these proposals representations were made to Government and finally, Government agreed that duty on yarn produced and consumed by mills be compounded into duty on cloth at the uniform rate of 1·2 nP. per sq. meter for all categories. Exported cloth will be exempt from this duty.

Regarding duty on cloth produced on automatic looms, the Government have made the following modifications: (1) Exemption for first 70 per cent of the production on automatic looms from the extra surcharge of 25 per cent. (2) The extra surcharge of 25 per cent collected on the remaining 30 per cent of production will be allowed for a draw-back to the extent of cloth made from automatic looms.

Export Promotion Council: The Council opened its first office in Baghdad in February 1956 and then other offices in Singapore, Lagos, Rangoon, Aden and Mombasa. Besides, it has taken part in many exhibitions—Industrial Exhibitions in New Delhi, the Leipzig Fair, the Pakistan Trade Fair and the Milan Samples Fair. It has undertaken the publication of a handbook known as *The Indian Textile Industry.* The Council has also brought out an overseas edition of its fortnightly *Bulletin.*

FIVE-YEAR PLANS

The following table summarises the programme of development of the whole industry as approved by the Planning Commission for the Five-Year Plans:—

	Unit	1952-53	1955-56	1960-61
Rated Capacity of Mill industry				
Spindles	No.	11,175,283	12,051,209	13,621,209
Yarn	m. lb.	1,704·2	1,840	2,080
Looms	No.	195,849	202,901	220,901*
Cloth	m. yd.	4,778·7	4,950	5,444
Actual Output—				
Yarn	m. lb.	1,510	1,630	1,650
Mill Cloth	m. yd.	4,600	5,094	5,444
Handloom Cloth	,,	1,300	1,753	3,000 to 3,500
Exports—				
Yarn	m. lb.	—	—	—
Cloth	m. yd.	1,000	873	1,000
Cotton Needed—	m. bales	4.5	4.9	6.1

*Including 18,000 automatic looms. †Bilingual.

TOBACCO INDUSTRY

INDIA is the third major producer of tobacco in the world, the other two being U.S.A. and China. Tobacco is also an important item in India's foreign trade.

The area under tobacco in 1959-60 was 934,000 acres and the production was 629 million lbs.

The more important tobacco growing States in India are Andhra Pradesh, Mysore, Madras, W. Bengal, U.P., Bihar, Gujarat and Maharashtra. Andhra Pradesh produces 260 mln. lbs. of tobacco, Gujarat 103 mln., Mysore 56 mln. and Madras 49 mln.

The tobacco plants are mainly of two varieties —nicotiana rustica and nicotiana tabacum. The first has a higher nicotine content and is mainly used in hookah. The second has a smaller nicotine content and is used in the manufacture of cigarettes, cigars, cheroots and bidis and in the preparation of chewing and snuff tobaccos.

There are six main tobacco producing areas in India—the Guntur area in Andhra Pradesh, the Charotar area in Gujarat, the Nipani area in Mysore and Maharashtra, the southern Madras area, north Bihar and Bengal area and Uttar Pradesh and Punjab area.

The Guntur area comprises the districts of Guntur, Krishna, East and West Godavari, and the adjoining portions of Telangana. The variety grown is nicotiana tabacum.

The Charotar in Gujarat covers Anand, Borsad, Petlad and Nadiad talukas of the Kaira District. Here also the chief variety is nicotiana tabacum.

The Nipani area is made up chiefly of the District of Belgaum in Mysore State and certain areas in Satara and Sangli and Kolhapur district

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in Maharashtra State. Here both the varieties are grown though nicotiana tabacum predominates.

In Madras State the chief tobacco growing districts are Coimbatore and Madurai.

The north Bihar area covers the districts of Purnea, Muzzafarpur and Darbhanga, and in the north Bengal area the districts of Cooch Behar, Jalpaiguri, Malda, Berhampore and Dinajpur. Here both the varieties are grown.

Uttar Pradesh comprises the districts of Farukhabad, Etah and Sitapur and the Punjab area comprises the districts of Jullundur and Ferozepur. Both the varieties are grown in these areas.

The development of tobacco cultivation, marketing and research are looked after by the Indian Central Tobacco Committee with headquarters in Madras. The Committee has a tobacco research institute at Rajahmundry (Andhra Pradesh), cigar and cheroot tobacco research station at Vedasandur (via) Dindigul (Madras), hookah and chewing tobacco research station at Pusa (Bihar), wrapper and hookah tobacco research station at Dinhata (West Bengal) and a cigarette tobacco research sub-station at Guntur (Andhra Pradesh).

Another station for cigarette tobacco was started in February 1957 at Hunsur in Mysore State where soil and climate are different from those of the Guntur area where production of flue cured Virginia cigarette tobacco is mainly concentrated.

There are 15 cigarette manufacturers.

Export of tobacco is allowed freely without any restrictions.

Tobacco brings to the cultivators an annual income of Rs. 50 crores and contributes over Rs. 50 crores annually by way of excise duty to the national exchequer. It earns a foreign exchange of Rs. 15 crores.

PRODUCTION OF TOBACCO (UNMANUFACTURED)

(Thousand Pounds.)

State	1957-58	1958-59	1959-60
Andhra ..	232,960	244,160	259,840
Maharashtra & Gujarat	114,240	118,720	134,400
Madras ..	31,360	44,800	49,280
Mysore ..	44,800	53,760	56,000
Uttar Pradesh..	24,640	29,120	29,120
West Bengal	24,640	22,400	24,640
OtherStates & Union Territories	58,240	71,680	76,160
India ..	530,880	584,640	629,440

IMPORTS AND EXPORTS OF TOBACCO (RAW) (BY SEA AND AIR)

	1957		1958		1959	
	Quantity lb.	Value (Rs.)	Quantity lb.	Value (Rs.)	Quantity lb.	Value (Rs.)
Imports	3,230,025	1,26,22,362	2,963,202	1,36,21,133	3,330,231	1,37,62,516
Exports	80,227,386	11,59,24,009	106,015,910	14,70,10,236	83,053,967	12,92,81,337

About 88 million lbs. of unmanufactured tobacco valued at Rs. 14 crores were exported in 1959-60.

EXPORTS OF TOBACCO (RAW) BY COUNTRY (BY SEA AND AIR)

	1957		1958		1959	
	Quantity lb.	Value (Rs.)	Quantity lb.	Value (Rs.)	Quantity lb.	Value (Rs.)
U.K.	35,043,252	8,44,31,738	43,951,650	10,84,09,215	35,945,740	8,73,25,338
U.S.S.R.	7,648,051	49,90,741	7,059,639	51,27,099	9,794,563	73,00,468
China	104,860	42,122	22,785,664	91,31,324	..	..
Aden and Dependencies	7,935,271	31,73,040	7,595,057	39,06,722	10,053,994	53,81,982
Netherlands	5,235,427	37,38,243	3,245,462	21,05,232	4,332,924	28,21,385
Belgium	4,097,445	30,22,270	3,636,315	25,65,221	3,884,864	31,21,211

PRODUCTION OF CIGARETTES

	1957	1958	1959
Cigarettes (in Crore pieces)	2,889	2,984	3,214

The figures given in the tables are subject to revision. 3,200 crores cigarettes were produced in 1959-60.

VEGETABLE OIL INDUSTRY

INDIA is one of the most important producers of oilseeds in the world and is consequently a large producer of vegetable oils as well as an exporter of oils and oilseeds.

The following figures show the average production of different varieties of oilseeds in recent years along with their share in world production :—

—	Average Indian Production (lakh tons)	As percentage of world Production
Groundnut	43·90	34
Castor seed	1·08	15
Linseed	4·25	13
Sesamum	3·92	34
Rape and mustard ..	10·37	12

The following table gives the actual production —in thousand tons—of oilseeds during the seasons 1958-59 and 1959-60 :—

	1958-59	1959-60
Groundnut ..	4,812	4,390
Castor seed ..	112	108
Linseed	447	425
Sesamum ..	511	392
Rape and mustard	1,025	1,037
Total	6,907	6,352

The actual production of oil from the five major oilseeds has been estimated as follows :

('000 Tons).

	Groundnut	Castor	Sesamum	Rape and Mustard	Linseed	Total
1955-56 ..	878	39	143	242	123	1,440
1956-57 ..	954	39	138	293	123	1,547
1957-58 ..	1,007	28	111	264	79	1,489
1958-59 ..	1,092	36	160	293	142	1,723
1959-60 ..	996	35	133	296	135	1,595

In March 1956, there were 2,097 oil mills registered under the Factories Act. The total crushing capacity of the mills in the country is estimated at 56 lakh tons per annum in terms of oilseeds.

It is also estimated that there are about four lakh village *ghanis* in the country with an annual crushing capacity of about seven lakh tons of oilseeds. Thus the total crushing capacity is estimated at 63 lakh tons in terms of oilseeds.

The total output of oilseeds in recent years is estimated at 65 to 70 lakh tons.

The capital invested in the organised industry is estimated at Rs. 24·4 crores and the number of workers at 43,580. The most important oilseeds consumed in large quantities for the production of oils are groundnut, linseed, rape and mustard, castor seed and sesamum seed. Small quantities of cottonseed and mohwa seed are also crushed.

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The draft outline of the Third Plan envisages a target for oilseeds output in 1965-66 of 9·3 million tons as against the Second Plan target of 7·5 million tons and the actual output of 6·3 million tons in 1959-60.

IMPORTS AND EXPORTS

The following table shows the total imports and exports of oil and of some varieties:

(In cwts.).

—	1959	April-Sept. 1960
Imports (Total) ..	613,372	373,316
Coconut Oil ..	54,863	Nil
Linseed	Nil	Nil
Other Sorts ..	558,509	373,316
Exports (Total) ..	2,117,835	1,005,151
Groundnut Oil ..	880,990‡	72,486‡
Linseed Oil ..	405,179§	122,378§
Castor Oil ..	703,122	740,804

On the basis of the minimum *per capita* consumption of fats in this country, the total consumption of fats of the entire population would work out at 7 million tons, as against the present estimated consumption of 1·2 million tons.

In 1954-55, about 1·14 million tons of vegetable oils (including coconut oil) and about 255,000 tons of vanaspati were estimated to have been consumed for edible purposes in the country. This means a *per capita* consumption of 8·2 lb. (6·7 lb. of edible oils and 1·5 lb. of vanaspati). It was said to have gone up during the Second Plan. Assuming the higher consumption at 8·8 lb. the total requirements of vegetable oils and vanaspati for 400 million people had touched about 1·62 million tons by 1960-61.

The consumption of vegetable oils in industries has considerably risen since the last war. The development of soap, paints and varnish industries has stimulated the consumption of non-edible oils. Castor oil consumption as a lubricant has also registered considerable expansion. During the decade following the outbreak of the war, consumption of vegetable oils by the soap industry has doubled from 30,000 tons to 63,000 tons, and that of paints and varnish industry and lubricant has risen from 15,000 tons each to 30,000 tons and 25,000 tons respectively. By 1960-61, the total requirements of vegetable oils for all the industrial and miscellaneous purposes were estimated at 278,000 tons. Thus internal consumption requirements were of the order of only 1·9 million tons.

Pine Oil: The first pine oil factory in the country has been started at Hoshiarpur in the Punjab. It produces pine oil, dipentine and pine tar. The factory was inaugurated by the Union Industries Minister on July 16, 1960. This will save a foreign exchange of Rs. 30 to 40 lakhs.

COTTONSEED

Special efforts are being made to develop the cotton seed oil industry on modern lines. There were eight units equipped with delinting and de-hulling machines in 1955. Six more units were licensed during 1956, thereby bringing the total capacity for cotton seed oil crushing to 277,100 tons of seed. The number of units working in 1959 was 9. The installed capacity, in terms of seeds; during 1959 was 94,600 tons. The production in 1959 was 12,000 tons as against 9,452 tons in 1958, the production figure being in terms of extracted oil. Among the steps taken to increase the consumption of cotton seed oil by vanaspati factories is a reduction of excise duty. Export of cotton seed oil as well as decorticated cotton seed oil cake was licensed freely. The policy of not licensing new mills or expansion of existing oil mills has been continued.

In regard to solvent extraction of oilcakes, the Government had given licences by the end of March 1956, to install plants with a capacity of 340,000 tons of oilcakes, which together with the capacity established before the industry came under statutory control, made a total of 400,000 tons per year.

Production of oil by solvent extraction of oilcakes during 1958 aggregated 15,680 tons, as against 11,131 tons in 1957, and 5,765 tons in 1956. In 1959, the actual production was higher at 20,800 tons. The rise in output was due to the commencement of operations by three more units. Thirty-two licences had been issued up to the end of 1956 under the Industries Act for the establishment of solvent extraction plants. The number of units working in 1958 was 15 and 20 in 1959 with an installed capacity of 301,500 tons oil cakes per annum. Considerable foreign exchange is already being earned by this industry by export of deoiled meal to U.K. and other countries.

The development programme for the vegetable oil industry in the Third Plan is indicated in the following table:

('000 Tons)

	1950-51 Production	1955-56 Production	1960-61 Estimated Capacity	1960-61 Estimated Production	Targets for 1965-66 Capacity	Targets for 1965-66 Production
Vegetable oils:						
a) Solvent extraction of oil cakes	—	—	936 (Cake)	36 (Oil)	2,000 (Cake)	160 (Oil)
b) Cotton seed oil ..	—	—	415 (Seed)	37 (Oil)	850 (Seed)	100 (Oil)

VANASPATI

The Vanaspati Industry though a minor branch of the Vegetable Oil Industry is one of the most highly organised and efficient industries. Its history is interesting. It started on a small scale in 1930.

In April 1951, there were 48 vanaspati factories in India with an annual rated capacity of about 333,000 tons. In March 1956, their number had increased to 51 with a rated capacity of about 412,100 tons. In 1959, there were 58 factories with an annual production capacity of about 534,000 tons. Out of these, one is the Government Hydrogenation Factory at Kozhikode having an installed capacity of 3,000 tons per annum. Besides, there are seven factories with an annual rated capacity of 33,000 tons. It is the Government's policy not to permit any further expansion of the industry as the present capacity is adequate to meet all the requirements of 4 lakh tons. The aggregate installed capacity of the industry in 1959 was 446,220 tons as against 438,720 tons in 1958 and 443,724 tons in 1957. It was still higher at 460,548 tons in August 1960. The actual output of Vanaspati during 1959 amounted to 316,788 tons as against 293,781 tons in 1958, 301,356 tons in 1957, and 255,612 tons in 1956. During the first seven months of 1960, 209,803 tons were produced.

The consumption of vanaspati in India has increased at an average rate of about 20,000 tons per annum during the First Plan period. It was assumed that the consumption would rise at the rate of 25,000 tons per annum during the Second Plan. On this basis, the internal consumption might be estimated at about 380,000 tons in 1960-61.

In 1959-60 the internal consumption was estimated at 355,000 tons.

The following table summarises the progress of the industry:

(Tons)

Year	Production	Consumption	Exports
1954–55 ..	225,000	216,000	9,370
1955–56 ..	270,000	255,000	15,000
1956 ..	255,612	280,000	11,150
1957 ..	301,356	305,000	N.A.
1958 ..	295,152	330,000	2,687
1959 ..	316,788	316,300	2,700
1960 .. (estimated)	336,600	330,100	6,500

N. A.—Not available.

The gap between the installed capacity and actual production has continued to remain wide as will be seen from the following table:—

Year	Installed Capacity Tons	Production Tons
1954	368,232	225,000
1955	380,232	260,784
1956	412,020	255,612
1957	443,724	301,356
1958	438,720	295,152
1959	446,220	316,788
1960 Jan-Aug.	460,548	209,803

The net capital invested in the industry is about Rs. 22 crores. Besides 10,000 workers directly employed, the industry provides indirect employment for nearly 60,000 workers.

Edible oils constitute the chief raw material of the industry.

The table below summarises the programme of development in the Second and Third Plan:

(Tons)

	1955–56	1960–61	1960-61 Estimated	1965-66 Target
Installed Capacity	445,000	445,000	434,000	550,000
Production	270,000	400,000	350,000	500,000
Internal Consumption	255,000	375,000 to 380,000	—	—
Exports	15,000	20,000 to 25,000	—	—

A total of Rs. 30 lakhs may be available for vegetable oil research during the Third Plan.

‡ Includes hydrogenated oil.

§ Includes oxidised oil.

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WOOLLEN INDUSTRY

THE woollen industry is more or less scattered all over the country but the major concentrations are in Maharashtra and the Punjab.

The total capital investment in the industry is reckoned at about Rs. 20 crores.

The organized sector of the industry employs about 17,500 workers.

The raw material used is wool tops (imported), shoddy wool (all of which is imported), wool waste, rags etc. (imported and indigenous) and raw wool (imported and Indian). In addition the industry uses some quantities of man-made fibres. The installed capacity of the woollen industry as in April 1961 is 53,554 woollen spindles, 19,107 shoddy spindles, 1,29,364 worsted spindles and 4,042 power looms.

In order to meet the wool top requirements of worsted spinning units, 5 wool top manufacturing factories, with a total capacity of 16 million lbs. per year, have been licensed. Of these, the installed capacity is at present 4 million lbs. per year.

The estimates of the consumption of raw material are as follows:

(*In Million Lbs.*)

Raw Material	1957	1958	1959	1960
Indigenous Wool	7·09	6·82	7·89	7·07
Imported Wool	3·80	2·94	2·70	4·92
Imported Tops	14·74	14·56	12·35	13·10
Reclaimed Wool & Waste ..	4·50	4·46	4·22	4·68

There are at present 162 organised woollen units in India, of which 32 are purely spinning units, 104 purely weaving units and 26 composite. Of these about 60 are large scale units and the rest are small scale units.

The region-wise distribution of these units during 1959 was as follows:

State	No. of Units	Woollen & Shoddy spindles.	Worsted spindles.	Looms.
Bombay*	14	15,731	59,890	616
Delhi ..	1	—	864	—
Mysore ..	3	10,478	—	225
Punjab ..	106	23,765	53,974	1,562
U.P. ..	5	14,725	9,672	281
West Bengal	4	1,732	6,079	141
Kashmir	1	1,542	1,500	44
M.P. ..	1	876	—	20
Total	135	68,849	1,31,979	2,889

The production is as follows:

	1958	1959	1960
Woollen/worsted yarn (Million Lbs.)			
Capacity	40·40	67·00	67·00
Production ..	29·10	29·73	27·80
Woollen/worsted fabrics (Million Yds.)			
Capacity	48·00	48·00	48·00
Production ..	19·09	17·77	15·27

The import and export figures are as follows:

(*Value in Million Rs.*)

	1958-1959	1959-1960	1960-1961 (April-Dec. 1960)
IMPORT			
Wool	103·58	83·25	70·63
Woollen Mfrs., including yarn ..	4·79	4·05	1·99
Total	108·37	87·30	72·62
EXPORT			
Raw Wool	87·35	111·04	57·64
Woollen Mfrs.	54·88	59·59	42·30
Total	142·23	170·63	99·94

The Government of India have approved a scheme of Messrs. Duncan Bros., Calcutta for the establishment of Wool Tops Combing Plant in collaboration with Messrs. Isaac Holden & Sons Ltd., Bradford for a productive capacity of 10 million lbs., per annum. The unit was likely to go into production by the end of 1960.

The Tariff Commission has been asked to report on the price structure of all types of woollen yarns and fabrics. The Woollen Textiles (Production and Distribution Control) Order, 1960, empowering the Textile Commissioner to regulate the production of all types of woollen yarn, and to fix the prices of all types of such yarn and woollen fabrics manufactured therefrom had been promulgated during 1960. A panel for the development of carpets and druggets has been constituted to examine the various problems of the carpet industry and also to suggest measures to be taken for the development of the industry during the Third Plan period.

HOSIERY INDUSTRY

There are about 950 hosiery units in the country of which nearly 800 units are situated in Ludhiana. It is estimated that about 10,000 machines of different types are installed in this sector. The capital investment in the sector is estimated at about Rs. 3 crores. A large number of the machines employed are hand operated and locally fabricated. Industry caters practically to the whole of the domestic market.

The quantity of yarn consumed by the hosiery industry in the country is estimated at about 5 million lbs.

In 1958-59, woollen and worsted piecegoods worth more than Rs. 54 lakhs were exported. Woollen hosiery worth about Rs. 1 crore is estimated to be exported every year to the West Asian countries mostly through post parcels. Carpets and floor rugs exported were valued at Rs. 4·5 crores in 1958-59. The main destinations were U.K., U.S.A., Canada and Australia.

FIVE-YEAR PLANS

For increasing wool production in the country and for improving the quality of wool, four sheep breeding farms and two wool testing laboratories were established during the Second Five Year Plan for carrying out wool development programme in rural areas. 222 sheep and wool expansion centres were organised in ten States.

The estimated population of 40 million sheep produces about 70 million pounds of wool annually.

The yield of wool varies from three-fourths of a pound to four pounds per sheep per year. The present average yield per sheep in India is estimated at 1·7 pounds per annum. Annually more than 50 per cent of the clip, valued at Rs. 120 million, is exported. The mill industry concerned with the manufacture of superior cloth has to depend on the import of raw or semi-processed wool to the extent of 15 million pounds estimated to cost not less than Rs. 104 to Rs. 110 million in foreign exchange. If the quality of indigenous wool is improved, India can gradually decrease the import of wool.

Under the Second Five-Year Plan the output of woollen and worsted fabrics by the organised mill sector was expected to be stepped up from the present level of about 19 million yards to about 20 million yards by 1960-61. The yarn requirements of all the sectors will be 12 million lb. of woollen yarn and 15 million lb. of worsted yarn per annum.

The development programme for the woollen textile industry, mill sector, in the Second Five-Year Plan is indicated below:

	1955-56	1960-61
Spindleage and Loomage		
Woollen sector—spindles	61,032	62,768
Worsted sector— ,,	96,416	1,23,416
Powerlooms ..	3,950	4,051
Annual rated capacity on double shift		
Woollen Yarn (million lb.)	17	17·5
Worsted Yarn (million lb.)	21	28
Woollen and Worsted fabrics (million yd.)	48	50
Production		
Woollen tops (million lb.) ..		9
Woollen yarn (million lb.)	10·6	12
Worsted yarn (million lb.)	11·0	15
Woollen & Worsted fabrics (million yd.)	14·9	20

The woollen industry would not be permitted to install any additional spindles and looms during the Third Plan period, if the programme of development tentatively drawn up by the Planning Commission were finally accepted and implemented. This programme is in accordance with the recommendation made by the Development Council for Woollen textiles. The Council is of the view that the present installed capacity of the industry is more than sufficient to produce the entire requirements of woollen worsted yarn and cloth, inclusive of export demand. The weaving sector of the industry, according to it, is working, on an average, a little over 1½ shifts and the spinning sector only about one shift. The existing installed capacity of the industry (calculated on the basis of two shifts and 300 working days) is estimated at 67 million lbs. of woollen worsted yarn and 48 million yards of cloth, whereas the anticipated demand in the last years of the Third Plan is put at 45 million lbs. and 30 million yards, respectively. The production targets for the Third Plan are 52 million lbs. of yarn and 35 million yards of cloth. The productive capacity of wool tops has been fixed substantially higher, at 31·5 million lbs. for the Third Plan.

During the Third Plan six new sheep breeding farms and 4,000 new extension centres are proposed to be established, the sheep population covered by each centre varying from 10,000 to 15,000. It is envisaged that 300 wool grading and marketing centres to be run by co-operatives of producers should be set up during the Third Plan. Facilities for shearing, grading, baling and storing of wool will be provided at these centres.

The employment potential in this industry is expected to increase by about 5,000 persons during the Third Five-Year Plan.

The consumption of electric power during 1960-61 in this industry was approximately 13,000 H.P. This is likely to go up to about 20,000 H.P. by the end of the Third Five-Year Plan.

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MINES AND MINERALS

By courtesy of Mineral Economics Division (Intelligence Section), Indian Bureau of Mines, Government of India.

ALLOTMENT under the First Five-Year Plan (mineral development): Rs. 1·06 crores.

Allotment under the Second Five-Year Plan: Rs. 73 crores. Investment in IIIrd Plan: Rs. 75 crores.

Some major facts are given below:

The total value of the mineral production in India in 1959 was Rs. 1,399 million as against Rs. 1,376 million in 1958. These values of mineral production are excluding the value of petroleum and minerals specified as prescribed substances under the Atomic Energy Act, 1948.

Second Plan targets: Bauxite 1,75,000 tons; Coal 60·00 million tons; Gypsum 19,70,000 tons; Iron ore 12·50 million tons; Limestone 23·30 million tons; Manganese ore 2·00 million tons.

The total value of minerals produced during the first half of 1960 is estimated at Rs. 776 million as against Rs. 700 million in the corresponding period of 1959 according to the latest bulletin issued by the Indian Bureau of Mines.

Coal, with an output of 26·06 million metric tons, recorded an increase of 1·9 mln. metric tons and was valued at Rs. 533 million which is about 69 per cent of the total value of mineral production.

There are at present 16 collieries and one coke plant owned and managed by the Government of India. The production of coal in the public sector was 6·8 mln. tons in 1959 as against 5·9 mln. tons in the previous year.

Next in order of value were manganese ore Rs. 48 million, salt Rs. 44 million, iron ore Rs. 40 million, gold Rs. 28 million, limestone Rs. 26 million, mica Rs. 11 million, copper ore Rs. 10 million and ilmenite Rs. 8 million.

By the end of the Second Plan the country would have three additional steel plants, one additional aluminium plant, six additional ferro-manganese plants and thirty-six additional cement factories.

The foreign exchange earned from minerals in 1959 was Rs. 49 crores.

The country spent foreign exchange to the tune of Rs. 1,332 million for buying minerals and metals from abroad in 1959 as against Rs. 1,408 million in 1958.

The export of metals during 1959 was valued at Rs. 73 million as against Rs. 29·3 million in 1958.

The mineral wealth of India, as at present known, though by no means inexhaustible, comprises an adequate range of useful products necessary for industrial development.

The reserves are ample in respect of minerals essential for basic industries—coal and iron—but the country is deficient in a fairly long list of vital minerals like ores of copper, tin, lead, zinc, nickel, cobalt and in sulphur and petroleum. Adequate reserves of an alternative source (pyrite deposits) of sulphur have been proved at Amjor, Bihar. It has changed the entire position of sulphur resources in the country.

Coal, iron ore, manganese ore, ilmenite, kyanite and mica are produced in quantities of real importance to industry and other sections of economy.

Of these mica, manganese ore, kyanite and ilmenite are wholly or largely exported.

The position with regard to aluminium ore, refractories, abrasives, limestone, etc., may be considered as fairly adequate while in respect of titanium and thorium ores and of mica, the country has considerable reserves.

MINERAL NEEDS OF INDUSTRIES

Mineral	Estimated annual consumption (1959)	Estimated requirements in 1960-61
Coal (metric tons)	46·4	60
Limestone (metric tons)	10·6	23
Gypsum ('000 tons)	935	1·97
Iron ore (")	4,750	10,500
Manganese ore (")	204	500
Bauxite (")	92	175
Ilmenite (")	3	3
Sulphur (")	137	210
Rock phosphate(")	164	400
Petroleum crude(m. tons)	N.A.	N.A.
Pyrites (")	..	Not estimated

POLICY

As part of the national policy to ensure efficient working of known mineral deposits, the Mines and Minerals (Regulation and Development) Act, 1948 was passed which came into force on 25th October, 1949.

By Section 5 of this Act the Central Government was empowered to make rules for regulating the grants of mining leases or for refusing grants of such leases in respect of any mineral or in any area if such areas are to be kept reserved by the State Government/Central Government for exploitation in the public sector.

By Section 6 of the same Act, the Central Government is empowered to make rules for conservation and development of minerals and by Section 7 to make rules for the modification or alteration of the terms and conditions of the leases granted prior to the commencement of this Act, so as to bring the terms and conditions of leases granted in accordance with the rules made under Sections 5 and 6.

Section 4 of the Act provides that any prospecting licence or mining lease granted after the commencement of that Act otherwise than in accordance with those rules, shall be void and shall have no effect.

The Central Government have so far issued three sets of rules: The Mineral Concession Rules, 1949, under section 5, The Petroleum Concession Rules, 1949, under section 6 and the Mining Leases (Modification of Terms) Rules, 1956 under section 7.

Regulation and development of oil fields and mineral oil resources and regulation of mines and mineral development were dealt with under the Mines and Minerals (Regulation and Development) Act, 1948 (53 of 1948). After the passing of the Mines and Minerals (Regulation and Development) Act, 1957, which came into force from 1st June 1958, and which exclusively deals with minerals other than Petroleum and Natural Gas, the 1948 Act deals exclusively with Petroleum and Natural Gas.

The Petroleum Concession Rules, 1949, have been superseded and repealed by the Petroleum and Natural Gas Rules, 1959, which came into force on November 25, 1959, in order to give more encouragement and facilities to the foreigners who are willing to invest their capital in the development of oil fields and mineral oil resources of the country.

In exercise of the powers conferred by section 18 of the Mines and Minerals (Regulation and Development) Act, 1957 and in supersession of the Minerals Conservation and Development Rules, 1955, the Central Government made the Mineral Conservation and Development Rules, 1958, under which submissions of quarterly returns have been discontinued and mine owners are now required to submit monthly and annual returns. Provisions have also been made for training facilities for students of mining engineering and geology.

In Oct. 1957 the Government of India decided that private parties were in future to be granted mining leases for minerals listed in Schedule A of the Industrial Policy Resolution of 1956, which is normally reserved for the public sector.

The minerals included in the Schedule 'A' of the Resolution are coal and lignite, mineral oils, iron ore, manganese ore, chrome ore, gypsum, sulphur, gold, diamond, copper, lead, zinc, tin, molybdenum and wolfram.

Government of India has also framed rules for atomic energy minerals and other minerals used for the production or use of atomic energy or for research. This Act is known as The Atomic Energy Act, 1948.

The Government departments concerned are the National Mineral Development Corporation (Pt.) Ltd., which is responsible for the exploitation of minerals in the public sector, the Geological Survey which prepares base maps, the Indian Bureau of Mines which advises Government on policy, undertakes research and inspection and collects data, and the Atomic Energy Commission which conducts research and sees to the development of atomic minerals and substances.

The Central Government have declared the following substances and all their respective components as prescribed substances for atomic use:—Uranium minerals, thorium minerals, beryllium minerals, vanadium minerals, lithium minerals, radium, zirconium, graphite, deuterium, plutonium, neptunium and minerals containing the above metals and accessories, ingredients, such as uraniferous allanite, triplite, columbite and tantalite.

The Coal Board under the Ministry of Steel, Mines and Fuel looks after the mining and development of collieries in the public sector and the distribution of coal to various consumers.

For the import and export of important minerals like iron ore, manganese, etc., there is now a State Trading Corporation under the Ministry of Commerce and Industry.

PRODUCTION, EXPORTS—IMPORTS

The total value of the mineral production in 1959 was of the order of Rs. 1,399 million against Rs. 1,373 million in 1958.

The total exports of mineral from India during 1959 fetched foreign exchange worth Rs. 470 million as compared with Rs. 460 million in 1958.

The exports of metals in 1959 were valued at Rs. 73 million as against Rs. 29·3 million in 1958. There were larger exports of iron, pig iron and steel metals, brass, bronze and zinc.

The value of the imports of minerals during 1959 was Rs. 102 million as against Rs. 80 million in 1958.

The increase of 27 per cent in the value of imports was mainly due to the larger imports of sulphur, flourspar, apatite, asbestos and abrasives.

The total value of metals imported during 1959 was Rs. 1,230 million as against Rs. 1,328 million in 1958.

The import of ferrous metals registered a marked decrease during the year.

The total value of imports (minerals, metals and alloys) in 1959 amounted to Rs. 1,332 million as against Rs. 1,408 million in 1958.

Department of Mines

The Department of Mines was formed in 1902 to administer the Mines Act, to hold enquiries

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into mine accidents and into cases of explosions, inundations, fires, collapses, breakdowns etc. in mines of all types, from stone to coal and gold, etc.

The Department publishes a monthly Coal Bulletin, an annual Indian Coal Statistics and an Annual Report about the working of all mines in India.

Employment

The actual break-up of the persons employed in mines is given below :—

	1958	1959
Coal	382,172	383,761
Manganese Ore	86,857	59,935
Iron Ore	43,171	41,465
Mica	33,548	32,489
Gold	16,839	16,634
Others	86,773	83,733
Total employment in mines	649,360	618,017

This is exclusive of people employed in connected industries, which figure is estimated around two lakhs.

COAL

The most important coal fields are Raniganj in West Bengal and Jharia and Bokaro in Bihar. The West Bengal and Bihar fields contribute about 90 per cent of the total output. The best coking coal comes from Giridih, Jharia and Raniganj. Other States in which coal is found are Madhya Pradesh, Orissa, Andhra, Madras, Maharashtra, Assam, Rajasthan and Kashmir.

The existence of two new workable seams in the Jarangih colliery area, east of Bokaro, with a reserve of 0·33 million ton and Chirimiri coal field in Madhya Pradesh, have been proved by the Indian Bureau of Mines.

There are about 838 coal mines working in India.

Indian coal falls mainly into two classes namely, high grade steam and low grade steam.

The Metallurgical Coal Conservation Committee placed the reserves of coking coal at 329.6 million tons in respect of selected grade, 395.7 million tons of grade I quality and 49.1 million tons of grade II quality. With stowing, washing and blending the Committee thought that a reserve of 2,000 million tons of good quality coking coal could be obtained. The Geological Survey of India estimated the reserves of Gondwana coal and Tertiary coal at 38,116 and 4,533 million tons respectively.

The following table gives the details of output :—

Year	Production (million tons)
1950	32·31
1951	34·43
1952	36·30
1953	35·98
1954	36·88
	(in metric tonnes)
1955	38·84
1956	39·91
1957	44·20
1958	46·07
1959	47·82

Under the Mines and Minerals (Regulation & Development) Act, 1958, the period of lease to coal mines has been extended to 30 years with the option of one renewal for the same period.

Mechanisation in the industry is at an early stage of development. In 1959, on an average, there were 510 coal cutting machines in about 167 mines which produced 23 per cent of the total output. Also, there were 5 mechanical loaders and about 73 mechanical conveyors in operation.

Out of the 22 million tons of additional coal to be raised during the Second Plan 12 million tons will be raised in the public sector and 10 million tons in the private sector. The Plan target is 60 millions.

The existing State collieries are administered by the National Coal Development Corporation (Private) Ltd. located in Ranchi. This will also look after the collieries which will be established during the period of the Plan.

The control of coal, exercised under the colliery control order regarding distribution, price, etc., and the general control over private industry has been entrusted to a separate authority, the Coal Controller.

The approximate quantity of coal consumed by some of the principal consumers in India during 1959 was in million tonnes: Railways 15·08; iron and steel plants 6·01; electric supply companies 4·17; cement factories 2·28; brick burning 1·91; cotton mills 1·70; chemical factories 1·05; paper mills 0·66; jute mills 0·28; Indian bunkers 0·15.

The target for coal production by 1960-61 has been fixed at 60 million tons. At the same time the question of conserving metallurgical coal and washing of coal up to grade 4 has been given high priority during the Second Five Year Plan. There are already three washeries in the private sector at the Jamadoba, West Bokaro and Lodna collieries which supply washed coal to the Tata Iron and Steel Company and the Indian Iron and Steel Company, and one in the public sector at Kargali, which will supply the Rourkela and Bhilai steel plants.

The present production of these washeries is not adequate to meet their expanded needs. It is estimated that by the end of 1960-61 the steel industry in India would require about 9 million tons of washed coal per year.

Three more coal washeries located at Dugda and Patherdih in Bihar and Bhogirdih in West Bengal, are being set up under the public sector, each having a capacity of 500 tons per ton.

The washery at Dugda will supply generally Bhilai and Rourkela, the one at Patherdih the I.I.S. Co and the third at Bhorudih the T.I.S. Co.

In contract for the steel plant at Durgapur, is a washery to treat Jharia coals to meet the requirements of that steel plant.

Because of the paucity of coal deposits in south India, high priority has been given to the development of the multi-purpose 'South Arcot Lignite Project' at Neyveli. This plant will be producing 380,000 tons per annum of carbonised briquettes. (See under 'Government Industrial Undertakings'.)

IRON ORE

On account of the high ash of Indian metallurgical coke, it is usual in estimating the Indian iron ore reserves to accept only ores with an iron content of 60 per cent and above. Ores below this iron content are used only in very small quantities in Indian blast furnaces.

India possesses about one-fourth of the total world reserves of iron ore and is the biggest single country possessing such a large quantity of iron ore deposits as 21,000 million tons, though her output constitutes only 2 per cent of the total world production, compared to U.S.A. 43 per cent and U.S.S.R. 18 per cent.

The production of iron ore in 1959 was 7·9 mln. tonnes as against 6·13 mln. tonnes in 1958. The production from January to Nov. 1960 was 10·66 mln. tonnes, 33 per cent higher than output of the year before. Production during Jan.-April 1961 was 3,838,000 tonnes, 8 per cent higher than in Jan.-April 1960.

The quantity of the ore exported in 1960 was 2·4 million tonnes as compared to 2·02 million tonnes in 1959.

The whole export of the iron ore has been canalised through the State Trading Corporation from 1st July, 1957.

The foreign exchange earned through the export of iron ore during 1958 and 1959 was Rs. 99·9 million and Rs. 129·5 million respectively.

The principal buyers of the Indian ore are Japan, Czechoslovakia, Yugoslavia, Italy and West Germany in that order of importance.

Japan took 1·61 million tons in 1959 and Czechoslovakia 4·8 lakh tons.

During 1957 seven major steel companies of Japan entered into contract with the State Trading Corporation of India for the import of 7·2 million tons of iron ore over a period of 5 years. Smaller contracts were also made with the buying organisations in Czechoslovakia and Poland.

An agreement has been signed between India and Japan—March 8, 1960—whereby four million tons of iron ore will be supplied every year from Bailadila iron ore project in the Bastar District of M.P. The agreement will be valid for fifteen years.

DISTRIBUTION

The region-wise reserves proved and indicated in the country are shown below in million tons:

HÆMATITE ORES (in million tons)

Bihar and Orissa : Singhbhum 1,047; Keonjhar 988; Bonai 648; Mayurbhanj 60; total 2,743. *Madhya Pradesh :* Dhalli-Rajhara 114; Bailadila 610; Rowghat 740; Jabalpur 100; total 1,564. *Maharashtra :* Ratnagiri 5; Goa 15; Chanda 22; total 42. *Andhra :* 41; *Kashmir :* 5; *Mysore :* 904; *Rajasthan :* 5; *Punjab :* 2; *U.P.:* 10.

Total (Hæmatite ores) .. 5,316 million tons.

The total possible reserves of hæmatite ores are 17,630 million tons.

MAGNETITE ORES (in million tons)

The reserves proved and indicated in million tons are: *Madras :* Salem-Tiruchirapalli 305; *Mysore :* 215; *Bihar and Orissa :* 5; *Himachal Pradesh :* 60; *Andhra :* 20.

Total (Magnetite ores).. 605 million tons.

The total possible reserves of magnetite ores are 1,610 million tons.

LIMONITIC AND SPATHIC ORES (in million tons)

The reserves proved and indicated of limonitic and spathic ores are : *Bengal :* 500 million tons; and the possible reserves 2,000 million tons.

A coal bearing region 13 sq. miles in Bankura, Dist. (W. Bengal) has been discovered with reserves of 11 million tons.

The grand total of all ores proved and indicated is 6,421 million tons and the possible reserves 21,240 million tons.

Large deposits of high grade ores are limited to a few areas of which the following fields require special mention :—

(i) *Singhbhum and Orissa :* In what is known as the Singhbhum Iron Belt, consisting of the Singhbhum District, in which the Tata Iron & Steel Company's Steel Works are situated, and the neighbouring areas, there exist some of the richest iron ore deposits in the world. The iron content of the ore considered usable varies from 60 per cent to 65 per cent.

The new Durgapur steel plant will meet all its requirement from the iron ores occurring in the neighbouring regions. The Bonai ore range which is the extension of the main iron ore range will feed the Rourkela steel plant. The Indian Bureau of Mines has worked in this area for proving iron ore deposits for the Rourkela steel plant. Reserves of 114 mln. tons have been proved in Kiribura area by I.B.M.

Two mines namely Barsua and Kiribura are being developed, the former for meeting the iron ore requirements of Rourkela steel plant and the latter for export of nearly 2 million tons per annum to Japan.

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(*ii*) *Mysore:* There are big deposits of hæmatite and quartz—magnetite ore in Mysore but the latter are of low-grade and would require concentration before using them. The ores used in the Bhadravati Iron Works are from the Bababudan Hills and can be compared to Singhbhum ores containing about 60 per cent iron.

Limonite deposits are also known to exist but they have not been properly explored owing to transport difficulties.

(*iii*) *Madras:* Very large deposits, mainly magnetite, occur in Salem. They have been estimated at 305 million tons. They will, however, require concentration before use, and there may be considerable losses in the process.

(*iv*) *Madhya Pradesh:* Large deposits of hæmatite are found in the Bastar, Drug and Jabalpur districts of this State. Dhalli-Rajhara, Rowghat and Bailadila ranges in the Drug and Bastar districts are the major deposits in Madhya Pradesh. These three ranges are the main sources of iron ore for the Bhilai steel plant.

The exploratory work for blocking the iron ore deposits at Jharandalli in Rajhara Pahar, from where the Bhilai steel plant will draw its supplies was done by the Indian Bureau of Mines. In addition to iron ore, the Indian Bureau of Mines has also done operations in respect of limestone at Bhanpuri, dolomite at Bhanpuri, dolomite at Batapara and manganese ore at Balaghat area, in Madhya Pradesh for the requirements of the Bhilai steel plant.

(*v*) *Other Areas:* In Andhra the Bailadila range is reported to have hæmatite deposits which are inaccessible and far away from coal fields.

The only source of high-phosphorus ore is in Bengal. It is poor in iron content being 35 per cent to 45 per cent and the more easily available ore in this locality has been exploited.

The deposits in the Ceded Districts in Andhra are estimated to be not less than 300 million tons.

The contribution of Mysore to iron ore production ranges between 40,000 and 60,000 tons, and the rest comes practically from Bihar and Orissa.

Production

The following is the trend of production:

Year	Qty. in '000 metric tonnes.	Value Rs. lakhs.
1955	4,752	3,23
1956	4,976	3,99
1957	5,166	4,34
1958	6,129	4,85
1959	7,981	5,74

There has been a growing export trade in iron-ore as indicated below:

Year	Qty. in '000 tons.	Value in Rs. '000.
1952	668	2,99,08
1953	1,094	5,01,75
1954	1,056	4,62,75
1955	1,287	5,61,64
1956	1,982	10,20,00
1957	2,216	11,76,04
1958	1,900*	9,99,41
1959	2,510*	12,93,07

* In '000 metric tons.

The present yearly production of iron ore is around eight million tons and the target for the Second Five-Year Plan was 12·5 million tons. Of these, 10·3 million tons are expected to be consumed in the country, and 2·2 million tons would be available for export.

MANGANESE ORE

India is rich in manganese ore. Extensive deposits occur in Madhya Pradesh, Orissa, Andhra, Maharashtra, Mysore, Bihar, and Rajasthan.

The total reserves of manganese ore in the country are now estimated at over 100 million tons of which 15 million tons are of high grade. It is estimated that the deposits in the main belt of Nagpur and Bhandara in Maharashtra and Balaghat and Chhindwara in Madhya Pradesh alone contain reserves of the order of 80 million tons upto a depth of 500 ft. A major part of the output is exported at present.

The following is the trend of output and exports (000 tons).

Year	Production	Exports
1954	1,413	1,092
1955	1,584	1,232
1956	1,687	1,458
1957	1,602	1,706
1958	1,253 metric tons	976 metric tons
1959	1,187	986
1960 (Jan. to June) ..	624	506

To conserve good quality ore, export has been controlled since 1948. At present the export of high grade manganese ore is allowed to the extent of two million tons including 12,000 tons of battery grade. There is no quota restriction on the export of low grade. To conserve high grade ore Government is encouraging the setting up of beneficiation plant to improve low grade manganese ore and promote export. A heavy media separation plant for beneficiating low grade ore was set up by the Central Province Manganese Ore Co. Ltd. at Dongri Buzurg in Bhandara District in 1954. A similar plant is being set up at Garividhi in Andhra.

In the private sector six ferro-manganese plants located respectively at Joda and Rayagada in Orissa, Garividhi in Andhra, Dandeli in Mysore and Tumsar and Kamptee in Maharashtra have gone into production.

The Government is also encouraging the setting up of new units for the manufacture of ferro-manganese for which a production target of 160,000 tons during the Second Five-Year Plan had been proposed. Lately the Government of India has decided to double the production capacity.

Out of this, 60,000 tons will be required for internal consumption and the rest will be available for export.

The prices again showed a declining trend from the beginning of 1957. This continued during 1958 and stabilised by the end of 1959.

This is mainly due to a recession in the steel industry particularly in U.S.A. which is India's principal buyer, the supply of Brazilian manganese ore and the re-entry of Russia into the world market. The prices of 48 per cent and 38 per cent manganese ore were quoted at Rs. 175 and Rs. 60 in June 1958 as against Rs. 240 and Rs. 198 in June 1957. It is now quoted at Rs. 160 and Rs. 70 per ton (Oct. 1960).

MICA

Mica has been treated as a strategic mineral and India accounts for a big slice of the world trade in it.

The principal mica deposits are concentrated in Bihar, Rajasthan and Andhra.

In Bihar the mica belt is 96·5 to 129 kilometers long and about 19·3 to 26 kilometers wide and produces "ruby" mica which is in great demand all over the world.

At present Rajasthan is responsible for about 25 per cent of the Indian production. Most of the production from Rajasthan is sent to Bihar to be split and marketed.

The mica belt in the Nellore district in Andhra is about 65 kilometers long and 10 to 20 kilometers wide. The greater portion of the Andhra output is of "green" variety.

The statistics of mica production were not reliable till 1955. It was only after the promulgation of the Mineral Conservation and Development Rules that the Bureau of Mines was able to get correct figures.

The production and export figures of Mica are given below:—

Year	Production (metric tons)	Export (metric tons)
1957	30,943	22,376
1958	31,942	19,735
1959	28,846	23,376

CHROMITE

Chromite is an important strategic mineral of which India has moderate supplies.

The chief deposits are in the Singhbhum district of Bihar, the Mysore and Hassan districts of the Mysore State, the Ratnagiri and Sawantwadi areas of Maharashtra, the Krishna district of Andhra, the Salem district of Madras and the Keonjhar district of Orissa.

The estimated reserves of chromite ore are as follows (tons):

Bihar 20,500; Maharashtra 67,000; Madras 220,000; Mysore 765,000; Orissa 2,443,000.

The following table gives details regarding production and export of chromite ore:—

'000 tons

Year	Output	Exports
1953	65	15
1954	45	23
1955	89	48
1956	53	42
1957	79	41
1958	64*	49*
1959	85*	82*

* In '000 metric tons.

Export of chromite which was unrestricted till 1948 was brought under control and a ceiling of 10,000 tons was prescribed. In September 1955 the restriction on exports was removed.

MAGNESITE

Large deposits of magnesite used in the manufacture of magnesium salts, metallic magnesium and refractory bricks are known to occur in Salem (Madras), Hassan, Coorg and Mysore (Mysore), Almora (U.P.), Idar (Gujarat), Dungarpur (Rajasthan) and Singhbhum (Bihar).

Of these, the chief producing centres are Salem, Hassan and Mysore.

The deposits in Madras and Mysore States are known to contain 100 million tons upto a depth of 100 ft. Large deposits of magnesite have been discovered near Almora in U.P. The Indian Bureau of Mines has conducted exploratory work on magnesite deposits at Almora. Reserves of 3·3 million tons of magnesite have been proved and indicated by the department.

About a half of the output is used in the manufacture of refractory bricks for steel works and a considerable quantity is exported.

The output and export of magnesite from 1953 to 1959 are given below:—

Year	Output (Tons)	Exports (Cwts.)
1953	92,748	850,658
1954	70,507	507,236
1955	57,509	492,745
1956	91,711	690,920
1957	88,885	428,858
1958	104,236*	19,899*
1959	157,967*	27,988*

* Metric tons.

The total all-India production of magnesite during January to June 1960 was 71,316 metric tons valued at Rs. 1,166,000.

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GYPSUM

Gypsum deposits are known to exist in several parts of India. The better known gypsum bearing regions are in Rajasthan (Jodhpur, Bikaner, Nagaur and Jaisalmer) and in Madras (Tiruchirapalli district).

The total reserves are estimated at 469 million tons including the recent discovery of huge deposits of 305 million tons of gypsum in Rajasthan by the Geological Survey of India. Thus Rajasthan accounts for more than 90 per cent of the Indian reserves.

Smaller deposits also occur in Tehri-Garhwal, Himachal Pradesh and parts of western India; but these have not been explored.

The annual production from Indian deposits from 1952 is given below:—

Year	Output ('000 Tons)
1952..	411
1953..	586
1954..	612
1955..	700*
1956..	867*
1957..	936*
1958..	794*
1959..	860*

* In '000 metric tons.

The entire output is consumed in the country for the manufacture of fertilisers, cement and plaster of Paris. The cement industry consumes 3 to 4 lbs. of gypsum for one ton of cement produced. The annual requirements of the Sindri fertiliser factory is about 600,000 tons of gypsum.

Recently the Sindri Unit of Fertilisers Corporation Ltd. has carried out assessments of gypsum deposits in Rajasthan. According to them about 120 million tons of gypsum of all grades upto 30 ft. are available in Rajasthan, out of which it is indicated 25 million tons are of fertiliser grade containing 85 per cent or above $CaSo_4$.

The Planning Commission had estimated that by the end of 1960-61 the country would require 1·97 million tons of gypsum. The figure is based on the capacity envisaged for industries which use this mineral. There was a proposal to set up two additional plants similar to Sindri during the Second Five-Year Plan. One of them was to be located near Bhakra-Nangal.

The present consumption of gypsum by Sindri Fertilisers and Chemicals Ltd. is of the order of 5·3 lakh tons per year and this quantity will increase by 1·5 lakh tons after they have completed their expansion programme of production.

LEAD-ZINC ORE

In India 139,000 metric tons of lead-zinc ores were produced during Jan. to Nov. 1960 as against 147,000 metric tons during the same period in 1959.

The recovery of lead and zinc concentrates was also substantially higher being 6,488 metric tons and 9,978 metric tons respectively as compared to 5,341 and 7,391 metric tons in the year 1958.

The entire production was reported from the Zawar mines in Udaipur district of Rajasthan State.

The production of refined lead during 1959 was 3,958 metric tons as against 3,387 metric tons in 1958, representing an increase of nearly 17 per cent.

The recovery of lead and zinc concentrates amounted to 5,128 metric tons and 8,270 metric tons, respectively during Jan. to Oct. 1960 as compared to 5,256 and 8,014 metric tons in the corresponding period in 1959.

The Production of lead metal during Jan. to Oct. 1960 was 2,961 metric tons as compared to 3,313 metric tons in the same period in 1959.

SULPHUR

Native sulphur in deposits of large size is unknown in India though some occurrences have come to light in the hill ranges in the north of India.

There are occurrences in Puga and Kashmir but they are situated in a difficult terrain.

The mineral pyrites are another source of sulphur. It is found in Amjor (Bihar), Ingaldhal (Mysore), Taradevi (Simla), Lashtial (Kashmir), Polur (Madras), and Kaiga, Karwar (Mysore) of which Amjor and Ingaldhal deposits are of economic importance.

The Indian Bureau of Mines have proved 384 million metric tons of pyrites in area covering 48 sq. miles at Amjor assaying 40 to 44 per cent sulphur. Plans are afoot to recover sulphur from these pyrites by means of orkha process during the 3rd Five Year Plan. The Pyrites and Chemical Development Corporation has been set up under the aegis of NMDC to work and extract sulphur and sulphuric acid from the deposit.

A preliminary assessment has been made of the economics of a process developed by a Norwegian firm for producing sulphur from pyrites. An expert from the Norwegian firm has visited the sites of the deposits in the country to work out a detailed report on the mining of the ores and broad estimates for the project.

The annual consumption of sulphur in the country at present is estimated to be over 1·1 lakh tons to 1·29 lakh tons, the whole of which is met by imports.

As there is no production of sulphur in India, the country's requirements are met from imports, for which the recent figures are given below:—

Year	Quantity (cwts.)
1954-55	1,519,485
1955-56	1,695,411
1956-57	1,999,142
1958	108,801*
1959	136,946*

About two million tons of pyrites assaying 20-30 per cent sulphur have been estimated to be available at Ingaldhal, Mysore State.

Substantial quantities of pyrites are associated with the gold deposits of Wynad in the Nilgiris District of Madras.

Copper pyrites deposits are also a source of sulphur. Some of the Indian coal *e.g.* Assam coal and Rewa coal are high in sulphur. It has been estimated that one ton of sulphur can be extracted from the wasting of every 100 tons of coal.

The industrial development of the country largely depends on sulphuric acid. Its production went up from 107,000 tons in 1951 to 166,000 tons in 1956. A target of 470,000 tons, representing a 300 per cent increase over the present output, had been set for the Second Plan.

COPPER

India has only a small supply of copper. The country produces on an average 7,800 tonnes of fine refined copper per year, which is mostly utilised in the manufacture of brass for utensils and coins. The country's entire requirement of electrolytic copper is imported.

The production of refined copper in 1956 was 7,628 tons, in 1957 it was 7,848, in 1958 it was 7,966 metric tons and during 1959, it was 7,674 tonnes.

The production of the ore in 1956 was 386,196 tons, in 1957 it was 403,929, in 1958 it was 411,000 metric tons, in 1959 it was 404,000 metric tons. During 1960 it was 448,000 tonnes, an increase of 11 per cent over 1959. The entire production was reported from Singhbhum District in Bihar.

Production of copper metal during 1960 was 8,910 tonnes against 7,674 tonnes in 1959.

Proving operation for copper ore has also been taken up by the Bureau at Gani in Kurnool District. Drilling work is in progress in collaboration with the Geological Survey of India.

The more recent figures of import of the copper metal are given below:—

Year	Quantity (Tonnes)	Value in Rs. '000
1956 ..	31,775	151,592
1957 ..	48,622	170,333
1958 ..	52,336	134,372
1959 ..	50,840	163,095

The only area for copper ore in India is being worked by the Indian Copper Corporation at Ghatsila, Bihar, whose smelting plant is six miles away from the place. A licence for setting up an electrolytic copper refinery plant has been granted to the Indian Copper Corporation with an initial annual capacity of 8,534 tons.

There are other areas in the country where the ore might be worked. The more important of these are the Singhbhum copper belt of Bihar, Sikkim, Jalpaiguri and Darjeeling district (W. Bengal), Khetri, Daribo (Rajasthan), Tehri Garhwal (U.P.) and Gani (Andhra). Exploration conducted by the Indian Bureau of Mines is now in progress in Khetri and Daribo in Rajasthan and the results are encouraging.

Reserves of 28·4 million tons have been proved in the Madhan-Kudhan section of Khetri area. Exploratory operations have been extended to Koliham section in the Khetri area and in Pratapgarh in Daribo area. The Government of India is contemplating to set up a 10,000 ton electrolytic copper plant on the basis of results so far achieved by the Bureau of Mines.

SALT

The country has been not only self-sufficient in salt since 1951 but has now (1959) an exportable surplus of over 200 lakh maunds. As late as 1947 or 1948 the country had had to import about 120 lakh maunds each year to make up for the deficit.

The salt-producing areas are:

The coastal regions of Maharashtra, Gujarat, Kerala, Madras, Andhra, Orissa and West Bengal for salt from sea-brine;

Rajasthan from lake brine as well as subterranean brine;

Kharaghoda, Kuda, Bajana in the Little Rann of Kutch all in Gujarat for manufacture from subterranean brine;

Mandi, for rock salt, in Himachal Pradesh.

The total fixed capital in the salt industry is estimated at Rs. 8·45 crores. In 1950-51 the total investment was about Rs. 5·8 crores, of which Rs. 0·9 crore were invested in the public sector.

The First Five-Year Plan envisaged a production of 837 lakh maunds (3·1 million tons) in 1955-56. This target was surpassed in 1953 when 861 lakh maunds (3·16 million tons) of salt were produced.

The production in 1959 was 851 lakh maunds (3·1 million tons).

The Second Plan target is 1,000 lakh maunds (3·7 million tons) in 1960-61.

The statistics of production of salt are given below (in lakh maunds):

1946	479	1953	861
1947	517	1954	739
1948	636	1955	811
1949	556	1956	889
1950	713	1957	983
1951	744	1958	1,125
1952	760	1959	851
		1960-61 (target)	1,000

The capacity for production is unlimited. Actual production is limited by market conditions.

The total number of labourers employed per day in the salt industry in 1959 was 29,334 out of which 2,366 were employed in the public sector.

† Bilingual. * In tonnes.

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There are both licensed and unlicensed manufacturers. The latter are engaged in work on areas of 10 acres and less.

The Salt Control Board has decided to impose control on unlicensed salt manufacture.

With the increase in production the exports have also increased. The statistics for 1956 to 1959 are as follows (in lakh maunds):

1956	83·96	1958	79·51
1957	119·40	1959	92·29

During 1959 the quantity of salt exported to Japan was 87 lakh maunds as against 73·09 lakh maunds in 1958. This was arranged through the State Trading Corporation. The total quantity that was to be supplied between Jan. 1, 1960 and March 31, 1961 would be about 600,000 tons (about 168 lakh maunds).

There is now an agreement for the supply of salt to Japan.

Salt is subject to the levy of a cess under the Salt Cess Act of 1953. To encourage the small-scale part of this industry Government exempted manufacture in acres upto 10 acres from the payment of cess with effect from 15th May 1955. The small-scale manufacture was defined as manufacture by persons whose holdings did not exceed 10 acres. Later with effect from 23rd April 1956 all manufacturers with holdings of 10 acres to 100 acres were required to pay a cess at the rate of only one anna a maund, while those with larger holdings continued to pay cess at the rate of two annas a maund.

A Central Advisory Board and five Regional Advisory Boards—in Bombay,* West Bengal and Orissa, Andhra, Madras, Rajasthan—to advise the Government on the proper utilization of the proceeds of the salt cess and the development of the salt industry have been constituted by Government. They make suitable recommendations for the development of the industry in the private sector.

The Salt Commissioner in consultation with the Railway Board prepares every year a programme of distribution to every State based on per capita consumption. The supply from the source to the consuming areas is regulated under the zonal scheme of the distribution of salt.

The Salt Department is now under the Ministry of Commerce and Industry. The head of the Department is designated Salt Commissioner; the headquarters are in Jaipur. He is assisted by four Regional Officers, one each at Bombay, Madras, Calcutta and Mandi.

A company entitled Hindustan Salt Company Ltd. has been set up by Government which has taken over the Government salt works at Sambar and Didwana in Rajasthan and Kharaghoda in Gujarat. The authorized capital of the company is Rs. one crore.

To induce smaller manufacturers to join together to form co-operative societies a number of concessions are made.

For example, co-operative societies are exempted from payment of cess.

The standard of edible salt has been raised from 94 per cent to 95 per cent sodium chloride content with effect from 1st January, 1957.

Under the Second Five-Year Plan developments were proposed along the following lines: establishment of laboratories and model State farms, development of works and improvement of brine and of water supply, purchase of plant and machinery, medical and educational facilities and other amenities for the staff.

An expenditure of about Rs. two crores is to be incurred both in the public and private sectors.

A scheme for sinking shafts in Mandi mines has been approved. Work on this is in progress. This is expected to increase the production from 1·5 lakh maunds to 4 lakh maunds.

The Salt Committee set up by the Government in 1957 has submitted their report which is under active consideration of the Government. Creation of an autonomous Central Salt Board, introduction of a graded system of salt cess on production basis, creation of a labour and a statistics cell and ensuring payment of fair wages in salt industry, creation of a salt development credit fund for giving loans to salt co-operatives and other deserving salt manufacturers, creation of a salt labour welfare fund, registration of unlicensed manufactures, promotion of co-operative efforts in the salt industry, manufacture of bye-products, encouragement to the production of high purity salt for Alkali industries and of special varieties of salt like Iodised salt, table salt etc. are the more important recommendations of this committee.

The average number of labour employed per day in Govt. salt factories and other licensed factories during 1959-60 was 28,810 in salt factories in Gujarat, Maharashtra, Rajasthan, Mysore, Madras, Andhra Pradesh, Kerala, Orissa, West Bengal and Himachal Pradesh.

Target of salt production for the Third Five Year Plan has been proposed to be fixed at 150 million mds. as against 100 million mds. for the Second Plan. The total investment for the additional quantity has been estimated to be Rs. 75 million of which Rs. 12 million is likely to be the foreign exchange component.

RARE METALS

What is believed to be probably the world's biggest deposits of radioactive minerals was located "somewhere in North-East India" by the Indian Atomic Energy Department early in 1957.

Investigations carried out showed that the deposit had over 3·3 million tons of ore containing 300,000 tons of thorium of concentration of about 10 per cent. and 10,000 tons of uranium of concentration of 0·3 to 0·4 per cent.

The deposits also contain about 80 million tons of ilmenite. The production of ilmenite during the half year ending June 1959 was 143,000 metric tons according to the Indian Bureau of Mines. Ilmenite is recovered from the beach sands of Kerala State contributing nearly 93 per cent of the total production and the Manavalakuruchi area in Madras State. It is mainly exported to U.S.A. and U.K.

The deposit is, therefore, considered more important than the famous beach deposits of Kerala, hitherto regarded as one of the world's richest deposits.

India's total reserves of uranium are reckoned at 30,000 tons and of thorium at 500,000 tons.

Uranium mines are being developed in Bihar and Rajasthan. It is hoped enough would be found to feed the first power station which would need 100 to 150 tons of fuel a year.

* Bilingual.

IMPORT OF METALS AND ALLOYS INTO INDIA

Metals	Unit of Quantity	1959		Jan.-June 1960	
		Quantity	Value Rs. '000	Quantity	Value Rs. '000
FERROUS METALS/ALLOYS					
Ferro-alloys	Tonnes	2,257	1,955	2,399	2,478
Pig-iron and Sponge Iron	,,	69,081	32,795	16,128	8,040
Iron and Steel materials	,,	1,076,669	818,043	558,494	485,862
Total value of ferrous metals			852,793		496,380
NON-FERROUS METALS/ALLOYS					
Aluminium	Tonnes	19,341	59,578	11,629	36,227
Antimony	,,	82	166	22	46
Brass and Bronze	,,	4,198	14,526	3,655	13,015
Copper	,,	50,840	163,095	28,069	97,002
Lead	,,	24,144	24,081	12,789	13,394
Nickel	Kilograms	1,019	8,403	703	5,937
Platinum	,,	78	639	43	473
Silver	Tonnes	127	19	489	83
Tin	,,	4,550	47,099	2,218	21,756
Zinc	,,	48,811	52,800	32,593	42,746
Miscellaneous Non-Ferrous Metals ..	—	—	6,332	—	4,774
Total value of non-ferrous metals ..			377,338		235,453
TOTAL VALUE ALL METALS ..			1,230,131		731,833

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QUANTITY AND VALUE(a) OF MINERALS PRODUCED IN INDIA, 1959 AND 1960

This does not include Atomic Energy Minerals and Petroleum.

Minerals	Unit of Quantity	1959		Jan.–June 1960	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Coal (including lignite)	Million tonnes	47·83	948,778	26·06	532,927
METALLIC MINERALS.					
Ferrous					
Chromite..	Tonnes	85,217	4,966	71,275	4,451
Iron Ore	'000 tonnes	7,982	57,461	5,364	39,931
Manganese Ore	,,	1,187	94,839	624	48,077
Wolfram	Tonnes	1·4	9	2·4	2
Total Ferrous			157,275		92,461
Non-ferrous					
Bauxite	Tonnes	217,991	2,212	187,594	1,852
Copper ore	'000 tonnes	404	21,397	219	10,819
Gold (*a*)	Kilograms	5,144	53,604	2,467	27,646
Ilmenite	'000 tonnes	303	17,841	140	8,261
Lead (Concentrates)	Tonnes	6,488	2,318	2,764	963
Rutile	,,	389	383	480	472
Silver (*a*)	Kilograms	3,881	661	1,338	244
Zinc (Concentrates)	Tonnes	9,978	2,594	4,849	1,278
Total Non-ferrous			101,010		51,535
Total metallic minerals			258,285		143,996
NON-METALLIC MINERALS.					
Apatite	Tonnes	14,030	410	7,162	234
Asbestos	,,	1,366	405	1,069	129
Barytes	,,	13,552	345	6,533	124
Calcite	,,	7,566	49	4,897	34
China Clay	'000 tonnes	255	3,308	206	2,611
Corundum	Tonnes	214	104	216	114
Diamonds	Carats	682	226	182	34
Emeralds (dressed)	'000 carats	249	90	@	@
Feldspar	Tonnes	9,896	87	6,347	65
Fire Clay	'000 tonnes	218	1,597	153	1,319
Garnet	Tonnes	367	22	199	12
Gypsum	'000 tonnes	860	6,247	533	3,447
Kyanite	Tonnes	16,499	3,369	9,753	2,143
Magnesite	,,	157,967	2,435	71,316	1,166
Mica (Crude)	,,	28,846	24,376	14,568	11,581
Ochre	,,	21,190	465	12,736	270
Pyrites	,,	15	1	—	—
Quartz & Silica	,,	48,539	528	36,790	367
Salt (*b*)	'000 tonnes	3,178	59,970	2,270	44,835
Sillimanite	Tonnes	7,696	407	4,497	232
Steatite	,,	64,485	2,407	50,551	1,682
Vermiculite	,,	2	..	15	2
Total non-metallic minerals			106,848		70,401
Dolomite..	Tonnes	325,250	3,450	277,476	2,655
Limestone	'000 tonnes	10,831	45,723	6,264	26,423
Others	—	—	48,595	—	N.A.
Total value (*c*) ..			1,411,679		776,402

a. Value of metals given in the absence of the value of the ore. *b*. Includes the production of rock salt. *c*. Excluding the value of petroleum and minerals specified as prescribed substances under Atomic Energy Act, 1952. @ Dressing work was not taken up during the period. The production of crude emeralds during Jan.-June 1960 was 192,000 carats.

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FOREIGN EXCHANGE EARNED BY EXPORT DURING 1959 AND 1960

Country		U.S.A.	Japan	U.K.	France	Czecho-slovakia	Pakis-tan	West Germany	Italy	Nether-lands	Belgium	Burma	Poland	Yugo-slavia	Others
Value (Rs. Thousand)	In 1959	102,894	124,972	41,789	18,958	29,495	23,354	14,442	8,924	9,560	2,850	13,577	5,295	5,738	19,543
	In Jan.-June 1960	51,533	83,532	23,416	10,097	25,910	16,923	8,041	6,191	1,305	1,820	1,672	1,971	4,549	6,526

EXPORTS OF ORES AND MINERALS FROM INDIA

Minerals	Unit of Quantity	1959		Jan.-June 1960	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Abrasives (sized grain powder of all materials)	Tonnes	1	1	—	—
Aluminium Ores	,,	23,560	904	30,736	1,251
Asbestos (raw)	,,	33	207	291	89
Barytes (not calcined)	,,	13,216	1,056	14,465	1,029
Barytes (calcined)	,,	6	8	2	..
Total Barytes	,,	13,222	1,064	14,467	1,029
Bentonite	Tonnes	462	82	57	8
Bort	,,	—	—	—	—
Chromite	,,	81,648	11,557	33,431	5,357
Chalk (Crude)	,,	80	12	119	17
Ball Clay	,,	69	11	122	15
Earth Clay	,,	8	1	3	1
Fire Clay	,,	289	35	99	11
China Clay	,,	307	73	181	35
Coal	'000 tonnes	1,397	46,574	631	20,571
Coke	Tonnes	35,875	1,686	712	48
Diamond (natural)	—	N.A.	78	N.A.	2
Emeralds	—	—	—	—	—
Feldspar (crude)	Tonnes	436	32	1,061	84
Feldspar (natural gem variety)	—	—	..	N.A.	1
Fuller's earth	Tonnes	10	4	—	—
Graphite (plumbago)	,,	5	5	2	1
Gravel (including crushed stone)	,,	818	21	1	..
Gypsum	,,	768	82	—	—
Ilmenite	,,	281,057	20,786	171,373	12,152
Titanium minerals (other than ilmenite)	,,	—	—	—	—
Iron ore	'000 tonnes	2,511	129,307	1,922	95,728
Kyanite	Tonnes	22,692	5,975	10,424	2,681
Lime	,,	26	4	2	5
Limestone (excluding building limestone)	,,	105,712	745	30,077	197
Manganese ore (1st and 2nd grade)	,,	923,266	123,372	530,738	67,949
Manganese ore (ferruginous)	,,	57,290	2,824	53,273	2,623
Manganese ore (Peroxide)	,,	2,734	894	1,078	370
Manganese ore (others)	,,	2,361	327	1,036	169
Total manganese ore	,,	985,651	127,417	586,125	71,111
Magnesite (calcined)	Tonnes	23,070	4,107	12,226	2,289
Magnesite (not calcined)	,,	4,918	608	841	94
Total magnesite	,,	27,988	4,715	13,067	2,383
Marble	Tonnes	40	33	..	1
Mica (blocks)	,,	2,860	52,563	1,167	20,533
Mica (splittings)	,,	7,252	47,978	4,014	24,053
Mica (others)	,,	13,264	2,607	12,183	1,487
Total Mica	,,	23,376	103,148	17,364	46,073
Ochre (yellow)	Tonnes	73	16	10	2
Precious and semi-precious stones*	—	N.A.	835	N.A.	468
Sand (including ground quartz)	Tonnes	2	..	5	..
Salt	,,	346,217	4,650	233,922	3,059
Saltpetre†	,,	56	71	24	34
Sillimanite	,,	4,484	1,441	4,532	1,440
Steatite (blocks and powder)	,,	7,505	1,277	3,598	607
Stone (building)	,,	19,847	542	26,820	470
Tungsten ore	,,	—	—	—	—
Zinc (concentrates)	,,	12,616	4,730	3,552	1,564
Others	—	—	1,504	—	1,211
Total			469,625		267,706

* Excluding pearls and synthetic stones.

† Pertains to sodium and potassium nitrates.

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IMPORT OF ORES AND MINERALS INTO INDIA

Mineral	Unit of Quantity	1959		Jan.-June 1960	
		Quantity	Value (Rs. '000)	Quantity	Value (Rs. '000)
Abrasives (sized grain powder of all materials)	Tonnes	2,005	2,567	1,963	2,420
Aluminium ores	,,	—	—	—	—
Antimony ore	,,	1,312	1,276	608	613
Apatite (rock phosphates)	,,	19,886	17,025	114,062	9,927
Other mineral phosphates	,,	268	51	4,094	344
Asbestos (raw)	,,	22,745	29,459	9,294	11,135
Asphalt (natural)‡	,,	561	326	229	133
Barytes (calcined)	,,	—	—	—	—
Barytes (not calcined)	,,	18	7	—	—
Total Barytes	,,	18	7	—	—
Bentonite	,,	46	24	138	40
Borax	,,	5,823	4,341	3,368	2,331
Chalk (crude)	,,	976	169	931	153
Ball clay	,,	3,526	620	2,010	332
China clay	,,	4,357	1,007	3,025	618
Fire clay	,,	90	66	90	48
Earth clay	,,	437	156	56	32
Coal	,,	1,861	667	310	110
Coke	,,	20	9	—	—
Briquettes (of coke, coal and lignite)	,,	—	—	—	—
Copper ore and concentrates	,,	—	—	—	—
Cryolite	,,	932	1,028	743	781
Diatomaceous Earth	,,	1,286	835	260	277
Diamonds (industrial crude)	—	N.A.	228	N.A.	325
Diamonds (natural gem variety)	—	N.A.	647	N.A.	510
Emeralds	—	N.A.	419	N.A.	1,087
Feldspar (crude)	Tonnes	8	3	—	—
Feldspar (natural)	—	N.A.	17	N.A.	3
Flints	Tonnes	74	22	4	3
Fuller's Earth	,,	638	396	263	158
Fluorspar	,,	12,495	2,061	3,106	549
Gravel (including crushed stone)	,,	1	—	19	11
Graphite (plumbago)	,,	1,077	673	630	370
Gypsum	,,	1,119	22	47	1
Iron ore	,,	852	189	891	212
Lead ore and concentrates	,,	132	218	32	62
Lime	,,	84	42	147	83
Limestone	,,	—	—	—	—
Marble (unworked)	,,	72	44	3	5
Marble (worked)	,,	1	7	..	3
Total Marble	,,	73	51	3	8
Magnesite (calcined)	,,	—	—	—	—
Magnesite (not calcined)	,,	122	70	20	11
Total magnesite		122	70	20	11
Manganese ore	,,	7,361	4,307	579	376
Manganese peroxide ore	,,	—	—	—	—
Total Manganese ore	,,	7,361	4,307	579	376
Mica (blocks)	,,	—	—	—	—
Mica (splittings)	,,	—	—	—	—
Mica (others)	,,	—	—	9	14
Total Mica		—	—	9	14
Monazite	,,	N.A.	1	N.A.	..
Orpiment	,,	31	77	6	17
Precious and semi-precious stones†	—	N.A.	312	N.A.	169
Potash Salts	Tonnes	—	—	11	3
Pumice stone	,,	5	4	6	6
Realger	,,	7	8	2	3
Rutile	,,	102	49	147	123
Sand (including quartz)	,,	3	3	7	5
Salt	,,	371	30	5	2
Silver ores and concentrates	,,	—	—	—	—
Steatite (block and powder)	,,	2	2	—	—
Stone	,,	5	1	—	—
Sodium Nitrate (natural)	,,	37,466	8,881	1,882	830
Sulphur	,,	136,946	22,395	77,056	11,507
Tin ore and concentrates	,,	—	—	—	—
Tripoli earths	,,	158	95	160	95
Others	,,	—	827	—	950
Total Value			101,683		46,787

† Excluding pearls and synthetic stones.

‡ Excluding asphalts others *i.e.* manufactures.

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GOVERNMENT INDUSTRIAL UNDERTAKINGS

IN the following pages we give short notes on Government industrial undertakings.

Total profits by Central Govt. industrial undertakings: 1959-60: Rs. 1·01 crores; 1960-61: Rs. 3·01 crores; 1961-62: Rs. 3·64 crores (Budget estimate).

ASHOKA HOTEL

Chanakyapuri, New Delhi.

Telegram and Cables: "Ashoka Hotel". *Telephone:* 30111 (40 lines).

The largest luxury hotel in India. It is fully airconditioned and has private swimming pool, refrigerator, telephone and bath for every room.

When started: October 30, 1956. Total cost: Rs. 2·73 crores. Expenditure as on March 31, 1960: Rs. 66,96,935. Income as on March 31, 1960: Rs. 76,66,147; Net profit (unaudited): Rs. 9·6 lakhs. No. of rooms: 345. No. of people the hotel can accommodate: 442. The highest and lowest charge per day: Rs. 50 to Rs. 250. Total no. of persons who stayed from April 1959 to March 1960: 1,11,073.

Board of Directors: T. Sivasankar, I.C.S.; M. R. Sachdev, I.C.S.; S. Dutt, I.C.S.; N. N. Wanchoo, I.C.S.; S. Ranganathan, I.C.S.; S. S. Khera, I.C.S.; S. Ratnam; N. P. Dube; General Maharaj Rajendrasinhji Devisinhji Jadeja, D.S.O. (Retd.); H. H. Yuvrani Yasho Rajya Lakshmi of Jammu and Kashmir; K. L. Hathi; M. R. Dhawan. *General Manager:* Brig. Raj Sarin; *Manager:* Jean Barrier.

ATOMIC REACTORS

(Trombay, Bombay 38)

APSARA, India's first research reactor, incidentally the first reactor in Asia outside the USSR, attained criticality on August 4, 1956. It was designed, engineered and built entirely by the engineers and scientists of the Trombay Establishment except for the fuel elements, which were provided by the United Kingdom Atomic Energy Authority under an agreement. It operates at a maximum power level of 1 MW and at this level provides a thermal neutron flux of about 3×10^{12} n/cm²/sec. at the edge of the core.

It is of the pool-type, wherein water acts as moderator, coolant, reflector and also protective shield. It essentially consists of two parts, the central uranium core and the water tank. The reactor core is made up of an array of fuel elements, each fuel element consisting of several convex fuel plates. The fuel plates, each of which is about 2" wide, 24" long and 0·07" thick, are made of sheet of aluminium-enriched uranium alloy sandwiched between two aluminium sheets. The core is suspended in a water tank of dimensions 28 × 10 × 28 ft. to a depth of 22 ft. at specified positions depending on the research problem under investigation. The core can be moved into various positions by means of a trolley. The walls of the tank are made of 8 ft. 6 in. thick concrete.

The reactor has been designed to provide many types of experimental facilities for various investigations.

It has proved itself to be invaluable for training personnel in reactor technology and fundamental research in neutron physics, engineering, and biology.

The reactor has been used for the production of isotopes, irradiation of biological samples and testing the various types of reactor and health physics instruments as well as for fundamental research.

Several innovations have been added to the reactor such as multiple filtration of feed water to the pool, which has increased the visual clarity of the pool water and a set of microfilters, which have improved the clarity further. An underwater cleaning arrangement for the tank bottom has been introduced. Preliminary work on the design of storage bay for irradiated fuel elements and a flask for transportation of spent fuel for processing has been completed. A device for underwater fuel inspection is under development. The ionisation chambers in the control system have been modified to suit high power operation. An automatic start-up procedure for the reactor is under development.

APSARA completed four years of operation on August 4, 1960 after operating for some 2·2 million kW hours. In 1957 it operated for 17,800 kWh, in 1958 for 1,59,500 kWh and in 1959 for 6,62,200 kWh. During 1960, the reactor operated for 13,36,800 kWh upto August 20, 1960, when it was shut down for maintenance. The reactor is again in operation.

ZERLINA is India's third research reactor. A zero energy reactor for lattice investigations and new assemblies, the reactor reached criticality on January 14, 1961 at 1·32 a.m. The reactor has been wholly designed and built by the staff of the Trombay establishment. It is primarily meant for carrying out studies relating to new fuel configurations. It is designed to operate at a maximum power level of 100 w. All its components have been fabricated, shop-assembled and tested.

The reactor vessel is cylindrical in shape, approximately 427 cms. in height and 229 cms. in diameter, with special arrangements at the top for providing variable core lattices. It incorporates many safety features and electrical interlocks for safe operation.

Initially, ZERLINA will operate on natural uranium fuel in the form of rods, heavy water as moderator and graphite as reflector. The natural uranium rods are being made in the Establishment's Fuel Element Fabrication Facility and 15 tonnes of heavy water have been already obtained on loan from the United States Atomic Energy Commission. A special cadmium shutter is provided for bare reactor studies and a heating arrangement for liquid moderators is also incorporated for temperature coefficient measurements.

This reactor will be very useful in the study and design of new reactor systems.

THE CANADA-INDIA REACTOR (C.I.R.) is India's second reactor, being a joint Indo-Canadian project under the Colombo Plan. Work on this project was taken up in February 1956 and the reactor attained criticality on July 10, 1960. The total cost of the project is approximately Rs. 10 crores, being shared in roughly equal proportions by the two countries.

It is a natural uranium-filled, heavy water moderated and light water cooled high flux research reactor with a thermal power of 40MW. The reactor will be used for basic research in physics, chemistry, metallurgy and reactor technology, for the production of large quantities of radioisotopes, and for the training of personnel.

The reactor is housed inside a large steel rotunda, 120 ft. in diameter and 134 ft. high. The shell and dome are fabricated from welded steel plates ⅜" and ½" respectively.

Surrounding the rotunda is the concrete annulus building which houses the reactor control room, air-conditioning and other auxiliary process equipment. Offices and laboratories are located in the attached laboratory building.

The heart of the reactor is an aluminium tank called the 'calandria' about 9 feet in diameter and 11 feet high where the heat producing nuclear reaction takes place. Some 200 fixed vertical aluminium tubes, running through the calandria from end to end, contain the natural uranium fuel rods, shut-off rods and experimental assemblies. The calandria also contains the heavy water, which acts as a 'moderator' slowing down the fast neutrons emitted by uranium-235 from speeds of about 10,000 miles per second to about 1 mile per second at which speed a chain reaction can be maintained.

The power level of the reactor is controlled by varying the level of the moderator, *i.e.* heavy water, in the reactor vessel. Shutting down of the reactor is accomplished by dropping the six shut-off rods and at the same time dumping part of the moderator into a dump tank. The entire control system is so designed that the development of any fault in a particular system that is likely to cause an unsafe condition in the reactor immediately shuts down the reactor by dumping of the heavy water and dropping of the shut-off rods.

It will provide India with a crucial facility necessary for designing and building its own nuclear power reactors. Experiments for breeding thorium into fissile uranium-233 will be carried out in the reactor and these are of great importance as the Indian Atomic Energy Commission's nuclear power programme, as envisaged, is ultimately based on thorium, which the country has in abundance.

When the C.I.R. attains the full power of 40 MW and regular isotope production starts, it will be one of the most powerful radioisotope producers in the world, capable of producing large quantities of various radioisotopes, fully meeting the national requirements for the foreseable future.

BHARAT ELECTRONICS LTD.

(Jalahalli P.O., Bangalore 13)

Bharat Electronics was registered as a private limited Company in April 1954 with its headquarters at Jalahalli, Bangalore. The authorised capital of the Company is Rs. 10 crores of which Rs. 6·5 crores have been subscribed. The entire capital is held by the Government of India.

The capital expenditure upto March 1960 was Rs. 227 lakhs.

By 1957 the factory buildings were all completed. The factory began production in the latter half of December 1956.

Various types of HF and VHF equipment are now in the production line of the factory. These include a General Purpose Communication Receiver, a 400 WHF Transmitter, 25 Watt HF Trans-receiver, 1 Watt HF Man-pack, 20 Watt and 50 Watt VHF Trans-receivers, 750 mm VHF Man-pack, a light weight UHF transmitter for the meteorological department and some studio equipment for All India Radio, HF Transmitters of 1 and 5 kW output power, Loud Megaphone called Belhailer, Hearing aid and components, Chokes, Transformers and Coils, etc.

An agreement has been signed with PYE Telecommunication of Cambridge for the manufacture of their Wireless Set Type 62 which is a high frequency mobile Trans-receiver for the Defence Services, who have been importing this set for the last several years. Our production of this set will meet the urgent requirements of the services.

Another important agreement signed in 1959 was with PHILIPS of Holland for the manufacture of valves. Eighteen types of valves standardized by the Radio and Cable Board and accepted by the Radio Manufacturers' Association in India will be taken up for manufacture in the initial stages. The capacity of the plant will be 1·8 million valves of the miniature type which can be substantially increased by double shift working, if the demands warrant such a step. The annual turnover will be of the order of Rs. 40 to 50 lakhs when full production is reached. It was expected that the valves will be available for sale by March 1961. This is the first time that an agreement has been signed for the manufacture of valves.

Negotiations are under progress with Messrs. SIEMENS & HALSKE of Germany for the manufacture of High Power Transmitters of their design in BEL. This will help to conserve our country's foreign exchange as there is an urgent need for such transmitters in the Defence Services and other Government Departments.

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An agreement has also been signed with *Nippon Electric Co., Ltd. of Tokyo, Japan for the manufacture of medium wave Broadcast Transmitters.

Preparations are under way for the production of radar equipment.

The present strength of the employees is 1,600. Buildings and machinery cost Rs. 2 crores. When the factory is in full production, it will employ about 5,000 persons and will produce electronic equipment worth Rs 4 crores annually.

The actual production was valued at Rs. 65 lakhs in 1958-59, as against Rs. 27·88 lakhs in 1957-58. During 1959-60 the factory manufactured equipment worth Rs. 110 lakhs. In 1960-61 the production was expected to be increased to Rs. 1·75 crores and in another three years the factory will reach its peak production target.

The Company is run by a Board of nine Directors.

Chairman, Board of Directors: O. Pulla Reddy, I.C.S. (Defence Secretary, Government of India).

Board of Management: B. V. Baliga (Managing Director); A. Rangaswami (Controller of Finance); C. B. Cariapa (Deputy General Manager); T. T. Joseph (Commercial Manager).

CHITTARANJAN LOCOMOTIVE WORKS

(Chittaranjan, Burdwan Dt., West Bengal)

Branch Office: Hindustan Buildings, 4, Chittaranjan Avenue, Calcutta 13)

General Manager, G. P. Shahani.

The works are under the Ministry of Railways.

Construction started in March 1948 and was completed on September 30, 1952. The original estimate both as regards cost and the date for completion was adhered to.

Production started on January 26, 1950. The first locomotive rolled out on November 1, 1950.

The total estimated cost is Rs. 14·93 crores.

The present capital cost at charge is Rs. 16·03 crores.

The total number of workshop staff (under Factory Act), 5,257; apprentices, 435; total, 5,692. The total strength of the organization 8,463 (corrected upto Sept. 30, 1960).

The initial target of 96 W.G. class locomotives having been reached in May 1954 the target of production was stepped up to 160 W.G. class locomotives per annum. This target was reached in Aug. 1956 and has been surpassed during the last three years. It now produces a locomotive every 48 hours (April 1961). It has manufactured more than 1,000 boilers so far.

The out-turn for the financial year 1959-60 was 164 W.G. and 9 W.T. locomotives making a total of 173 locomotives.

The production schedule has been as follows:

Rs. lakhs.

Year	No. of locomotives	Cost per locomotive
1951-52..	17	7·47
1952-53..	33	7·94
1953-54..	64	6·05
1954-55..	98	5·33
1955-56..	129	4·05
1956-57..	156	4·07
1957-58..	164	4·09
1958-59..	165	4·09
1959-60..	173	4·10
1960-61..	173	4·09

Total engine output upto 30th Oct. 1960: 1,103.

With the gradual stepping up of production, the Chittaranjan Locomotive Works launched a drive to cut down to the minimum the imported content of a locomotive. Gradually the capacity for the manufacture of components was either created at Chittaranjan or in the private sector in the country. Arrangements have been finalised for establishing a Steel Foundry at Chittaranjan to meet the requirements of the Works in respect of steel castings. The initial capacity of the foundry will be 7,000 tons per annum including 1,000 tons required for crossings and points.

Certain basic raw materials are still being imported (Chittaranjan today uses only 14 imported parts in a total of 5,330 parts which go into the manufacture of a locomotive), and with all the Steel Plants now going into production, the import of raw materials will be stopped.

In addition to the manufacture of Broad Gauge Goods locomotives of the 'WG' type, the Chittaranjan Locomotive Works have also undertaken the manufacture of 'WT' class locomotives. The 'WT' is a Tank type locomotive primarily meant for heavy suburban and shuttle services, but it can also be used for shunting in goods yards, working mixed trains and banking of goods trains on heavy gradients. An order for 10 'WT' locomotives has already been successfully completed by Chittaranjan Locomotive Works.

The further development plans of Chittaranjan Locomotive Works include the manufacture of electric locomotives. An order for 10 D.C. electric locomotives for the Central Railway has already been placed on the Works. The first electric locomotive is expected to be turned out of the Works in 1961. Proposal for the manufacture of A.C. electric locomotives at Chittaranjan Locomotive Works in collaboration with certain foreign firms are also afoot.

GARDEN REACH WORKSHOPS PRIVATE LTD.

2, Farlic Place, Calcutta 1.

Garden Reach Workshops was originally established in 1916 as a partnership Company combining the interests of The Rivers Steam Navigation Co. Ltd., and The British India Steam Navigation Co. Ltd. Successors to the partnership Company, Garden Reach Workshops Private Ltd., was acquired in April 1960 by the Government of India in the Ministry of Defence.

The site of Garden Reach Workshops covers 64 acres with a river frontage of half a mile and offers slipway and dry-dock facilities for inland water craft up to 2,000 tons and building berths for shallow-draft vessels up to 1,200 tons launching weight. Repairs to deep sea vessels are handled in the stream and in dry-docks and repair berths allotted by the Commissioners for the Port of Calcutta.

The Workshops are fully equipped to undertake marine repairs of all descriptions and having modern Machine Shops and Foundries. The Workshops have become an important industrial unit in the field of general engineering, especially in connexion with the manufacture of overhead Travelling Cranes, Deep Well Turbine Pumps, Colliery Haulages and Chain Conveyors for many types of industrial machinery. Other established activities include the manufacture of Railway Block Signalling Instruments and the production and repair of electric motors up to 50 H.P., and additional services cover complete electrical contracting, pattern-making, chain-testing up to 100 tons, saw-mill and timber processing and vitreous enamelling facilities. Stocks of components and spare parts for M.A.N. Diesel Engines are maintained in Bond and complete servicing facilities are available for M.A.N. equipment.

The Workshops employ approximately 5,000 workmen throughout the year and proper attention is also given to the training of apprentices, for eventual absorption by the Workshops and other public sector establishments.

The Company has handled a large volume of ship-repair work, repairs to Indian-owned vessels and to foreign-owned vessels in the past four years representing a direct form of conserving and earning foreign exchange.

During World War II over 4,000 vessels were repaired and 114 new vessels were constructed; more than 600 vessels have been constructed up to 1960 covering a wide range of Harbour Tugs, Light Naval Craft, Dredgers, Launches, River Steamers and Flats, Water-Boats, Barges and Pontoons and thus the Workshops have become specialists in the design and construction of shallow-draft vessels. For other specialised forms of ship construction, collaboration arrangements are in force with various Technical Consultants in the United Kingdom and Holland.

Rehabilitation and development of new facilities and lines of manufacture are being actively pursued.

HEAVY ELECTRICALS LTD.

(Ministry of Commerce and Industry)

A factory for the manufacture of heavy electrical equipment in the country, such as turbines, alternators, transformers, control gear, switchgear, traction equipment, is being set up near Bhopal in Madhya Pradesh by the Government of India with the technical collaboration of Messrs. Associated Electrical Industries Ltd., of U.K.

A Private Limited Company, known as Heavy Electricals (Private) Limited, with an authorized capital of Rs. 30 crores was incorporated on 29th August 1956 to control and manage this project. Issued and paid-up capital as on March 31, 1960: Rs. 11·20 crores.

The capital outlay of the project excluding the township is estimated to be of the order of Rs. 45 crores.

The first machine tool of the factory was installed on 13th January 1960.

Production of switchgear and portions of transformers was commenced on 1st July 1960. Foundry Block No. V was commissioned early in August 1960. The factory is expected to attain full production by 1965. Production of traction motors, industrial motors and heavy rotating plant is scheduled to commence by July 1963. The manufacture of most of the items on the schedule is expected to be started by the end of the 3rd Five Year Plan.

The project was inaugurated on 6th November 1960 by the Prime Minister.

In view of the considerable increase in the demand for heavy electrical goods in the country, the Government of India are considering the question of accelerating the time table for phases II and III of the project and increasing the annual output to Rs. 25 crores per annum in the beginning of the Fourth Plan. This might even go upto Rs. 35 crores, if further development, as envisaged, develops.

Two agreements (*i*) with a Syndicate of London Banks for long term credit and (*ii*) with Messrs. Associated Electrical Industries Ltd., London as our Purchasing Agents for Machine Tools and Equipment in London, have been executed to implement the rephased programme.

To man the factory with trained technical personnel, a comprehensive training scheme has been drawn up and the training has commenced. It will have about 960 trainees at a time in single shift. However it will work in more than one shift and turn out 1,300 trained personnel every year. Over 3,000 technicians including 120 graduate apprentices are already undergoing training at the training workshop established at the project site. It is proposed to step up this number to 4,000. Nearly 200 qualified engineers have been sent for training in the U.K.

The total estimated cost of the project is about Rs. 61·00 crores. A provision of Rs. 20·02 crores has been made in 2nd Five Year Plan. Capital outlay on the 1st Phase will be Rs. 28·73 crores. Annual output of the factory expected on full production in the 1st Phase is Rs. 6·20 crores, with an employment potential of nearly 5,000 people.

* An agreement was signed on June 20, 1961 for the manufacture of high quality tape recorder at Bharat Electronics.

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The factory will employ about ten thousand men on reaching full development and about eighteen thousand men on doubling up production.

Total expenditure on the project up to the end of October 1960 is estimated at Rs. 13 crores.

HEAVY ENGINEERING CORPORATION LTD.

Combined Office Building, Nepal Kothi, Doranda, Ranchi.

Government have established a new company called the Hindustan Heavy Engineering Corporation Ltd. with an authorised capital of Rs. 50 crores divided into 5 lakh shares of Rs. 1,000 each. The issued, subscribed and paid-up capital as on 31st December 1960 was Rs. 4,24,49,000 to administer ten heavy engineering projects in view.

The projects include the Heavy Machine Building Plant, the Foundry Forge Plant and the Coal Mining Machinery Plant. The implementation of the Ophthalmic Glass Project and Heavy Machine Tools Project has also been entrusted to this Corporation.

The registered office is at Ranchi.

Heavy Machine Building Plant: To be located at Hatia near Ranchi in Bihar, the Plant will have an initial capacity of 45,000 tons of machinery per year which can be raised later to 80,000 tons. The principal items to be manufactured in the initial stages will be blast furnaces, steel melting furnaces, coke ovens and by-product plants, rolling mills, cranes, etc.

The plant is expected to go into pilot production during the latter half of the Third Five Year Plan. The total yearly value of the end products of this unit when in full production and at current world C.I.F. prices, is expected to reach about Rs. 42—45 crores in the second stage. The plant is expected to have on its roll over 3,000 direct workers and staff at the first stage and 4,800 workers and staff at the second stage. The estimated capital outlay of the project excluding township etc. is likely to be in the order of Rs. 37·2 crores for the first stage and Rs. 48 crores for the second stage. Of this, the foreign exchange components are likely to be Rs. 17 crores and Rs. 21 crores for the first and the second stages respectively. The foreign exchange needs will be mostly met from the Rouble Credits offered by the U.S.S.R.

The Detailed Project Report for this plant was accepted in November, 1959. A contract for a total sum of Rs. 12·80 crores for the purchase of plant and equipment and certain items of stores from the U.S.S.R. was concluded with Messrs. Prommashexport of Moscow in March, 1960. Consignments of plant and equipment against this contract have already started coming in at the Calcutta Port from the U.S.S.R. A large quantum of equipment as well as several miscellaneous items are also being procured from indigenous sources.

Foundry Forge Project: This Project is also being set up at Hatia with the technical and financial assistance from Czechoslovakia as an adjunct to the Heavy Machine Building Plant, to meet its requirements of grey iron, steel and non-ferrous castings and forgings. The plant is being set up in 3 stages—the second stage corresponding to the requirements of the 45,000-ton stage of the Heavy Machine Building Plant. The expected capacity at the end of the second stage of the plant will be 1,84,885 tons.

The plant is expected to go into pilot production by 1963-64.

The total capital outlay on the project is likely to be Rs. 42 crores in the first stage and Rs. 61 crores in the second stage. The foreign exchange expenditure is likely to be Rs. 15 crores and Rs. 23·5 crores for the first and second stages respectively. The plant will have on its roll about 6,000 workers in the second stage. The Detailed Project Report for this plant was received from Czechoslovakia in November, 1959 and was accepted in April, 1960. A contract was also entered into with Czechoslovakia for the supply of plant and machinery for the first stage for a C.I.F. value of Rs. 10·87 crores, excluding the contract for spare parts for machinery and equipment.

Two agreements were signed between the Corporation and Technoexport of Czechoslovakia on March 31, 1961 for the expansion of the Plant.

Negotiations are in progress in regard to the supply of equipment for the second stage and spares for the first stage besides the preparation of the Detailed Project Report for the first phase of the third stage.

The working drawings for the Foundry Forge Project are being developed in India under the technical guidance of the Czech Experts.

The contract with Messrs. Technoexport of Praha includes the supply of only the production plant and equipment required. Other items are to be procured by the Corporation either from indigenous sources or through imports.

Coal Mining Machinery Project: This plant is being set up at Durgapur, West Bengal, in technical collaboration with the U.S.S.R. and utilizing parts of their 500 million and 1,500 million Rouble Credits. The Plant was initially designed to produce 30,000 tons of Coal Mining Machinery. But in view of the proposed increase in the output of coal during the Third Five Year Plan, the Government of India decided to expand the capacity of the plant to 45,000 tons per year. The items to be manufactured in the plant are coal cutters, loaders, pumps, haulages, trolley and battery type electric mine locomotives, safety detaching hooks, spare parts etc. The total annual value of the 30,000 tons of finished machinery items to be produced at Durgapur is likely to be Rs. 16 crores; the value of 45,000 tons at the second stage being approximately Rs. 24 crores. The capital outlay on the plant is expected to reach a sum of Rs. 26 crores for the first stage and Rs. 35 crores for the second stage. Of this total, Rs. 11 crores and Rs. 14 crores are likely to be the foreign exchange components for the first and the second stages respectively. The foreign exchange needs will be met out of the Rouble Credits offered by the U.S.S.R. In the first stage, the plant is expected to provide employment to 4,000 workers.

Following the acceptance of the Detailed Project Report in November, 1959, a contract for the supply of plant and equipment, fabricated steel structures and other store materials of a total value of Rs. 7·50 crores was entered into with Messrs. Prommashexport of the U.S.S.R. in March, 1960.

Consignments of plant and equipment against this contract have already started coming in from the U.S.S.R. For this plant, also, a sizeable quantum of construction equipment, machinery, fittings etc. are being procured from indigenous sources.

Ophthalmic Glass Project: This plant is also to be set up at Durgapur with technical and financial assistance from the U.S.S.R. Originally the project was conceived for the manufacture of 300 tons per annum of ophthalmic blanks with additional provision for processing ophthalmic and anastigmatic lenses and bi-focal lenses of coloured glasses. The total capital outlay on this plant is expected to be Rs. 3 crores of which approximately Rs. 63 lakh are likely to be the foreign exchange component. The Plant is expected to go into production by 1963.

Heavy Machine Tools Plant: The plant is being set up at Ranchi in technical collaboration and with financial loan assistance from Czechoslovakia to produce annually 10,000 tons of Heavy Machine Tools in the first stage. An agreement for the preparation of detailed Project report was signed at Ranchi on 31-5-1961 between Govt. of India and Techno-export of Czechoslovakia. The site of this project covering an area of approximately 28 acres has already been selected. The capital outlay on this project is likely to be approximately Rs. 15 crores, out of which, the foreign exchange component is expected to be approximately Rs. 10 crores. The items to be manufactured at the plant are central lathes, planers, horizontal bores, vertical turning and boring mills etc.

Training and other facilities: Arrangements are in hand to set up a self-contained modern Training Institute at Hatia complete with workshop facilities to impart technical training to about 1,000 apprentices at a time. Arrangements are also being made for a number of Indian Engineers and workers to be trained both in Russia and Czechoslovakia.

Townships at Hatia, costing approximately Rs. 22 crores, and having 16,000 houses, another at Durgapur costing Rs. 8 crores and having 8,000 houses, an air-conditioned 200-roomed Experts' Hostel at Hatia and a 50-roomed air-conditioned hostel at Durgapur to accommodate the Russian and Czech Experts.

HINDUSTAN AIRCRAFT LTD.

(Hindustan Aircraft P.O., Bangalore 17, Mysore)

Tel. & Cable address : Aircraft, Bangalore.

The company is managed by a Board of Directors under the Ministry of Defence through a Board of Management.

Founded in 1940, the Hindustan Aircraft, Ltd., is the largest aircraft manufacturing, repairing and overhauling organisation in the East. It has succeeded in establishing a sound aeronautical industry in the country.

Aviation Activities: In addition to the overhaul and converting of various types of war surplus aircraft, like the DC-3, the Liberator and their engines, H.A.L. have successfully manufactured the Percival Prentice Trainer and the De-Havilland Vampire Aircraft under Licence, for the Air Force. H.A.L. have designed, developed and produced in quantity a basic piston engined trainer designated as HT-2 for the I.A.F. and civil use.

In 1958 H.A.L. built the first Indian ultra-light two-seater aircraft 'Pushpak', which can rightly be claimed as the people's plane because it is priced at not more than Rs. 22,000. While it can be employed with advantage by the Armed Forces for communication duties, artillery observation and liaison flights, the Flying Clubs can use it for the initial training of pilots and the State Governments for flying-squad duties, aerial reconnaissance and flood-relief work.

A piston type aero-engine was also produced for the first time in India in March 1959. About 95 per cent of this was manufactured indigenously. It was planned to fit the Pushpak.

The Aircraft Division has planned to produce High Speed Supersonic Jet Fighters and Jet Trainer Aircraft while the newly formed Engine Division will produce Jet Engines for installation in these Aircraft.

In 1957 the Government concluded an agreement with the Bristol Aeroplane Company, under which India obtained a licence to make the full range of Bristol-Orpheus turbo-jet engines. Licence negotiations have also been completed with the Folland Aircraft Company for the manufacture by H.A.L. of the light-weight jet fighter, the Gnat. A few H.A.L. engineers were deputed to England to familiarize themselves with the production aspect of the Gnat and the Orpheus. Specialists from these factories have also come to assist the H.A.L. in developing the industry and training Indian personnel. The manufacture of the Gnat and the Orpheus 701 turbo-jet engine has now commenced. The latter has now an indigenous component of over 50 per cent.

The factory has been approved by the Civil Aeronautical Administration of the U.S.A. for the repair and overhaul of Dakota aircraft and engines. H.A.L. is also a member of the S.B.A.C.

Pressure of work compelled H.A.L. to open a branch at Barrackpore (near Calcutta) in 1952 to meet the mounting demands of overhauling.

Other activities: H.A.L. has, since 1947, been supplying all-metal third-class broad-gauge railway coaches of their own design to the Railway Board and the production rate now is about 300 coaches a year. About 1,800 coaches, with several new amenities, like night-lights, electric

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fans, sleeping accommodation and wash-basins, had been delivered to the Indian Railways till October 1960 and proved very popular with the travelling public. These coaches now run on all the divisions of the Indian Railways and are also being used on the popular Janata services. One of the projects undertaken under the Second Five-Year Plan was the manufacture of light-weight integral coaches in collaboration with MAN, a leading German firm, the target being 300 coaches a year. Production of integral coaches has already started and coaches of the new type have already been handed over to the Railways. The target of production has already reached 300 per year, one year ahead of schedule. H.A.L. no longer builds bus bodies. It supplies pre-fabricated bus-body kits to bus-body builders under licence agreements.

H.A.L. was expected to manufacture its completely Indian-made integral railway coaches from May 1961.

H.A.L. has a modern Cast Iron and Light Alloy Foundry, which not only caters for its own needs but also supplies castings to Hindustan Machine Tools Ltd. which manufactures high precision lathes, milling and drilling machines and other concerns in the public and private sectors. H.A.L. has set up a forge shop to cater for the aluminium alloy forgings required by its Aircraft Division. The Light Alloy Forge set up at H.A.L. is the only one of its kind in India.

Net profit 1958-59 : Rs. 39,51,348. Sales turnover : Rs. 697·50 lakhs (aircraft manufacture and overhaul : Rs. 442·45 lakhs, railcoach manufacture Rs. 245·12 lakhs).

Board of Directors :

Chairman, O. Pulla Reddy, I.C.S., Secretary, Ministry of Defence.

Directors, J. R. D. Tata ; Air Marshal A. M. Engineer, D.F.C., Chief of Air Staff, I. A. F. ; S. Jayasankar (Financial Adviser, Ministry of Finance (Defence), Government of India); B. M. Abou Baker (Director of Industries and Commerce, Mysore); Prof. M. S. Thacker (Secretary, Ministry of Scientific Research and Cultural Affairs); R. P. Sarathy (Addl. Secretary, Ministry of Defence), Air Vice-Marshal Ranjan Dutt, Managing Director.

Board of Management :

Chairman, (Managing Director).

Members : J. P. Kacker (Financial Controller), P. M. Reddy (General Manager (Technical)), Air Commodore S. M. Rikh (Deputy General Manager (Engines)). Dr. V. M. Ghatage (Deputy General Manager (Design & Devpt.)), K. P. V. Menon (Deputy General Manager (Railcoach)); *Chief Administrative Officer*, Group Capt. K. C. Sarkar ; *Publicity Officer*, Major M. V. Subrahmanyam.

HINDUSTAN ANTIBIOTICS LIMITED

(Pimpri, Poona District)

The Government of India Penicillin Plant now known as Hindustan Antibiotics Ltd. is located on a 200 acre site in Pimpri, nine miles from Poona. It is a limited company of the Government of India with all the shares held by the President of India and his nominees. The authorised capital of the Company is Rs. 4 crores.

Starting in March 1952, the factory was completed in 1954. It went into production in August 1955. On 12th September 1955 the first batch of Indian penicillin manufactured at the Pimpri Plant and bottled at its Bottling Plant in Bombay was put on sale.

The factory was constructed on the basis of a tripartite agreement between the Government of India, the World Health Organisation (Since transferred to United Nations Technical Assistance Administration) and the United Nations Children's Emergency Fund.

The designed capacity of the plant is 9 million mega (9,000 billion) units per year : but the plant now produces at the rate of 25 million mega units per year as a result of the improvements in penicillin technology. A Pilot Plant, a workshop and all essential services have been arranged. Large-scale bottling operations at Pimpri commenced in March 1956. In addition, the former Indian Penicillin Committee's Bottling Plant at Bombay was shifted to Pimpri (1958) and is bottling penicillin, streptomycin and dihydrostreptomycin. The present rated capacity of the plant after completion of its expansion programme is about 40 million mega units per year.

In terms of finished product for clinical use the production was 17·9 million mega units in 1957, 29·03 mln. mega units in 1958-59, 32·05 mln. mega units in 1959-60 and 39·72 mln. mega units during the calendar year 1960. The present demand for penicillin in India is estimated at 60 mln. mega units.

The profits during 1958-59 and 1959-60 were Rs. 81·10 lakhs and Rs. 76·85 lakhs respectively after payment of income-tax. The total gross sales amounted to over Rs. 1·8 crores, in 1958-59. Rs. 3·27 crores and in 1959-60 Rs. 3·11 crores despite a substantial reduction in prices.

The factory employs 1,100 workers including the ministerial staff.

Half of the employees are housed in a modern residential colony having its own hospital, primary school, auditorium, library, recreation club, banks, post office and a consumers' co-operative store. A works committee makes suggestions for the welfare of the workers.

Equipped with the latest scientific equipment, a model Research Laboratory built at an approximate cost of Rs. 20 lakhs has been put up alongside the factory.

A production bonus of Rs. 2·43 lakhs was given to the staff and workers in respect of the working of the factory for 1957-58 and 1958-59 and Rs. 1·75 lakhs for 1959-60.

A plant for the production of 40,000 to 45,000 Kg. of antibiotics Streptomycin and Dihydrostreptomycin, is being set up at Pimpri at an estimated cost of Rs. 1·7 crores. A consultant service agreement has been signed with Messrs. Merck and Co. of U.S.A. It is expected that production will start in 1961. It will effect an annual saving of about Rs. one crore in foreign exchange. A project for the production of 25 tons of broad-spectrum antibiotics of the Tetracycline group at an estimated cost of Rs. 1·3 crores is also under consideration and the pilot plant for the first phase is nearing completion (Nov. 1960). It is also proposed to set up a plant for the manufacture of 50 tons of vitamin C per year at an estimated capital of Rs. 60 lakhs. The total developmental expenditure on all these projects amounting to about Rs. 4 crores is expected to be met from the company's present resources and future surpluses.

The Union Government is also planning to set up another antibiotic factory in the public sector with Russian aid.

When all these schemes materialise, the factory will be producing about Rs. 4 crores worth of antibiotics every year.

It may be mentioned here that Government have set up a body to examine procedures under the Chairmanship of Dr. H. J. Bhabha.

Mg. Director, S. T. Raja, B.A., LL.B., Barrister-at-Law.

HINDUSTAN CABLES LIMITED

Ministry of Commerce & Industry,
Govt. of India.

(P. O. Hindustan Cables,
Burdwan Dt., West Bengal)

With a view to manufacturing telephone cables in this country, the Government of India have set up the Hindustan Cables Factory, under the technical assistance of Messrs. Standard Telephones & Cables Ltd., London. The Company is entirely owned and financed by the Government of India and is under the over-all control of the Ministry of Commerce and Industry.

The factory started regular production in Sept. 1954. At present different sizes of underground telephone cables (600 miles) worth over a crore of rupees are manufactured every year.

During 1959-60 it produced 691 miles of cables worth over Rupees one crore fifteen lakhs. The production in 1960-61 was expected to be nearly 1,000 miles. Keeping pace with the latest development in telephone cable network, the manufacture of coaxial trunk telephone has been undertaken and production started in July 1960.

To meet the demands of the Indian Posts & Telegraphs Department steps are being taken to augment the capacity of the existing factory as also to manufacture various types of plastic insulated cables.

Chairman, Board of Directors, D. Sandilya, I.R.A.S.

Directors, N. E. S. Raghavachari, I.C.S. ; D. C. Driver ; G. D. Ambekar ; C. P. Vasudeban ; B. R. Murgai ; N. M. Vadi ; G. S. Ahluwalia ; M. S. Murthy ; K. Ramachandran ; N. K. Sen Gupta (*Managing Director*).

HINDUSTAN HOUSING FACTORY LIMITED

(Jangpura, New Delhi 14)

The Hindustan Housing Factory Ltd. was taken over completely by the Government of India with effect from 15th August 1955. It is now under the control of the Ministry of Works, Housing & Supply.

The present Directors of the Company are :—

Chairman, A. S. Naik ; *Directors*, A. P. V. Krishnan ; S. P. Varma ; N. G. Dewan, I.S.E. ; P. C. Bhattacharya, I.D.A.S. ; M. G. Kaul, I.C.S. ; N. R. Reddy ; Jaspat Rai Kapur, M.P. ; N. P. Dube.

General Manager, S. D. Pathak ; *Secretary*, M. R. Chandhoke.

The authorised share capital of the company is Rs. 75·00 lakhs and working capital Rs. 40·00 lakhs. The Government have advanced to the company 5 per cent interest bearing loan aggregating Rs. 40 lakhs for its working capital.

For the year 1-8-1958 to 31-7-1959, the target of production in accordance with the budget for 1958-59 was Rs. 57·00 lakhs, as the position of supply of raw materials had improved. During 1958-59 the factory reached the production target of Rs. 52 lakhs and is expected to further increase this by adding to its regular production roofing components and sleepers for the railways. The factory made a net profit of Rs. 84,707 during the year Aug. 1, 1958-July 31, 1959. Profit for 1959-60 : About Rs. 1·8 lakhs.

The Hindustan Housing factory at present (Feb. 1960) manufactures the following products: 1. Prestressed Concrete Department : Transmission and street lighting poles, beams for different spans, trusses and beams for industrial buildings, fencing posts. 2. R.C.C. Department (Precast): vibrated cement pipes, precast R.C.C. door and window frames, cladding panels and R.C.C. sleepers for railways. Prefab elements for housing and building construction. 3. Wood Work Department : Doors, windows, utility furniture and various other by-products such as pencils, slates, stamp pads, etc. 4. Foam Concrete Department : Foam Concrete or light weight concrete insulation blocks for cold storage plants and air-conditioned buildings and partition blocks for use in buildings as well as roofing slabs to minimise the weight on the walls. Reinforced foam concrete roofing components. The use of the lightweight partition blocks in multi-storeyed buildings brings about a saving in steel and reduction of load carrying members in the design of multi-storeyed buildings. Lightweight foam concrete insulation blocks have already replaced cork in some cold storage plants set up in Northern India.

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The Factory Management further provides facilities to the staff and workers regarding increase in wages, provident fund, E.S.I. Facilities and other privileges. The Management was expected to take up with the Government the question of a Housing Scheme for the workers.

HINDUSTAN INSECTICIDES LIMITED

Regd. Office : New Delhi.

Factories : Udyogmandal, Alwaye (Kerala)

Industrial Area, New Delhi 15.

The company was incorporated in March 1954 to manage the affairs of the first Government owned DDT Factory at Delhi, with an authorised capital of Rs. one crore. Later the Government of India decided to put up the second factory to be constructed at Alwaye, under the management of the same company. Both the factories are managed by Government through the company with a Board of Directors under the Ministry of Commerce and Industry.

Delhi Factory

This factory is situated in the industrial suburb of New Delhi and was set up with the assistance of United Nations agencies of UNICEF and W.H.O. (UNTAA). The UNICEF agreed to supply the plant and machinery at a cost of $250,000 and the W.H.O. (UNTAA) technical assistance to the extent of $100,000. The Government of India agreed to provide land, buildings, services, auxiliaries and the installation of plant and equipment at an estimated cost of Rs. 35,00,000.

The construction of the factory was started in 1953. The factory went into production in March 1955. The capacity of the plant was 700 tons Technical DDT per annum.

For doubling the plants capacity an agreement was reached by the Govt. of India with the UNICEF for an additional gift of equipment worth $275,000.

Expansion started in 1956 was completed in 1958 thus giving the Delhi plant a capacity of producing 1,400 tons of Technical DDT per annum. The factory now produces DDT to its full strength.

Production : Since the commencement of operations in March 1955 production has been steadily stepped up. From 10·6 tons production in April 1955 the D.D.T. factory reached the figure of 132·11 M. tons n September 1959. Production during the previous years was—

(*In M. Tons.*)

	1957-58	1958-59	1959-60
Technical DDT	703·20	1,288·61	1,466·00
Formulated DDT	667·77	1,117·28	1,830·42

The factory earned a net profit of more than Rs. 3 lakhs during 1959-60.

Alwaye Factory

Global tenders were invited and after protracted negotiations the firm of Messrs. Singmaster & Breyer Inc., New York, was awarded the contracts for both Technical DDT plant and the Formulated DDT plant on a turnkey basis in the years 1956, 1957 respectively.

Erection of plant and machinery was completed towards the end of 1957. With the completion of the other services like power, steam, water, trial production began in February 1958. The plant is now in regular production.

Within five months the factory crossed the rated capacity by producing 125·16 M. tons in October 1958. Production during 1958-59 and 1959-60 was—

(*In M. Tons.*)

	1958-59	1959-60
Technical DDT	825·86	1,109·00
Formulated DDT	692·70	2,252·50

The factory earned a net profit of more than Rs. 18 lakhs during 1959-60.

The entire output of the Delhi factory and the bulk production of the Alwaye Factory is earmarked for the Health Ministry (Malaria Institute of India) for their anti-malaria programme.

The Company employs approximately 520 persons at both the factories.

Training facilities have been provided in both the factories. Other amenities like canteen, dispensary, housing etc. exist in the factories.

Chairman : M. S. Himmat Sinhji.

Managing Director : B. B. Mathur.

HINDUSTAN MACHINE TOOLS LIMITED

(Jalahalli P.O., Bangalore)

This is a limited company under the Ministry of Commerce and Industry registered in Mysore on February 7, 1953 and located in Jalahalli, Bangalore.

The authorised share capital of the company is Rs. 12 crores.

The Company produces 90 types of machine tools—H 22 High Speed Lathes in 14 types, milling machines—vertical, horizontal and universal in six types, radial drills in 10 types and general purpose low priced lathes in 44 types. The company has recently entered into a technical collaboration agreement with Messrs. Officina Meccanica Olivetti, the Machine Tool Division of Olivetti, a well-known Italian firm, for the production of cylindrical grinding machines and the Company will give to the country 16 types of such machines .The grinding machines produced by HMT are sold below the landed cost of imported equivalents.

The addition of the new types of machines (grinding machines) will give further flexibility to the production programme of the factory and enable the country to save foreign exchange to the extent of about Rs. one crore per year.

The Company employs 3,568 skilled and semi-skilled workers. When the expansion programme is completed, the labour strength may be over 5,000.

In Feb. 1961, the factory produced 115 machines.

Till the end of Oct. 1960, the factory produced 2,220 machines valued at a little over Rs. 8·80 crores. The plan target of production of the Company was 400 machines by the end of the Second Plan period *i.e.*, 1960-61. The Company reached this target three years ahead of schedule by manufacturing 402 diversified machine tools valued at Rs. 1·55 crores during the financial year 1957-58. This represents two-thirds of India's output of Machine Tools.

During 1958-59 the company produced 552 machines valued at Rs. 2·01 crores and representing about 60 per cent of the entire output of machine tools in India.

During 1959-60, production came to 702 machines valued at Rs. 2·5 crores.

The annual production reached 1,002 machines by the end of the Second Plan period, 1960-61, The factory has embarked on a programme of expansion which will enable it to raise its production to 2,000 machines per year, double the plan target. The cost of the expansion programme which will be about Rs. 2·81 crores will be entirely financed from the internal resources of the factory, built up during 1956-60 in spite of the heavy expenditure on commissioning and development of Rs. one crore, which has been fully wiped off.

When the proposed expansion to 2,000 machines per year materialises in 1963, the value of the annual production will be over Rs.7 crores.

Including pending orders for 199 machines brought forward on April 1, 1959 and orders for 1,023 machines booked during the year 1959-60 there were total orders for 1,222 machines as against the production of 702 machines.

The foundation stone of the Rs. 2·5 crore watch project was laid in Bangalore by the Union Minister of Industry on 28-1-1961. The project envisages the establishment of a Watch factory of a capacity of 3,60,000 watches per year in multi-shift. Production would be stepped up to half a million per year. The factory would employ about 2,000 workers. Watches produced in the first instance would be of two types Ladies' and Gents'. Indigenous contents of the watches would rise from 54 per cent in the first year to 60 per cent in the 2nd year, 72 in the 3rd and 84 in the 4th year.

The net profit in 1960-61 after depreciation and tax liability but before return of share and loan capital of the Govt. was Rs. 82 lakhs as against Rs. 47.37 lakhs in 1959-60.

An industrial estate has been established in Bangalore attached to the H.M.T. The foundation stone was laid by the Minister of Commerce and Industry in November 1960. The simpler components of machines will be manufactured by the ancillary feeder industries constituting the industrial estate and supplied to H.M.T.

The Provident Fund contribution was enhanced from 6¼ per cent to 8⅓ per cent with effect from January 1, 1958.

The company has substantially expanded its welfare programme for the employees. The number of houses built upto Sept. 1960 for the employees rose to 860 from 319 on April 1, 1957. Two well-equipped dispensaries have been maintained by the Company for the benefit of workers and their families. Incentive bonus, enhanced wages and dearness allowance have been given to the employees. The entire wage structure has been rationalised and the minimum wage has been more than doubled compared to the wage level as on April 1, 1957.

The Company has constructed a well equipped workers' club at a cost of Rs. one lakh. The same will be further expanded with the addition of a swimming pool, etc.

National Training Institute : A National Training Institute was set up in the premises of the factory where all technicians underwent a course of expert training for some period. Training is now given also to others sponsored by other industries. The HMT continues to run the centre on behalf of the Government of India. It offers training facilities in the following trades (1) Highly skilled operators-fitters, turners, millers, grinders. (2) Reconditioning of machine tools and preventive maintenance. In view of increasing personnel needs in the light of the expansion programme, the centre runs with full complement.

Chairman and Managing Director : M. K. Mathulla.

Directors : Sarvashree V. Narahari Rao; B. M. Abu Baker, I.A.S.; N. Keshava, M.P.; G. Ramanujam; E. W. Issacs; D. Sandilya; N. N. Wanchoo; Prof. M. S. Thacker; Dr. B. D. Kalelkar.

HINDUSTAN SALT COMPANY LTD.

13, Vivekananda Marg 'C' Scheme,
Post Box No. 146, Jaipur.

The Hindustan Salt Company Limited was registered on 12th April 1958 at Jaipur. The Salt Sources at Sambhar Lake and Didwana in Rajasthan and Kharaghoda in Gujarat States were transferred to the Company on 1st January 1959, when the Company actually started functioning. The Didwana Source has been surrendered to the Rajasthan Government as from the 1st of April 1960.

The authorised capital of the Company is Rs. one crore. The total subscribed and paid up capital is Rs. 24,20,000 divided into 2,420 shares of Rs. 1,000 each and are held by the Government of India.

The fiscal year of the Company is from 1st July to 30th June. During the fiscal year ending 30th June 1960, the Company produced 103·83

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lakh mds. of salt. The figures of income and expenditure as per Budget during the above period were Rs. 1,36,22,800 and 1,29,58,100 respectively.

The Company has provided employment to 1,063 men.

The affairs of the Company are under the control of a Board of Directors appointed by the President of India. *Chairman*, S. Ratnam; *Managing Director*, H. J. Everden; *Secretary*, B. B. Mookerjee.

HINDUSTAN SHIPYARD LIMITED

(Vishakapatnam 5, Andhra Pradesh)

This is located at Vishakapatnam in Andhra Pradesh. It was originally designed by the firm of Sir Alexander Gibb and Partners.

The following table gives details of the ships built at the shipyard:

	Name of ship	Date of laying keel	Date of launching	Date of completion and sailing	To whom sold
1.	"Jalausha" (8,000 DWT) ..	22- 6-46	14- 3-48	15-10-48	Scindia S. N. Co. Ltd.
2.	"Jalaprabha" ,, ..	22- 8-46	20-11-48	31- 3-49	,,
3.	"Kutubtari" (245 DWT) ..	23- 5-47	18-12-48	19- 5-49	,,
4.	"Jalaprakash" (8,000 DWT)..	27- 5-48	8- 8-49	14-12-49	,,
5.	"Jalapankhi" ,, ..	7- 1-49	6-12-49	31- 3-50	,,
6.	"Jalapadma" ,, ..	26- 1-50	14- 9-50	14- 1-51	,,
7.	"Jalapalaka" ,, ..	26- 1-50	27-12-50	29- 3-51	,,
8.	"Bharatmitra" ,, ..	28- 9-50	26- 3-51	28- 6-51	Bharat Line Ltd.
9.	"Jalaputra" ,, ..	28- 9-50	26- 3-51	28- 6-51	,,
10.	"Jagrani" ,, ..	9- 5-51	15-12-51	4- 6-52	Great Eastern Shipping Co. Ltd.,
11.	"Jalapratap" ,, ..	9- 5-51	27- 2-52	31- 7-52	Scindia S. N. Co., Ltd.
12.	"Jalapushpa" ,, ..	26-12-51	9- 7-52	30- 9-52	,,
13.	"Bharatratna"	22- 7-52	26- 8-53	21- 6-54	Bharat Line Ltd.
14.	"Jalaputra"	22- 7-52	9-11-53	12- 8-54	Scindia S. N. Co. Ltd.
15.	"Jalavihar" (7,000 DWT) ..	1- 8-53	16- 8-54	14- 6-55	,,
16.	"Jalavijaya" ,, ..	30- 9-53	26- 3-55	17-12-55	,,
17.	"Jalavishnu" ,, ..	16-12-53	2-11-55	16- 5-56	,,
18.	"State of Kutch" (8,000 DWT) ,,	2- 9-54	29- 3-56	1-11-56	Eastern Shipping Corporation.*
19.	"Andamans" (4,000 DWT) ..	11- 8-55	25- 7-56	4-12-57	Govt. of India Home.
20.	"State of Orissa" (8,000 DWT)	8-12-55	16- 2-57	31-12-57	Eastern Shipping Corporation.*
21.	"Jalavikram" (7,000 DWT)..	16- 4-56	29- 7-57	26- 3-58	Scindia S. N. Co., Ltd.
22.	"Jalaveera" ,, ..	4- 8-56	22-11-57	1- 7-58	,,
23.	"Raj Kumar" (6,000 DWT)	31- 8-57	5- 7-58	10- 6-59	Great Eastern Shipping Co. Ltd.
24.	"Indian Industry" ,, ..	7-12-57	12-12-58	26-10-59	India Steamship Co., Ltd.
25.	"Dhruvak" (500 GRT)	27- 1-56	16- 7-58	16-11-59	Indian Navy
26.	"Jayalakshmi" (6,000 DWT)	22- 8-57	22- 4-59	27- 1-60	New Dholera Steamship Co., Ltd.

The company is managed by a Board of Directors, as already mentioned, under the Ministry of Transport. *Chairman*, G. L. Mehta; *Managing Director*, Commodore B. N. Lele, I.N. *Members*, G. Venkateswara Iyer, I.C.S.; Tulsidas Kilachand; Michael John, M.P.; Shantikumar N. Morarjee; T. M. Gokuldas; Dr. Nagendra Singh, I.C.S.; Rear Admiral A. K. Chatterji; Dr. M. V. Krishnarao; S. S. Shiralkar, I.A. & A.S.; Rear Admiral T. B. Bose; Jehangir P. Patel.

The original design envisaged the provision of eight berths but the shipyard now has four building berths to build ships ranging from 320 to 550 ft. in length, and from about 5,000 tons to about 15,000 tons deadweight capacity.

A fifth berth suitable for building small craft has also been constructed.

It has a fitting-out wharf 1,200 ft. long, which is being extended by 110 ft. towards the west.

There are about 5,000 technicians, workers and staff.

The yard has been managed by Hindustan Shipyard Limited since the 1st of March 1952, a company in which the Government of India have a controlling interest.

The authorised capital of Rs. 10 crores is divided into 100,000 ordinary shares. Issued and paid-up capital is Rs. 5,59,67,000 in which the Government's contribution is Rs. 4,55,42,000.

The value of work done at the Shipyard during 1957-58 and 1958-59 was Rs. 3 crores 43 lakhs and Rs. 3 crores 45 lakhs respectively.

During 1959-60 the value of production was Rs. 401·48 lakhs. The profit during 1959-60 was Rs. 68,873.

So far (Nov. 1960) 12 steamships of 8,000 DWT each, an unberthed passenger vessel of 245 DWT, five diesel ships of 7,000 DWT each, two diesel ships of 8,000 DWT each and one passenger-cum-cargo vessel of 4,000 DWT for the Andamans trade have been built, and three diesel ships of 6,000 DWT, apart from a mooring vessel, a launch and a tug.

Orders to build ten more ships are under execution. This number includes one naval craft for the Indian Navy.

"Darshak" the first ship built in India for the Indian Navy was launched at Vishakapatnam on Nov. 2, 1959. This is a survey ship of 2,750 tons displacement, constructed in the Hindustan Shipyard. M.V. "State of Uttar Pradesh" was launched on Dec. 31, 1959.

A provision of Rs. one crore had been made for further development of the shipyard in the Second Plan. This includes *inter alia* purchase of additional machinery and extension of the fitting-out jetty.

A full fledged training school has been started in which recruits get intensive training for 4½ years in batches of 100 each.

It is now decided that the second shipyard would be located in Cochin.

HINDUSTAN STEEL LIMITED

Bihar Govt. Secretariat Bldg., P.O. Hinoo, Ranchi.

Board of Directors: G. M. Shrinagesh, I.C.S. (*Chairman*), P. Kutar (*Production*), N. C. Deb (*Finance*), K. N. Subbaraman (*Construction*), P. C. Neogy, N. C. Srivastava, I.C.S., S. S. Khera, I.C.S., Michael John, A. Naga Raja Rao.

Hindustan Steel (Private) Limited was incorporated on 19th January, 1954 as a private limited company with an authorised capital of Rs. 100 crores with the object of establishing a steel plant at Rourkela in Orissa State.

With effect from the 1st April, 1957, the Bhilai and Durgapur Steel Projects were also transferred to the management of Hindustan Steel (Private) Limited. The authorized capital was increased to Rs. 300 crores.

In March 1959 this was renamed Hindus an Steel Ltd.

The investment at the end of 1958-59 was Rs. 373·10 crores. Out of this Rs. 73·10 crores were by way of loan and Rs. 300 crores by way of equity capital.

The loan would bear interest at a rate not exceeding one per cent over the bank rate.

When in full production each of the three plants will produce one million tons of ingot steel or in finished saleable products 0·72 million tons at Rourkela, 0·77 million tons at Bhilai and 0·79 million tons at Durgapur.

The Rourkela steel plant was formally opened by the President of India on Feb. 3, 1959, the Bhilai on Feb. 4 and Durgapur on Dec. 29, when they respectively started producing iron. The Rourkela plant started producing steel in April 1959, Bhilai in Oct. 1959 and Durgapur in 1960.

India exported her first bit of steel in April 1960 when 2,000 tons left Visakhapatnam.

It should be added that there are now plans for the expansion of all the three projects. Work on this was to start only around the middle of 1961 so that current operations aimed at building up these projects to a capacity of one million tons of ingot each should smoothly slide into the expansion programme.

About the cost of these plants, the original estimates provided for an expenditure of Rs. 439 crores for the three plants proper —for Rourkela 170 crores, for Bhilai 131 crores and for Durgapur 138 crores.

These estimates do not include the cost of townships, ore mines and quarries, land prospecting and designing development of sources of water supply, power supply facilities upto the perimeter of the plant, personnel required for operation including the cost of training, railway works outside the perimeter of the plant, personnel employed directly by the project, customs duty, expenditure on medical services, office expenditure and such other ancillary expenditure.

A provision of Rs. 120 crores has been made for these items but again the increases in the cost due to escalation have not been taken into account.

Raw Materials

The principal raw materials for the production of iron and steel are iron ore, coal and limestone.

For the Rourkela steel project, iron ore will be drawn from mines which are being developed in Barsua about 50 miles away.

For Bhilai, iron ore will be drawn from Rajhara about 60 miles away.

For Durgapur, iron ore will be obtained from new mines being developed in Bolani in Orissa.

For Rourkela, coal will be drawn from Kargali, Bokaro and Jharia fields.

For Bhilai, it is expected that besides Kargali, Bokaro and Jharia, the new fields of Korba which are being developed will also supply coals.

* It is reported that the Govt. has decided to amalgamate this with the Western Shipping Corpn. to form the Shipping Corpn. of India from June 1961.

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Limestone for both Rourkela and Durgapur will be obtained from the Birmitrapur-Hathibari areas.

For Bhilai, limestone will be drawn from the Nandini deposits about 12 miles from the steel works.

Water, Power

The Mandira Dam built across the river Sankh will provide an unfailing supply of water to the Rourkela steel plant.

A system of reservoirs will supply industrial water to Bhilai. A new coagulation tank connected with the permanent drinking water supply has been brought into use relieving considerably the water works in Drug which will supply the new steel township and the old town of Drug.

Durgapur will get its water from the river Damodar through a channel which is being constructed by the Damodar Valley Corporation.

With the adoption of the L.D. process, large quantities of surplus gases would be available in Rourkela. To utilise these and to have near at hand a source of power supply which would be reliable and responsive to fluctuations, a power plant of 75,000 kW is constructed within the steel works. During peak hours, additional power would be obtained from the Hirakud hydro-electric system.

For the Bhilai steel plant, the main source of power would be the thermal station which is under construction in Korba. In addition, 24,000 kW. of power would be generated within the steel works' own thermal station.

In Durgapur, the Damodar Valley Corporation is putting up a 150,000 kW thermal station primarily to supply the steel works. Because of the proximity of this, the stand-by station within the steel works will only be of 15,000 kW.

Training, Personnel

For each of the steel plants, it is estimated that on an average about 670 engineers and higher supervisory staff and 6,300 skilled workers and operatives will be required.

A large training establishment is being run at Jamshedpur at which every young engineer is first given preliminary training before going abroad.

Arrangements have been made with the existing steel works in India to train 1,800 operatives in about four years. Over 75 engineering firms have agreed to train 1,600 skilled workers at a time. It is hoped that by the time all the three steel plants go into full production, about 13,000 skilled workers would have been trained at these centres.

Although ultimately there would be only about 7,500 engineers, operatives and skilled workers in each plant, the number of engineers and workers employed in construction is many times more.

At present, there are 5,804 workers employed by the Rourkela project direct and 18,211 by the contractors in Rourkela (Oct. 1960). In Bhilai there are 49,380 labourers employed by contractors (31st Oct. 1960). The project employs in all 47,821 persons (Oct. 1960).

In Durgapur there are 7,751 workers employed by the project and 26,518 by the contractors.

At Rourkela there were 573 foreigners appointed by contractors, 21 by consultants and one by the project as on 30th Oct. 1960.

Each of the townships will have 7,500 houses with a hospital, health centres, schools, shopping centres and the like.

In Rourkela, 6,483 houses have been built and another 1,003 are under construction. In addition about 1,000 cheaper type houses are under various stages of construction (October, 1960). In Bhilai, 5,284 houses have been built and another 1,520 are under construction (31st Oct. 1960). In Durgapur, 5,179 houses have been built and a further 1,190 are under construction.

In addition, temporary accommodation has been provided to large numbers of construction staff and workers.

Central Committee

It has been mentioned that the Government of India have decided to set up a committee to co-ordinate the work of various organisations engaged in the detailed planning of the expansions of the three steel works in the public sector.

The committee will consist of the General Managers of the three steel plants at Rourkela, Bhilai and Durgapur and a representative each of the Department of Mines & Fuel and Iron & Steel of the Ministry of Steel, Mines & Fuel. The General Manager (Construction Division) of the Hindustan Steel Ltd. and the Iron & Steel Controller of Government of India will also be members of the committee. The representative of the Department of Iron & Steel will be the convener of the committee.

The committee has been set up to plan the economic expansion of the three steel works with a view to securing the timely production of various categories of steel for which additional demands are likely to arise during and immediately following the Third Five-Year Plan.

With Hindustan Steel there is also a Central Designs Organization for planning and designing future steel plants. It is located in Rourkela and is at present engaged in planning the expansion of the three steel plants.

Rourkela: The annual output expected at Rourkela is about one million tons of steel ingots capable of being turned into about 720,000 tons of finished plates, sheets, strips, and tinplates.

It has been decided to expand the capacity of the plant to 1·8 million tons during the Third Plan.

The plant will consist of 3 coke oven batteries of 70 ovens each, a By-Products Plant and 3 Blast Furnaces each producing 1,000 tons of iron a day. The steel melting side consists of 4 Open Hearth Furnaces (of 80 tons capacity) and 3 L.D. Converters which will produce 250,000 tons and 750,000 tons of ingot steel, respectively.

The L. D. Converters are the first of their kind in India. The first of these was switched on on 28th Dec. 1959.

Rourkela is designed to produce 200,000 tons of plates, 470,000 tons of hot and cold rolled sheets of various gauges and 50,000 tons of tinplate, besides about 40,000 tons of foundry iron.

The by-products plant will deal with 130 tons of tar per day and produce benzol, creosote, naphthalene and other products.

In addition, a fertilizer plant is being put up to use the surplus nitrogen from the oxygen plant. This will produce 580,000 tons of nitro-limestone. The fertilizer plant will, therefore, be the biggest in Asia.

The present (March 1961) estimated cost of the plant is Rs. 221 crores including the cost for development of mines, town and other services.

The plant started production of pig iron on Feb. 3, 1959 and the first steel ingot was produced on April 30, 1959.

The blooming and slabbing mill was ready on Dec. 15, 1959 when the first slabs were rolled out. Commercial production started on Jan. 11, 1960. The mill has been designed to roll steel ingots upto a maximum weight of 16 tons each, and ultimately roll 1·8 mln. tons of slabs per year.

The plate mill was commissioned on Sept. 12, 1960. The Prime Minister opened on 28th March 1961, the wide strip mill, the penultimate stage of the Steel Project. The strip mill will roll 600,000 tons of sheets and strips during the initial stages.

Till the end of Dec. 1960, about 580,000 tons of pig iron were produced. The Plant produced 41,998 tonnes of pig iron and 26,491 tonnes of steel ingots in Jan. 1961 against 39,828 and 20,944 tons respectively in Dec. 1960. The production of finished steel rose from 5,283 tonnes in Dec. 1960 to 7,286 tonnes in Jan. 1961.

Production in the Rourkela Pipe Plant commenced in Sept. 1960. The capacity of the plant is 120,000 to 180,000 tons a year on single shift basis.

Rourkela is in Orissa, 257 miles from Calcutta on the main Calcutta-Bombay railway line.

It is spread over an area of about 20 sq. miles.

In the township 6,622 houses had been completed by the end of 1960.

Managing Director: Lt. General S. S. Thorat; *Technical Adviser:* Dr. H. Klinar; *Chief Engineer (Plant):* B. R. Malhotra; F. A. & C. A. D. B. Murao.

Bhilai Steel Project: An agreement was entered into between the Governments of India and the U.S.S.R. on 2nd February 1955, providing for technical and economic assistance in the erection of an integrated Steel Plant at Bhilai in Madhya Pradesh. The Plant is designed to produce one million tons of ingot steel to be rolled into 770,000 tons of heavy and medium structural steel and 300,000 tons of pig iron.

Construction started at Bhilai in the spring of 1957. Production of pig iron began on the 4th of Feb. 1959 and the production of steel on 12th Oct. 1959.

Production during Jan. 1961: Pig iron 72,609 tonnes as against 62,016 tonnes in Dec. 1960. Steel ingots 48,374 tonnes as against 38,496 tonnes in Dec. 1960. Ammonium Sulphate Fertilizer 988 tons in Dec. 1960. Crude tar 2,670 tonnes in Dec. 1960. The production of saleable steel stood at 34,313 tonnes in Jan. 1961. Till the end of Dec. 1960, 982,001 tons of pig iron were produced.

When complete there will be at Bhilai 3 coke oven batteries with 65 ovens each, 3 blast furnaces and some by-product units. The blast furnaces have a rated capacity of 900 tons each per day.

Iron will be converted into steel in 6 open-hearth furnaces of 250 tons capacity each.

The Rolling Mills will consist of one Blooming Mill, one Rail and Structural Mill, one Continuous Billet Mill and one Merchant Mill.

The blooming mill went into operation on Nov. 7, 1959 and the billet mill on Dec. 24, 1959. The latter has a capacity of 420,000 tons per annum. The rail and structural mill was commissioned on 27th October 1960 and has an annual capacity of 365,000 tons.

The merchants mill, the last of the four rolling mills of the Bhilai steel plant was commissioned on 2nd Feb. 1961, marking the completion of the construction work on the steel plant.

The third blast furnace and coke oven and the fifth open hearth furnace of the Bhilai steel plant was inaugurated on 30th Dec. 1960.

With the commissioning of these additional units, the Bhilai steel plant practically takes full shape, and work unit was expected to be completed by the end of March 1961.

The blast furnace is the last under the present programme of the steel plant.

The fifth open hearth furnace commissioned on 30th Dec. 1960 has a capacity to tap 250 tons of steel every day. The sixth open hearth furnace, which will be the last, will be commissioned in 1961.

The general pattern of products to be manufactured annually in Bhilai would be as under:—

Rails (Standard gauge)	100,000 tons
Rails (Narrow gauge)	10,000 ,,
Heavy structurals	284,000 ,,
Sleeper-bars and crossing sleepers	90,000 ,,
Rounds and Squares	121,000 ,,
Flats	15,000 ,,
Billets	150,000 ,,

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About 60,000 tons of various products like coaltar, ammonium sulphate, benzol, toluene, are expected to be recovered annually by treatment of the gases given out from coal during its conversion into coke.

The capacity of the plant will be expanded to 2·5 million tons under the Third Five Year Plan.

This expansion has now been decided and an agreement has been arrived at with the Soviet Union.

The estimated cost is about Rs. 131 crores exclusive of the cost of township, ore mines, and such other ancillary expenditure. In 1957-58 about Rs. 63·33 crores were spent on the project as against an expenditure of Rs. 9 crores in 1956-57.

The expenditure incurred in 1958–59 was Rs. 74·74 crores and the total expenditure upto the end of March 1959 was Rs. 123·67 crores.

The foreign exchange component of the expansion expenses is about Rs. 42 crores. It is expected that this would be met out of the Rs. 180 crore rouble credit offered by USSR for the Third Plan.

Bhilai is in Madhya Pradesh, 156 miles from Nagpur on the main Calcutta-Bombay line.

It may be added that at the end of Oct. 1960 there were 498 Russians on construction and operation. In addition there were 54 Russians representing the Trade Group Supplier — Soviet firms fabricating machinery and equipment for the Bhilai plant.

Gen. Manager : Suku Sen.

Senior Dy. Gen. Manager : R. M. Ray, I.M.P.

Chief Engineer : P. P. Dani.

Durgapur Steel Project : The Steel Plant at Durgapur in West Bengal is the third one in the public sector (besides Bhilai and Rourkela). This will produce one million tons of ingot steel to be rolled into about 790,000 tons of light and medium sections and bars, in addition to 350,000 tons of pig iron for internal sale and export. It is proposed to expand the steel plant during the Third Plan to produce 1·6 million tons of ingot steel.

The steel plant produced 37,844 tonnes of pig iron and 19,598 tonnes of steel ingots in Jan. 1961 as against 36,156 tonnes and 18,425 tonnes respectively in Dec. 1960. The saleable pig iron showed an increase from 19,155 tonnes in Dec. 1960 to 20,511 tonnes in Jan. 1961.

During 1960, 427,495 tons of coke, 321,868 tons of pig iron, 65,276 tons of billets, 1,460 tons of sleeper bars, 16,793 tons of crude tar, 3,796 tons of ammonium sulphate, 4,117 tons of sulphuric acid and 136 tons of naphthalene were produced.

A 'package deal' contract for the construction of the works was signed with Messrs. Indian Steelworks Construction Co. Ltd., London on October 31, 1956, and the work is expected to be completed by the end of 1961.

At present one coke oven battery, two blast furnaces, four open hearth furnaces, two primary rolling mills, the continuous billet and sleeper bar mill are working, besides various units of the by-products plant, foundry and maintenance shops and other service units. The second blast furnace was commissioned on 2nd Feb. 1961. This furnace will produce 1,270 m. tons of iron a day. The Second Battery of the Coke Ovens was lighted up on October 12. Production at this battery was to start from the middle of December 1960. The coal washery with a capacity to wash 360 tons of low grade coal per hour also functions.

Ultimately the Durgapur Steel Works will have three blast furnaces, each with 1,250-ton capacity per day, seven 200-ton basic open hearth furnaces and one 100-ton open hearth furnace for making special steel, a 42" blooming mill, a 32" blooming mill, a continuous billet and sleeper bar mill, sleeper and fishplate plant, a 24" medium section mill, a continuous merchant mill and a wheel and axle plant.

These will produce 100,000 tons of forging blooms, 240,000 tons of Merchant Sections, 60,000 tons of forging bars, 60,000 tons of sleeper bars, 150,000 tons of billets, 200,000 tons of light sections, 30,000 tons of forging blooms, 45,000 sets of wheels and axles for railways and 350,000 tons of pig iron for sale.

The various by-products include ammonium sulphate, benzene, toluene, xylene, solvent naphtha, naphthalene, road tar, wood preserving creosote.

The original estimated cost of the plant was Rs. 138 crores.

Expenditure incurred by the project upto end of 1958–59 : Rs. 97·73 crores. Amount spent during 1958–59 : Rs. 55·62 crores ; amount spent during 1959–60 : Rs. 50·22 crores ; amount spent during 1960–61 : Rs. 21·37 crores (estimated).

No. of British technicians who joined the project till end of Sept. 1960 : 92.

The steel township, part of the Project, is built to house in the first phase 7,500 employees at a cost of nearly Rs. 14 crores. More than 5,000 of them have already been completed and the rest will be ready shortly.

The Project is administered by a General Manager, who is also an ex-officio Director of the Hindustan Steel Ltd.

General Manager : P. C. Neogi.

Dy. General Manager : P. C. Sood, I.M.P.

General Superintendent : R. C. W. Cameron.

WASHERIES

The requirements of washed coals for the three new steel plants in the public sector and the expanded steel plants in the private sector are estimated at about 8·27 million tons.

The washery at Kargali, set up by the National Coal Development Corporation, will supply 1·1 million tons to Rourkela and 0·5 million tons to Bhilai.

Two washeries owned by Tatas, one at Bokaro and the other in Jamadoba would, after certain improvements, supply 1·5 million tons of washed coals. The washery at Lodna, which supplies the Indian Iron and Steel Works, has an output of 0·22 million tons.

With the establishment of the washery at Kargali and the improvements to the Tata Washeries, capacity has to be set up only for the balance of about five and a half million tons. A washery is included in the contract for the steel plant at Durgapur to supply 0·8 million tons to meet the requirements of that plant. The balance—about 4·15 million tons—is proposed to be met from three washeries to be put up, one in Dugda, another in Bhojudih and the third in Patherdih.

The washery in Dugda will supply washed Jharia coals to Bhilai and Rourkela, the one in Bhojudih to the Tata Iron & Steel Works and the Patherdih washery to Indian Iron & Steel Works.

The three washeries will be under Hindustan Steel. Dugda will have a capacity of 500 tons an hour, Bhojudih 250, Patherdih 400. The first was expected to be commissioned end of 1960, the second will be commissioned at the end of 1961, third sometime in 1962.

INDIA GOVERNMENT SILVER REFINERY PROJECT

47, Strand Road, Calcutta 7.

This project is under the Ministry of Finance (Department of Economic Affairs), Government of India. Erection and installation of the plant has been completed and it has already started production.

The capital outlay on the project will be of the order of Rs. 1·3 crores.

The number of persons employed on the plant is about 350. Some of the departments of the Refinery are now being operated in three shifts round the clock.

The project is intended for the extraction and refining of silver from the Q.A. cut and defaced coins and recovery of copper as by-product.

The process of refining is a new patented process, the joint authors of which are late Mr. G. C. Mitter, formerly Master, Assay Deptt. and Silver Refinery Project and Messrs. Demang Elektrometallurgie G.m.b.H., West Germany.

General Manager, V. J. Joshi.

INDIAN RARE EARTHS LIMITED

Udyogamandal P.O.
(Alwaye, Kerala)

This factory is owned jointly by the Government of India and the Government of Kerala.

The subscribed capital is Rs. one crore, of which the Government of India's share is 64 per cent and of the Kerala Government 36 per cent.

The factory started production in July 1952. The Plant has a rated capacity to process 1,500 tons of Monazite per annum. The main products are Cerium Compounds, *viz.*, Mixed Rare Earths Chloride, Mixed Rare Earths Carbonate and Crude Cerium Hydroxide. Cerium Oxide and Cerium Naphthenate are also manufactured in small quantities. Trisodium Phosphate is obtained as a by-product.

The Cerium Compounds are exported for use in the manufacture of Misch Metal, Nodular Cast Iron, Alloys for Jet Engines, Pyrophoric alloys, Enamelling of Cast Iron and Steel, Polishing of Optical Glass, Tinting of Optical Glass, Lenses for aerial photography cameras, Tanning of leather, Carbon for arc lamps, etc.

The Trisodium Phosphate has multiple uses and is being used in textile, paper and other mills and industries for dyeing, bleaching, softening of industrial water, in boilers and for general cleaning purposes in mills, factories, hospitals, homes, etc.

The Company also operates the Thorium Plant of the Government of India at Bombay where Thorium Compounds are manufactured from raw material obtained at the Alwaye Plant.

Thorium Compounds are sold by the Company on behalf of the Department of Atomic Energy, Government of India.

The factory made a profit of Rs. 93·187 in 1959–60 against a loss of Rs. 1,23,952 during the previous year.

The company earned foreign exchange worth Rs. 18·82 lakhs during the year by the sale of rare earths chloride abroad. Thorium nitrate produced at the thorium plant of the Department, Trombay, fetched Rs. 2·3 lakhs in foreign exchange during the year, besides meeting in full the internal demand of the gas mantle industry.

Chief Administrative Officer, G. Rajagopal Menon.

Works Manager, H. N. Sethna.

Deputy Chief Administrative Officer, K. V. N. Nayar.

Deputy Works Manager, Alwaye, C. M. Mani.

Deputy Works Manager, Thorium Plant, C. R. Das.

INDIAN REFINERIES LIMITED

New Delhi.

A private limited company under the Companies Act, 1956, under the name and style of "Indian Refineries Limited" was registered in Delhi on August 22, 1958, with an authorised capital of Rs. 30 crores to control and manage the two oil refineries to be established by the Government.

The Company is being managed through a Board of Directors appointed by the President. The number of Directors for the present is ten.

Chairman, N. S. Mani, I.C.S. ; *Managing Director*, P. R. Nayak, I.C.S.

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INDIAN TELEPHONE INDUSTRIES LIMITED

(Duravani Nagar, Bangalore 16, Mysore State)
Railway Station : Krishnarajapuram
(Southern Railway)

Tel. Address : "Phonindustry."
Telephone : 5111 (4 lines)

Regional Offices, Sales & Service : National Insurance Bldg., 1st floor, 27, Bastion Road, Bombay 1 ; 22, Chittaranjan Avenue, United India Life Assurance Bldgs., Calcutta 13 ; 12-B, Netaji Subhash Marg, Daryaganj, Delhi 6 ; Flat No. 4-A, Agurchand Mansions, No. 35, Mount Road, Madras 2.

Total Investment :

Authorised Capital.. .. Rs. 4 Crores.
Subscribed and Paid-up Capital .. .. .. ,, 4 Crores.
Loan from the Govt. of India Rs. 1 Crore (approx.).

Board of Directors :

M. M. Philip, I.C.S. (*Chairman*) ; R. C. Vaish ; J. J. Eades ; D. S. Tod (*Alternate Director*) ; S. S. Shiralkar ; S. M. Ramakrishna Rao ; T. Shamanna ; S. L. Kirloskar ; Jagdeesh Prasad (*Managing Director*).

Administration :

General Manager, N. V. Shenoi.
Joint General Manager, P. K. Verghese.
Financial & Accounting Manager : S. R. Subrahmanyan.
Works Managers : W. M. Kulkarni (Max); S. Sankar Raman (Transmission).
Chief Engineer : H. J. Mirchandani.
Secretary, D. V. M. Rao.

The I.T.I. Ltd., the first industrial concern in the public sector after achieving independence, was originally started as a Government department in 1948 under the Ministry of Communications. On February 1, 1950 it was converted into a private limited company with the Government of India as the major share-holder.

Facts and Figures

Present Production per annum : Telephones — 1,20,000 ; exchange lines — 80,500 lines ; carrier equipment — 1,500 ; channels of long distance, transmission channels equipment and railway electrification equipment. In addition road traffic signals and other telecommunication equipment such as transmission measuring set, voice frequency repeaters, ultraphones, etc. are produced in considerable quantities. Paper condensers, fan condensers, condensers for fluorescent tube lighting, silver mica capacitors and precision screws of various types and sizes are also manufactured, surplus quantities of which are supplied to other industries.

I.T.I. has already exceeded the annual production targets laid down for the Second Five Year Plan in the production of telephones and exchange lines. During the Second Five Year Plan it was originally envisaged that a total of 3,20,000 telephones and 2,15,000 exchange lines would be produced. Against these targets, during the Second Plan period (from April 1956 to November 1960), I.T.I. has already produced 363,172 telephones and 223,585 exchange lines as against a target of 320,000 and 215,000 respectively.

During the Second Plan period the factory produced 4,41,000 telephones. I.T.I. supplied considerable quantities of telecommunication equipment for the electrification projects of the Indian Railways.

During 1959-60, the industry made a net profit of Rs. 37·14 lakhs. The turnover was nearly three and half crores of rupees representing an increase of a little over Rs. 24 lakhs over the previous year. The dividend of 2½ per cent has been maintained.

The I.T.I. has developed a new type of telephone named "Type 601" whose performance is far superior to the instrument now in use. This new type of telephone is expected to be available to the public in 1961. Minaturisation of the items produced is one of the prominent factors. At present various transistorised equipment are being developed by the Development departments. The I.T.I. will start manufacturing a new telephone receiver before the end of the Third Plan period. All the components of the receiver will be indigenous.

A joint Works Council of management and labour was inaugurated on 7th April 1959. A rational system of production bonus and incentive scheme exist.

Number of persons employed : 7,600.

INTEGRAL COACH FACTORY

Perambur, Madras.

The Integral Coach Factory Project at Perambur, a suburb of Madras on the Madras-Bombay line, is one of the largest Coach Building Unit in the world. It is an important endeavour of the Ministry of Railways included in the first Five-Year Plan, and is a significant step forward in the attainment of self-sufficiency in rolling stock.

Construction started in the latter half of 1952. The construction phase of the project covered about three years. The first coach was turned out on October 2, 1955.

The thousandth coach rolled out on January 22, 1960.

The yearly target of railway coaches to be manufactured in the factory during full production was originally 350 coaches. This had been planned to be achieved in the course of five years after October 1955. The target was, however, achieved much earlier. Details of the actual production and targets are given in the table below.

Period	Target as per agreement with the Swiss firm	Revised targets	Actual outturn
April 1955–March 1956	8	12	12
April 1956–March 1957	47	72	88
April 1957–March 1958	149	174	222
April 1958–March 1959	255	312	381
April 1959–March 1960	331	350	447
April 1960–March 1961	350		623 (anticipated).

In order to meet the increasing requirements of coaching stock for the Indian Railways, a second shift working has been introduced. The second shift is being gradually intensified so as to increase the outturn to about 700 coach shells per year.

From May 1960 the factory has been producing over 40 coaches every month.

The type of coach manufactured in the factory called the "integral coach" is of a modern design developed by a Swiss firm, Messrs. Swiss Car and Elevator Manufacturing Corporation Ltd., Schlieren, Zurich with whose collaboration the factory was designed. This coach is of all welded steel construction of the integral type.

The factory was producing only third class coaches and has now begun to manufacture third-class-cum-luggage and brake vans, third class sleeper coaches and first class coaches also.

During the Third Plan period, this factory has a production programme for a total of 3,735 coaches for the Indian Railways. This programme includes coaches for the broad gauge as well as as for the metre gauge. Diesel rail cars and the electric multiple unit stocks are also proposed to be produced at this factory during the Third Plan. The Third Plan of the Railways envisages procurement of 197 diesel rail cars as under : 67 broad gauge at the estimated cost of Rs. 6·4 lakhs per unit, 120 metre gauge at the estimated cost of Rs. 3·8 lakhs per unit and 10 narrow gauge cars at the estimated cost of Rs. 2·5 lakhs. The factory also intends building coaches for the export market.

Technical Training : Facilities exist for imparting training to the candidates in both theory and practice. A Technical School to train all the skilled workmen of the factory was established in March 1954, 18 months ahead of production.

Furnishing : The original intention was that the Integral Coach Factory would produce only shells while they will be furnished in the Railway workshops. Due, however, to the impact of the Second Plan, it has been decided to cater for furnishing all the shells at I.C.F. itself.

A separate furnishing unit, with a project cost of Rs. 3·69 crores is therefore being set up adjacent to the present Shell Unit. Construction work for this permanent furnishing factory is already in hand. Necessary land has been acquired and ancillary works like Railway sidings, roads, compound walls, water supply pipelines, works entrance, etc. have already been completed. The construction of the Main Works Office is nearing completion. The workshop structures in prefabricated reinforced concrete, a technique which is being tried for the first time in this sector, are now in hand. It is expected that this Furnishing Factory will be completed by about the middle of the Third Five Year Plan.

In the meanwhile, the factory has started furnishing coaches on a small scale by providing temporary facilities. Starting from May 1957, this temporary furnishing unit has gradually developed its output and is now furnishing at the rate of about 25 coaches per month.

Cost of the Coach : With increased outturn and improvement in the skill and technical know-how of the staff, the cost of production of coaches has been systematically reduced. The latest cost of production of an indigenously manufactured shell is only Rs. 78,000 as against Rs. 1,86,000 in 1955. This cost is considerably below the landed cost of an imported shell and also much lower than its ex-works price at Switzerland. Incentive system of payment has also been introduced in the factory from Jan. 1960 to further improve the production efficiency. Materials worth Rs. 37,000 were imported for the earlier III class coaches. Now this has been reduced to Rs. 5,000.

Amenities : A Colony of more than 600 quarters has been provided to accommodate the essential staff with modern amenities such as a Middle School, a Children's Park, a Recreation Club, a Co-operative Store and an open air theatre for the cultural activities of employees.

There are a Welfare Organisation to look after the welfare of the employees, a staff council with elected members for suggesting improvements in working conditions and production methods, suggestions and inventions scheme which encourages the workers to put up practical ideas for better and more economical production and a guardianship scheme by which supervisory staff take an interest in batches of workers after and during working hours. To encourage team spirit and comradeship, playgrounds have been provided in the factory area and there is a regular sports coach. The factory has first class hockey, football and athletics teams.

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The total number of employees (permanent and temporary) on the rolls is about 7,000 as against 4,779 in March 1958.

Chief Administrative Officer: K. Swarup; *Deputy Financial Adviser and Chief Accounts Officer:* V. R. Ganeshan; *Deputy Chief Mechanical Engineer (Furnishing):* K. M. Aiana; *Deputy Chief Mechanical Engineer (Shell):* C. G. Devaya; *Deputy Controller of Stores:* R. K. Tandon; *Secretary to Chief Administrative Officer:* K. T. Jethmalani.

MAZAGON DOCK LIMITED

Mazagon, Bombay 10.

On 14th May 1960, one of the biggest British Marine and Industrial ventures in this country became a National Undertaking when Mazagon Dock Ltd. was acquired by the Central Government. Situated at Bombay in the State of Maharashtra the Mazagon Dock is Western India's leading Ship-Repairing and Ship Building concern.

The Mazagon Dock is fully equipped to carry out all types of major repairs to Passenger Ships, Tankers and Cargo Ships. During the last war no fewer than 4,680 War-ships and Merchant Ships were repaired and during the period of 1954–58 over 2,000 ships flying the flags of 23 nations sailed out after being repaired here.

The first ship launched from its slipways was the cargo ship "HORMASJEE BOMANJEE" in 1828. This was followed by quite a few merchant ships and Men-of-War, notable among which are the "TIGRIS" and the Frigate "SHANNON". In more recent years quite a few Tugs, Oil Flats, Lighters and Launches were designed and constructed here. During the period of 1954–58 Mazagon Dock constructed 9 Tugs, 2 Grab Dredgers, 3 Anchor Boats, 2 Firefloats, 1 Survey Launch, 19 Barges and 1 Spirit Aviation Lighter. During the year 1960-61 it was planned to lay the keel of a 2,500 ton Passenger-cum Cargo ship, 2 ocean going Salvage Tugs, 3 large Aviation Fuel & Water Lighters and a host of smaller craft.

The Mazagon Dock has seven building berths out of which 3 are covered and 4 are open. Six of these berths are 260 ft. each and one berth is 165 ft. long. The construction of a 450 ft. long berth is under active consideration. The berth will be used for building coastal ships and specialised naval and commercial craft.

Besides ship repair and ship building, steel work fabrication, ferrous and non-ferrous foundry work, steel forgings, electrical and automobile work, all types of timber construction and general engineering work are carried out under fully qualified European and Indian Supervisors. More recently an entirely new project has been started in collaboration with Campbell Oil Engine Co. Ltd., Glasgow, and the Company manufactures various sizes of small horizontal and vertical engines of 6 to 20 H.P. It is planned to increase the production as the demand for small engines is on the increase and very soon it is hoped to export them to the Middle East and Far East countries who have shown a keen interest in the performance of the engine.

The naval work which is being done in Mazagon Dock after nationalisation utilises only a part of the yard's capacity and the establishment basically remains a commercial Yard.

It has got three dry docks named "Ritchie", "Mogul" and "Mazagon". The Ritchie Dry Dock is 483 ft. in length with a width of 62'-6" between the lower altars. The largest vessel docked was "The British Patience" with a moulded beam of 61 ft. The Mogul Dry Dock is 395 ft. long and 56 ft. wide. The Mazagon Small Dry Dock is 154 ft. in length, 33 ft. wide and actually vessels 125 ft. in length, 30 ft. in beam and up to 10 ft. in draft can be accommodated here. The Yard has 3,000 workmen and its clerical and supervisory staff consists of 350 members.

The Company has an authorised capital of Rs. 2 crores and a paid up capital of Rs. 63 lakhs.

Various new projects are under construction and plans are under way to make additional facilities available for merchant ships. The Yard plans to expand its building capacity to the extent of constructing medium size ships of 3,000 to 4,000 tons.

Managing Director: Capt. C. L. Bhandari.

NEYVELI LIGNITE CORPORATION LTD.

(Ministry of Steel, Mines and Fuel, Government of India.)

Preliminary investigations of the extensive lignite deposits which occur at Neyveli in the South Arcot District of Madras were undertaken first by the Madras Government and then by the Central Government from January 1, 1955, in consultation with Messrs. Powell Duffryn Technical Services Limited, a U.K. firm of technical consultants, whose services were made available to the Government of India under the Colombo Plan.

These preliminary investigations, including large-scale pumping tests, having proved the feasibility of economic mining and utilisation of the Neyveli lignite, Government accepted, in principle, the execution of the Integrated Lignite Project and sanctioned the mining part of the Project. The cost of the mining scheme is estimated at Rs. 20·32 crores.

The Integrated Project envisages the mining of 3·5 million tons of lignite per annum to be utilised for:

(*a*) production of 250,000 kW of power in a thermal power station using lignite as fuel;

(*b*) production of fertilizers with a nitrogen content of 70,000 tons per annum, in the form of urea; and

(*c*) manufacture of 714,000 tons of raw lignite briquettes per annum to be processed in a low temperature carbonising plant to yield 380,000 tons of carbonised briquettes per annum for use as domestic and industrial fuel, 43,000 tons of char dust, 6,400 tons of motor spirit, 51,300 tons of tar and 1,032 tons of phenol.

A detailed mine plan involving an estimated expenditure of Rs. 20·32 crores for the development and production phases of the mine submitted by the technical consultants was sanctioned by the Government. The scheme was inaugurated by the Prime Minister on May 20, 1957. Messrs. P.D.T.S. Ltd. were appointed consultants for the Mining Scheme. Orders for Rs. 5·5 crores worth of conventional and specialised machinery required for removing the overburden and developing the mine for full production have been placed.

All the conventional equipment have already arrived at site and a major number of items of specialised mining machinery have been received at the site and commissioned. The estimated cost of production of lignite has been worked out at about Rs. 10 per ton which compares favourably with the price at which coal is available in South India. In accordance with the time schedule for the mining project, the mine has begun production. In the initial stages annual production is estimated at 3·5 million tons. In the next few years this will be raised to 4·5 million tons. The ultimate target is 6·5 million tons per year.

The total quantity of overburden removed till the end of Oct. 1960 was 14·85 million cubic yards against a total of 27 million cubic yards to be removed before touching lignite.

The Central Water and Power Commission have drawn up the Project Report for the 250 MW. thermal station, the most important constituent scheme in the Integrated Lignite Project. The Thermal Station Scheme is one of the schemes financed from the credit offered by the U.S.S.R. in respect of which an agreement was signed in Delhi in 1957. The estimated cost of the scheme is Rs. 21·72 crores. The first unit of the Thermal Power Station is expected to be commissioned towards the end of 1961.

The Project Report for the Fertilizer Unit has also been drawn up. The total capital cost of the scheme has been estimated at Rs. 26·10 crores Full production is likely to start in March 1963.

Tests conducted on bulk samples of Neyveli lignite in West German laboratories have established that the lignite is of a high quality, capable of yielding satisfactory briquettes, both raw and carbonised on a commercial scale. Further tests on a pilot plant scale were conducted at Neyveli with the help of pilot plant equipment, received under the T.C.M. aid, for determining the optimum conditions under which the lignite should be briquetted and carbonised. Based on the results of the tests, a Project Report was prepared. Proposals have been forwarded to the Government of India for sanctioning the establishment of a Briquetting and Carbonisation Plant at an estimated cost of about Rs. 19 crores and their approval is awaited. The Plant will be commissioned in 1963.

Clay Washing Scheme: China clay of very good quality occur near the lignite seam. A scheme for the establishment of a Clay Washing Plant on a modest scale has also been drawn up. It is expected that the plant will be put into commission by about the end of 1961. The estimated cost of this scheme is about Rs. 14·30 lakhs.

A new township consisting of 31 blocks with all modern amenities like parks, schools, shops, hospital, co-operative stores, etc., has been planned, to accommodate offices, factories, staff and workers of the different units of the Integrated Project. It is to be constructed according to a phased programme. Construction work has already started and more than 2,000 houses have already been constructed. Further work is in progress.

Pending construction and development of the new township, a minimum number of temporary buildings have been constructed in the area south of the railway line, to meet the requirements of office and residential accommodation and to provide amenities on a modest scale.

As the mining gains momentum, the labour force of Project will go up. Two full time labour welfare officers have been appointed to look after the interests of the workers. There is also an Assistant Personnel Officer to look after the amenities of the workers. An Information Officer has also been appointed.

The Corporation has opened a high school, a middle school and an elementary school for the benefit of the children of its employees. There are a dispensary and maternity centre at Neyveli. A large hospital with all modern equiment is under construction.

The ownership, management and administration of the Neyveli lignite project has been entrusted to a Government of India-owned private limited company, Neyveli Lignite Corporation Ltd., which started functioning on 6th December 1956 and has its registered office at Neyveli 1, South Arcot District.

Chairman, Board of Directors, and Managing Director, T. M. S. Mani, I.C.S.

MACHINE-TOOL PROTOTYPE FACTORY, AMBERNATH

The Machine-tool Prototype Factory at Ambernath near Bombay was set up in 1953 by the Ministry of Defence, Government of India, under the Director-General, Ordnance Factories, in collaboration with a Swiss Firm. It was a pioneer project to design and develop ordnance weapons as well as machine tools.

Since its inception the factory has established production of several types of precision machine tools of its own design, and supplied these to various Government establishments and industry.

To overcome the shortage of skilled artisans necessary for the production of armaments, a Training School has been attached to M.T.P.F. since its inception. The school helps to meet the requirements of other ordnance factories also.

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NAHAN FOUNDRY LTD.

(Nahan, Sirmur District, Himachal Pradesh).

This was started in 1875 and has been continuously expanded.

The authorised capital is Rs. one crore and the paid-up capital Rs. 40 lakhs. The number of persons employed is about 500 at Nahan and about 150 in the agencies.

Production consists of improved type of cane crushers, bullock and power driven; centrifugal pumps in different sizes; paddy-thrashers; ploughs; corn-sheller machines (a new patented machine for separating maize corn from their cobs); chaff-cutters of different types; boiling pans; flour mills, power and bullock driven; and miscellaneous items. The foundry undertakes quality casting work for P.&T., D.G.S. & D., Public Health and Railways. A scheme to manufacture electric motors up to 20 H.P. was being implemented (November 1959). Initially it would manufacture 1,200 motors of various sizes. This will later increase to 3,600.

Production during 1959–60 was 3,067 tons. The value of total production for 1959–60 is Rs. 22·05 lakhs as against Rs. 19·61 lakhs in 1958–59.

The company made a net profit of Rs. 3,50,000 during 1959–60 and a net profit of Rs. 1,03,000 in 1958–59.

It is managed as a private limited company (which took over on Jan. 1, 1953) with the President and his nominees holding all the shares. The affairs are looked after by a Board of Directors appointed by the President of India and is under the administrative control of the Ministry of Commerce and Industry. It is a pioneer industry in northern India for the manufacture of cane crushers and "Sultan" is a speciality all over India.

General Manager, C. S. Shukla.

NANGAL FERTILIZER—HEAVY WATER PROJECT

Naya Nangal, Punjab.
(Ministry of Commerce and Industry, Government of India).

The factory which is located at Nangal on the right (western) bank of Sutlej, will produce nitro lime stone fertiliser with an annual capacity of about 3,90,000 tons. It will also produce about 14 tons of heavy water for the use of the Department of Atomic Energy. The factory which was expected to go into production in the first quarter of 1961 is estimated ultimately to cost about Rs. 30 crores. It is estimated to go into full production of 1,200 tons of fertilizer per day by the end of 1961.

The Nangal Fertilizer—Heavy Water Project will be the first factory in India to produce calcium Ammonium Nitrate, a fertilizer with high percentage of nitrogen content.

The control and management of the Project were formally transferred to Messrs. Nangal Fertilisers and Chemicals (Private) Limited, a company entirely owned by the Government of India, on April 20, 1956. From the 1st of January 1961, this Company has been amalgamated with the Sindri Fertilizers & Chemicals Ltd., to form the Fertilizer Corporation of India Ltd.

Total expenditure on the project as on Oct. 1' 1960 amounted to Rs. 19·06 crores. The amount of deferred foreign exchange payments outstanding as per various contracts with the foreign suppliers was Rs. 11·79 crores as on Oct. 1, 1960.

Contracts on deferred payment terms were awarded for :—

(*i*) supply of electrolysers and supervision of their erection to Messrs. De Nora of Milano, Italy on 31st March 1957 at a cost of Rs. 3·60 crores;

(*ii*) supply of accessories and auxiliaries of electrolysis plant to Messrs. De Nora of Milano, Italy, on 8th Sept. 1960 to a cost of Rs. 57 lakhs;

(*iii*) supply, erection and commissioning of the Fertilizer Group of Plants as a turn-key job to Messrs. Saint Gobain of Paris, France on the 10th October, 1957 at a cost of Rs. 850 lakhs;

(*iv*) supply and supervision of erection of electrical equipment to Messrs. English Electric Company of U.K. on the 23rd Dec. 1957 at a cost of Rs. 233·79 lakhs;

(*v*) supply of spares of electrial equipment to Messrs. English Electric Company on 18th Oct. 1958 at a cost of Rs. 4·85 lakhs; and

(*vi*) supply, erection and commissioning of Heavy Water Plant on 26th Nov. 1958 to Messrs. Line of West Germany at a cost of Rs. 115 lakhs.

Most of the plants of the fertilizer part of the factory are under commissioning and this part of the factory is expected to go into production shortly.

The construction of Heavy Water plant building was started in the middle of January 1960. This plant is expected to be commissioned before the end of 1961.

Construction of 2,200 residential units and a number of public utility buildings has been completed (Jan. 1961).

NATIONAL INSTRUMENTS LTD.

(15, Wood Street, Calcutta 16 and Raja Subodh Mullick Road, Jadavpur, Calcutta 32).

Total investment Rs. 1·35 crores. Value of production and repair for 1959–60 Rs. 53·69 lakhs. Number of persons employed 1,140.

This is a Government owned Company under the Ministry of Commerce and Industry, manufacturing and repairing scientific and mathematical instruments in India.

It manufactures prismatic compasses, theodolites, levels and other survey instruments, prismatic binoculars, telescopes, thermometers and hydrometers of various types, excise apparatus, barometers and other meteorological instruments, profile projectors, students' microscopes, pantagraph, pressure and vacuum gauges, demonstration eyepieces, sextant, drafting machines and other drawing office equipment and also repairs all types of scientific and aircraft instruments.

The factory has started planned production. The following expansion schemes are in hand: (*i*) An agreement has been entered into for the manufacture of micro-optic theodolites, with Messrs. Metrimpex Hungarian Trading Co. for Instruments, Budapest. The production of these theodolites is under way for which two technical officers had been sent to Hungary for technical know-how in the matter. (*ii*) Agreement has also been concluded for the manufacture of clinical thermometers with Messrs. Tokyo Shibaura Electric Co., Tokyo. A technician of this factory is now in Japan to learn the method of mass manufacture. The production programme in this respect is envisaged as under: 1960–61, 28 thousand numbers; 1961–62, 3 lakh numbers; 1962–63, 6 lakh numbers; and onwards. (*iii*) A technical collaboration agreement with Messrs. Nippon Kogaku of Tokyo has recently been entered into for establishing manufacture of cameras. It is proposed to manufacture 1,000 cameras in 1961-62, 6,000 in 1962-63 and 12,000 in 1963-64.

For the time being, it is proposed to commence manufacture of Nikkorex, the latest model which Messrs. Nippon Kogaku are making in medium-priced cameras. The factory is expected to reach an optimum production of 1,000 cameras per month within a period of two to three years. The agreement with the Japanese firm will be current initially for a period of 10 years.

Practical training facilities have been provided to the various categories of trainees.

During 1958–59 the factory earned a net profit of Rs. 2·48 lakhs. For 1959–60 the surplus expected is about Rs. 8·63 lakhs.

The development plans of this factory are so planned that this factory may serve as a nucleus in future for the manufacture of instruments, precision and scientific, which are at present imported.

Managing Director, N. Majumder, B.Sc. (Cal.), M.Sc. (Tech.) (Manch.), A.M.C.T. (Manch.).

Works Manager, L. M. De, B.Sc. (Eng.), A.M.I.E. Prod., E.A.M.I.E.

Secretary, S. Natarajan, B.A.

FERTILIZER CORPORATION OF INDIA LTD. (SINDRI UNIT).

(Sindri, Bihar)

This is a State-owned and State-managed private limited company under the Ministry of Commerce and Industry, Government of India, in which all the shares are held by the Government of India. The Company was registered on December 18, 1951.

Authorized share capital—Rs. 30 crores; paid-up—Rs. 17 crores.

The factory went into production on 31st October 1951; gas plant started 13th April 1951; production of anhydrous ammonia started 28th August 1951; marshalling yards completed 30th August 1951; bagging plant commissioned 4th February 1952; first bags of ammonium sulphate went out of the factory 7th February 1952.

The gross profits for the year 1959–60 amounted to Rs. 3,08,40,543. After providing Rs. 2,57,33,624 for depreciation and utilising Rs. 25,54,133 for paying interest on loan from the Government of India and adding (1) Rs. 15,57,238 the amount brought forward from last year's account (2) and Rs. 1,21,29,639 by transfer from General Reserve, the balance available was Rs. 1,62,39,663. Out of this, an amount of Rs. 92,00,000 has been provided as development rebate reserve and Rs. 68,00,000 as dividend to shareholders. This leaves Rs. 2,39,663 to be carried over to the account for 1960–61.

The total production of ammonium sulphate during 1959–60 was 285,248 tons; double salt 22,522 tons; urea 4,732 tons; coke 224,232 tons.

The fertilizer despatches to the various States during 1959–60 were : ammonium sulphate 274,725 tons; double salt 5,749 tons, urea 3,206 tons.

The factory consists of coke oven, gas, ammonia, sulphate, gas reformation, double salt and bagging plants; marshalling yards and about 12 mile railway track; 80,000 KW power house. Utilizes about 1,800 tons of coal, 1,900 tons of gypsum and 15 million gallons of water per day supplied from the nearby Damodar river. A barrage, constructed over the Gowai, a tributary of the Damodar, has impounded about 1,000 million gallons of water as a standby.

The Coke Oven Plant built at a cost of Rs. 2·81 crores and designed to produce 600 tons of coke per day and other important by-products of industrial importance, went into production on September 1, 1954.

Sindri's Rs. 13 crore expansion scheme for the production of 70 tons of urea and 400 tons of double salt (ammonium sulphate-nitrate) per day, has been completed.

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An incentive award at the rate of Rs. 17·70 per ton on 90,122 tons which was in excess of the basic figure 240,000 tons of Ammonium sulphate produced, was sanctioned for the staff who had service of one year and more on 31st December 1959 and drawing upto Rs. 500 basic pay.

Sindri has developed into an important training centre for young engineers and technicians and has trained personnel for Hindustan Steel Ltd., Neyveli Lignite Corporation Ltd., Hindustan Chemicals & Fertilizers Ltd., etc.

During 1959–60, there were 52 graduate apprentices and 68 trade apprentices under training, besides the following apprentices, *viz.*, chargeman trainees from Neyveli 41, operator trainees from Neyveli 49, trainees from Hindustan Steel 30.

The present retention price is Rs. 295·26 per metric ton for ammonium sulphate; Rs. 350 per metric ton for double salt and Rs. 620 per metric ton for urea.

Board of Directors :

Chairman, K. R. Damle, I.C.S.

Members, Satyendra Narayan Sinha; P. A. Narielwala; Brish Bhan; Shiva Chandika; P. N. Thapar, I.C.S.; B. C. Mukharji, I.C.S.; K. B. Lall, I.C.S.; K. L. Ghei; B. N. Sinha, Dr. Husain Zaheer; H. N. Sethna; M. R. Chopra.

Mg. Director, K. Ramachandran.

THORIUM PLANT

(Trombay, Bombay 38)

This plant built at Trombay with the object of processing the thoruim concentrates from the Rare Earths Plant at Alwaye, went into production in September 1955. The monazite sands occurring on Kerala Coast and on the south-west coast of Madras State constitute the main source of thorium in India. The coastal deposits are estimated to contain over 2,00,000 tons of this nuclear metal. Indian monazite has a thorium content of 8 to 9 per cent the highest in the world.

It is one of the largest thorium nitrate producing plants in the world. Beside supplying virtually the entire requirements of the gas mantle industry in India and the East Asian countries, it also supplies markets in Europe and America.

Preliminary work on the preparation of nuclear grade thorium compounds has been completed and the plant now produces nuclear grade thorium oxide for the Canada–India Reactor.

The Government's decision to locate the first nuclear power station on the west coast at Tarapur in Maharashtra State was announced by the Prime Minister in Aug. 1960. The work on the main project is expected to commence early in 1962.

(See also under 'Research.')

STATE-OWNED OR STATE-AIDED

GOVERNMENT CEMENT FACTORY

Churk, Mirzapur, U.P.

The Government Cement Factory was established at Churk in Mirzapur District at an initial cost of Rs. 4·5 crores. The factory went into production in September 1954. Its installed capacity is 700 tons per day. The factory employs over 2,000 persons.

Till November 1960 the cement production in the factory was 12,80,461 tons since its inception.

The expansion programme, costing Rs. 275 lakhs, has made considerable headway. But owing to shortage of steel and delay in the supply of machinery the new unit is now scheduled to go into production about Sept. 1961. With the completion of the expansion programmes the factory will start producing 1,400 tons of cement per day.

A pilot refractory bricks plant has been established in the factory with an initial capacity of 100 tons per month which will be increased to 36,000 tons annually during the Third Plan period.

GOVERNMENT PRECISION INSTRUMENTS FACTORY

Lucknow, U.P.

The factory was established in 1950 at Lucknow at a cost of Rs. 32·63 lakhs for the manufacture of water meters, microscopes and other precision instruments and went into production in 1952, when the turnover was nearly 300 water meters per month. The production of water meters and microscopes has now increased to 3,000 and 25 per month respectively. Till Dec. 1960, a total of 1,83,885 water meters, 1,418 microscopes and 245 stethescopes had been manufactured and total sales of these items accounted for 1,81,653, 1,164 and 162 pieces respectively. The production of stethescopes has been temporarily slackened to cope with heavy demand for water meters.

The factory has reached its licensed production capacity. A big expansion in its production has been envisaged during the 3rd Five Year Plan. The factory will soon embark upon the manufacture of pressure gauges, wall-clocks, time-pieces, movie cameras, etc.

The factory earned a net profit of Rs. 5,27,621 in 1959–60 as against Rs. 2,50,926 in 1958–59.

KOLAR GOLD MINING UNDERTAKINGS

Kolar Gold Fields, Mysore State.

Established: 1880. Formerly a British company, the mines were nationalised by the Government of Mysore in 1956. The three mines working at present are: the Mysore Mine, the Champion Reef Mine and Nandydroog Mine.

Capital Investment: Rs. 180·29 lakhs. No. of workmen: about 25,000.

The gold production during the year 1959–60 was 47·72 lakh gms. valued at Rs. 5·09 crores. The production of silver was 3·37 lakh gms. valued at Rs. 60,000.

The annual extraction of gold from the three mines is 156,388 ounces. The State Govt. had obtained a net profit of Rs. 27·49 lakhs during the period from 29th Nov. 1956 to 31st March 1960.

Management: The management of the Undertakings is vested in the Board of Management constituted by the State Government, of which the Chairman is the Chief Minister.

Details of taking over the undertakings by the Centre were being worked out (April 1961).

Managing Director: K. Narayana Swamy, I.A.S.; *Consulting Engineers:* John Taylor & Sons.

THE MYSORE IRON AND STEEL WORKS

(Bhadravathi, Shimoga Dist., Mysore State).

This Mysore State Government project for the establishment of the industry was worked out during the years 1914-18, and the basic industrial enterprise started operations in 1923.

The present total investment is Rs. 7·86 crores.

The works produce pig iron, cast iron pipes, plate sleepers, general foundry castings, merchant steel sections, steel castings, portland cement, ferro-alloys, and acetic acid. The turnover amounts to over Rs. four crores per annum.

The manufacture of pig iron by electric process is a noteworthy feature.

The annual production of pig iron is 85,000 tons; of cement about 82,000 tons; of ferro-silicon 6,700 tons; of steel about 45,000 tons.

The production in the General Foundry is about 10,000 tons of C. I. Pipes, 1,200 tons of general castings and 10,000 tons of plate sleepers a year.

The annual output of the Rolling Mill is about 30,000 tons of mild steel sections.

The Rod and Strip Mills produce 35 to 40 tons of rods or 25 to 30 tons of strips per day.

The Electric Steel Furnace produces annually about 4,500 tons of ingots and 650 tons of rough castings of which 200 tons are machined castings.

The output of the Structural Shop is about 200 tons a month or about 2,000 tons per annum.

As part of the expansion scheme a Cast Iron Spun Pipe Plant for manufacture of pipes from 3" to 12" diameter (17,000 tons per annum) has been installed and has gone into production.

Production of ferro-manganese in 2 Fuedle Furnaces with a capacity of 1,500 tons per year commenced during 1956–57.

The works have their plans for the Second Five-Year Plan period, to increase the steel ingot capacity from 30,000 tons to 1,00,000 tons and ferro-silicon production from 5,000 tons to 20,000 tons per annum. Orders for Ferro-Silicon Plant and equipment were placed in March 1959 and the plant is expected to come into operation during 1961–62. Schemes for the manufacture of tool and alloy steel, stainless steel sheet and silicon steel are under consideration.

The rolling capacity is to be increased from 25,000 tons to 85,000 tons.

The whole expansion scheme would cost Rs. 650 lakhs.

The labour employed: monthly rated about 1,800 and daily rated about 6,500.

A proposal to convert the works into an autonomous corporation is under consideration.

Director and Vice-Chairman, M. D. Shivananjappa, I.A.S.

General Manager: T. Krishnappa, M.Sc. (Met.).

Addl. General Manager: B. Seshadri Sharma, B.E.

THE NATIONAL NEWSPRINT AND PAPER MILLS LIMITED

(Nepanagar, Nimar Dist., Madhya Pradesh).

The mills are situated on the main Bombay-Itarsi-Delhi line about 27 miles from Khandwa and 17 miles from Burhanpur.

The Company is a limited concern with about 16,500 shareholders. Of the shares 51 per cent are held by the Union Government and 34 per cent by the Madhya Pradesh Government. The balance shares are held by shareholders from the public.

The construction of the mill started in 1948, and the installation of the Paper Machine and Ground Wood Mill was completed by January 1955. The mill had a trial run on 11th January 1955 for the first time manufacturing newsprint from indigenous groundwood pulp and imported chemical pulp.

The Chemical Plant was put into commission and newsprint manufactured from cent per cent indigenous raw materials on 29th December 1955.

The rated capacity of the plant is 100 tons per day. Present production is 80 to 85 tons a day. Production is being gradually stepped up with a view to reaching the target production.

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The production during 1959-60 was 22,411 tons.

The total revenue from sales during 1959-60 was Rs. 235 lakhs.

The Project has cost about six crores of rupees.

Total loss upto March 31, 1959: Rs. 136·2 lakhs. But the net profit during the year 1959-60 was Rs. 37·7 lakhs. Thus the actual loss as on March 31, 1960 is Rs. 98·5 lakhs. It is proposed to increase the production capacity to 73,000 annually during the Third Plan.

There are 1,150 workers working on monthly wages.

There are 13 members on the Board of Directors including the Chairman and the Managing Director. The Chairman and the Managing Director are appointed by the Union Government with the concurrence of the Madhya Pradesh Government. Four directors are nominated by the Union Government, four nominated by the Madhya Pradesh Government, one director jointly by the Union and the M.P. Governments and two directors representing the shareholders.

Chairman, Board of Directors, Sir A. Ramaswami Mudaliar.

Managing Director, S. L. Visvanadhan.

ANDHRA PRADESH

THE ANDHRA PRADESH INDUSTRIAL DEVELOPMENT CORPORATION (PRIVATE) LIMITED

The Andhra Pradesh Industrial Development Corporation (Private) Limited, a Government Corporation, has been registered.

The Corporation will have an authorised capital of Rs. 3 crores and paid-up share capital of Rs. 1 crore to start with.

The principal objects of this Company among others are:—(*a*) To promote, improve, establish and develop industries in the State of Andhra Pradesh; (*b*) To plan, formulate and execute projects for setting up industries or developing lines of production; (*c*) To engage in the processing and manufacture of metals, chemicals, engines, plants, machinery or any other commercial or industrial products, articles and commodities; (*d*) To engage in, establish, maintain and develop the generation, transmission and sale of electricity; (*e*) To establish, promote, develop, purchase, take on lease or in exchange under amalgamation, licence or concession, or otherwise acquire factories, industrial concerns, manufacturing concerns, mines beneficiation and mineral dressing, concentration and refining plants, chemical and other industrial plants, lands, buildings, workshops, power houses, plants and equipment, machinery, sidings, locos, works and any rights and privileges or interest therein and to explore, prospect, work, develop, administer, manage or control and to turn to account the same.

This Corporation is expected to start functioning shortly.

THE ANDHRA PAPER MILLS

(Rajahmundry).

The capital investmeet is Rs. 29 lakhs and production capacity is 10 tons a day. The Government have taken up a scheme to increase the present production capacity of the Mills from 10 to 60 tons of paper at a total capital cost of Rs. 513 lakhs (approximately). The production of the mills is now confined mostly to unbleached, kraft papers and it is proposed to produce white writing/printing papers and wrapping paper, after implementation of the expansion scheme. An agreement has also been entered into with Messrs. Empacel, Paris for the supply of plant and machineries under the French Credit on deferred payment terms.

Provision in the State Plan for 1960-61 for purchase of land, equipment and construction of buildings, etc. Rs. 70 lakhs. Provision during the Third Plan for the implementation of the expansion scheme for increasing the production capacity and for producing better quality of paper Rs. 400 lakhs.

THE GOVERNMENT CERAMIC FACTORY

(Gudur, Nellore Dist.).

The Government Ceramic Factory, Gudur, has been producing sanitaryware and crockeryware only, till 1959. A scheme for expansion of the Government Ceramic Factory, Gudur was included in the Second Five Year Plan at a total cost of Rs. 12·60 lakh, which was implemented by 1959. The production in the Government Ceramic Factory, Gudur has been doubled after its implementation. Production of electrical porcelain insulators has also been commenced as an additional line of production to meet the requirements of the Government Electricity Department and the public from 1960.

HYDERABAD TANNERIES LTD.

(Hyderabad).

The investment is Rs. 13 lakhs. The production is temporarily suspended. The issue of reorganisation is under active consideration for hitting the targeted production envisaged in the tannery.

NIZAM SUGAR FACTORY

The Nizam Sugar Factory is the largest single sugar producing unit in the country. 72 per cent of its capital is owned by the State Government. Its production was 51,200 tons in 1959-60. The factory's crushing capacity is being increased from 3,200 tons to 4,500 tons of cane per day.

The capacity of the Government Power Alcohol Factory, situated in the premises of the Nizam Sugar Factory, has been increased from 1,00,000 gallons to 1,90,000 gallons per month.

PRAGA TOOLS CORPORATION

(Hyderabad).

The authorised capital is Rs. 1·35 crores. The Union Government has agreed to invest another Rs. 75 lakhs to Rs. one crore for expanding the production which includes setting up of a modern foundry and a heavy forge shop.

It produces machine tools and accessories, precision tools, automobile parts, diesel parts, railway duplicates and accessories.

The present production is about Rs. 72 lakhs. The target for 1961-62 is Rs. 100 lakhs. The investment would be: Andhra: Rs. 47·57 lakhs; public: 18·35 lakhs; India Government: Rs. 70 lakhs.

THE SRI VENKATESWARA STRAWBOARD MILLS

(Tirupati).

This was originally a joint stock company which the State Government purchased in 1953. A scheme for starting this mill was included in the Second Plan at a total cost of Rs. 10·35 lakhs with a production capacity of 10 tons of straw board per day. While this scheme was under implementation, an offer was received from a private party for buying the mill and negotiations for its sale are in progress (Jan. 1961).

SINGARENI COLLIERIES

Coal is mined in the State by the Singareni Collieries Co. Ltd. from the coal fields at Kothagudium, Yellandu and Tandur. 88 per cent of the capital of the Company is owned by the State Government. The production of Singareni Collieries increased from 11·63 lakh tons in 1950 to 24·45 lakh tons in 1960. Under the Second Plan, it was proposed to increase the coal production to 27 lakh tons.

SYNTHETIC DRUG PROJECT

A site for the establishment of Synthetic Drugs Project at a capital investment of Rs. 8 to 10 crore under Central Sector in Sanathnagar, Hyderabad, has been finally selected by the Russian Experts. The required engineering geological data of this site and other data required by the Russian Experts have been furnished to them through the Government of India for the preparation of project report. The scheme was expected to be taken up early in 1961.

ASSAM

GOVERNMENT SHELLAC FACTORY

(Chaparmukh, Nowgong).

The factory was started in 1954 as a welfare measure for the Mikir tribesmen growing lac. The capital outlay is Rs. 2·5 lakhs. It handles 2,000 maunds of raw lac a year and provides work for 30 labourers with five on the establishment side. The target is 8,000 maunds a year.

BIHAR

BIHAR STATE SUPERPHOSPHATE FACTORY

(Sindri).

The factory went into production in April 1958.

Present capacity of production: Single superphosphate — 18,000 tons per annum.

Installed capacity of plants: (*i*) 200 tons superphosphate per day; (*ii*) 25 tons of 98 per per cent sulphuric acid per day.

Total investment: Rs. 65 lakhs.

No. of workers expected to be employed: About 150.

At present State-owned, but very shortly it will be a unit under the Bihar State Industrial Corporation which has been registered.

The factory is capable of producing 200 tons of superphosphate per day or about 70,000 tons per annum of 300 working days, provided an additional 50-ton per day capacity sulphuric acid plant is installed. There is provision for the establishment of an acid plant utilising pyrites in the Third Five Year Plan. Most of the superphosphate produced in the first stage will be consumed within Bihar, but supplies are also being made to neighbouring States.

The First Five-Year Plan had an allotment of Rs. 54·55 lakhs for the factory. The Third Five-Year Plan has allotted Rs. 50 lakhs for the expansion of the factory.

Works Manager, B. A. Sundara Moorthy, B.E., A.E.M.I. (Ind.).

JAMMU & KASHMIR

DRUG RESEARCH LABORATORY

(Canal Road, Jammu).

The Laboratory was started in 1943. Total investment in Rs. 18 lakhs. The number of persons employed is 170. The present production is valued at Rs. 7.5 lakhs and the Second Five-Year Plan target was Rs. 15 lakhs.

The sales effected during 1959-60 is to the tune of Rs. 7·1 lakhs.

DRUG RESEARCH LABORATORY

(Raj Bagh, Srinagar).

The Laboratory was started in 1956. Total investment is Rs. 10 lakhs and the number of persons employed is 100. The present production and the sales effected are valued at Rs. 3·79 lakhs and Rs. 1·60 lakhs respectively and the Second Five Year Plan target was Rs. 15 lakhs.

During 1960 the farms were separated from the factories. There are six farms in the State at present. The total number of persons employed in the farms is 553 and the present production is valued at Rs. 2·46 lakhs, the the sales effected being equal to the production.

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GOVERNMENT SILK WEAVING FACTORY
(Raj Bagh, Srinagar).

The factory was started in 1938–39 with 33 looms and 1,872 spindles. It is now equipped with 124 looms and an uptodate Throwing Plant of 5,616 spindles.

Total investment: Rs. 12·34 lakhs odd. The factory employs approximately 600 persons (520 labour and 80 establishment).

The present production is 4,50,000 yards per annum. The target for the Second Five-Year Plan was six to seven lakh yards.

GOVERNMENT WOOLLEN MILLS
(Srinagar, Kashmir).

The mill was started on 7th December 1950. The total investment is Rs. 26,81,965. The number of persons employed is over 500. The average monthly production on the basis of 1959–60 working is — cloth 18,117 yards and yarn 33,246 lbs. The Second Five-Year Plan target was 1 lakh lbs. of yarn per year.

KERALA

GOVERNMENT HYDROGENATION FACTORY

The work on the Factory was started in 1949 and completed in 1953. The factory is equipped with the most modern machinery. The production capacity of the plant is 10 tons of vanaspathi and 5 tons of refined oil per day in three shifts. Regular production of refined oil and vanaspathi started in March 1958. This is the only hydrogenation factory in India.

The capital investment as on 31st March 1960 was Rs. 24·83 lakhs and the annual turnover during 1959–60 was Rs. 27·47 lakhs.

GOVERNMENT OIL FACTORY
(Kozhikode).

The Government Oil Factory was established in 1940 with a view to meeting the growing demands of the Defence Forces in India for Vitamin 'A & D' products. Regular production was started in 1943. The factory now produces various vitamin products such as Seagold blended shark liver oil, Adamin liquid high potency Vitamin Oil, adamin capsules, Stayfit liquid, Stayfit capsules and Veterinary Vitamin oil such as Univaz and Trivax, etc. using up-to-date equipment and testing apparatus.

The capital investment as on 31st March 1960 was Rs. 6·80 lakhs and annual turnover Rs. 5·62 lakhs.

Net profit in 1958-59 amounted to Rs. 91,881.

KERALA GOVERNMENT CYCLE RIM FACTORY
Trivandrum 7.

The factory, located at Shankumugham in Trivandrum near the aerodrome, was formally opened in June 1959. The rated capacity of the factory is 1,000 cycle rims per day. Since the capacity of the electroplating plant initially installed is only half that of the rim making plant, the electroplating plant is being expanded to double its existing capacity.

The capital investment of the factory as on 31st March 1960 was Rs. 11·99 lakhs and the turnover from June 1, 1959 to March 31, 1960 was Rs. 75,883.

Actual production commenced only in October 1959. The production has been increased to 500 rims a day.

KERALA SOAP INSTITUTE
(Kozhikode).

Regular operation in this institute began in the year 1923. The institute manufactures several varieties of toilet soaps including the Kerala Sandalwood, Rose soaps etc. as also Wash-well and other varieties of bar soaps. The work of training of students in soap making is also undertaken.

The capital investment alone comes to Rs. 10,70,267.

The capacity of the factory is about 450 tons per annum. But it is now being increased to 600 to 700 tons. The Oil Technologist is in immediate charge of the Institute. The Director of Government Industries has an overall control. Agents have been appointed in almost all parts of India.

Turnover in 1959-60 was Rs. 12·76 lakhs and net profit Rs. 51,310.

KERALA GOVERNMENT CERAMICS
Kundara, Quilon.

Established in 1957 by the Kerala State Government as a State Owned industry for the production of superior porcelain crockery and electrical porcelain goods such as L.T. Insulators of all types with an electrical double tunnel kiln and other modern machinery. The latest type electric double tunnel kiln has been installed in the factory. Situated near Kundara Railway Station.

Capital investment as on 31st March 1960 was Rs. 50·04 lakhs. Annual turnover is about Rs. 6 lakhs. Number of labourers 200.

PALLATHRA BRICKS & TILES LTD.
College Road, Kottayam.

Authorised Capital: Rs. 1,00,00,000; Issued Capital Rs. 11,00,000; Date of commencement 21st February 1957.

The factory has been completed and erection of machinery is in progress.

The object of the Company is to produce and distribute sand lime bricks, a new architectural brick of high strength and finish. The designed capacity of the factory is 40,000 bricks per working day of 16 hours.

The total employment potential is 400 workmen.

Production was expected to commence in April 1961.

Provision for seven more units to be started in the following centres *viz.* Kozhikode, Cannanore, Trichur, Punnappra near Alleppey, Quilon, Kottayam (with laterite powder) in Kerala involving a total cost of Rs. 77 lakhs has already been made in the Third Five Year Plan of the State.

SRI KERALA VARMA AYURVEDIC CO-OPERATIVE PHARMACY & STORES LTD. NO. 4318.
Trichur.

The pharmacy and stores started functioning from March 1, 1959 on co-operative basis. They are the sole agents for the distribution of ayurvedic medicines to all the Government hospitals and dispensaries under the Department of Indigenous Medicine, Kerala State. The medicines are being supplied to the departmental institutions as well as to the public through the sales depots of this concern at Trivandrum, Alleppey, Kottayam, Trichur and Kozhikode.

Main products manufactured in the pharmacy are Ayurvedic Medicines, *viz.* Asavas, Arishtas, Thylams, Lahyams, Ghritams, Pills, Choornams, etc., etc.

The pharmacy now manufactures Kashaya Choornams on a very large scale.

SHARK LIVER OIL FACTORY
(Trivandrum 7).

This factory was started first as an annexe to the University Research Department in 1939 and was taken over by the Government in 1946. Regular production was started in 1950. The factory manufactures medical shark liver oil for human consumption as well as for veterinary use and also fish oil Rosin soap (insecticidal soaps). The capital investment of the factory as on March 31, 1960 was Rs. 2·27 lakhs and the turnover was Rs. 1·14 lakhs.

TRAVANCORE MINERALS LTD.
Head Office: Quilon, Kerala State.

Works: Chavara, Quilon Dt., Kerala State.

Manavalakurichi, Kanyakumari Dist., Madras State.

Date when started: January 1932—successors of Travancore Minerals Company, a private limited company incorporated in England; fully nationalised in June 1949. Pioneers in beach mineral dressing.

Total investments: Rs. one crore.

At present owned by the Central Government and the State Governments of Kerala and Madras in the ratio of 50 per cent, 45 per cent and 5 per cent respectively.

The Company owns three plants, two at Chavara near Quilon in Kerala State, and one at Manavalakurichi in Kanyakumari District of Madras State.

Production: 1,50,000 tons of ilmenite, 1,000 tons of rutile, 1,500 tons of monazite and other minerals.

The Board consists of a Chairman nominated by the Central Government, three Directors nominated by the Central Government, two Directors nominated by Kerala State Government and one Director nominated by the Madras Government.

The concern is administered by a Chief Administrative Officer appointed by the Board.

With the increased demand for rutile and zircon within the country and outside, efforts are being made to step up production at economic cost.

Net profit for the year ended March 31, 1960: Rs. 16,43,206·96. Foreign exchange earned during 1959–60: Rs. 104·10 lakhs.

TRAVANCORE PLYWOOD INDUSTRIES

This is a factory started as a Public Company with Government support. Finally in 1947, Government bought all the shares of the company and became sole proprietor. The capital investment in buildings and machinery, etc. upto 1960 was about Rs. 14·34 lakhs. The factory now mainly produces commercial and tea chest plywood panels. The installed capacity of the machinery for the production of plywood is 3 million s.ft. of 4 m.m. plywood in single shift per year. It is also licensed to produce half a million sq. ft. of commercial plywood per annum. Besides, 50,000 sets of battens are also being produced annually. The soft wood logs required for the manufacture of plywood are being delivered to the factory by the Forest Department. The plywood panels now produced in the factory find ready sales.

Annual turnover is about Rs. 7·5 lakhs and the capital investment as on 31st March 1960 was Rs. 14·33 lakhs. Net profit during 1958–59 amounted to Rs. 1·22 lakhs. The factory employs 122 daily rated workers and about 45 staff members.

TRAVANCORE RUBBER WORKS
(Chackai, Trivandrum 7).

The factory was started on 17th August 1935 as Travancore Govt. Rubber Factory (later leased to the Travancore Cables & Rubbers Ltd. The concern was finally taken over by the Govt. of Travancore-Cochin on 9-10-1949.

The capital investment by the Government as on 31st March 1960 was Rs. 18·52 lakhs and the profit made during the year ended 31st March 1960 was just over two lakhs. The annual turnover during 1959–60 was Rs. 24·23 lakhs. The factory consumes about half to three quarter ton of raw rubber per day and the production capacity is about three tons of goods worth Rs. 10,000 per day.

The factory employs about 324 persons: Staff 56 including officers and peons. Watchmen 10. Workers 258.

The production capacity of the factory is 25,00,000 lbs. per year.

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The main products manufactured in the factory are cycle tyres and tubes, sheeting pure single and double insertion and mottled, hoses armoured, suction, plain, radiator, bent, etc. of different specifications, tubings, valve tubes, rings, bushes, ebonite, rods, sheets, etc., latex sponge and latex foam cushions and mattresses.

Under the Second Five-Year Plan there were two schemes: 1. A cycle rim plant which has been completed and is now on production as a separate unit. 2. A scheme of modernisation of the present equipment and expansion of production programme of cycle tyres, tubes, sheetings, hoses, latex goods, moulded goods, etc., has also been taken up. Increased output of up-to-date finished goods and increased profits are expected by the mechanisation and modernisation.

MYSORE

THE GOVERNMENT CENTRAL INDUSTRIAL WORKSHOP

(Mysore Road, Bangalore 18.)
Established : 1897.

Capital invested as on March 31, 1960: Rs. 23,65,875 (including additional capital under expansion scheme).

No. of persons employed : 210.

Annual outturn : Rs. 3·4 lakhs.

The workshop was shifted to its new premises at Mysore Road after inauguration by the Chief Minister on June 27, 1959. The expansion scheme including the construction of buildings and purchase of machinery has been implemented at a cost of Rs. 13·6 lakhs. The workshop is engaged in general engineering works such as manufacture of trusses, pistons, meter boxes, storage tank, etc. The proposal for amalgamating the mechanical section of the Govt. Electric Factory with the new workshop was under consideration.

GOVERNMENT ELECTRIC FACTORY

(Mysore Road, Bangalore).
Established : 1939.

Capital invested : 79,05,517.

No. of persons employed : 984.

Annual outturn : Rs. 56·83 lakhs.

A scheme is under way to expand the factory under a licence granted by the Central Government at an estimated cost of Rs. 140 lakhs. An agreement for technical collaboration of the factory with a famous engineering firm, Messrs. A. E. G., Germany, was concluded in Nov. 1959. The expansion scheme envisages (1) production of transformers of capacities up to 10,000 KVA and of voltage rating up to 66,000 volts, recording an annual output of 200,000 KVA, (2) restarting of the manufacture of electric motors with a capacity up to 250 hp and the ultimate annual output of 60,000 hp and (3) manufacture of switch-gear like the iron clad switches, a variety of fuse cartridges, group operated isolators, oil circuit breakers, etc. with an aggregate value of Rs. 40 lakhs annually. A party of three A.E.G. specialists arrived towards the end of March 1960 for preparing detailed specifications of the plant and machinery. The Director of G.E.F. is now in Germany for finalising the expansion plans and estimates.

The ultimate turnover of the expanded factory will be Rs. 2 crores annually on single shift basis.

GOVERNMENT PORCELAIN FACTORY

(Malleswaram, Bangalore).
Established : 1932.

Capital invested : Rs. 1,09,29,618.

No. of persons employed : 1,168.

Annual outturn : Rs. 22,92,497.

The Government Porcelain Factory is the only State-owned industry of the type in India. In order to meet the growing demand for insulators, bushings, etc., an expansion scheme estimated to cost about Rs. 84 lakhs has been implemented with the technical collaboration of Messrs. Nippon Gaishi Kaisha Ltd., Nagoya, Japan. This scheme envisages an output of 2,500 tons of insulators etc., per annum. The scheme which was taken up in the First Five Year Plan, has been completed with building construction, erection of machinery etc., during the Second Five Year Plan and production operations were started from Feb. 23, 1957. The production during 1958–59 was 1,646 tons of H.T. and L.T. insulators including bushings and crockery and during 1959–60 the production was 2,128 tons.

GOVERNMENT SANDALWOOD OIL FACTORIES

(Mysore South & Shimoga Town).

Established : Mysore 1916 and Shimoga 1944.

Capital : Rs. 28,12,000.

Number of persons employed : 284.

1959–60 outturn : 1,91,170 lbs. of sandalwood oil valued at Rs. 1,01,29,253.

A programme of replacing the existing equipment in the Mysore factory has been completed and the expansion of the Shimoga factory is under way at an estimated cost of Rs. 1·85 lakhs for providing additional buildings and machinery. The scheme expects to cope with production to meet regular demands of sandalwood oil.

GOVERNMENT SOAP FACTORY

(Rajajinagar, Bangalore).
Established : 1918.

Capital invested : Rs. 31·63 lakhs.

No. of persons employed : 250.

Annual outturn : Rs. 50·62 lakhs.

The factory was shifted to its new premises at Rajajinagar, one of Bangalore's industrial suburbs and started functioning from July 1, 1957. It produces 1,000 tons of soap per annum. A glycerine recovery and rectification plant was erected in the new premises and was expected to go into production in one or two months (Dec. 1960). This will have an annual output of 75 tons of chemically pure glycerine.

MYSORE GOVERNMENT SILK WEAVING FACTORY

(Mysore).

Established : 1932.

Capital invested : Rs. 11·19 lakhs.

Number of persons employed : 186.

Annual outturn : Rs. 12,54,284.

This factory is engaged in the manufacture of high quality silk fabrics like georgettes, crepe-de-chine, satins, etc. The Mysore pure silk sarees are famous all over India.

MYSORE IMPLEMENTS FACTORY

(Hassan).
Established : 1939.

Capital invested : Rs. 21,20,571.

No. of persons employed : 248.

Annual outturn : Rs. 13·00 lakhs.

A scheme for mechanisation and development of the factory at an estimated cost of Rs. 14 lakhs is under progress. It was to be completed before the end of the Second Plan period and will step up production to Rs. 15 lakhs per annum of improved quality articles of tools, garden and agricultural implements, domestic articles, cutlery and light steel structure, etc., to meet the common man's purse. Nearly Rs. 12·75 lakhs had been spent on the mechanisation upto 31-3-1960 towards the purchase and erection of machinery and building construction.

FOREIGN INVESTMENTS IN INDIA : 1958 AND 1959

FOREIGN business investments consist of (*a*) the net foreign liabilities of branches of foreign-incorporated companies functioning in India, (*b*) foreign-held shares including proportionate free reserves and foreign-held debentures of rupee companies and (*c*) long-term loans obtained by these enterprises from official institutions abroad.

This article surveys the trends of foreign investments in India from a more limited angle *i.e.* long-term foreign capital in the private sector. Because of their predominantly short-term nature, capital movements in the banking official sectors are briefly described to provide a wider perspective.

The data presented in the article are based on the usual source material, namely official records and returns furnished by Indian and foreign companies operating in India. Detailed information on investments in the private sector are available only for 1958.

India's overall investment position from 1955-1959 are given below.

The figures are as at the end of the year.

(Rs. crores)

	Liabilities				Assets				Net position			
	1955	1957	1958	1959	1955	1957	1958	1959	1955	1957	1958	1959
Private (Non-Banking)* ..	4,56	5,42	5,71	5,93	—	—	—	—	−4,56	−5,42	−5,71	−5,93†
Banking	57	48	52	59	55	62	54	56	− 2	− 14	2	− 3
Official	2,01	4,63	6,68	9,26	11,71	7,26	5,92	6,45	9,70	2,63	− 76	− 281
TOTAL	7,14	10,53	12,91	15,78	12,26	7,88	6,46	7,01	5,12	2,65	−6,45	−8,77

* Figures are revisions of those given in the June 1959 Bulletin. † A tentative estimate.

Note : For the private non-banking sector no estimates are made for foreign liabilities other than business investments; nor has it been possible to indicate the level of foreign assets.

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SUMMARY

Net private foreign investment in India during 1958 showed a decline as compared to that in 1957. But this was chiefly due to a large outflow of petroleum capital, which element was not present in the earlier years. Trends in 1959, however, point to a marked recovery in the investments. For the period 1956-59, as a whole, foreign investment in the private sector would be of the order of Rs. 135 crores of which I.B.R.D. capital might amount to Rs. 80 crores.

The banking system which showed a net creditor position during 1957 and 1958, swung back to a debtor position in 1959. Accumulation of fresh indebtedness abroad by the official sector led to a further downward shift in the country's debtor position from Rs. 76 crores at the end of 1958 to Rs. 281 crores at the end of 1959.

Foreign investments in the private sector in India traditionally consist of investments by foreign private agencies; however, in recent years a significant part of such investments is accounted for by borrowings of private companies in India from the World Bank (IBRD). The table below gives comparable data.

(Rs. crores)

	1956	1957	1958
A. Inflow of private foreign capital (net) ..	24·7	16·8	1·7
(*i*) Retained earnings	19·4	9·6	9·8
(*ii*) Cash inflow	3·1	4·9	4·8
(*iii*) Non-cash inflow	8·5	11·4	11·5
(*iv*) Total (*i* + *ii* + *iii*)	31·0	25·9	26·1
B. IBRD Capital	— 6·3	— 9·1	— 24·4
	12·1	32·1	25·3
C. Gross inflow into the private sector ..	43·1	57·9	51·4
D. Net inflow into the private sector	36·8	48·8	27·0

Note: (1) Figures exclude foreign investment in the banking system. (2) The inflow has been computed wherever possible by eliminating valuation changes. (3) Totals may not add up because of rounding.

POSITION IN 1958

The book value of the outstanding investments as at the end of 1958 aggregated Rs. 570·6 crores. These figures include IBRD loans obtained during each of these periods.

The gross inflow of private investments at Rs. 26·1 crores in 1958 showed virtually no change as compared to 1957, regardless of whether retained earnings are included or excluded from the totals. The gross inflow was smaller than in 1956 (Rs. 31 crores) but considerably above the average for 1954 and 1955 (Rs. 19·9 crores).

Fresh capital receipts during 1958 amounted to Rs. 16 crores, the same as that of 1957 as against Rs. 11·6 crores in 1956 and the average of Rs. 7·9 crores during 1954-55.

In recent years, profits retained in business by foreign-controlled companies in India have shown large fluctuations as could be seen from table below:

(Rs. crores)

	1955	1956	1957	1958
Profits earned ..	36·5	46·2	34·8	35·2
Profits distributed	32·3	26·8	25·2	25·4
Profits retained	4·2	19·4	9·6	9·8

Profits earned, distributed and retained by foreign-controlled companies in 1957 and 1958 by industry group are shown below. Figures refer to proportionate profits of non-residents.

(Rs. crores)

	1957			1958		
	Earned	Distributed	Retained	Earned	Distributed	Retained
Petroleum	12·4	7·1	5·3	11·1	5·4	5·7
Manufacturing	10·7	6·9	3·8	12·9	7·8	5·1
Plantations	5·3	6·8	— 1·5	4·9	6·3	— 1·4
Others	6·4	4·4	2·0	6·3	5·9	0·4
TOTAL	34·8	25·2	9·6	35·2	25·4	9·8

Industry-wise

An industry-wise breakdown of the capital inflow during 1958 as compared to the preceding years is given in the table below:

(Rs. crores)

	1956		1957		1958	
	Gross inflow	Net inflow	Gross inflow	Net inflow	Gross inflow	Net inflow
Petroleum	12·3	12·3	17·5	17·5	6·2	—15·6
Manufacturing	18·0	15·7	38·3	36·0	34·7	33·4
Others	12·8	8·8	2·1	—4·7	10·5	9·2
TOTAL	43·1	36·8	57·9	48·8	51·4	27·0

Inflow of IBRD capital included in each of the years under the different groups is as follows:

(Rs. crores)

	1956	1957	1958
Manufacturing —			
Iron & Steel ..	8·2	29·9	23·8
Others (utilities)	3·9	2·1	1·5

Note: The figures are the same for gross and net inflows, there being no repayments of I.B.R.D. loans during the period.

If I.B.R.D. capital is excluded, gross private capital inflow into the manufacturing field amounted to Rs. 10·9 crores in 1958 as compared to Rs. 8·4 crores in 1957. More than half (6 crores) of this investment was in industries producing medicines and pharmaceuticals, rubber goods, stationery and automobiles. Regarding petroleum industry there was on a gross basis an inflow of Rs. 6·2 crores during 1958. The inflow was however offset by a heavy repatriation of about Rs. 21·8 crores of capital. Trading companies secured a net investment of Rs. 2·5 crores, half of it flowing into export and import business. During 1958 there has been an improvement in the net position of the plantation sector by Rs. 7 crores as against a disinvestment of Rs. one crore in 1957. There was a net investment of Rs. 3 crores in the mining sector in 1958 as against a disinvestment of Rs. one crore in 1957.

Country-wise

During 1958, the U.S.A. replaced the U.K. as the principal source of private capital although the U.K. still maintains its overwhelming lead in respect of outstanding investments. The U.S. investments as at the end of 1958 at Rs. 60 crores were only a fraction of the U. K. total of Rs. 398 crores. On a gross basis the inflow from the U.K. at Rs. 19 crores exceeded the U.S. capital inflow of Rs. 5 crores.

The inflow of non-banking foreign business investments is shown below by country:

(Rs. crores)

	1956	1957	1958
A. FOREIGN PRIVATE CAPITAL	24·7	16·8	1·7
U.K. ..	15·7	6·3	—2·8
U.S.A. ..	7·1	10·4	2·7
Other countries ..	1·9	0·1	1·8
B. IBRD Loans	12·1	32·1	25·3
TOTAL ..	36·8	48·8	27·0

Note: Totals may not add up because of rounding.

Owing to the heavy repatriation of capital during 1958 from the petroleum industry, which is almost controlled by foreign companies, the share of direct private investments came down during 1958. Their level at Rs. 436 crores as at the end of 1958 accounted for only 87 per cent of the total investments from private sources as compared to 90 per cent at the end of 1957. For the same reason, net foreign private investments during 1958 were half direct and half portfolio as can be seen from Table V which gives the distribution of capital inflow as between different kinds of foreign ownership. Details of industrial composition and country-wise breakdown are given in Table IV.

TRENDS IN 1959

Developments in 1959 as affecting foreign investments in the private sector can be indicated only in broad terms as data are lacking. During 1959, with the near completion of the private sector steel expansion projects, the drawings on I.B.R.D. loans shrank further to Rs. 10 crores from Rs. 25 crores in 1958. Issues of shares to non-residents in rupee companies stood lower at

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about Rs. 5 crores compared to about Rs. 7·5 crores each in 1957 and 1958. On the other hand, there was a marked reduction in the capital outflow.

The petroleum group lost much less capital than in 1958, and the total outflow for all groups taken together in 1959 is estimated to be around Rs. 12 crores as against Rs. 24 crores in 1958. As regards reinvested profits, trends in 1959 suggest an increase in this form of investment or at least no reduction from the 1958 rate. Indications are that the net inflow of investments from private sources abroad is likely to show a marked increase.

Various indications showed a distinct improvement in the investment climate in 1959. For instance, though the actual allotments of shares to non-residents in 1959 at about Rs. 5 crores were below the level of Rs. 7·5 crores in 1958, approvals given during the year for foreign investment were higher (Rs. 19 crores†) than those in 1958 and 1957 (Rs. 13 crores each).

The Government entered into double taxation avoidance agreements‡ with four industrial countries namely the U.S.A., W. Germany, Japan and Norway, and negotiations for similar agreements with the U.K., Denmark and France were under way. India's decision to join the scheme sponsored by the U.S. Government for insurance against the risk of nationalisation, expropriation, etc., while supplementing the agreement concluded in 1957 in respect of transfer of profits and capital by American investors, contributed to an improved outlook for U.S. investments in India.

As regards the petroleum sector, the initial fears of oil companies about Government entry into this field appeared to have very largely subsided. The new policy announced by them in November 1959 assigned a special place to the foreign capital in the exploration field.

BANKING LIABILITIES

It is only the short-term side of the assets and liabilities of the banking system that shows any significant variation, the long-term side being more or less constant from year to year.

The long-term foreign liabilities of the banking system in India consist of some investments in the shares of the joint stock banking companies, and head office investments in the fixed assets of the branches of the foreign banks, while the long-term assets consist mainly of branch investments abroad of joint stock banking companies.

The short-term foreign obligations and assets of the banking system in India mainly comprise the following items: (*i*) overdrafts obtained by the branches of foreign banks from their head offices to meet their requirements of seasonal finance, (*ii*) the rupee deposits of foreign banks and individuals, (*iii*) working balances maintained abroad for financing imports and exports and (*iv*) outstanding export bills purchased and discounted.

The following table gives the position as at the end of 1958 and 1959 along with data for previous years.

FOREIGN ASSETS AND LIABILITIES OF THE BANKING SYSTEM

(Rs. crores)

	As at the end of				
	1955	1956	1957	1958	1959
Assets	55·1	51·6	61·5	53·7	55·9
Liabilities	57·0	61·2	47·8	52·4	59·2

Note: An increase in assets and a decrease in liabilities indicate an outflow of funds, while a decrease in assets and increase in liabilities indicate an inflow of capital.

In 1959 the net inflow of funds amounted to Rs. 5 crores against Rs. 12 crores in 1958. In 1958 the banks had partly utilised their foreign assets (Rs. 7 crores) and partly borrowed from abroad (Rs. 5 crores). The increase in assets (Rs. 2 crores) in 1959 was mainly on account of the rise in outstanding export bills. A rise in the rupee balances of non-resident banks (Rs. 4 crores) and of non-resident individuals and firms (Rs. 4 crores) slightly offset by a drop in other liabilities, was mainly responsible for the rise in liabilities.

OFFICIAL SECTOR

The changes in the external liabilities and assets of the official sector have been generally of a much larger magnitude than those of the private and banking sectors. It is the official sector which to a large extent finances the payments deficits; a considerable portion of the Plan expenditures of this sector is also financed by loans obtained from abroad.

Official liabilities went up by Rs. 206 crores (net) in 1958 and Rs. 257 crores (net) in 1959. Exclusive of liabilities to the I.M.F. and the I.B.R.D. net borrowings from foreign Governments amounted to Rs. 176 crores in 1958 and Rs. 204 crores in 1959. The main creditor countries were the U.S.A., the U.K., the U.S.S.R. and W. Germany in that order.

The official liabilities (Country-wise) 1956-1959 are shown below:

(Rs. crores)

	1956	1957	1958	1959
U.K. ..	33·8	26·0	48·9	97·7
U.S.A. ..	115·3	244·0*	323·5*	439·0
IMF/IBRD	26·9	132·5	162·2	214·8
Germany (West) ..	—	0·6	20·4	52·9
U.S.S.R. ..	1·1	13·3	52·6	56·9
Pakistan ..	38·6	38·5	36·2	36·7
Other countries ..	9·0	7·9	24·5†	27·5
TOTAL ..	224·7	462·8	668·3	925·5

* Revised. † The increase as compared to 1957 was mainly accounted for by the Canadian credit for purchase of wheat.

Official assets which have been continuously on the decline since 1955, showed an increase for the first time in 1959 (*vide* table below).

The official assets (Country-wise) 1956-1959 are shown below:

(Rs. crores)

	1956	1957	1958	1959
U.K. ..	598·6	356·6	214·8	221·0
U.S.A. ..	32·0	32·7	32·3	52·9
Pakistan ..	300·9*	300·9*	300·8*	300·8*
Other countries ..	3·5	14·3	19·3	18·3
I.M.F./I.B.R.D./I.F.C.	21·3	21·3	24·8	52·3
TOTAL ..	956·3	725·8	592·0	645·3

* Includes Partition debt to India of Rs. 300 crores.

Following a large decline of about Rs. 214 crores and Rs. 231 crores in 1956 and 1957, respectively, the assets fell by another Rs. 134 crores in 1958. The increase of Rs. 53 crores in the assets in 1959 included Rs. 24 crores of additional subscription to the International Monetary Fund. The remainder reflected for the most part the position *vis-a-vis* the U.K. and U.S.A. and represented additions to the country's foreign exchange reserves.

† Excludes certain approvals which involved transference of existing non-resident investment from one unit to another. ‡ Yet to be ratified.

OVERALL INVESTMENT POSITION

The country's overall investment position in 1958 and 1959 is summarised in the following table.

INDIA'S OVERALL INVESTMENT POSITION ABROAD

(Year-end figures)

(Rs. crores)

	Liabilities				Assets				Net Position			
	1955	1957	1958	1959	1955	1957	1958	1959	1955	1957	1958	1959
Private (Non-banking)	456	542	571	593	—	—	—	—	−456	−542	−571	−593*
Banking	57	48	52	59	55	62	54	56	−2	14	2	−3
Official	201	463	668	926	1,171	726	592	645	970	263	−76	−281
TOTAL	714	1,053	1,291	1,578	1,226	788	646	701	512	−265	−645	−877

* A tentative estimate. *Note*: For the private non-banking sector no estimates are made for foreign liabilities other than business investments, nor has it been possible to indicate the level of foreign assets.

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The swing from a large net creditor position of Rs. 512 crores at the end of 1955 to a heavy debtor position of Rs. 877 crores at the end of 1959 is chiefly due to the Plan expenditures and the financing of the country's balance of payment deficits by the official sector as can be seen from the depletion of its assets on the one hand and the increase in its liabilities on the other. At the end of 1955 the official sector was in a net creditor position of Rs. 970 crores, which came down to Rs. 263 crores at the end of 1957. It turned into a net debtor position of Rs. 76 and 281 crores at the end of 1958 and 1959 respectively. Complete reliance on borrowings abroad in 1959 for meeting payment deficits has been a significant development. During 1956-59 the country's net investment position abroad declined to the extent of about Rs. 1,400 crores, which has however been exceeded several times by domestic investment.

TABLES

I. FOREIGN BUSINESS INVESTMENTS IN INDIA—TRADE-WISE—1948-58.

(Lakhs of Rupees)

	As at the end of				
	June 1948	1955	1956	1957	1958
PETROLEUM	22,33	103,91	116,21	133,77	118,17
MANUFACTURING	70,94	134,91	150,64	186,66	220,09
Electrical Goods	4,77	14,63	15,77	16,46	17,06
Matches	1,73	2,29	2,34	2,25	2,26
Cigarettes and Tobacco	6,17	24,94	25,03	25,25	25,86
Medicines and Pharmaceuticals	45	7,65	8,29	9,24	11,91
Iron and Steel Products	5,48	9,43	18,53	48,81	72,99
Food Products including vegetable oils	1,82	3,22	3,22	3,29	3,33
Jute and Coir Goods		13,03	12,89	12,10	12,25
Rubber Goods		6,80	7,62	9,56	11,11
Soap		5,60	5,96	5,39	5,38
Cotton Goods	50,52	8,06	8,27	8,28	8,18
Sugar		2,73	3,42	3,72	3,83
Engineering, Machinery and Machine Tools		7,09	7,58	8,44	7,55
Others		29,44	31,72	33,87	38,38
TRADING	43,03	26,80	28,97	26,98	29,50
UTILITIES AND TRANSPORT	31,23	39,83	46,18	49,30	47,34
MINING	11,46	9,62	10,82	9,77	12,47
FINANCIAL	6,87	27,84	27,48	24,17	22,86
PLANTATIONS	52,25	87,20	87,91	86,58	95,80
Tea	50,31	86,26	87,27	86,00	95,25
Others	1,94	94	64	58	55
MISCELLANEOUS	17,72	25,89	24,61	24,43	24,41
Managing Agency	14,40	24,62	23,49	22,50	22,15
Others	3,32	1,27	1,12	1,93	2,26
GRAND TOTAL	255,83	456,00	492,82	541,66	570,64

Note: Figures would differ from those published earlier. Data for 1955 and after have been revised to take into account fresh returns furnished by certain companies mainly in the utilities group.

II. FOREIGN BUSINESS INVESTMENTS — COUNTRY-WISE — 1948-58

(Lakhs of Rupees)

	As at the end of				
	June 1948	1953	1956	1957	1958
United Kingdom	206,02	326,42	392,52	398,79	398,03
United States	11,17	30,06	46,84	57,20	59,85
West Germany	8	8	2,76	3,53	3,77
Japan	17	12	24	64	62
Switzerland	5,35	5,98	8,22	6,68	6,75
Pakistan	8,41	4,14	4,19	4,20	4,23
I.B.R.D.	—	—	14,82	46,87	72,17
Other countries	24,63	25,25	23,23	23,75	25,22
TOTAL	255,83	392,05	492,82	541,66	570,64

Note: (1) Data cover investments in non-banking business institutions in India. (2) Figures would differ from those published earlier. Data for 1953 and after have been revised to take into account fresh returns furnished by certain companies mainly in the utilities group.

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III FOREIGN BUSINESS INVESTMENTS AS AT THE END OF 1958

(Lakhs of Rupees)

	DIRECT INVESTMENTS			PORTFOLIO INVESTMENTS			Total Business Investments
	Foreign Branches	Controlled Indian Companies	Total	Equity	Creditor	Total	
PETROLEUM	80,49	37,37	117,86	12	19	31	118,17
MANUFACTURING	25,22	98,06	123,28	27,83	68,98	96,81	220,09
Automobiles & Accessories	—	1,00	1,00	1,12	23	1,35	2,35
Buildings and Building Materials	2,56	2,32	4,88	24	9	33	5,21
Cement	—	—	—	1,34	5	1,39	1,39
Cigarettes and Tobacco	—	25,70	25,70	14	2	16	25,86
Electrical Goods	2,26	12,92	15,18	1,74	14	1,88	17,06
Engineering—Mechanical	1,34	30	1,64	41	—	41	2,05
Engineering—Steam and Hydraulic	—	33	33	4	1	5	38
Food Products including vegetable oils	—	2,63	2,63	62	8	70	3,33
Heavy and Light Chemicals	6	1,17	1,23	77	18	95	2,18
Iron and Steel Products	—	5,68	5,68	1,88	65,43	67,31	72,99
Jute and Coir Goods	8,94	19	9,13	2,59	53	3,12	12,25
Machinery and Machine Tools	23	1,49	1,72	3,30	10	3,40	5,12
Matches	—	2,19	2,19	7	—	7	2,26
Medicines and Pharmaceuticals	2,19	8,27	10,46	92	53	1,45	11,91
Paints and Varnishes	—	1,88	1,88	13	29	42	2,30
Printing inks	—	17	17	1	2	3	20
Printing and Publishing	73	13	86	7	—	7	93
Railway Equipment and Stores	—	92	92	27	2	29	1,21
Rubber Goods	—	10,45	10,45	50	16	66	11,11
Ship Building including Marine Equipment	15	1,98	2,13	22	—	22	2,35
Soap	—	5,28	5,28	4	6	10	5,38
Stationery and Office Fixtures	1	1,44	1,45	1,09	59	1,68	3,13
Woollen & Silk Textiles	—	43	43	23	5	28	74
Others	6,75	11,19	17,94	10,09	40	10,49	28,43*
TRADING	16,45	9,86	26,31	1,95	1,24	3,19	29,50
Automobiles and Accessories	—	8	8	24	—	24	32
Cotton Goods	10	2	12	17	—	17	29
Electrical Goods	1,92	69	2,61	2	—	2	2,63
Exporters and Importers	2,12	2,44	4,56	19	46	65	5,21
Food Products including vegetable oils	37	11	48	—	—	—	48
Heavy Chemicals	—	1,77	1,77	5	—	5	1,82
Iron and Steel Products	—	97	97	3	—	3	1,00
Jute and Coir Goods	45	23	68	3	1	4	72
Machinery and Machine Tools	4,20	1,67	5,87	59	70	1,29	7,16
Medicines and Pharmaceuticals	47	16	63	5	—	5	68
Motion Pictures	26	2	28	4	—	4	32
Railway Equipment & Stores	—	25	25	—	—	—	25
Stationery & Office Fixtures	1,25	37	1,62	5	—	5	1,67
Soap	—	7	7	—	—	—	7
Watches and Clocks	—	21	21	—	—	—	21
Others	5,31	80	6,11	49	7	56	6,67
Utilities and Transport	32,63	2,64	35,27	2,88	9,19	12,07	47,34
MINING	9,90	91	10,81	1,57	9	1,66	12,47
Coal	2,24	1	2,25	1,10	9	1,19	3,44
Others	7,66	90	8,56	47	—	47	9,03
FINANCIAL (excluding Banking)	1,15	12,09	13,24	8,82	80	9,62	22,86
Holding Companies	1	1,14	1,15	1,26	73	1,99	3,14
Life Insurance	1,33	—	1,33	26	— 1	25	1,58
Others (Mainly Investment Cos.)	—19	10,95	10,76	7,30	8	7,38	18,14
PLANTATIONS	89,81	46	90,27	5,36	17	5,53	95,80
Tea	89,73	46	90,19	4,96	10	5,06	95,25
Other Plantations	8	—	8	40	7	47	55
MISCELLANEOUS	3,48	15,18	18,66	3,52	2,23	5,75	24,41
Managing Agency	1,65	15 49	17,14	3,04	1,97	5,01	22,15
Professions & Services	86	—37	49	2	5	7	56
Travel Steamship etc. Agents	5	6	11	2	—	2	13
Others	92	—	92	44	21	65	1,57
GRAND TOTAL	259,13	176,57	435,70	52,05	82,89	134,94	570,64

Note: Data cover investments in non-banking business institutions in India.

* Includes 818 for "Cotton Goods" and 383 for "Sugar."

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IV. FOREIGN BUSINESS INVESTMENTS AS AT THE END OF 1958

Country-wise-cum-Industry/Group-wise

(Lakhs of Rupees)

	Petroleum	Manufacturing	Trading	Utilities & transport	Mining	Financial	Plantations	Miscellaneous	Total
United Kingdom									
DIRECT INVESTMENTS	76,93	116,57	22,76	36,87	12,14	15,49	94,90	22,37	398,03
(*a*) Foreign Branches	76,78	21,33	13,65	32,65	9,85	8	89,81	2,95	357,38
(*b*) Controlled Indian Companies ..		77,28	6,90	2,48	92	7,59	52	14,59	
Portfolio Investments	15	17,96	2,21	1,74	1,37	7,82	4,57	4,83	40,65
United States	41,18	14,88	2,52	5	9	40	6	67	59,85
DIRECT INVESTMENTS									
(*a*) Foreign Branches	41,08	3,47	1,66	—	4	—25	—	4	56,57
(*b*) Controlled Indian Companies ..		9,84	61	—	—	—	— 1	9	
Portfolio Investments	10	1,57	25	5	5	65	7	54	3,28
Switzerland		5,54	1,13	1	2	4	3	— 2	6,75
Direct Investments	—	2,99	1,13	—	—	4	—	— 2	4,14
Portfolio Investments	—	2,55	—	1	2	—	3	—	2,61
West Germany	—	3,92	6	— 1	—	—	— 1	—19	3,77
Direct Investments	—	1,60	6	— 1	—	—	— 1	—19	1,45
Portfolio Investments	—	2,32	—	—	—	—	—	—	2,32
Other Countries	6	79,18	3,03	10,42	22	6,93	82	1,58	102,24*
Direct Investments	—	6,78	2,32	14	—	5,78	— 4	1,18	16,16
Portfolio Investments	6	72,40	71	10,28	22	1,15	86	40	86,08
GRAND TOTAL	118,17	220,09	29,50	47,34	12,47	22,86	95,80	24,41	570,64

* Includes 62 from Japan, 423 from Pakistan, 72,17 from IBRD, 43 from Australia, 12 from Burma, 32 from Ceylon, 3,56 from Canada and 121 from Malaya. *Note*: Data cover investments in non-banking business institutions in India.

V. NET INFLOW OF FOREIGN BUSINESS INVESTMENTS DURING 1958

(Lakhs of Rupees)

Activities	Foreign Branches	Controlled Joint-stock companies			Other rupee companies	Total	
		Subsidiaries	Other controlled companies	Total		Controlled companies [Col. (1) + Col. (4)]	All companies
	1	2	3	4	5	6	7
PETROLEUM	—19,46	3,86	—	3,86	—	—15,60	—15,60
MANUFACTURING	— 17	7,04	1,10	8,14	25,46	7,97	33,43
Automobiles and Accessories ..	—	—	61	61	19	61	80
Cement	—	—	—	—	— 2	—	— 2
Cigarettes and Tobacco	—	61	—	61	—	61	61
Electrical Goods	— 92	1,08	43	1,51	1	59	60
Food Products including vegetable oils	—	5	—1	4	—	4	4
Heavy and Light Chemicals ..	2	13	26	39	2	41	43
Iron and Steel Products	—	18	11	29	23,89	29	24,18
Matches	—	1	—	1	—	1	1
Medicines and Pharmaceuticals ..	51	2,13	1	2,14	2	2,65	2,67
Rubber Goods	—	1,55	—	1,55	—	1,55	1,55
Soap	—	—	—1	— 1	—	— 1	— 1
Sugar	19	—	—8	— 8	—	11	11
Others	3	1,30	— 22	1,08	1,35	1,11	2,46
TRADING	1,95	46	9	55	2	2,50	2,52
Exporters and Importers ..	1,18	4	6	10	1	1,28	1,29
Food Products including vegetable oils	— 44	—	—	—	—	— 44	— 44
Iron and Steel Products	— 3	—	—	—	—	— 3	— 3
Jute and Coir Goods	24	—	—	—	—	24	24
Others	1,00	42	3	45	1	1,45	1,46
UTILITIES AND TRANSPORT	— 3,55	—	13	13	1,46	—3,42	— 1,96
MINING	2,70	1	—	1	— 1	2,71	2,70
FINANCIAL	— 1,33	2	—	2	—	— 1,31	— 1,31
PLANTATIONS	7,95	—	— 1	— 1	— 72	7,94	7,22
Tea	7,95	—	— 1	— 1	—69	7,94	7,25
Others	—	—	—	—	— 3	—	— 3
MISCELLANEOUS	58	—12	— 39	— 51	— 9	7	— 2
Managing Agency	— 33	— 1	3	2	— 4	— 31	— 35
Others	91	—11	—42	— 53	— 5	38	33
TOTAL CAPITAL INFLOW ...	—11,33	11,27	92	12,19	26,12	86	26,98

Note: (1) Data cover investments in non-banking business institutions in India. (2) Adjusted for valuation changes.

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VI. FOREIGN LIABILITIES AND ASSETS OF THE BANKING SYSTEM, 1957 TO 1959

(Lakhs of Rupees)

	As at the end of									Net inflow (+)* or outflow (−) of capital	
	1957			1958			1959†				
	Assets	Liabilities	Net Assets	Assets	Liabilities	Net Assets	Assets	Liabilities	Net Assets	1958	1959
U.K.	35,39	14,20	21,19	28,53	16,83	11,70	34,47	15,17	19,30	+9,49	−7,60
U.S.A. ..	8,90	1,50	7,40	6,13	1,73	4,40	7,67	1,71	5,96	+3,00	−1,56
Canada ..	44	30	14	33	36	−3	36	37	−1	+17	−2
Switzerland ..	41	1,79	−1,38	14	1,26	−1,12	22	1,32	−1,10	−26	−2
Japan	—	1	−1	—	14	−14	—	16	−16	+13	+2
W. Germany ..	23	27	−4	40	53	−13	66	1,90	−1,24	+9	+1,11
Australia ..	25	7	18	27	6	21	18	6	12	−3	+9
New Zealand ..	2	3	−1	3	2	1	1	3	−2	−2	+3
Pakistan ..	2,22	1,87	35	2,10	1,82	28	1,84	2,32	−48	+7	+76
Malaya ..	3,25	7,37	−4,12	2,81	6,93	−4,12	2,61	9,78	−7,17	—	+3,05
Ceylon ..	1,17	1,36	−19	1,56	1,15	41	81	1,36	−55	−60	+96
Burma.. ..	71	91	−20	47	1,59	−1,12	75	1,63	−88	+92	−24
Other Countries	8,54	18,07	−9,53	10,94	19,96	−9,02	6,35	23,37	−17,02	−51	+8,00
TOTAL ..	61,53	47,75	13,78	53,71	52,38	1,33	55,93	59,18	−3,25	+12,45	+4,58

* Increase in Net Assets (−) and decrease in Net Assets (+). † Provisional.

REMITTANCES

The remittances of profits and dividends of branches of foreign firms and companies and foreign controlled Indian joint stock companies engaged in trading activities in India amounted to (preliminary figures) Rs. 482·6 lakhs in 1958-59. The figures for 1957-58 and 1956-57 were Rs. 400·5 lakhs and Rs. 278 lakhs respectively. Rs. 345·5 lakhs were remitted to U.K. in 1958-59. In 1957-58 and 1956-57, the remittances to U.K. amounted to Rs. 170·4 lakhs and Rs. 91 lakhs respectively. In the case of U.S.A., the figures were: Rs. 13·5 lakhs in 1958-59; Rs. 218·6 lakhs in 1957-58; and Rs. 154·8 lakhs in 1956-57. The figures for Switzerland were: Rs. 0·4 lakhs in 1958-59; Rs. 1·2 lakhs in 1957-58; and Rs. 20·2 lakhs in 1956-57. Remittances to other countries amounted to Rs. 5·6 lakhs in 1958-59; Rs. 10·3 lakhs in 1957-58 and Rs. 12·0 lakhs in 1956-57.

COLOMBO PLAN

(See also under Foreign Aid)

COLOMBO Plan Bureau, P.O. Box No. 596, Colombo.

Director: J. K. Thompson; *Information Officer:* Majeed Malik; *Asst. Information Officer:* L. P. Goonetilleke.

Plan period: 1951-66.

The Colombo Plan (for Co-operative Economic Development in South and South-East Asia) was conceived at a meeting of the Foreign Ministers of the Commonwealth held in Colombo in January 1950.

Over the years, the membership of the Colombo Plan has grown to 21—15 countries within South and South-East Asia and six countries outside it.

The 15 countries within the area are Burma, Cambodia, Ceylon, the Federation of Malaya, India, Indonesia, Laos, Nepal, Pakistan, the Philippines, Singapore, Thailand and Viet-Nam, and North Borneo and Sarawak which take part in the Plan through their association with the United Kingdom.

The six countries outside the area are Australia, Canada, Japan, New Zealand, the United Kingdom and the United States.

Nearly one-fourth of mankind lives in the area covered by the activities of the Plan. The total population of the countries of the area is estimated to have increased from 600 million in 1950 to nearly 700 million in 1960.

The Plan, which is based on the principle of mutual co-operation, has stimulated developmental activities on a comprehensive scale in the area.

Assistance is provided on a bilateral basis between the Governments concerned without the intervention of any central organization.

Since its inception the Colombo Plan has sponsored over 15,000 trainees for specialised training in agriculture, medicine, and public health, social services, fisheries, co-operation, community development, industries, forestry, administration, transport and communications and journalism.

Over 1,700 experts have been provided for on-the-spot training in receiving countries.

Many of the regional members are now able to provide a high level of training in a number of practical and technical skills, and training facilities have been offered to nationals of each other.

Nearly 20 per cent of all the training places provided under the Colombo Plan are now within the region.

Of the countries of the region, India has provided the largest number of training places—1,279 out of 1,566—during the ten-year period. India also provided 34 experts—the highest for a regional member.

The number of training places received by Indians in the ten-year period is the highest for any country—3,275.

The Colombo Plan Organization consists of: The Colombo Plan Consultative Committee and the Colombo Plan Council for Technical Co-operation in South and South-East Asia. The Consultative Committee which meets once a year in one of the member countries takes note of the progress of the Plan and the role which external assistance plays in the development of the area and makes recommendations on the problems that arise in the implementation of development programmes. The Colombo Plan Council, located at Colombo, supervises the operation of the Colombo Plan Technical Co-operation Scheme and the dissemination of information on the Colombo Plan.

Assistance has been given primarily in three forms—financial assistance and equipment for development projects; food and other commodity assistance as contribution towards economic stability and growth; and technical assistance to increase the number and range of skills and strengthen the economic and social institutions. The major part of the assistance under the Colombo Plan has come from member countries from outside the area. Internally, in the area, mutual assistance has progressively increased in recent years.

TOTAL AID

Till the end of June 1960 the total aid amounted to $8,000 million or £2,857 million. During 1959-60 the aid amounted to $1,750 million (£625 million).

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Brief details of some of the major items of assistance rendered by the donor countries to the member countries in South and South-East Asia up to 1959-60, as recorded in the Ninth Annual Report of the Colombo Plan Consultative Committee are given below:

Australia: A £35·16 million (includes capital aid to India during the year in the form of wheat, sulphate of ammonia and copper, the proceeds from the sale of which will be spent on the building of wheat silos in Calcutta. Technical assistance equipment provided included items for Government wool and research stations); *Canada*: $281·7 million (includes continuation of establishment of Canada-India Atomic Reactor, the supply of diesel shunting locomotives, industrial metals, telecommunications equipment and cobalt beam therapy units and equipment for the Calcutta Milk scheme); *Japan*: 1,043 million yen (includes allocation of funds for the proposed setting up of a prototype production and training centre for small scale industries in West Bengal); *New Zealand*: £9·315 million up to March 1960 (includes assistance for several Dairy development schemes in India); *United Kingdom*: Commitments up to 30 June 1960 amounted to £170·7 million (includes authorised loans to India totalling £65·5 million); *United States of America*: Since 1951 to end of June 1960 $7,378 million of which a sum of $1,538 million was committed during 1960 (includes the agreement with the Government of India—the largest under PL 480—for the shipment of approximately 587 million bushels of wheat and 22 million bags of rice. In 1960, the United States committed $834·9 million of aid to India.

The United States, Australia, Canada, Japan, New Zealand and United Kingdom have made contributions to the Mekong River Development Project.

The International Bank for Reconstruction and Development provided 49 loans to Colombo Plan countries totalling over $1,107 million since the start of the Colombo Plan, of which over $727 million had been disbursed by September 1960. Twenty-four of the 49 loans were made to India, whose borrowings totalled $662 million.

During 1960, the Indus Waters Treaty was negotiated—the result of 8 years of negotiations between the two countries, India and Pakistan, in which the Bank acted as mediator. The division of waters now provided for requires the construction of works, the total cost of which is estimated to be about $1,070 million. In addition to the Bank loan, the Governments of Australia, Canada, Germany, India, New Zealand, the United Kingdom and the United States are contributing the equivalent of over $800 million.

From July 1950 up to June 1960, 1,729 experts were made available to member countries and training facilities were provided for 15,116 selected trainees under Colombo Plan Technical Co-operation by member countries including the United States. (These totals include U.S. figures for trainees only from 1 July 1958 onwards and for experts from 1 July 1959 onwards). During 1959–60 alone, 4,268 training places and 535 experts were provided and also special equipment to the value of over £2·9 million.

By June 1960, the total value of technical assistance provided under the Colombo Plan by the member countries including the United States, (from 1958 only) amounted to about £46·4 million.

U. S. expenditure on technical assistance during 1959–60 amounted to £13·4 million. In the same period, the U.S. provided 2,511 new awards for training and made available the services of 324 experts.

Expenditure on the provision of training has maintained a progressive rise and amounted to £4·36 million in the period 1 July 1958 to 30 June 1959 and £5·2 million in the period 1 July 1959 to 30 June 1960.

Training facilities and services of experts provided under the Scheme cover all the major fields of development, and include Engineering, Administration, Food, Agriculture and Forestry, Education, Medical and Health, Industry and Trade, Transport and Communications, Banking Finance and Accountancy, Power and Fuel, Statistics, Social Services, Co-operatives, Fisheries, and Journalism.

DEVELOPMENT EXPENDITURE

The countries of the area have drawn up development plans.

Fifteen Colombo Plan countries of South and South-East Asia incurred an estimated expenditure of nearly £1,309·8 million on development in the public sector in 1959–60. The budgeted expenditure for 1960–61 is estimated at nearly £1,546·3 million.

Government expenditure under developmental heads (£ million at a constant rate of exchange):

£ million

	1958-59 or 1958, Actuals	1959-60 or 1959, Revised Estimates	1960-61 or 1960, Budget Estimates.
Burma[1]	32·7	40·4	36·8
Cambodia	..*	..*	8·8
Ceylon	35·8	38·5	39·0
India	748·5	754·5	810·0
Indonesia	44·7	51·0	144·0
Laos	3·8	5·4	8·9
Nepal	1·6	5·7	15·2
Federation of Malaya	61·0	63·0	85·6
Pakistan[2]	137·0	144·3	165·5
Philippines	123·7	123·7	144·1
North Borneo	3·0	1·5	2·5
Sarawak	3·0	3·2	4·5
Singapore	18·5	16·9	18·3
Thailand	29·3	24·2	23·0
Viet-Nam	29·8	37·5	40·1
Total	1,272·4	1,309·8	1,546·3

[1] Figures for Burma include capital expenditure in public enterprises. * Figures not available.
[2] April 1958–March 1959. April 1959–June 1960. July 1960–June 1961.

A favourable world economic situation during 1959–60 provided a propitious environment for continuing progress in the Colombo Plan area. The volume of exports increased. Along with the recovery in industrial countries, raw material prices improved, although food prices continued to decline. Weather conditions, so important to the Colombo Plan area, were generally favourable in 1959–60 and although bad weather affected production in some countries, agricultural production rose for the second successive year. The rice harvest was a record. Industrial production in the area rose substantially and rapidly in 1959–60, the output of cement and electric power particularly showed a marked increase. In India, the rise in industrial production was about 11 per cent, as compared with an increase of 2·4 per cent in 1958–59 and 1·7 per cent in 1957–58. Also in India, which accounted for most of the increased electric power output of the area during the year, 10 per cent more electricity was generated than in the previous year. Steel production in India was increased by 550,000 tons.

TECHNICAL ASSISTANCE

Australia, Burma, Canada, Ceylon, Federation of Malaya, India, Japan, New Zealand, Pakistan, Philippines, Singapore, United Kingdom and United States have contributed over £46·4 million to finance Colombo Plan Technical Co-operation. Technical assistance consists of provision of facilities for training, supply of experts and provision of equipment for training and research institutions. Technical assistance is also offered under various programmes of the United Nations and its Specialized Agencies.

According to the Ninth Annual Report of the Colombo Plan Consultative Committee, since 1950 training has been afforded to over 23,000 trainees and the services of an estimated 11,600 experts have been provided to countries in the area by all member countries of the Colombo Plan and also by agencies of the United Nations. This includes United States figures for the full period.

Not all the training is arranged outside South and South-East Asia; some Asian countries are helping others in training facilities. In addition, the United States, 'Third Country' programme provides financial assistance to enable trainees from countries in the area to proceed for training in another country of the area.

A break-up as between Colombo Plan and U.N. assistance:—

Till June 1960, 7,218 experts under the Expanded Programme of the United Nations and the Specialized Agencies served in the area. A number of countries have established technical schools and polytechnics in special fields such as textile and nursing education.

Under the Technical Co-operation Scheme of the Colombo Plan, 1,729 experts and 15,116 training places had been provided to the countries of South-East Asia till June 1960 by member countries including the United States. (The U.S. contribution is from July 1959). The distribution is as follows:

	Training Awards	Experts
Australia	3,084	367
Burma	15	..
Canada	1,374	241*
Ceylon	65	2
India	1,279	34
Indonesia	13	1
Japan	341	231
Malaya	28	..
New Zealand	738	124
Pakistan	108	1
Philippines	10	..
Singapore	38	..
Thailand	10	..
United Kingdom	3,257	404
United States	4,756†	324‡
Total	15,116	1,729

* Figures include some capital aid project personnel not included in official Canadian figures for technical assistance.

† United States figures from 1958-59.

‡ United States figures from 1959-60 only.

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The following table gives the expenditure by supplying and receiving country, July 1950 to 30 June 1960, including United States figures from 1 July 1958.

(Pound Sterling)

Receiving Country / Supplying Country	Australia	Burma	Canada	Ceylon	India	Japan	Malaya	New Zealand	Pakistan	Philippines	Singapore	United Kingdom	United States*	Total
Australia	..	..	..	..	1,593	..	..	..	1,215	..	..	..	..	2,808
Brunei	7,379	..	2,550	..	915	..	..	..	..	..	..	..	..	10,844
Burma	435,975	..	302,969	1,931	10,656	2,293	585	98,107	3,899	..	519	505,496	..	1,362,430
Cambodia	109,996	..	70,306	..	..	23,293	..	332	..	..	..	72,204	..	1,207,917
Ceylon	415,910	..	555,045	..	52,360	130,711	123	210,494	1,469	..	..	1,006,531	931,786	3,640,473
India	518,316	..	658,066	323	..	76,333	51	110,524	..	..	..	1,682,894	1,267,830	7,814,041
Indonesia	1,181,763	..	422,624	..	15,315	45,926	..	289,381	10,516	..	..	286,928	4,767,857	6,407,061
Japan	..	..	..	..	3,067	..	..	..	1,082	..	..	..	4,154,285	4,149
Laos	40,359	..	41,717	..	333	11,392	..	2,138	..	..	..	55,435	..	837,802
Malaya	414,033	1,055	166,182	694	8,393	15,627	..	226,756	6,302	..	..	96,328	686,428	935,370
Nepal	18,367	197	1,119	..	514,889	3,027	..	6,563	..	..	..	57,252	..	1,293,914
North Borneo	145,584	..	27,476	446	2,059	1,361	..	114,173	..	..	..	..	692,500	291,099
Pakistan	574,415	..	636,932	170	7,722	67,987	212	108,230	..	..	..	1,708,554	..	8,807,470
Philippines	206,945	..	34,526	1,636	29,893	11,277	..	5,209	1,855	..	35	185,313	5,703,213	2,781,297
Sarawak	114,478	..	60,045	..	420	..	48	81,038	..	..	..	..	2,304,643	257,144
Singapore	273,822	15	33,909	520	14,792	1,100	..	36,219	..	..	..	..	..	361,458
Thailand	234,758	652	51,604	215	9,460	2,196	..	35,864	251	..	..	172,934	3,362,500	4,010,441
Viet-Nam	286,282	..	171,305	87	15,014	92,043	160	26,917	874	..	..	84,669	4,801,429	5,410,791
Entire Area	741,989	..	48	122,956	..	24,214	..	83,824	7,502	2,509	543	..	..	979,371
Total	5,770,371	1,919	3,236,423	128,978	686,881	528,780	1,179	1,435,769	34,965	2,509	1,097	5,914,538	28,672,471	46,415,880

* From 1st July 1958 only.

AID FROM INDIA

India has offered both economic and technical assistance to the countries of the region. Economic assistance has been given primarily to Nepal. This assistance was for development of roads and communications, construction of an air-field, mapping and air survey work, construction of Trisuli Project and minor irrigation works.

During 1959-60 India gave assistance of the value of Rs. 18·0 million. During the year, India also offered aid to the extent of Rs. 180 million for Nepal's Second Plan projects, inclusive of Rs. 40 million for the construction of East Kosi (Chhatra) canal and Rs. 40 million which is estimated to be the unspent balance of the current Rs. 100 million assistance programme in that country.

India also supplied 34 experts to the Colombo Plan countries during the year—two to Burma, 22 to Ceylon, 5 to Indonesia, four to Singapore, one to Viet Nam, in such fields as potato-growing, tractor engineering, timber research, small savings, sugar technology and the use and maintenance of HT 2 aircraft.

In addition to this India has provided 1,279 scholarships and fellowships to students of South-East Asia in various technical subjects at the Indian Universities, Scientific and Research institutes and in other projects from the beginning of the Colombo Plan Technical Co-operation Scheme. Of this number 820 were to Nepal, Ceylon (137); Philippines (71); Pakistan (39); Burma (46); Thailand (49); Indonesia (39); Malaya (30); Japan (8); North Borneo (3); Viet Nam (10); Laos (11); Sarawak (3); Australia (2); New Zealand (1); Singapore (10).

The largest number of training places were provided in the field of Education (293), Statistics (182), Engineering (209), Food, Agriculture and Forestry (128), Transport and Communications (116), Medical and Health (123), Industry and Trade (92), Administration (33), Co-operatives (28), Social Services (30), Banking Finance, Accountancy, Taxation and Insurance (10), Journalism, Press Photography and Printing (8) Fisheries (13), Power and Fuel (7), and Miscellaneous (7).

During the year 1959-60 training facilities were provided for 272 Asians in the fields of: Engineering 53, Medical & Health 43, Food, Agriculture and Forestry 31, General Education 30, Statistics 23, Transport and Communications 21, Social Services 18, Industry and Trade 14, Fisheries 10, Co-operatives 10, Power and Fuel 7, Administration 6, Banking, Finance, Accountancy, Taxation and Insurance 2, Journalism Press Photography and Printing 2, Technical Education 1 and miscellaneous 1.

Since the inception of the Colombo Plan, training in statistics has been provided to 182 candidates by the International Statistical Education Centre, Calcutta, which is jointly sponsored by the International Statistical Institute and the Indian Statistical Institute in collaboration with UNESCO.

Country-wise a description would be as follows:—

Four candidates from Burma have received training in dental surgery, archaeology, and community development; 5 from Ceylon—4 in textile chemistry, textile technology, textile finishing and training within industry and one in crash fire rescur; 11 from Indonesia in chemistry, agriculture, community development, physico-chemical properties of bamboos, their utilisation and preservation, coal and ore geology and volcanology, petrology and geo-chemistry; 8 from Malaya in printing and press room work and press relations, degree course in medicine and occupational therapy; one from North Borneo in village extension work; 4 from the Philippines in chemical and ceramic technology, analysis of paints and varnishes and leper hand surgery; 2 from Sarawak in public health; and 13 from Thailand in public administration, destructive distillation of wood, civil aviation, nutrition and agriculture. India has also offered training in forestry and fisheries. In 1959-60 three forest officers from Ceylon, 1 from Sarawak and 1 from

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Thailand were given courses at the Southern Forest Ranger College, Coimbatore. Two trainees from Malaya, 5 from the Philippines and 2 from Thailand were receiving training at the Central Fisheries Research Station, Calcutta. India provided 4 experts to Ceylon to advise on low cost road construction and the setting up of a Road Research Institute, taxation, leather technology and seed potato stations.

But India's largest contribution to Colombo Plan co-operation is the number and variety of training courses offered to Nepal each year. The number of new training places taken up in 1959-60 was 187. Twelve Nepalese were being trained in agriculture, in forestry (8) and veterinary science (4). To overcome the shortage of doctors training was being provided in western and ayurvedic medicine and in dentistry to 35 Nepalese trainees. In the fields of transport and communications, housing, mining, aviation and engineering 75 training places were awarded; 2 were undergoing training in applied chemistry and 1 in chemical engineering, 2 in sugar technology and 2 in textile technology, 5 were receiving training in community development work and 2 in clerical work. To assist with university development in Nepal, 7 Nepalese lecturers were taking higher degree courses in India in physics, chemistry, English literature, philosophy, Sanskrit, economics and zoology. A lecturer in chemistry at Tri-Chandra College, Kathmandu, a lecturer in Hindi at the Nepal University and 2 lecturers in psychology from the Tribhuvan University were following courses in their respective subjects. India was also training 5 Nepalese in home science, 6 in social education, 10 in co-operatives, 2 in accountancy and 3 in draughtsmanship, one in factory inspection and one in parliamentary procedure and practice.

Expenditure incurred on equipment in 1959-60 and from July 1950 to June 1960 were £428 and £19,177 respectively.

AID TO INDIA

Australia :—Australian capital aid to India amounted to A£767,700 during 1959-60. The total Australian contribution was at the end of June 1960 A£11·3 million. Forty-six Indian trainees proceeded to Australia during 1959-60 and 16 Australian experts served in India. Of the 396 training awards granted upto the end of June 1960 the majority were in agriculture engineering, nursing and science.

Canada :—Up to the end of 1959-60 Canadian capital assistance allocated to India amounted to $147·2 million, exclusive of an additional $51 million in grants and loans provided for the purchase of wheat. In 1959-60 $25 million was allocated to finance Canadian capital aid programme in India. The unallocated balance of funds from 1958-59 was used for the purchase of equipment for the Calcutta Milk scheme and additional copper. From Colombo Plan funds appropriated during 1959-60 Canada earmarked $2 million as an initial allotment for Canada's share of the Indus Basin Development Fund.

Japan :—Japan's Export-Import Bank has approved loans totalling 504·5 million yen against the special line of credit to India amounting to 18,000 million yen which is to be utilised over a 3-year period ending March 1961. In addition, the Bank had authorised by end of June 1960 funds totalling 1,646·4 million yen under the agreement between the two Governments for the extension of a further credit of 3,600 million yen. Japan has also indicated that it would be prepared to supply an additional line of yen credit amounting to 3,600 million yen for the procurement of capital equipment on a deferred payments basis.

New Zealand :—Capital assistance grants to India amounted to £2·42 million up to 30 June 1960. Further capital assistance amounting to £150,000 for 1960-61 is envisaged for dairy development in India. A further grant of £9,000 was made to the National Dairy Research Institute, Karnal. Eleven New Zealand experts in agriculture have been assigned to India since the beginning of the Colombo Plan. 71 trainees from India have received New Zealand technical assistance awards principally in agriculture and mining. To assist in financing development of the water resources of the Indus Basin, New Zealand has undertaken to make a contribution of £1 million under the Colombo Plan, to be made available in annual instalments of £100,000 over a ten year period.

United States:—In May 1960, the United States signed a 4-year agreement with India for the sale of $1,276 million of surplus agricultural commodities. A previous $299 million agreement had been signed in 1959. A substantial part of the proceeds will be made available on a loan or grant basis for economic development purposes. The $171·3 million in loans approved by the Development Loan Fund was largely for the construction of power generating plants, railways improvements and loans for the private sector. In addition, the Export-Import Bank made a loan of $13·7 million for an aluminium project. Technical Cooperation from the United States centered on agriculture and industry. The International Bank for Reconstruction and Development made two loans totalling $120 million for the continued development of the Indian railway system, bringing the amount lent for this purpose to $328 million—the largest amount lent by the Bank for any single project. The Bank also lent $10 million to the Industrial Credit and Investment Corporation of India Ltd. to assist the growth of private industry in India.

United Kingdom :—From 1951 to 30 June 1960, the United Kingdom authorised loans to India totalling £65·5 million, of which all but £1·1 million had been drawn by the latter date. In 1959-60, India drew the whole £19 million loan promised at the second Consortium meeting and the £19·45 million balance of the £28·5 million loan promised at the first Consortium meeting. This assistance was for general balance of payments support. In 1959, a loan of £3 million was also made available for the Assam oil pipeline project of which £1·9 million had been drawn by 30 June 1960.

Out of the 225 Indian trainees in the United Kingdom under Colombo Plan Technical Co-operation arrangements on the 30th June 1960, 80 were technicians being trained by the British iron and steel industry for the Durgapur Steel Plant, which brings the number of Indians so far trained in the United Kingdom for this project to 168. The United Kingdom has undertaken to train 400 Indian technicians in all for the Durgapur Steel Plant. Other Indians were given and are receiving training in varying fields including medicine, civil engineering, food and agriculture and scientific subjects.

During 1959-60, 9 experts were sent to India bringing to a total of 17 the number of United Kingdom experts working in India during that period. Among them were advisers on mining research and metal mining at Dhanbad, a Professor and a Director of Practical Training for the projected Delhi Engineering College which the Indian Government plan to open in July 1961. This college will be staffed initially with professional staff to be provided by the United Kingdom under technical co-operation arrangements. In addition, equipment to the value of over £250,000 will be provided for the College and paid for by British industry.

The services of consultants were provided to prepare for the Indian Government a detailed report on two Heavy Engineering projects, namely, the Heavy Structural Fabricating Works and the Heavy Plate and Vessel shop.

Requests for books and equipment for six projects were approved, among them being the National Metallurgical Laboratory, Jamshedpur (£12,000), the Central Building Research Institute, Roorkee (£6,000) and the Hospital for Mental Diseases, Ranchi (£2,400).

U. S. AID TO INDIA

U.S. economic assistance to India consists of both grants and loans. The total commitments of the U.S. under various agreements with the Government of India now stand at $3,872·6 million (Rs. 1,843·3 crores).

(U.S. aid from the inception of the aid programme to India in June 1951 through June 1, 1961). The first figure is in million dollars and the figure in brackets the rupee equivalent in crores: Aid under Indo-American Technical Cooperation Programme 490·7 (233·6); Public Law 480, Title I 2,337·3 (1,112·6); Famine relief grants to Indian Government 10·4 (4·9); Agricultural commodities distributed through voluntary agencies (Public Law 480, Title III) 113·1 (53·8); Development Loan Fund 493·4 (234·8); Export-Import Bank 238·0 (113·3); Wheat Loan of 1951 189·7 (90·3); Total 3,872·6 (1,843·3).

Breakdown : Loans repayable in dollars 427·7 (203·6); Loans repayable in rupees or dollars 1,735·5 (826·1); Grants to Indian Government for economic development (not repayable) 1,122·8 (534·5); Amounts under PL-480, Title I, reserved for U.S. government use 300·8 (143·1); Cooley Funds for loans to private enterprise 162·3 (77·3); Famine relief grants to Indian government (not repayable) 10·4 (4·9); Agricultural commodities distributed through voluntary agencies (PL-480, Title III) (not repayable) 113·1 (53·8); Total 3,872·6 (1,843·3).

The position as on December 31, 1960 giving the different heads as well as the year under which it has been given: (Figures in mln. dollars) 1. Technical and Economic Assistance through Joint Indo-American Programme 483·2*a*; 2. Other ICA Programmes 5·5*b*; 3. Development Loan Fund 408·3*c*; 4. India Emergency Food Act of 1950—Wheat Loan 189·7*d*; 5. Export-Import Bank Line of Credit Approved 219·6; 6. Famine Relief Grants to Indian Government of Surplus Foods Under PL 480 Title II 4·9; 7. Donations of Surplus Foods Distributed by Non-Profit Voluntary Relief Agencies under PT 480 Title III 113·1*e*; 8. Sales of Surplus Agricultural Commodities for Indian rupees under PL 480 Title I 2,302·2*f*; 9. Sale for rupees of commodities purchased by U.S. with foreign currencies obtained from sale in third countries of U.S. surplus commodities under PL 480, Section (*d*) 6·0*g*; Total 3,732·5.

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a. Includes a loan of $20·0 million approved in June 1958 for Orissa Iron Ore Project from Asian Economic Development Fund.

b. Includes $5·0 million for emergency flood and famine relief and $0·5 million ocean freight on PL 480 Title II Commodities financed under appropriation to the International Cooperation Administration.

c. Does not include three commitments totalling $22·2 million for which agreements are not yet signed.

d. The India Emergency Food Act of 1951 provided that the first $5·0 million of interest paid by India for interest on the loan was to be placed in a special fund to assist education in India.

e. Includes market value of commodities and freight paid by International Cooperation Administration. Prior to FY 1955, these surplus food donations were authorized under section 416 of the Agricultural Act of 1949.

f. Represents market value plus ocean freight under 5 agreements (excluding $6·0 million which covers the excess cost of freight as the result of the requirement that the commodities be shipped in U.S. vessels for which Indian Government is not required to deposit rupees in special account of U.S. Treasury).

g. Fertilizers procured by the ICA with the Japanese Yen, French Franc, and Italian Lira proceeds of PL 480 sales in third countries, electrical goods and clay products under similar arrangements.

The aid year by year was as follows (as on June 30) in million dollars:

1951: 194·2; 1952: 53·6; 1953: 45·3; 1954: 89·5; 1955: 105·8; 1956: 83·8; 1957: 439·0; 1958: 324·4; 1959: 395·8; 1960: 1,723·9; 1961: 277·2. Total: 3,732·5.

Of this aid grants amounted to 1,102·0 million dollars, loans repayable in dollars 428·0, loans repayable in dollars or rupees 1,674·0. Total U.S. grants and loans: 3,204·0 million dollars.

Besides, there are the rupee proceeds of U.S. Surplus Commodity Sales under PL 480, Title 1, reserved for U.S. uses: 297·0 million dollars.

And sale for rupees of Commodities purchased by U.S. with foreign currencies obtained from sale in third countries of U.S. surplus commodities under PL 480, Section (*d*): 6·0 million dollars.

EMERGENCY WHEAT LOAN

As authorized under the provisions of the India Emergency Act (Public Law 48) passed by the United States Congress in 1951, a loan of $189·7 million (Rs. 90·3 crores) was extended to India to finance the purchase of two million tons of American foodgrains urgently needed to alleviate the food crisis brought on by floods and subsequent drought in 1950.

The loan carries an interest rate of 2¼ per cent per annum and is repayable in dollars. The original loan agreement stipulated that repayment was to commence on June 30, 1957 and terminate on June 30, 1986. The first three amortization payments, as well as interest charges for seven and one-half years, were made on schedule. However, in September 1958 when India was experiencing serious difficulties financing the heavy foreign exchange requirements of the Second Five-Year Plan in addition to the normal claims on her foreign exchange earnings, the United States Government agreed to postpone the eighteen semi-annual instalments of interest and principal due during the period December 31, 1959 to June 30, 1967 and to reschedule them to fall due from December 31, 1986 to June 30, 1995. No additonal interest payments over the life of the loan will be required as a result of this deferment which involves $23 million on principal account and $39 million of interest.

The legislation authorizing the loan also provided that the first $5 million paid by India as interest on the loan was to be placed in a special deposit account in the treasury of the United States to remain available, until expended, for the purpose of rehabilitation and development of Indian universities and institutions of higher learning. The India Wheat Loan Educational Exchange Programme, which is administered by the United States Information Service, started functioning in 1954. The total amount obligated as of December 31, 1960 was $4,825,050. As of June 30, 1961, of this amount $1,830,000 will have been used to provide scientific equipment to Indian institutions of higher learning, $1,393,000 for procurement of books for their libraries, $1,049,550 for an exchange-of-persons programme, and $552,500 for administrative costs. Altogether 116 Indian students will have gone to the United States for study by June 30, 1961 and 37 American Professors will have come to Indian Universities to advise and assist them in their fields of specialized knowledge and experience. Indian Universities and institutes of higher learning numbering 102 have received assistance from this fund.

PUBLIC LAW 480

This Law (U.S. Public Law 480) authorizes the U.S. Government to enter into agreements with foreign governments to sell certain agricultural products which are in surplus supply in the United States and to accept foreign currencies, such as Indian rupees, as payment. This act also permits the use of some of the sales proceeds by the recipient countries for economic development purposes.

India has been the beneficiary of more than one-fifth of the total value of the PL 480 sales agreements negotiated by the United States with other friendly nations around the globe. Sales agreements totalling Rs. 1,093·5 crores ($2,302·2 million) had been signed with the Indian Government as of December 31, 1960.

The PL 480 sales agreements include provision as to the utilization of the anticipated rupee proceeds of the sales transactions. The provisions agreed to prior to as of December 30, 1960 stipulate that 33·6 per cent of the total sales proceeds anticipated under all agreements are to be given to the Indian Government as an outright grant for financing non-revenue producing development or educational projects. In addition, 46·5 per cent will be made available to the Indian Government as long-term, low-interest loans for financing the rupee costs of economic development projects. Another 7·0 per cent of the total value of the rupee sales under the three agreements will be available through the U.S. Export-Import Bank for rupee loans to (1) United States business firms or affiliates of such firms for business development and expansion in India or (2) for loans to firms of any nationality for establishment of facilities for increasing the consumption of, and markets for, United States agricultural products in India. The remaining 12·9 per cent of the sale proceeds are to be retained by the U.S. Government to cover its ordinary operating expenditures in India.

In terms of money the agreed uses have resulted as follows as on December 31, 1960 (in million dollars):

Grants to Indian Government: 773·5; Loans to Indian Government for Economic Development: 1,070·5; U.S. Government purposes: 296·9; For loans to U.S. and eligible Indian firms through Export-Import Bank: 161·3; Total: 2,302·2 million dollars.

ASSISTANCE UNDER PL 480
(Through December 31, 1960)

BREAKDOWN—PL 480, TITLE I
(in thousands)

Agreement*	Value: Dollars	Value: Rupee Equivalent
1. August 29, 1956	354,556	1,697,948
2. June 23, 1958 ..	55,277	264,644
3. September 26, 1958	259,800	1,243,818
4. November 13, 1959	297,870	1,426,082
5. May 4, 1960 ..	1,334,700	6,390,009
Total ..	2,302,203	11,022,501

* Dates of original signature shown; figures include any subsequent amendments or supplements.

The surplus agricultural commodities supplied under the first four agreements and those covered by the fifth agreement are as follows:

Commodity	Unit	First Four Agreements	Fifth Agreement	Total
Wheat	Tons	11,000,000	16,000,000	27,000,000
Rice	,,	400,000	1,000,000	1,400,000
Cotton	Bales (US)	625,000	330,000	955,000
Corn and Grain Sorghum ..	Tons	375,000	100,000	475,000
Corn	,,	..	134,000	134,000
Tobacco	,,	3,000	2,000	5,000
Dried Milk Powder ..	,,	20,000	..	20,000
Soybean Oil	,,		4,000	4,000

Section (*d*) of PL 480 Title I provides that a portion of the local currency proceeds of sales of agricultural commodities set aside for the uses of the U.S. Government may be spent for financing the purchase of goods or services for other friendly countries. In accordance with this authorization, the U.S. Government has resold to the Indian Government for rupees commodities purchased with the local currency proceeds of PL 480 sales in third countries. Fertilizer purchases equivalent in value to $5·4 million (Rs. 2·6 crores) were authorized by ICA with Japanese Yen, French Francs and Italian Lire and sold to India for rupees, thus saving India the equivalent in foreign exchange. In addition, $575,214 (Rs. 0·3 crore) of electrical goods and clay products were authorized for procurement from Japan under a similar transaction. The rupee proceeds of the sale of these commodities accrue to the U.S. Treasurer for use in financing the operations of the U.S. Government.

PL. 480 TITLE II

Under Title II of U.S. Public Law 480, which authorizes the utilization of surplus American Agricultural foodstuffs for distribution to friendly peoples in meeting famine or other extraordinary relief requirements, India received as a gift 10,000 tons of wheat, 10,000 tons of rice and 3,000 tons of non-fat dry milk for free distribution in those areas affected by natural disasters in 1955 and 1956. The value of these commodities was $4·9 million (Rs. 2·3 crores). In addition $500,000 to cover the cost of ocean freight on those commodities was financed from the appropriation to the International Cooperation Administration.

PL 480 TITLE III

Title III of PL 480 authorizes the U. S. Commodity Credit Corporation to donate foodstuffs in surplus supply to non-profit voluntary agencies for use in the assistance of needy

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persons, both within and without the United States. As of December 31, 1960, there has been shipped to India for free distribution to the poor and needy, $113·1 million (Rs. 51·5 crores) worth of milk, butter, cheese, cottonseed oil, beans, wheat flour, corn, corn meal and rice.

DEVELOPMENT LOAN FUND

The Development Loan Fund (DLF) was established by the U.S. Congress in 1957 under the Mutual Security Act of 1954, as amended. Its purpose is to provide long-term development loans to economically less-advanced, friendly countries.

Loan terms and conditions are flexible. DLF is an independent agency.

Loan agreements totalling $471·9 million (Rs. 224·6 crores) were signed with the Govt. of India upto April 1961 under the DLF operations.

The loans are repayable in either dollars or rupees at the option of the Indian Government. The amortization period on some of the loans is as long as 21 years. Interest charges on loans for profit-making enterprises have been 5½ or 5¾ per cent. Interest is 3½ per cent on the loans to be utilized for so-called "social overhead" projects, in which the benefits are diffused to the community at large (such as transportation facilities and public power utilities).

Loans have been given for modernization and expansion of the railways, for the manufacture of buses, trucks and jeeps, cement plants, jute plants, steel imports, equipment for power development, metallurgical, mineral, chemical, cement, machinery, textile, sugar, paper industries.

EXPORT-IMPORT BANK CREDITS

Created in 1934, the Export-Import Bank operates under the Export-Import Bank Act of 1945 as amended. Its basic purpose is to facilitate and assist in the financing of Export-Import trade between the United States and other countries. As the principal foreign lending arm of the United States Government, proceeds of loans made by it are used for the purchase of capital equipment and related services in the Unilted States.

A late comer to India, except in the capacity as agent for the United States in handling the $189·7 million wheat loan in 1951, the Export-Import Bank authorized a line of credit of $150 million (Rs. 75 crores) in favour of the Government of India in February, 1958. This loan was for the purpose of providing India with dollar exchange to make purchases in the United States of capital equipment in the fields of industry, agriculture, power, communications, transportation and port development.

In November 1957, the Bank issued a loan of $1·8 million to the National Rayon Corpn., and one of $60,000 to the Sundatta Cotton Seed Utilization Co. In the year 1960 three loans were made: Hindustan Aluminium Ltd. (Kaiser-Birla), $13·6 million; Air India International, $4·1 million; and a $50 million additional line of credit to the Government of India. Thus by December 31, 1960, loans from this source totalled $219·5 million.

In addition to its dollar lending operations, the Export-Import Bank is authorized to extend rupee credits to private enterprises in India under certain conditions. As of December 31, 1960, ten such loans had been made, for a total of Rs. 110,700,000.

JOINT INDO-AMERICAN PROGRAMME

The Indo-American Programme consists of aid authorized under the Mutual Security Act and the former Act for International Development and administered by the International Cooperation Administration (ICA) and its predecessor agencies. The provisions under which the aid is made available to India are set forth in the POINT FOUR GENERAL AGREEMENT FOR TECHNICAL COOPERATION BETWEEN INDIA AND THE UNITED STATES OF AMERICA signed on December 28, 1950 and THE INDO-UNITED STATES TECHNICAL COOPERATION AGREEMENT signed on January 5, 1952.

As of December 31, 1960 the contribution of the United States to India through the Indo-American Programme totalled $483·2 million (Rs. 230 crores*). Of this amount, $332·0 million (Rs. 158·2 crores) were given as grants and $150·0 million (Rs. 71·74 crores) were made available in the form of long-term, low-interest loans repayable in rupees.

To this 483·2 million dollars must be added 5·5 million dollars of emergency flood relief and 408·3 million dollars of Development Loan Fund, thus making a total of 897·0 million dollars.

The total amount of 483·2 million dollars can be broken up as follows (in million dollars):—

Technical Co-operation 79·0; Development Assistance 334·5; Special Assistance for Malaria Eradication 47·5; Asian Economic Development Fund 22·2.

The Government of India contributes the rupee costs of joint projects. These include local construction costs, purchase of project sites, transport and handling charges within-India of U.S. financed imports, a portion of the within-India support costs for U.S. project technicians and the salaries of Indian personnel working on Joint Indo-American Projects as well as salaries and other rupee costs of Indian personnel who are sent to the U.S. and third countries for training.

Joint projects under the Indo-American Programme have been in support of India's Five-Year Plans. The project proposals are initiated by the operating ministries of the Government of India and approved by the Technical Cooperation Mission (TCM), the representative of ICA in India, and by the Ministry of Finance acting in accordance with the broad policies set forth by the Planning Commission, which are designed to ensure coordination between these projects and the economic development programme of the country.

At the request of the Government of India, the United States has been providing assistance to help India improve the standard of living of the people. This aid has taken a variety of forms—from providing the consultation services of a single American specialist on audio-visual techniques to the financing of $20 million worth of capital equipment imports for the Orissa Iron Ore Project. U.S. aid has played a supporting role in many areas of India's development—from railways to mining, from seed improvement to malaria eradication, and from the training of future university professors to instruction in industrial crafts. The forms of United States economic aid to India have changed with the changing needs of India as well as changes by the U.S. Government in the methods of administration of its foreign aid programmes.

The first shipment of aid commodities arrived in 1951.

Since the inception of the Indo-American programme, heavy emphasis has been placed on agriculture. Emphasis has also been given to the problems of industrial development.

The signing in 1958 of an agreement for the conversion from the programme of malaria control to one of nationwide eradication established this as the major activity in the field of health over the next four or five years.

The Indo-American programme has been financed from appropriations to ICA for Development Assistance, Technical Cooperation, the Asian Economic Development Fund and Special Assistance in support of the Malaria Eradication Programme of the Indian Government.

TECHNICAL ASSISTANCE

Below we give a summary of the assistance provided under the Indo-American Technical Assistance Programme. The position is as on June 30, 1960. The first figure indicates the obligation and the figure within brackets, the expenditure:

	(In 000's of dollars)
I. Agriculture and Natural Resources	
Acquisition & Distribution of Fertilizers	17,295 (17,295)
Acquisition & Distribution of Iron & Steel for Agricultural purposes ..	19,770 (19,770)
Plant Protection & Locust Control	584a (584a)
Determination of Soil Fertility & Fertilizer Use	461 (437)
Expansion & Modernization of Marine & Inland Fisheries	2,610 (2,488)
Groundwater Irrigation..	18,265 (18,265)
Agricultural & Home Science Extension & Training	959 (923)
Development of Forest Research & Desert Afforestation	356 (356)
River Valley Development	7,187 (7,187)
Groundwater Exploration	3,916 (3,916)
Training in Agricultural Machinery Utilization	117 (111)
Agricultural Education & Research	8,942 (5,158)
Modern Storage of Foodgrains	1,336 (1,334)
Engineering Services to the Damodar Valley Corporation	95 (95)
Technical & Engineering Advisory Services to Central Water and Power Commission ..	44 (43)
Livestock Improvement	348 (328)
Agricultural Information, Production & Training	173 (172)
Agricultural Economics Research	152 (101)
Water Resources Survey and Minor Irrigation Works	414 (414)
Augmenting Fertilizer Supply	3,800 (3,800)
Crop Production & Development	151 (129)
Farmers' Organisation ..	9 (—)
Dairy Development ..	765 (610)
Calcutta Milk Scheme ..	440 (351)
U.P. Agricultural University	782 (10)
Cooperative Membership Education	30 (25)
Soil and Water Conservation	17 (2)
Fertilizers	7,816 (7,816)
Fertilizers	5,476c (3,414c)
Total Agricultural & Natural Resources..	102,310 (95,134)

* Conversion rate used is $1 equals 4·762 rupees.

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	(in 000's of dollars)
II. Industry and Mining	
Development of Forest Research & Desert Afforestation	131 (112)
River Valley Development	760 (746)
Building Materials Development	5 (5)
Exploratory Lignite Excavation & Development	579 (579)
Augmenting Steel Supply	41,054 (41,054)
Training Construction Equipment Operators & Mechanics	323 (221)
Rihand Valley Development	5,902 (5,902)
Improvement of Rajasthan Power Facilities..	1,046 (1,046)
Industrial Research & Technical Service Organisations	2,983 (2,937)
Survey of Sindri Expansion	27 (27)
Industrial Technical Services	1,887 (1,887)
Electric Distribution Systems, Maintenance Training Centres ..	436 (285)
Flood Control	125 (125)
Technical Services in Water Resources & Power Development ..	116 (62)
Technical Assistance to Irrigation Research Institute	85 (85)
Small Industries Development	819 (430)
Steel Casting Foundry ..	1 (1)
Telecommunications Development	47 (47)
Indian Productivity Centre	859 (106)
Delhi Thermal Plant ..	4,000 (172)
Geological Survey of India	126 (126)
Assistance to Coal Industry	25 (—)
Orissa Iron Ore Development	20,000 (—)
Mineral Development ..	1,149 (1,127)
Tubewell Casting ..	1,957 (1,957)
Cement	6,504 (6,217)
Rural Electrification ..	2,992 (2,992)
Total Industry and Mining ..	93,938 (68,248)
III. Transportation	
Railway Rehabilitation and Expansion ..	75,452b (74,452b)
Expansion of Aviation Ground Facilities ..	2,687 (1,940)
Indian Airlines	3 (2)
Total Transportation	77,142 (76,394)
IV. Labour	
Establishment of a Central Labour Institute ..	83 (83)
Training Construction equipment operators and mechanics ..	425 (425)
Study of the Effects of Thermal Environment Conditions	14 (14)
Trades Training	641 (641)
Industrial Safety ..	1 (—)
Bombay Central Training Institute for Craftsmen and Instructors ..	50 (—)
Total Labour	1,214 (1,163)

	(in 000's of dollars)
V. Health and Sanitation	
Malaria Control	27,650 (27,650)
National Water Supply & Sanitation Programme	5,987 (5,967)
Medical Colleges & Allied Institutions	789 (789)
Health Instruction Training Centres	27 (27)
Control of Filaria ..	2,400 (2,400)
Medical Education ..	124 (70)
General Nursing	34 (21)
Health Education ..	27 (14)
Insect Borne Disease Control	15 (7)
Malaria Eradication ..	37,681 (29,844)
Total Health & Sanitation ..	74,734 (66,789)
VI. Education	
Technical Education Institutions	3,446 (1,693)
Home Science Education and Research	1,078 (644)
Extension Training Programme for Secondary School Teachers ..	1,635 (1,356)
Foundry Training ..	171 (171)
Educational Administration	60 (60)
School Building Improvement	7 (7)
Rural Institutes	135 (23)
National Institute of Basic Education ..	16 (15)
Training in Adult Education	23 (23)
Central Institute of Education	9 (9)
Teachers Training in Audio-Visual Education	150 (139)
National Professional Education Centre ..	392 (69)
Indian Institute of Technology, Kanpur ..	2,109 (68)
National Programme of Professional Education	102 (—)
Total Education	9,333 (4,277)
VII. Public Administration	
Procurement Consultation Services	2 (2)
Improved Operating Statistics & Reports ..	13 (13)
Indian Statistical Institute	3 (3)
Organisation and Management	1 (—)
Total Public Administration ..	19 (18)
VIII. Community Development, Social Welfare & Housing	
Community Development Programme	13,519 (13,519)
Building Materials Development	160 (160)
Demonstration of Improved Methods of Low Cost Housing Construction	47 (47)
Social Welfare	537 (406)
Total Community Development, Social Welfare and Housing	14,263 (14,132)

	(In 000's of dollars)
IX. General and Miscellaneous	
Nuclear Research ..	671 (558)
All-India Investment Centre	713 (—)
Electrical Apparatus and Clay Products	575c (575c)
Total General and Miscellaneous	1,959 (1,133)
Wheat	52,183 (52,183)
Cotton	15,591 (15,591)
Participants	8,926 (4,673)
Technicians, Programme Direction and Technical Support-Activity ..	24,041 (23,385)
Grand Total	475,653d (423,120)

a. Includes $28,500 from Regional Allotment. b. Includes $8·5 million not covered by project agreement. c. Represents triangular trade transactions. d. Excludes U.S. fiscal year 1955 allotment of $109,000 for flood control.

	(In 000's of dollars)
General Commodity Imports, Total (Non-Project Assistance) ..	121,162
Total Project and Non-Project Type Assistance under Indo-American Programme	4,96,833
Flood and Famine Relief and Ocean Freight on P.L. 480 Title II Commodities Financed by ICA	5,500
Grand Total Aid to India Authorized by Mutual Security Legislation ..	502,333

Note : Not included in above figures are $6·0 million representing sales for rupees of commodities purchased by ICA with foreign currencies obtained from the sale in third countries of U.S. surplus agricultural commodities under P.L. 480 Title I—Section (*d*).

U. S. TECHNICIANS

U.S. technicians working in India on a regular two-year tour of duty or for a short period of consultation may be hired directly as members of the TCM staff or their services may be provided under the terms of a contract negotiated with an American University or an engineering firm. In addition to the technicians working with their Indian counterparts, TCM has a small administrative staff whose salaries as well as the expenses incident to their being stationed abroad are paid by the International Co-operation Administration in Washington. A total of 188 Americans were employed by TCM as of December 31, 1960. Of this total, 27 had administrative responsibility within TCM and 161 programme personnel were working on the joint Indo-American projects or in project-support positions in TCM. Of the latter, 97 were "direct hire" and 64 were hired under contract arrangements.

Generally speaking, the U.S. programme technician on the project to which he is assigned works in close co-operation with one or more Indian counterparts.

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Programme personnel (U.S. Technicians) assigned to India by field of activity from 1952-60 are given in the table below:

U.S. Fiscal Year ending June 30.

Field	1952	1953	1954	1955	1956	1957	1958	1959	1960
Agriculture and Natural Resources	34	43	30	35	54	76	76	53	27
Industry and Mining	10	25	31	52	52	58	40	27	10
Transportation	—	—	—	1	12	2	1	1	—
Labour	—	—	1	2	1	3	2	—	—
Health and Sanitation	4	6	8	9	13	22	18	24	8
Education	11	1	14	21	27	16	9	11	12
Public Administration	—	2	2	4	6	—	1	2	—
Community Development, Social Welfare and Housing	3	12	13	13	10	9	6	9	3
General and Miscellaneous	2	6	8	4	7	21	12	13	—
TOTAL	64	95	107	141	182	207	165	140	60

Grand Total from 1952–60 : 1,161.

INDIAN PARTICIPANTS

Since 1951 there have been 2,506 Indian participants in the Joint Indo-American exchange programme who have already been abroad or who are preparing to depart. Of this total, 1,416 Indian participants completed their advanced training in the United States or third countries and returned to India to carry on work in their particular fields. As of June 30, 1960, another 409 participants were still in training in the U.S. and 681 participants were preparing to leave for further study abroad under the programme.

The nature of participant training is very broad and ranges from a three months programme in tropical forestry in Puerto Rico to an intensive two-year training programme for future professors of engineering at a leading American university.

The sponsoring authority in India should be prepared to bear the following rupee costs: Salaries of trainees during the period of training; Cost of travel between the place of duty and the Indian port; Incidental expenses, *e.g.* fees for passport, medical certificates, etc.

Until recently, primary emphasis was on the agriculture and natural resources fields. However, in 1959, predominance shifted to the industrial field where 121 participants were processed for the National Productivity Council Project alone and another 100 were processed for the steel training project in co-operation with the Ford Foundation. Under the Teacher Training in Engineering Education Project 150 more participants were also processed in 1959.

The figures for trainees as from 1953 are shown below :—

Year ending June 30.

Field	1953	1954	1955	1956	1957	1958	1959	1960	TOTAL
Agriculture and Natural Resources ..	45	54	57	30	85	141	159	148	757
Industry and Mining	25	24	17	32	15	41	237	434	859
Transportation ..	2	1	1	6	18	12	13	—	69
Labour	7	17	4	9	—	—	2	8	65
Health	37	8	3	13	1	49	48	64	249
Education	33	5	32	13	8	105	173	94	475
Public Administration ..	—	—	—	2	4	1	—	—	12
Community Development, Social Welfare and Housing	3	—	—	—	—	9	—	—	12
General and Miscellaneous ..	—	—	1	3	1	—	—	—	3
TOTAL ..	152	109	115	108	132	358	632	748	2,506

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PRIVATE ORGANIZATIONS

Ford Foundation

The Ford Foundation has been giving grants since 1951.

The total grants upto December 31, 1960 were $41·3 million (Rs. 19·7 crores). Some of the more important projects for which grants were given are: English Language Teaching Institute, Hyderabad; extension service departments in secondary teachers training colleges; expert advice on a regional plan for Delhi; training of Indian engineers in the U.S. steel plants; training and demonstration in the development of small scale industry—the equipment of the Small Industry Service Institutes; community development in rural areas.

Rockefeller Foundation

The total grants upto December 31, 1960 were $10·3 million (Rs. 4·9 crores). The aid is in the form of travel grants and fellowships. The assistance to institutions and projects is mainly in the field of health—control of hookworm and malaria, development of rural health centres, rural sanitation, nursing education, nutrition, public health laboratory service. The institutions are: All India Institute of Hygiene, Calcutta; Virus Research Centre, Poona; Indian Agricultural Research Institute, New Delhi; Institute of Medical Sciences, New Delhi.

U. N. AID TO INDIA

IN general U.N. Aid to India is provided by the United Nations and the U.N. Specialized Agencies through the following Programmes: 1. Expanded Programme of Technical Assistance (U.N. Technical Assistance Board); 2. Individual programmes of aid by the United Nations and the Specialized Agencies under their Regular Budgets; 3. Special Programmes such as UNICEF (United Nations Children Fund); 4. United Nations Special Fund.

During 1959, under the Expanded Programme, the total amount provided for assistance to India, by the U.N. including local costs, was $2,484,976.

The Government of India pledged and paid a contribution of $525,000 to the entire Expanded Programme, as also an amount equivalent to $148,858 towards local costs for the year 1959. The contributions pledged by all Governments to the Expanded Programme of Technical Assistance for 1959 were $31,307,200.

The contributions by all Governments to EPTA for 1960 were $33,015,815, of which the Indian contribution was $750,000. In addition the Government was expected to contribute approximately $178,345 in 1960 towards the local living expenses of experts.

In addition to the technical assistance given under the EPTA, the costs of technical assistance provided by some of the Participating Organizations under their Regular and other Programmes for 1959 from their own regular annual budgets were: UNTAO $75,000, UNESCO $50,000 (Reg. 1959) $180,074 (Participation Programme 1959-1960) WHO $328,165 (Reg. Programme) $238,528 (Malaria Eradication Special Account, 1959).

The total amounts obligated under the Expanded Programme during 1959 classified under different agencies are as follows: (figures in U.S. dollars); UNTAO: 407,265; ILO 308,128; FAO 305,489; UNESCO 883,072; ICAO 52,087 and WHO 518,177: Total 2,484,976.

During 1959, 150 experts were engaged under the Expanded Programme and 54 under the Regular Programme: 35 by UNTAO, 10 by ILO, 37 by FAO, 28 by UNESCO, 1 by ICAO, 82 by WHO and 1 by ITU.

During the same period 112 Indian nationals were recruited by the various agencies under the Expanded Programme and 40 under Regular Programme: UNTAO 23; ILO 8; FAO 38; UNESCO 20; ICAO 6; WHO 50; ITU 4 and WMO 3.

The total fellowships awarded to Indians both under the Expanded and Regular Programmes during the year were 166: TAO 100; ILO 11; FAO 11; UNESCO 16; WHO 26 and ITU 2.

India gave facilities to 142 fellows from various countries under the Expanded and Regular Programme: TAO 36; ILO 5; FAO 6; UNESCO 8; WHO 85 and IAEA 2.

Subjects in which technical assistance was offered were:

TAO: Statistics (Quality Control, Mathematical Statistics, Installation Engineers of various types of equipment), Earthmoving Equipment, Power Distribution, Mining and Geology, Dam Designs, DDT. Plastic Moulds, Lighthouse Engineering, Housing Documentation, Demography, Rehabilitation for Physically Handicapped, Community Development, Natural Resources Development and Power, Port Development, Area Surveys, Savings Surveys, Materials Substitution, Lead Pencils and Electrical Signalling Equipment.

ILO: Manpower Organization including Vocational Training, Employment Information, Occupational Classification, Apprenticeship, Instructor Trainers Productivity, Industrial Relations, Teaching Techniques, Unemployment and Underemployment Statistics.

FAO: Irrigation and Farm Management, Land Reform, Dairy Engineering, Milk Marketing, Dairy Management, Milk Ejection, Artificial Insemination, Livestock, Hides and Skin, Forest Industries, Sandalwood Spike Diseases, Agricultural Statistics, Fisheries (in various branches such as Marine Fisheries Biology, Fish Marketing, Fish Training, Fish Technology, Naval Architects, Harbour Specialists and Fleet Manager), Underwater exploration, Soil Conservations, Food Technology, Dietetics, Home Economics, Animal Gynaecology, Fruit Concentrates, Nutrition.

UNESCO: Metallurgy, Hydraulics, Chemical Engineering, Ship Model Testing, Electronics, Mechanical Handling, Exploratory Geophysics, Switchgear Design, Instrumentation, Electro-Chemistry, Industrial Electronics, Vacuum Technology, Silicate Technology, Non-ferrous Metallurgy, Mechanic Tools, Fuel Technology, Steel Metallurgy, Chemical Engineering, Plant Design, Steam Turbines, Furnace Design, Scientific Translation.

ICAO: Radar Training.

ITU: Research in modern methods of common central switching.

WHO: National Tuberculosis Programme; Tuberculosis Control and Training Centre, Nagpur, and Hyderabad; Tuberculosis Chemotherapy Centre, Madras; Assistance to the All-India Institute of Mental Health, Bangalore; Public Health Engineering, University of Madras; Environmental Sanitation, Uttar Pradesh and Kerala; Health Education (Ministry of Health in co-operation with Ministry of Education), Vital and Health Statistics, Nagpur; Professors in Preventive and Social Medicine; Refresher Courses for Nurses; Nursing Education (Public Health Integration); Dental Health, Health Education, States of Bombay,* Uttar Pradesh, Bihar; Nursing Advisers to States (Madhya Pradesh, Madras and Punjab); Medical education in Non-clinical Subjects; Paediatric Education.

Among the Institutions that benefited were: Indian Statistical Institute, Calcutta; Roorkee University; National Building Organization; Demographic Training and Research Centre; National Council of Applied Economic Research; All India Institute of Physical Medicine and Rehabilitation; Council of Scientific and Industrial Research; Central Training Institute, Koni Bilaspur; Indian Agricultural Research Institute; National Physical Laboratory; Banaras Hindu University; Engineering College, Poona; Indian School of Mines and Applied Geology, Dhanbad; Indian Institute of Technology, Bombay and Kharagpur; All India Institute of Hygiene and Public Health; International Statistical Education Centre; National Productivity Centre; Forestry Research Institute: All India Institute of Basic Education.

Some of the fields of activity in which the United Nations technical assistance programme co-operated with India during 1959 are:

Fisheries specialists from Norway, Japan and United States of America are working in India for expansion of modernization of Marine and Inland fishing industry. These specialists have been to different parts of the country—to Maharashtra, Gujarat State, Madras, Cochin and West Bengal, advising on modernization of boats, equipment and harbour facilities, adapting their suggestions to the needs of each region.

American, British, Soviet and Yugoslav experts are working on the staff of India's higher institutes of technology.

Specialists from many countries are participating in public health, malaria eradication and nurse training programmes of the country.

In the field of productivity, experts under other programmes are working in close co-operation with the ILO experts.

The experts in Area and Savings Survey worked in cooperation with the Ford Foundation experts.

The allocation for the year 1959 for various UNICEF assisted projects in India is $5,105,700. Total assistance from UNICEF from 1948 to 1959 amounts to $27,808,057. The assistance provided is in the form of equipment and supplies for the following: Child Nutrition Project; Orissa Milk Conservation Programme, Bombay, Bangalore, Ahmedabad and Rajkot; pre-school and school feeding programme; nutrition education and related activities, Andhra Pradesh; DDT Plant, Delhi; Tuberculosis Control Programme, BCG Vaccination Programme and the national programme for the development of health services in relation to community development.

India contributed Rs. 23,00,000 to UNICEF in 1959, besides a grant of Rs. 5,00,000 for the maintenance of the UNICEF local office.

United Nations Special Fund was created in October 1958 for large scale technical assistance

* Bilingual.

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projects designed to have immediate impact on economic and social development of the less developed countries.

The total amount of contributions pledged by the Member countries for 1959 was $25,814,187 and for the year 1960 it was $37,712,754. For each of the years 1959 and 1960 the Government of India have pledged a contribution equivalent to $1,750,000.

During 1959, the Special Fund allocated $4,004,850 for assisting the following four projects (1) Central Training Institute for Industrial Instructors, Calcutta: $1,033,250; (2) Power Engineering Research Organization, Bangalore and Bhopal: $1,928,800; (3) Mechanical Engineering Research Institute, Durgapur: $691,400; and (4) Regional Labour Institutes, Kanpur, Calcutta and Madras: $351,400. In May 1960, the Governing Council of the Special Fund approved five more projects for India, the total allocation being $4,516,700. The projects are (1) An all India Scheme for Investigations of Potential Hydro-Electric sites: $2,361,400; (2) The Higher Fisheries Training Institute, Bombay: $610,300; (3) The Calcutta Water Supply Project: $324,100; (4) Central Mining Research Station, Durgapur: $695,900 and (5) the Central Public Health Engineering Institute, Nagpur: $525,000. In Dec. 1960 the Fund approved a grant of 3·78 million dollars for four projects in India: the Central Scientific Instruments Organization, Delhi, the Cavitation Research Centre, Poona, the National Aeronautical Research Laboratory, Bangalore, and the Vocational Training Scheme for Industrial Trades.

During 1959, the International Bank for Reconstruction and Development (World Bank) loaned to India a total of $60 million on the following basis: Railway loan $50 million 20 year 6 per cent loan of July 15, 1959 and Industrial loan $10 million 10 year loan of July 15, 1959.

Loans disbursed to India by the World Bank upto end of 1959 amount to $502,056,252.

Under the U.N. expanded technical assistance programme of UNESCO a sum of $ 1,545,000 is expected to be available for the two-year period 1961-62, which would be given in the form of experts, fellowships and equipment.

Statistical Summary of UNTAA Activities in India from July 1952—May 1960

	Assistance Received				Assistance Provided		
Year	Project costs[1]	No. of experts in field	No. of fellowship awards	Equip. and Supplies Provided[2]	Pledges to the Special Account	Experts recruited from country	Fellowship placement in country
	$				$		
1952 ..	1,045,248	136	105	..	275,000	84	93
1953 ..	1,015,089	123	85	..	275,000	53	34
1954 ..	562,802	59	44	..	300,000	50	24
1955 ..	944,726	80	81	245,977	400,000	59	109
1956 ..	1,933,351	110	208	687,981	450,000	89	118
1957 ..	1,906,613	137	141	499,425	500,000	100	109
1958 ..	2,579,206	146	71	1,229,916	525,000	109	85
1959 ..	2,484,976	152	130	826,421	525,000	112	54
1960 ..	1,811,581	..	..	..	750,000	..	..

[1] 1960 project costs are approved figures.

[2] Information not available before 1955.

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FOREIGN AID TO INDIA

TOTAL external assistance (excluding assistance under the P.L. 480) authorised to India between August 1949 and December 1960 by the I.B.R.D. and foreign governments and institutions totalled Rs. 2,727* crores. Among the countries from whom assistance was received were the U.S.A., the U.K., the U.S.S.R., Canada, Australia, New Zealand, West Germany, Japan, Czechoslovakia, Rumania, Yugoslavia, Norway and Poland (Table I below). Assistance so far specifically earmarked for the Third Plan totalled Rs. 370 crores, extended by the U.S.S.R., Yugoslavia and Czechoslovakia.

TABLE I

Figures relating to foreign aid from various sources upto 31st December 1960. (Table continues on next page). (Figures in lakhs of Rupees)

Source.	Authorisation upto 31-3-1956.		Estimated utilisation to end of 31-3-1956.		Balance of unutilised aid as at the end of 31-3-1956.		Aid authorised from 1-4-1956 to 31-3-1960		Total available utilisation during the Second Plan.	
	Loan.	Grant.	Loan.	Grant.	Loan.	Grant.	Loan.	Grant.	Loan.	Grant.
I. *U.S.A.*										
a) Wheat Loan ..	9,031	—	9,031	—	—	—	—	—	—	—
b) T.C.A. Programme	3,928	9,075	229	4,200	3,699	4,875	3,215	4,401	6,914	9,276
c) P.L. 480 ..	—	—	—	—	—	—	24,212	10,029	24,212	10,029
d) Development Loan Fund	—	—	—	—	—	—	9,285	—	9,285	—
e) U.S. Banks Credit..	—	—	—	—	—	—	533	—	533	—
f) Exim Bank ..	—	—	—	—	—	—	7,143	—	7,143	—
II. *U.S.S.R.*										
a) Bhilai Steel Plant ..	6,438	—	—	—	6,438	—	—	—	6,438	—
b) Industrial Steel Projects	—	—	—	—	—	—	5,953	—	5,953	—
c) Drugs Project ..	—	—	—	—	—	—	949	—	949	—
d) Oil Refinery, Barauni	—	—	—	—	—	—	1,190	—	1,190	—
e) Grants for Machinery	—	—	—	—	—	—	—	115	—	115
f) Credit for Third Plan	—	—	—	—	—	—	17,858	—	17,858	—
—do.—	—	—	—	—	—	—	—	—	—	—
III. *United Kingdom*										
a) Under Colombo Plan	—	39	—	3	—	36	—	8	—	44
b) ECGD Credit for Durgapur Steel ..	—	—	—	—	—	—	2,000	—	2,000	—
c) Lazard Credit for Durgapur Steel ..	—	—	—	—	—	—	1,533	—	1,533	—
d) II-ECGD Credit for Capital Goods ..	—	—	—	—	—	—	3,800	—	3,800	—
e) III-ECGD Credit for Oil Pipe Line ..	—	—	—	—	—	—	400	—	400	—
f) IV-ECGD Credit ..	—	—	—	—	—	—	2,533	—	2,533	—
g) U.K. India (General) Credit	—	—	—	—	—	—	—	—	—	—
h) New Loans for import of Capital Goods..	—	—	—	—	—	—	—	—	—	—
—do.—	—	—	—	—	—	—	—	—	—	—
IV. *Canada*	—	3,234	—	1,970	—	1,264	1,571	4,633	1,571	5,897
V. *Australia*	—	1,108	—	520	—	588	—	119	—	707
VI. *New Zealand* ..	—	172	—	33	—	139	—	171	—	310
VII. *West Germany*										
a) Rourkela	—	—	—	—	—	—	7,483	—	7,483	—
b) Other Credits ..	—	—	—	—	—	—	1,905	—	1,905	—
c) Okhla & I.I.T., Madras	—	—	—	—	—	—	—	209	—	209
d) First Credit DM. 125·1 million ..	—	—	—	—	—	—	—	—	—	—
e) Second Credit ..	—	—	—	—	—	—	—	—	—	—
f) Assistance for Third Plan	—	—	—	—	—	—	—	—	—	—
VIII. *Japan*	—	—	—	—	—	—	2,761	—	2,761	—
IX. *Czechoslovakia* ..	—	—	—	—	—	—	2,310	—	2,310	—
X. *Rumania*	—	—	—	—	—	—	523	—	523	—
XI. *Yugoslavia*	—	—	—	—	—	—	1,905	—	1,905	—
XII. *Norway*	—	66	—	66	—	—	—	153	—	153
XIII. *Poland*	—	—	—	—	—	—	—	—	—	—
XIV. *I.B.R.D.*										
a) Public Sector ..	3,200	—	2,900	—	300	—	15,410	—	15,710	—
b) Private Sector ..	2,570	—	480	—	2,090	—	7,014	—	9,104	—
XV. *Ford Foundation* ..	—	561	—	226	—	335	—	507	—	842
XVI. *U.N. Special Fund*	—	—	—	—	—	—	—	131	—	131
TOTAL	25,167	14,255	12,640	7,018	12,527	7,237	1,21,486	20,476	1,34,013	27,713

Third Country Currency Assistance from U.S.A.

Allocations upto 31-3-1960 Rs. 2·88 crores

* Including gross assistance under P.L. 480 this would amount to Rs. 2,946 crores.

This statement excludes:—

(1) Assistance received in the form of suppliers' credit *e.g.*, from Japan, France, Switzerland. (2) Rockefeller Foundation. (3) Gift Shipments from Private Voluntary Agencies in U.S.A. (4) Assistance under Titles II and III of P.L. 480. (5) Assistance from Netherlands being mostly in the nature of Technical Assistance. (6) Switzerland aid for Logging equipment valued approximately Rs. 1·6 lakhs.

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(Figures in lakhs of Rupees)

Estimated utilisation between 1-4-1956 and 31-3-1960		Balance available as at the end of 31-3-1960		Authorisations after 31-3-1960		Total authorisations from inception to December 1960	
Loan.	Grant.	Loan.	Grant.	Loan.	Grant.	Loan.	Grant.
—	—	—	—	—	—	9,031	—
4,542	6,713	2,372	2,563	—	265	7,143	13,741*
2,805	28	21,407	10,001	26,798	26,798	51,010	36,827**
4,358	—	4,927	—	10,686	—	19,971	—†
533	—	—	—	57	—	590	—
1,106	—	6,037	—	2,576	—	9,719	—
						97,464	50,568
6,438	—	—	—	—	—	6,438	—
128	—	5,825	—	—	—	5,953	—
—	—	949	—	—	—	949	—
—	—	1,190	—	—	—	1,190	—
—	115	—	—	—	—	—	115
—	—	17,858	—	—	—	17,858	—††
—	—	—	—	5,953	—	5,953	—††
						38,341	115
—	41	—	3	—	—	—	47
2,000	—	—	—	—	—	2,000	—
1,333	—	200	—	—	—	1,533	—
3,800	—	—	—	—	—	3,800	—
229	—	171	—	—	—	400	—
880	—	1,653	—	—	—	2,533	—
—	—	—	—	1,333	—	1,333	—
—	—	—	—	667	—	667	—††
—	—	—	—	4,000	—	4,000	—††
						16,266	47
1,571	4,802	—	1,095	—	1,190	1,571	9,057
—	615	—	92	—	—	—	1,227
—	289	—	21	—	—	—	343
5,367	—	2,116	—	—	—	7,483	—
1,897	—	8	—	—	—	1,905	—
—	34	—	175	—	—	—	209
—	—	—	—	1,418	—	1,418	—
—	—	—	—	1,418	—	1,418	—
—	—	—	—	2,834	—	2,834	—††
						15,058	209
397	—	2,364	—	—	—	2,761	—
—	—	2,310	—	—	—	2,310	—††
—	—	523	—	—	—	523	—
—	—	1,905	—	—	—	1,905	—††
—	153	—	—	—	—	—	219
—	—	—	—	1,430	—	1,430	—††
10,672	—	5,038	—	3,334	—	21,944	—
7,932	—	1,172	—	—	—	9,584	—
—	371	—	471	—	352	—	1,420
—	—	—	131	—	285	—	416
55,988	13,161	78,025	14,552	62,504	28,890	2,09,157	63,621

Disbursement upto 31-3-1960
Rs. 1·90 crores.

* This includes :—

(1) The amount of Rs. 31·92 crores representing the rupee equivalent of the dollar value of Agricultural Commodities imported under P.L. 665. Out of this amount a sum of about Rs. 18·99 crores is expected to be received as a part of the three Development Assistance Loans, and the rest is to be received either in the form of grants for agreed projects or to be utilised by T.C.M. for meeting rupee expenditure on technicians and participants, etc. (2) $20 million loan for Orissa Iron Ore Project. (3) Excludes amounts obligated towards U.S. technicians, participants and miscellaneous.

** This excludes :—

Cooley Funds and amounts retained by the U.S. Government.

† This excludes amount of $3·9 million granted direct to Ahmedabad Electricity Co. Ltd.

†† Amounts specifically earmarked for Third Plan.

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I.B.R.D.

Between August 1949 and December 1960 the I.B.R.D. authorised 25 loans for Rs. 324 crores — Rs. 219 crores to the public sector and the remainder to the private sector (Table II). Drawings till the end of September 1960 amounted to Rs. 244 crores, the share received by the public sector being of the order of Rs. 157 crores.

TABLE II

I.B.R.D. Loans.

Year of Loan Agreement.	Principal Amount* (Net of cancellations).	Purpose	Period (in years)	Interest.	Commencement of Amortisation
1. 1949 August ..	32·8(15·6)	Railway rehabilitation (I)†	15	4 %	1950
2. 1949 September ..	7·2(3·4)	Agricultural Development†	7	3½%	1952
3. 1950 April	16·7(8·0)	Electric Power Development (Damodar Valley Corpn.)†	20	4 %	1955
4. 1952 December ..	30·0(14·3)	Expansion of Iron and Steel facilities (India Iron & Steel Co.)	15	4¾%	1959
5. 1953 January ..	10·5(5·0)	Electric Power Development, Flood Control and Irrigation (Damodar Valley Corpn.)†	25	4⅞%	1956
6. 1954 November ..	14·0(6·6)	Electric Power Development (Tata Hydro, Andhra and Tata Power Companies for Trombay plant) ..	20	4¾%	1958
7. 1955 March ..	10·0(4·4)	Foreign Exchange for Development of Private industry (Industrial Credit and Investment Corporation of India)	15	4⅝%	1961
8. 1956 June	75·0(35·7)	Expansion of Steel production (Tata Iron & Steel Co.)	15	4¾%	1959
9. 1956 December ..	20·0(9·5)	Steel expansion (TISCO II)	11	5 %	1960
10. 1957 March ..	5·6(2·7)	Purchase of aircraft (AII)†	9	5½%	1964
11. 1957 May	9·8(4·7)	Electric Power Development (Trombay II)	18	5⅝%	1960
12. 1957 July	90·0(42·8)	Railway improvements (II)††	15	5⅝%	1961
13. 1957 November ..	32·5(15·5)	Expansion of steel production (TISCO II)	13½	6 %	1960
14. 1958 June	29·0(13·8)	Calcutta port improvements†	20	5½%	1963
15. 1958 June	14·0(6·7)	Madras port improvements†	20	5½%	1963
16. 1958 July	25·0(11·9)	Electric Power Development (Damodar Valley Corpn.)†	20	5⅜%	1961
17. 1958 September ..	85·0(40·5)	Railway improvements (III)†	20	5¾%	1963
18. 1959 April	25·0(11·9)	Koyna†	25	5¾%	1965
19. 1959 July	50·0(23·8)	Railway improvements (IV)†	20	6 %	1963
20. 1959 July	10·0(4·8)	Loan to I.C.I.C.I. for providing credits to private enterprises	10	6 %	1962
21. 1960 July	70·0(33·3)	Railway improvements (V)†	20	5¾%	1964
22. 1960 October ..	20·0(9·5)	Loan to I.C.I.C.I. for providing credits for productive purposes to enterprises	7	N.A.	1963
	682·1(324·4)				

* Figures in millions of dollars. Those in brackets are in Rs. Crores. † Public sector. †† Comprises four individual loans.

U.S.S.R.

Below we give brief notes on the aid from Russia.

The credit of Rs. 64 crores had been received from the U.S.S.R. for the establishment of the Steel Plant at Bhilai which was utilised by September 1959. Further, credits to the tune of Rs. 81 crores had been authorised during the years 1957 and 1959. Of this, Rs. 60 crores is intended for financing industrial projects (*i.e.* Heavy Machine Building Plant, Coal Mining Machinery Plant, Thermal Power Station at Neyveli, an Optical and Ophthalmic Glass Factory and Enterprises in the Korba Coalfields), Rs. 9 crores for Drugs Project and Rs. 12 crores for the Oil Refinery in Barauni. In addition, credits of Rs. 179 crores and Rs. 60 crores have been authorised in 1959 and 1960 respectively for financing projects under the Third Five Year Plan. A 300 m.w. thermal power project is to be set up near Ramgarh in Hazaribagh Dist., Bihar by the end of the 3rd Plan, costing Rs. 40 crores.

The new loan carries standard Soviet terms: it is repayable, in goods, over 12 years after the last shipment; the interest rate is two and a half per cent.

An agreement signed on February 21, 1961 for further aid from U.S.S.R. to the extent of Rs. 60 crores covers the following projects: Hydro-electric power station on right bank of Bhakra, oil refinery in Gujarat, washery for cooking coal at Kathara in Bihar, refractories plant near Bhilai, exploration and production of oil in Cambay, Ankleshwar and other areas.

Czechoslovakia: In November 1959 Czechoslovakia agreed to make available to India a credit amounting to Rs. 23·1 crores for the purchase and import of machinery and equipment from Czechoslovakia for (1) the third stage of the Foundry Forge Plant at Ranchi, (2) a Heavy Machine Tools building Plant, (3) a Heavy Electrical Plant, and (4) such other industrial projects as may be mutually agreed upon. The credit is specifically earmarked for the Third Plan.

This credit will be for a period of eight years and will bear an interest of 2½ per cent per annum, the first instalment becoming payable one year after the completion of the last delivery against each project. The credit will be repaid by deliveries of Indian goods such as pig iron, chemical and engineering goods, non-ferrous metals, processed and other ores and semi-finished products. The unutilized balances if any will be converted into free pounds sterling according to agreement.

France: Under the agreement concluded in January 1958, the French Government agreed to facilitate the financing of the manufacture and delivery of capital goods by the French suppliers upto 25 billion francs (about Rs. 24 crores) during the period of twelve months from the date of the agreement. Subsequently through letters exchanged in September 1959 the agreement was renewed for a further period upto January 1960 and the French Government undertook to make available financing facilities upto a further amount of 25 billion francs. The facility is in the nature of suppliers' credits for exports from France to India. The contracts relate mostly to capital equipment for fertilizer, sugar and paper making plants and electrical equipment. Assistance in the matter of equipment and training of Indians abroad is also provided.

Japan: In 1958, the Government of Japan established a line of credit amounting to 18 billion yen (about Rs. 23·8 crores) in favour of the Government of India through the Export-Import Bank of Japan for the import of capital goods from Japan. Upto November 18, 1960 loan agreements of the value of Rs. 11·8 crores have been entered into with the Export-Import Bank of Japan and loan applications to the value of Rs. 5·2 crores are pending with the Export-Import Bank of Japan. The balance has been fully covered by approvals already given for purchase of equipment required for power projects, ports, etc. In addition, the Government of Japan have made available two credits of $10 million (Rs. 4·8 crores) each. The first credit which is in the nature of a ceiling for suppliers' credits has been completely utilised while the terms and conditions of the second are yet to be negotiated.

The Government of Japan has offered Rs. 3·81 crores credit for the mining equipment required for the Orissa Iron Ore Project.

Technical assistance is also provided by the Japanese Government.

Norway: By end March 1960 the value of assistance extended by the Norwegian Government for the fishery development project in Kerala, which is based on a tripartite agreement between the United Nations and the Governments of Norway and India, amounted to Rs. 2·19 crores. This was provided in the form of financial and technical assistance *viz.* machinery, technicians, scholarships and fellowships.

Rumania: The agreement was signed on 20th Oct. 1958 by which the Government of Rumania has agreed to extend on a long-term basis a credit of Rs. 5·2 crores towards the cost of equipment and technical services required for the establishment of an oil refinery at Gauhati. The interest is 2·5 per cent. Fifteen per cent of the credit will be repaid in six instalments the first to commence 30 days after signing the agreement and the last after the refinery is able to produce the full range of products. The balance of 85 per cent will be repaid in 10 instalments, the first two commencing on 31st Dec. 1961 and the last ending on 31st Dec. 1965.

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West Germany: Total aid authorised by West Germany upto the end of December 1960 amounted to Rs. 122 crores. Of this, Rs. 75 crores were for Rourkela Steel Project and Rs. 19 crores for import of capital goods from West Germany. During 1960, two credits of Rs. 14 crores each were authorised. Excepting Rourkela Credit, which was utilised to the extent of Rs. 59 crores by the end of October 1960, all the other credits have been fully drawn by the end of December 1960.

An agreement granting India a loan of 330 million marks for the Third Five-Year Plan was signed at Bonn on April 29, 1961. The loan agreement was signed by the Indian Ambassador in West Germany.

One hundred million marks of the loan are not tied to any specific project, whereas the remaining 230 million are to help India pay the costs of industrial construction being carried out by West German firms in Rourkela.

United Kingdom: The U.K. Government have provided assistance in the form of credits totalling £122 million (Rs. 162·7 crores) for vital development projects like Durgapur Steel Plant and the Oil Pipe Line at Nahorkatiya as also the import of capital goods both for the public and private sectors. Of this about Rs. 6·7 crores is for financing a broad range of Indian imports from the U.K. during 1960-61 and about Rs. 40 crores is for financing orders to be placed in the U.K. for capital goods required for the Third Plan. Except for the last credit for Rs. 40 crores and the one for Oil Pipe Line all the others have been completely drawn by now.

Assistance in the form of grants has also been received from the United Kingdom for the supply of books and equipment valued at approximately Rs. 47 lakhs as well as experts and training facilities for Indians under the Technical Co-operation Scheme of the Colombo Plan.

Two agreements for a credit of Rs. 53 crores (£40 million), the first for a loan of Rs. 40 crores (£30 million) as an initial constitution to India's 3rd Plan and the 2nd covering a loan of Rs. 13·3 crores (£10 million) for purchase of a broad range of goods from the U.K., were signed between India and the U.K. on May 1, 1961.

Prominent among the institutions which have received aid are some of the national laboratories and research institutes; the Central Water and Power Research Station, Poona; Patel Chest Institute, Delhi; T.B. Centres, Madanapalle and Mehrauli; School of Mines and Applied Geology, Dhanbad; Coffee Research Station, Mysore; Gandhi Eye Hospital, Aligarh; Technical and Vocational Training Establishments; Geological Survey of India; Institute of Technology, Kharagpur; Silver Jubilee T.B. Hospital, Delhi; Christian Medical College Hospital, Vellore; Blood Transfusion Unit, Irwin Hospital, Delhi; Bengal Engineering College, Calcutta; Central Power Commission; the College of Engineering and Technology in Delhi which is really the expanded Delhi Polytechnic.

Canada: Since the beginning of the Colombo Plan, the Government of Canada have allocated Rs. 94·4 crores upto 1959-60 for various projects in India. With the exception of the two wheat loans in 1957-58 and 1958-59 totalling Rs. 15·7 crores the entire assistance from Canada has been in the form of outright grants. For 1960-61 aid worth $25 million has been approved. Out of this, $7 million has been earmarked for supply of wheat, $11·7 million for import of non-ferrous metals and $0·6 million for the Atomic Reactor. A sum of $3·5 million will go to the 3rd stage of Kundah Hydro-Electric Project in Madras. The remaining allocation is under consideration. The aid received so far has been used for a wide variety of projects.

Australia: The total economic assistance allocated by Australia from 1951 to June 1960 was of the order of Rs. 12 crores. In the first two years, the funds were utilised to purchase wheat and flour as well as construction equipment for the Tungabhadra Project and electrical equipment for the Ramagundam Project in Hyderabad. The allocations for subsequent years were used for the supply of radio equipment, Rail wagons, Diesel Rail Cars, etc. By the end of March 1960, nearly Rs. 11·4 crores were utilised for these projects.

New Zealand: The Government of New Zealand has been providing assistance under the Colombo Plan since 1951-52. The assistance received so far has been generally in the shape of cash grants for specified projects, though some equipment has also been supplied in a few cases. With the exception of aid amounting to Rs. 1·5 crores for the All-India Institute of Medical Sciences and Rs. 53,000 for seed dressing apparatus, all the remaining aid has been for milk supply and dairy schemes. The total aid authorised so far comes to Rs. 3·4 crores of which Rs. 3·2 crores had been utilised by the end of September 1960.

The milk supply and dairy schemes which received aid are: Delhi milk scheme; Bombay milk tankers; Patna milk scheme; Madras milk scheme; Karnal Dairy Research Institute, Punjab; Kaira Union Dairy, Gujarat; Aarey Milk Colony Hostel; Haringhatta Farm, Calcutta.

Yugoslavia: Under the agreement signed in January 1960 the Government of Yugoslavia have agreed to extend a credit of Rs. 19 crores, for the purchase of ships and for import of capital goods and equipment for projects which may be mutually agreed upon. The credit is earmarked for the Third Plan period.

Poland: According to the agreement concluded in May 1960, the Polish Government will extend a credit of Rs. 14·3 crores for the import of machinery and equipment for the construction of industrial plants which may be mutually agreed upon during the Third Plan period. The credit is specifically earmarked for the Third Plan.

Switzerland: The Swiss Government have agreed to facilitate the opening of transfer credits to the extent of Rs. 11·1 crores for payments to suppliers in Switzerland for imports of capital goods. The credit will be provided by a consortium of Swiss Banks on mutually agreed terms.

Netherlands: The Netherlands Government, by an agreement concluded in February 1959, have agreed to extend to India technical and financial assistance towards the construction of a pilot polder in the coastal region of Saurashtra. The entire scheme is expected to cost Rs. 37 lakhs out of which the Netherlands Government have agreed to defray Rs. 19 lakhs. Under another agreement concluded between the two Governments, the Netherlands Government have agreed to provide assistance valued at Rs. 12 lakhs.

Ford Foundation: Assistance made available by the Ford Foundation is in the form of grants for a broad range of development programmes both in the public and private sectors. Upto July 15, 1960 grants made by the Foundation in India totalled Rs. 19 crores, of which nearly a third has gone to private institutions and agencies and the rest to Government projects. The Government programmes which secured financial assistance from the Foundation comprised rural development, development of business and industry, education, social and economic research, strengthening of public administration and cultural interchange.

For aid from U.S. see article *U.S. Aid to India.*

India will get $2·3 billion (Rs. 1,088 crores) from the Aid India consortium for the IIIrd Plan.

EDUCATION

Note: Educational statistics are provided in a series of tables under 'Late Particulars'.

SINCE August 15, 1947 Education at the Centre has been constituted into a separate Ministry of Education. The State Governments are fully autonomous in regard to educational matters except in respect of educational development programme for which they receive grants-in-aid from the Central Government. Such programme has to be approved by the Central Government who have to examine whether it is in accord with the All-India approved educational policy.

The Ministry has offices in London, Washington, Nairobi and Bonn.

It is responsible for the four Central Universities of Aligarh, Banaras, Delhi and Visva Bharati, and some institutions of higher learning. Other departments that come within the purview of the Ministry are: UNESCO, Indian Wheat Loan Education Programme, National Book Trust, Social Welfare, Youth Welfare, Sports and Games, National Discipline, Child Welfare Scholarship Schemes, Propagation and Development of Hindi, National Archives, Indian Historical Records Commission, Institute of Audio Visual Education, Directorate of Extension Programme in Secondary Education, Rural Higher Education, National Institute of Basic Education, National Fundamental Education Centre, Delhi Public Library, the Institute of Library Science, Delhi and the Institute of Workers' Social Education, Indore.

The work of the Ministry is distributed among eight Divisions: Elementary and Basic Education, Secondary Education, Higher Education and UNESCO, Hindi, Social Education and Social Welfare, Physical Education and Recreation, Scholarships, and Administrative.

The Central Advisory Board of Education meets every year usually in January to review the progress of education in the various States. It consists of 44 members with the Union Minister of Education as Chairman. All the State Education Ministers, representatives of Parliament, Inter-University Board and other specialised bodies and educationists are members of the Board.

The Board has 5 Standing Committees to deal with various educational problems. These are: Primary and Pre-Primary Education Committee, Social Education Committee, Secondary Education Committee, Higher Education Committee and General Purposes Committee.

Some of the other educational bodies associated with the Ministry are:

All-India Council for Elementary Education, All-India Council for Technical Education,* National Council for Women's Education and the University Grants Commission.

* This is under a different Ministry.

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For secondary education, there is a division in the Ministry itself, and a subordinate office called Directorate of Extension Programmes for Secondary Education. The latter performs advisory as well as executive functions.

In the States, the Secretary, Department of Education, is the permanent head of the Department and the Director of Education acts as an expert Adviser to the Minister in charge of Education. The Director controls the inspecting staff and the teaching staff of the Government institutions. In some States the functions of Director are discharged by the Educational Officer, in others by the Education Secretary.

The authority of Government in controlling the system of public instruction is in part shared with and in part delegated to Universities, and Boards of Secondary and Intermediate Education as regards secondary education, and to local bodies as regards elementary education in some States.

The control over higher education is exercised through the University Grants Commission.

At the beginning of 1961 there were 46 universities and 14 Boards of Secondary Education.

Scientific Research, Technical Education and Cultural activities come within the purview of the Ministry of Scientific Research and Cultural Affairs.

Institutions under private management are controlled by Government and by local bodies by "recognition" and by the payment of grants-in-aid, with the assistance of the inspecting staffs employed by Government and by local bodies.

The average annual cost per student in primary, secondary and higher education was respectively Rs. 26·1, Rs. 63·3, Rs. 474·1 in 1957-58.

For every 100 rupees of the Central provision for 1960-61, 36 were for technical education, 27 for primary education, 5 for secondary education, 13 for university education, 10 for miscellaneous items and 9 for scholarships and social welfare.

Of the States and Union Territories, one set apart more than 25 per cent of its budget for education for 1960-61, nine between 20 and 25 per cent, 13 between 10 and 20 per cent, while the remaining nine less than 10 per cent.

Bombay earmarked the largest amount for education in 1960-61, followed by Uttar Pradesh, Madras, Andhra Pradesh and Kerala among the States, whereas Delhi, Tripura, Himachal Pradesh and Naga Hills Tuensang Area occupied corresponding positions among the Union Territories.

Bombay had the largest number of educational institutions in 1957-58 (69,655) as against Uttar Pradesh, a more thickly populated State, which had 42,725. On an average, for every 500 people there was one educational institution in Manipur and Tripura, one for every 700 in Assam, one for every 800 in Mysore and Orissa, one for every 900 in Bombay, Madhya Pradesh, West Bengal, Andaman & Nicobar Islands and Himachal Pradesh. Of the remaining units, seven fell in the range 1,000-1,500, two between 1,500-2,000, while in N.E.F.A. one institution catered for about 6,000 people.

Taking all institutions, for every 1,300 persons in 1949-50 there was one educational institution as against 1,000 in 1957-58.

The average expenditure on education per head of population depicts a progressive rise from Rs. 3·2 in 1950-51 to Rs. 5·9 in 1957-58, representing an increase of about 84 per cent.

Taking all types of educational institutions in the country during the year 1957-58, 11 out of every 13 were situated in rural areas. Eight universities and colleges, 70 secondary schools, 90 primary and pre-primary schools and 78 vocational and special schools, out of every 100 in each category, are located in rural areas.

Out of one lakh population of each of the Scheduled Castes, Scheduled Tribes and other backward classes, the number of persons educated beyond the matriculation stage was approximately 33, 15 and 53 respectively in 1955-56. (The figure for the total population of the country was 158). In 1959-60 as many as 61,962 such students were in receipt of scholarships as against 655 in 1947-48.

The progressive rise in expenditure on scholarships awarded to scheduled castes, scheduled tribes and other backward classes for post-matriculation studies has gone up about 55 times since the country attained independence.

It is found that 3,655 foreign students were studying at Indian universities and colleges on March 31, 1959. Of these 506 were in receipt of Government of India scholarships.

National Discipline

A great step in student discipline was taken when the National Discipline Scheme was sanctioned as a part of the educational development programme under the Second Five Year Plan. The scheme aims at infusing in the younger generation a sense of discipline and citizenship and inspiring them to moral and spiritual values which are the accepted common cultural heritage of this country.

This Scheme is in operation in the Punjab, Bombay,* West Bengal, Delhi, M.P., Kashmir and U.P. The State Governments of Bombay* and Punjab have their own schemes under the general supervision of the Central Ministry.

The number of schools where the Scheme has been extended is as follows (Jan. 1961):

Delhi and Rajasthan 179; Punjab 312; Madhya Pradesh 10; U.P. 23; Maharashtra 383; Gujarat 96; Jammu and Kashmir 17; West Bengal 70; Andaman & Nicobar Islands (Extended in Nov. 60, figures awaited). Total 1,090.

The total number of children at present under training is broken up as follows:

Delhi and Rajasthan 76,500; Punjab 198,274; Madhya Pradesh 12,239; Uttar Pradesh 12,322; Maharashtra 184,010; Jammu and Kashmir 7,721; West Bengal 35,383; Andaman & Nicobar Islands (Extended in Nov. 1960, figures awaited). Total 585,438.

Unlike other unilateral Discipline Schemes this has a wide scope and training is imparted under its five following phases:

(*a*) *Physical Training:* Through a carefully chalked out programme of physical education and games team spirit and leadership are developed among the students. Formal drill is taken to be the foundation of discipline.

(*b*) *Mental Training:* A new spirit of enthusiastic patriotism is infused into students, through lectures; the child is assisted in forming his personality and character in keeping with the country's tradition, culture and heritage.

(*c*) *Cultural Development:* The feeling of belonging to a composite culture of a nation is awakened and developed in the younger generation.

(*d*) *Organisation:* A concentrated, methodical and corporate working of the young minds is encouraged.

(*e*) *Administration:* Along with methodical planning an elementary practice in administration and administrative set up is given at an early age.

In this connection it may be mentioned that the University Grants Commission appointed a committee to study the problem of Discipline amongst students. The Ministry of Education also appointed a committee under the Chairmanship of Mr. Shri Prakasa in August 1959. This Committee also recommended that stress should be laid on good manners and the promotion of courtesy and that some form of physical training should be compulsory.

Since October 1960 a Central Training Institute has been started at Sariska near Alwar to train instructors for the National Discipline Scheme. At present 600 trainees are undergoing training there. This is the first of the four training institutions to be started under the Third Five Year Plan to train 11,000 inservice physical training instructors, 11,000 selected young school teachers and 5,000 new candidates.

PRIMARY EDUCATION

Primary Education in India has made considerable progress since the attainment of Independence. Under Article 45 of the Constitution, the State is required to provide free and compulsory education for all children up to the age of 14 years before January 1960. In 1947, only about 30 per cent of the children in the age-group 6-11 were in schools. This percentage rose to 40 at the beginning of the First Plan; to 50 at the end of the First Plan and was expected to rise to 60 at the end of the Second Plan. The Third Plan proposes to raise it still further to 80. The total enrolment in this age-group has increased from about 140 lakhs in 1947-48 to 185 lakhs in 1950-51; to 251 lakhs in 1955-56; and to 340 lakhs in 1960-61. By the end of the Third Five Year Plan, this enrolment is expected to rise by 180 lakhs and reach the figure of 520 lakhs which is almost equal to the entire population of U.K. The increase of enrolment in the age-group 11-14 has also been equally good. In 1946-47, only 12 per cent of children in this age-group were at schools. By 1950–51, this percentage increased to about 18, and it was expected to rise to about 23 by 1960–61. At the end of the Third Five Year Plan, about 100 lakhs of children are expected to be enrolled in classes VI–VIII and the percentage of children in the age-group 11–14 actually enrolled in schools is expected to rise to 30. It may thus be possible for India to fulfil the Constitutional Directive by about 1975. The most important programmes about expansion relate to the raising of the minimum qualifications for primary teachers from a pass at the middle school to a pass at the secondary schools, increasing the percentage of trained teachers and raising the duration of the training course uniformly to two years; improving the remuneration of primary teachers; provision of free supply of books and writing materials to needy children; associating the local communities with the administration of Primary Education; and the provision of midday meals.

During the Third Five Year Plan, intensive efforts will be made, particularly in the backward States, to organise annual enrolment drives and increase the enrolment of children. Special attention will be paid to increasing the enrolment of girls and a number of programmes have been drawn up for this purpose. These include: educating public opinion to overcome traditional prejudices against the education of girls; recruitment of women teachers in increasing numbers; provision of amenities and inducements for girls to be enrolled in the schools, etc.

Basic Education: Under this, instruction will be imparted in a correlated manner through a useful and productive craft. A good deal of progress has already been made in this sector and a fair percentage of schools has already been converted to the basic pattern. During the Third Five Year Plan, a programme of orientating all primary schools to the basic pattern has been undertaken and is expected to be completed by 1963.

SECONDARY EDUCATION

No. of secondary schools in 1958-59: 13,516.

Enrolment in secondary schools: 11 lakhs.

No. of multi-purpose schools end of March 1959: 1,329.

No. of Higher Secondary Schools end of March 1959: 1,484.

Plan allotment for reorganization of secondary education: Rs.49·07 crores.

Allotment for 1959–60: Rs. 4 crores.

Central assistance for increased pay of teachers 1957–58: Rs. 42·61 lakhs.

* Bilingual.

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The Centre bears half the increased cost of all schemes in the conversion of secondary schools into multi-purpose and higher secondary type and the training of teachers for these schools for which Central assistance is given at 60 per cent.

The accepted pattern of education comprises eight years of elementary (Basic) education; three years of secondary education with diversified courses to give it a vocational bias and make it a terminal point for entry into trade or profession; and three years of university education leading to the first degree. Some of the States have adopted a pattern of seven years of elementary (Basic) education followed by four years of secondary education.

At the secondary stage, a child should in addition to the core curriculum which would include languages, social studies, general science and one compulsory craft—opt for one of the following diversified courses to be provided in reorganized multi-purpose schools:—humanities, science, technical, commerce, agriculture, fine arts or home science.

Except science, humanities and commerce the groups are relatively new to secondary schools. Multi-purpose schools are schools in which these have been introduced.

The scheme for the conversion of high schools into multi-purpose schools was launched in 1954 along with a number of ancillary schemes, such as the training of teachers in new subjects, improvement of teaching facilities particularly in science, of school libraries, the introduction of craft in middle schools, and also other miscellaneous schemes like teachers' seminars, training of career masters, etc.

The formula about language teaching now generally accepted is formed of three items:

1. Mother-tongue; or regional language; or mother-tongue and regional language; or mother-tongue and classical language; or regional language and classical language.
2. English or a modern European language.
3. Hindi for non-Hindi areas; or modern Indian language for Hindi areas.

Examinations

The Ministry of Education formulated a long-term programme of examination reform in 1957. This programme was accepted by the Secretaries and Chairman of various Secondary Education Boards in the country and was implemented from January 1958.

The reform seeks to bring about an improvement not only in the procedures of the final examination at the end of the secondary school, but also to effect a closer integration between the education objectives, learning procedures and methods of evaluation. In order to implement this comprehensive programme, an Examination Unit staffed with trained evaluation officers has been set up in the Directorate of Extension Programmes for Secondary Education. During the past two and half years the unit has completed the first phase of the programme and introduced a fair section of secondary school teachers and educationists to the concept and technique of evaluation through workshops conducted at various levels. Test items have been prepared with the help of teachers and after due try-out, screening and analysis are being supplied to the Boards to serve as illustrative material. The unit has also brought out literature on the new concept for use by secondary school teachers and Boards. Since the success of the reform depends upon the extent to which training colleges participate in it and prepare teachers under training in the new method, the unit has also given considerable attention to associate the training colleges in the programme. Over 60 colleges have participated so far in extensive and intensive work. Steps have also been taken to incorporate the new evaluation concept in the B.Ed. or B.T. syllabus in the course of next two or three years. Since the reform of examination seeks to lay emphasis on the evaluation of a pupil's achievement throughout his school career, the programme has given emphasis to the introduction of internal assessment by the Boards. Some Boards have already begun to give weightage to internal assessment to the extent of about 20 per cent. The Examination Unit has made a study of the problems that have arisen in the course of this implementation and its findings were discussed by the Conference of Secretaries held in January, 1961. Annual conferences of Secretaries of Boards have been held to discuss the periodical progress made in the reform and to plan further work ahead.

As the reform has to reach every secondary school and secondary school teacher, it is essential for its success to establish State Evaluation Units which will implement the further stages of the reform in the States. State Governments have already been addressed in the matter and it is expected that State Evaluation Units will be established in all the States by the end of the Third Plan. The Central Unit conducted a training course during the months of September and October, 1960, for the future personnel of these units. Twenty-seven officers from 13 States and two territories participated.

Educational and Vocational Guidance

The provision of diversified courses has given rise to the need for educational and vocational guidance on the part of teachers and school administrators. Accordingly it was recommended that Bureaus of Educational and Vocational Guidance should be established in every State. Bureaus now exist in Andhra, Assam, Bombay*, Bihar, Kerala, Orissa, U.P. and Madhya Pradesh.

At the Centre there is a Central Bureau of Educational and Vocational Guidance. This was established in Oct. 1954. It has been engaged in the preparation of notes on group guidance in the classroom and the organization of training courses and seminars for counsellors. A post-graduate course in educational and vocational guidance for leader counsellors was held in Delhi from May 1958 to June 1959.

The following States have taken measures to nationalize the production of text books partially or wholly: Andhra, Assam, Bihar, Kashmir, Kerala, M.P., Punjab, Rajasthan, U.P., Orissa, Madras, Mysore and West Bengal. At present all the State Governments except Punjab, Jammu and Kashmir, Mysore and Madras have established their Bureaus of Educational and Vocational Guidance, but the position in the multi-purpose schools is not very satisfactory.

Science

The Secondary Education Commission made two recommendations with regard to the provision of Science: 1. That every secondary school should provide general science as a core subject. 2. That elective science should be provided in as many as possible to encourage students with a special talent in the subject to pursue further study.

A significant aspect of the programme of strengthening Science teaching in secondary schools is the organisation of science clubs where pupils are provided with opportunities for creative scientific activities. 347 such science clubs were established upto the 15th of November 1959. Forty of these clubs are located in Training Colleges where they help to co-ordinate and direct the activities of other member clubs. 115 new clubs have been given financial assistance during the year 1960–61.

The Central Institute of English at Hyderabad for research in English teaching and training started functioning in November 1958. It imparts training to secondary school teachers, lectures in training colleges, and inspectorate officers. It conducts two courses a year each of a duration of four to five months.

For the promotion of Gandhiji's teaching and way of life a selection of suitable books is being made for primary, secondary and university levels.

Higher Secondary Pattern

Below we describe the position in regard to the reorganization of secondary education in the various States.

Nine States and two Union Territories (Andhra Pradesh, Assam, Kerala, Madhya Pradesh, Mysore, Orissa, Punjab, Rajasthan, West Bengal, Delhi and Tripura) have already introduced the revised pattern of Secondary Education. Madras State has introduced it from 1959–60.

With regard to the progress of reorganisation, by the end of the Second Plan about 1,500 schools would have been upgraded in the country. All the States except Gujarat and U.P. would have introduced higher Secondary Pattern. During the Third Plan it is expected that about half the Secondary Schools would be converted to the new pattern.

A new office known as the Directorate of Extension Programmes for Secondary Education has been set up. It has advisory as well as executive powers and it helps to implement the recommendations of the Secondary Education Commission.

(A summary of the difficulties experienced by multi-purpose schools is given in the 1959-60 edition of the *Directory*).

Midday Feeding: The States of Andhra Pradesh, Assam, Gujarat, Kerala, Mysore, Orissa, Punjab, Uttar Pradesh and West Bengal adopted the scheme of midday feeding of children in schools.

UNESCO Aid for Technical Education: UNESCO has approved assistance to the extent of $ 1,587,800 (Rs. 75,60,952·38) for the period 1961–62 for technical education and scientific research programmes in India.

Assistance to Blind and Dumb Students: The Government proposed to set up a training centre for the adult deaf and dumb during the Third Plan.

During 1960–61, about Rs. 1,27,000 had been distributed by way of scholarships for the blind, deaf and dumb. Over Rs. 2½ lakhs had been spent on the Training Centre for the Adult Blind at Dehra Dun and about Rs. 97,000 on the Model School for Blind Children in the same city.

UNIVERSITY EDUCATION

Position on 31st March 1958:—

No. of Universities: 46 (Jan. 1961).

No. of Gen. Education—Arts & Science Colleges: 817.

No. of Technical and Professional Colleges: 637.

Total no. of students: 8,61,695.

Second Plan allotment: Rs. 19·59 crores (revised).

The policy in regard to university education is largely the one recommended by the Indian University Education Commission which made a report in 1949. (This report is summarized in a previous edition.)

There is now a University Grants Commission. (See also the note below.) Its duty is to take such steps as it thinks fit for the promotion and co-ordination of university education and for the determination and maintenance of the standards of teaching, examination and research.

Universities

There were in all 45 universities in India in 1960. The names of the universities with the names of the Vice-Chancellors are given below.

The Central Universities are four: Aligarh, Banaras, Visva Bharati and Delhi.

It may be mentioned here that for purposes of employment under the Central Government the degrees and diplomas of various institutions besides the universities mentioned below are recognized.

* Bilingual.

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Among the institutions are: Gurukul Vishwa Vidyalaya, Hardwar; Jamia Millia Islamia, Delhi; Kashi Vidyapith, Varanasi; Gujarat Vidyapith (degrees awarded during 1920-22); Tilak Maharashtra Vidyapith, Poona (degrees awarded prior to 1932); Tata Institute of Social Sciences, Bombay; National Council of Rural Higher Education; and Qaumi Vidyapith, Lahore (degrees awarded upto 1927).

There were plans for five new universities (Feb. 1960) to be located in Kanpur, Meerut, Darjeeling, Kalyani (W. Bengal), the Burdwan-Durgapur area. The Universities of Burdwan, Kalyani, Bhagalpur and Ranchi have been established in 1960.

One development that has to be noted is the appointment of a Committee to enquire into certain allegations in relation to the Aligarh Muslim University.

The Allahabad University which was closed on Dec. 13, 1959 following demonstrations by students reopened on Feb. 5, 1960.

Agra University.—C. B. Aggarwal, M.A., B.L.

Aligarh University.—Col. B. H. Zaidi, B.A. (Cantab.), Bar-at-Law.

Allahabad University.—P. K. Kaul (Cantab.), D.Sc. (France), F.N.I.

Andhra University. (Waltair).—Dr. A. L. Narayana.

Annamalai University (Annamalainagar).—V. Subramanya Nadar.

Banaras Hindu University.—N. H. Bhagwati, M.A., LL.B.

Burdwan University.—Sukumar Sen, I.C.S. (Retd.).

Baroda University.—Dr. Jyotindra M. Mehta, M.A. (Oxon.), Ph.D. (Lond.), Barrister-at-Law.

Bhagalpur University.—B. P. Jamuar, M.A., Bar-at-Law.

Bihar University (Patna).—K. K. Banerjee, B.Sc., M.B., D.L.O., D.O.M.S. (Lond.), F.N.I.

Bombay University.—Dr. V. R. Khanolkar, B.Sc., M.D. (Lond.).

Calcutta University.—Dr. Subodh Mitra, M.D.

Delhi University.—Prof. N. K. Sidhanta, M.A. (Cantab.), LL.D.

Gauhati University.—Dr. H. C. Bhuyan, M.Sc. (Col.) Ph.D. (Bristol).

Gorakhpur University (Gorakhpur, U.P.).—B. Prasad.

Gujarat University (Ahmedabad).—L. R. Desai, B.A., B.T., T.D. (Lond.).

*Indian Agricultural Research Institute (New Delhi).—B. P. Pal, M.Sc., Ph.D. (Cantab.), (*Director*).

*Indian Institute of Science (Bangalore).—S. Bhagwantham, M.Sc. (Madras), D.Sc. (Andhra), (*Director*).

Indira Kala Sangeet Vishvavidyalaya (Khairagarh).—P. N. Chinchore.

Jabalpur University (Jabalpur).—Pandit K. L. Dubey, B.A., LL.B.

Jadavpur University (Calcutta).—Dr. T. Sen, Eng. (Munich), M.I.E. (Ind.), (*Rector*).

Jammu & Kashmir University (Srinagar).—K. M. Panikkar.

Kalyani University.—Dr. S. W. Das Gupta.

Karnatak University (Dharwar).—D. C. Pavate, M.A. (Cantab.).

Kerala University (Trivandrum).—Dr. K. C. K. E. Raja, L.R.C.P. & S. (Edin.).

Kurukshetra University (Kurukshetra).—Hardwari Lal.

Lucknow University.—Randhir Singh.

Madras University.—Lt.-Col. Diwan Bahadur Sir A. Lakshmanaswami Mudaliar, B.A., M.D., LL.D., D.Sc., F.R.C.O.G., F.A.C.S.

Marathwada University (Aurangabad).—S. R. Dongerkerry, B.A., LL.B.

Mysore University.—N. A. Nikam, M.A. (Cantab.).

Nagpur University.—Justice G. B. Badkas, M.A., LL.B.

Osmania University (Hyderabad).—Dr. D. S. Reddy, M.A. (Oxon.).

Patna University.—B. N. Rai.

Poona University.—D. V. Potdar.

Punjab University (Chandigarh).—Dr. A. C. Joshi, D.Sc., F.N.I.

Rajasthan University (Jaipur).—Dr. Mohan Sinha Mehta, M.A., LL.B., Ph.D., Bar-at-Law.

Ranchi University.—B. D. N. Singh.

Roorkee University.—G. Pande.

Sardar Vallabhbhai Vidyapeeth (Vallabh Vidyanagar, Kaira Dist., Gujarat).—Babubhai J. Patel, B.A., LL.B.

Kameshwar Singh Darbhanga Sanskrit Vishwavidyalaya (Darbhanga).—Dr. U. Mishra.

Saugor University.—Dr. Dwaraka Prasad Mishra, B.A., LL.B., D. Litt.

S. N. D. T. Indian Women's University (Bombay).—Dr. Premlila V. Thackersey, D. Litt. (Banaras).

U. P. Agricultural University (Bhoolbagh).—K. A. P. Stevenson, M.A. (Oxon.), I.A.S.

Utkal University (Cuttack).—Dr. P. K. Parija, M.A. (Cantab.), I.E.S. (Retd.).

Sri Venkateswara University (Tirupati, Andhra).—S. Govindarajulu, M.A., LL.B. (Cantab.), B.L., Bar-at-Law.

Varnaseya Sanskrit Vishvavidyalaya (Varanasi).—M. D. Shastri.

Vikram University (Ujjain).—Dr. G. L. Datta.

Visva Bharati University (Santiniketan).—Sudhi Ranjan Das, Barrister-at-Law, LL.D.

The Government of India has approved an expenditure of Rs. 1·90 crores for the establishment of an Agricultural University at Rudrapur in Uttar Pradesh.

To be set up by the State Government on the model of the Land Grant Colleges of U.S.A., the University will aim at developing rural leadership and competence. The 16,000-acre Tarai State Farm will be attached to it for use as a laboratory for research and experiment.

The University, which will be the first of its kind in the country, will have three constituent colleges—an Agricultural College, a College of Animal Husbandry and Veterinary Sciences and a College of Agricultural Engineering and Technology, besides a Science Block. It will provide comprehensive education on agriculture and allied subjects on the basis of an "integrated system of teaching".

It will have a capacity to train 325 candidates per year—25 per cent of the seats being specifically reserved for students from outside the State.

It may be explained here that the establishment of "rural universities" was originally suggested in 1948 by the University Education Commission, which visualised a "Rural University" as "a ring of small, resident under-graduate colleges with specialised and university facilities in the centre". The joint Indo-American team set up by the Ministry of Food and Agriculture in 1954 also recommended the establishment of such universities and made concrete proposals.

The "Rural University" as recommended by the team and Dean H. W. Hannah of the University of Illinois, who subsequently prepared a blue-print, closely resembles as already explained, the Land Grant Colleges in the U.S.A. which have contributed significantly to the development of agriculture in America.

The foundation stone of the first Gandhi Bhawan in an Indian university was laid by the Prime Minister at Delhi University, on Dec. 17, 1959.

Under a programme jointly sponsored by the Gandhi Smarak Nidhi and University Grants Commission, Gandhi Bhawans are to be set up in universities to promote and facilitate the study of Gandhiji's ideals and his way of life. Initially, construction of Gandhi Bhawans is to be undertaken in seven universities including Delhi, Kerala, Allahabad, Patna, Punjab, Nagpur and Rajasthan.

The total cost of the building at Delhi University, which has been designed by Stein, Chatterjee and Polk, architects, is estimated at Rs. 1,60,000 which will be shared between the Gandhi Smarak Nidhi and University Grants Commission.

The main object in establishing these Bhawans is to provide within the university campus a suitable place to keep Gandhian literature; to hold study classes and discussions on the life, ideals and work of Mahatma Gandhi; to arrange for lectures on these topics and to encourage students to undertake such items of constructive work as can be done inside or close to the campus, which will reflect the ideas and methods of work indicated by Mahatma Gandhi.

The University Grants Commission has selected 39 colleges from 17 universities, which fulfil the prescribed conditions, for introducing the scheme of hobby workshops.

The universities are: Agra, Andhra, Bombay, Calcutta, Delhi, Gauhati, Gorakhpur, Gujarat, Kerala, Madras, Mysore, Nagpur, Punjab, Poona, Rajasthan, Saugar and S. V. Vidyapeeth.

The Commission has requested the universities to obtain necessary plans and estimates from the colleges and details of expenditure required in connection with the implementation of the scheme of hobby workshops.

A scheme of compulsory national service for students, prepared by the Ministry of Education, was placed before the Education Ministers' Conference held in Delhi in August 1959 for consideration.

The Education Ministers' Conference suggested among other things, the appointment of a committee to work out the details of the proposed pilot projects. A committee under the chairmanship of Dr. C. D. Deshmukh was set up in September and its report was published in Feb. 1960. It has recommended that all students passing out of higher secondary schools or pre-university classes should be required to do nine to twelve months of compulsory national service.

University Grants Commission

(C.S.I.R. Building, New Delhi)

The members and staff of the Commission are given below.

Members: D. S. Kothari (*Chairman*), Pandit H. N. Kunzru, T. M. Narayanaswamy Pillai, Dr. A. C. Joshi, Prof. N. K. Sidhanta, N. N. Wanchoo, Dewan Anand Kumar, P. N. Kirpal.

Secretary, Samuel Mathai; *Asst. Secretary,* N. N. Aengar.

* Deemed to be universities under Sec. 3 of the U. G. C. Act.

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The statement given below shows the grants paid to the universities during 1959-60:

	Rs.
CENTRAL UNIVERSITIES.—	
Aligarh Muslim University	59,28,490·95
Banaras Hindu University.	93,19,246·24
Delhi University ..	41,89,145·61
Visva Bharati University.	25,90,798·95
Indian Institute of Science, Bangalore	41,73,666·87
Total	2,62,01,348·62
Constituent Colleges of Delhi University ..	24,08,519·00
STATE UNIVERSITIES	
Agra University	2,39,545·63
Allahabad University ..	4,35,331·88
Andhra University ..	28,94,019·95
Annamalai University ..	11,85,086·18
M. S. University of Baroda	21,34,847·71
Bihar University ..	26,53,745·00
Bombay University ..	24,82,782·45
Calcutta University ..	43,73,364·22
Gauhati University ..	8,95,392·42
Gujarat University ..	4,99,246·31
Gorakhpur University ..	4,91,504·68
J. &. K. University ..	4,04,155·00
Jabalpur University ..	78,224·00
Jadavpur University ..	18,04,265·84
Karnatak University ..	17,37,421·50
Kerala University ..	22,44,968·26
Lucknow University ..	2,82,741·25
Madras University ..	39,34,464·22
Marathwada University..	2,50,742·00
Mysore University ..	7,13,735·26
Nagpur University ..	1,13,433·53
Osmania University ..	19,67,985·26
Patna University ..	6,48,921·02
Poona University ..	18,19,814·87
Punjab University ..	34,32,140·14
Rajasthan University ..	6,95,594·35
Roorkee University ..	13,76,390·00
S.N.D.T. University ..	3,77,278·00
Sagar University ..	11,51,011·87
S.V.B. Vidyapeeth University	2,98,726·55
Sri Venkateswara University	11,25,000·00
Utkal University ..	6,17,608·39
Vikram University ..	3,62,247·70
I.A.R.I., New Delhi ..	8,283·87
Total	4,37,27,019·31

The University Grants Commission awarded 73 fellowships for the year 1959-60. Of these 26 were post-Doctoral (Junior) Fellowships of Rs. 300 p.m. each and 17 were senior Research Fellowships of Rs. 500 p.m. each and 30 Research fellowships of the value of Rs. 400 p.m. each for Engineering and Technological Subjects.

Three-Year Course

The following 23 Universities have introduced the three-year degree course:

Delhi, Jadavpur, Sagar, Madras, Baroda, Karnatak, Kerala, Osmania, Visva Bharati, Mysore, Vallabhbhai Vidyapeeth. Nagpur, Andhra, Aligarh, Annamalai, Shri Venkateswara, Vikram, Poona, Marathwada, S.N.D.T Women's, Utkal, Banaras and Rajasthan.

The following seven universities will introduce the course as from the year shown against each:

Bihar, Jabalpur, Patna and Calcutta Women's as from 1960-61; Banaras and Punjab as from 1961-62; and Gauhati from 1962-63.

The Universities of Gujarat and Kashmir have agreed in principle to introduce the course. The Bombay University propose to introduce a three-year honours course after the Inter, while retaining the two-year pass course after the Inter. The university has been allowed to experiment along a different line of reorganization. The Government of U.P. propose to introduce the three-year course in the Universities of Agra, Allahabad, Gorakhpur and Lucknow without disturbing the existing pattern of secondary education, *i.e.* two years of high school followed by two years of Inter, and the proposal has been accepted.

The cost of implementing the scheme during the Second Plan is estimated at Rs. 6·55 crores. The Central Government and the University Grants Commission will meet half of the expenditure involved. The other half will be met by the State Governments and or private managements. The University Grants Commission will be concerned with non-Government Colleges.

The expenditure incurred in 1959-60 and the allotments for 1960-61 and 1961-62 are as follows:

	Rs.
1959-60 (Actuals)	
Central Govt. for U.G.C.	57,32,000
U.G.C. for Non-Govt. Colleges ..	18,11,401
1960-61 (Revised)	
Central Govt. for U.G.C.	45,00,000
U.G.C. for Non-Govt. Colleges ..	25,00,000
1961-62 (Budget)	
Central Govt. for U.G.C.	1,59,90,250
U.G.C. for Non-Govt. Colleges ..	1,59,90,250

Pay Scales :—The U. G. C. has prepared a scheme for raising the pay scales of teachers by which the U. G. C. will bear 50% of the increased expenditure in the case of men's colleges and 75% in the case of women's colleges.

The following typical scales were fixed: Principals Rs. 600–40–800, Heads of Departments Rs. 400–25–700, Senior Lecturers Rs. 300–25-600. Lecturers Rs. 150–10–200.

Three hundred and eighty-six colleges of the Universities of Andhra, Bombay, Calcutta, Karnatak, Kerala, Madras, Mysore, Nagpur, Osmania, Punjab, Poona, Sagar, and S.N.D.T. Women's, Agra, Gauhati, Gorakhpur, Gujarat, Jabalpur, Marathwada, Rajasthan, S. V. B. Vidyapeeth, Vikram, Utkal and Sri Venkateswara have been brought within the purview of the revised scales (Jan. 1960).

Another problem is over-crowding at universities. It is hoped that the acceptance of the three year-course would help to regulate the numbers to some extent. It is a condition of financial assistance that colleges should agree to a phased reduction. The maximum strength suggested is 800 to 1,000 for a college unless it was built for a larger number and had adequate facilities for that number.

Medium of Instruction : —

The University Grants Commission has suggested that the change from English to an Indian language should not be hastened and that it should be preceded by adequate preparatory measures. The Commission has further appointed a working group of educationists representing all the Indian languages to study further the question of medium of instruction in the universities and to draw up a plan of action for the change-over from English to an Indian language with primary regard to the effectiveness of teaching and learning and consistent with the maintenance of high standards in English which should continue as a common second language even after the change is made.

U.G.C. REPORT FOR 1959-60

The annual Report for the period April 1959 to March, 1960 of the University Grants Commission outlines several measures taken to improve the standards of teaching and research in universities as well as the scales of pay of college and university teachers.

Liberal grants were also being made for construction of laboratories, libraries, hostels and other academic buildings.

During 1959-60, a sum of over Rs. 11 lakhs was advanced to 15 State universities to pay about 80 per cent of the increased expenditure on this account. In addition, the U.G.C. met fully the cost of such revision of pay in regard to the four Central universities.

About Rs. 54 lakhs were paid by the Commission in 1959-60 for improvement of the salaries of teachers in men's and women's colleges in the country.

The revision of the salary scales of teachers in engineering and technological institutions had also been finalised.

In the case of Women's Education the Commission was helping a number of universities in the development of certain branches of social sciences which were meant wholly or mainly for women.

The development schemes in humanities and social sciences approved during the year were estimated to cost about Rs. 90 lakhs while in sciences and technology the schemes were estimated at Rs. 76 lakhs. Assistance was given to the universities for the establishment and development of 46 new post-graduate departments in humanities and social sciences and 18 new post-graduate departments in science and technology.

In 1959-60, proposals from 15 universities for construction of hostels and staff quarters were approved at a total cost of about Rs. 67 lakhs, of which the Commission's share was Rs. 47 lakhs.

The scheme of hobby workshops is now under implementation in 11 universities. In April, 1959, the benefit of the scheme was extended to 100 affiliated and constituent colleges. Later, proposals from 78 colleges of 21 universities were accepted in principle.

The U.G.C. paid about Rs. 98,000 to 14 universities and Rs. 1,30,000 to 116 affiliated colleges during 1959-60 for their Students' Aid Funds.

RURAL HIGHER EDUCATION

Government of India in the Ministry of Education evolved in 1955, a national pattern of Education for the Rural people which is responsive to rural needs, and will develop leadership from amongst the rural people for the community development. The institutions of higher learning present a programme excellent in academic character, as well as centre for community development and Planning.

Eleven institutes of outstanding experience in rural education were selected under the scheme for development into Rural Institutes. These are Gandhigram Rural Institute; Ramakrishna Mission Vidyalaya Rural Intitute, Coimbatore; Lok Bharati Rural Institute, Sanosara; Rural Institute, Amravati; Mouni Vidyapeeth Rural Institute, Gargoti; Vidya Bhavan Rural Institute, Udaipur; Balwant Vidyapeeth Rural Institute, Bichpuri, Agra; Rural Institute, Jamia Millia, New Delhi; Institute of Rural Higher Education, Sriniketan, West Bengal; Rural Institute of Higher Studies, Birouli, Bihar; Kasturba Rural Institute, Rajpura, Punjab. The Institutions are running a 3 year Diploma course in Rural Service, a 3 year course in civil and Rural Engineering and a two year certificate course in Agricultural Science. A Sanitary Inspector's course of one year duration was started in Vidya Bhavan Rural Institute, Udaipur, in October, 1960, and is proposed to be started in Gandhigram Rural Institute from July, 1961.

The National Council for Rural Higher Education which was set up by Government of India in 1956 to advise the Ministry of Education on all matters relating to this educational programme, lays down curriculum and programme of studies, extension and research and conducts public examinations to award diplomas and certificates to the successful students of the Rural Institutes. The duration of the Diploma course in rural services is 3 years after Higher Secondary & four years after Matriculation. In the case of Rural and Civil Engineering, it is three years after matriculation and the agricultural courses 2 years after matriculation. There is provision of Preparatory course to which Matriculates are admitted who after passing the preparatory examination are promoted to Diploma course in Rural Services.

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The Three year Diploma in Rural Services offered by the National Council has been recognized as equivalent to the 1st degree of a recognized University by the Government of India, the State Governments of Bihar, M.P., Kerala, Madras, Andhra Pradesh, Punjab, Rajasthan, U.P., West Bengal and Maharashtra. The Tata Institute of Science, Bombay has recognised the Diploma for purpose of admission to its courses of study. The question of its recognition by the universities is under the consideration of the Inter-University Board.

The Government of India on the recommendation of the Board of Assessment for Technical and Professional qualifications of All India Council for Technical Education have recognised Diploma in Civil and Rural Engineering for purposes of employment to subordinate posts and services.

The Institutes are assisted financially to the extent of 75 per cent of the non-recurring and 50 per cent of the recurring expenditure by the Central Government except the ones at Sriniketan and Jamia Nagar which receive a full grant.

The training is so fashioned as to make the students into effective leaders of the community to which they belong.

TECHNICAL EDUCATION

The All-India Council for Technical Education was set up by the Government of India in November 1945 to advise them on all matters relating to the co-ordination and development of technical education in the country after the high school stage. Its personnel has been drawn from Government of India Departments, State Governments, Parliament, industry and commerce, professional and educational bodies.

The Council has appointed four Regional Committees—one each for the eastern, western, southern and northern regions of the country to survey the facilities of their region, determine regional needs, foster liaison between industry and technical institutions, assist and advise on co-ordinated development.

In 1947 India produced only 930 graduates in engineering and 320 graduates in technology and about 1,440 diploma holders. In 1957 the total output of graduates in this field was over 4,223 and of diploma holders 5,084.

When the relevant schemes under the Second Plan are implemented technical institutions will be in a position to admit every year about 13,000 students for degree courses and 25,000 students for diploma courses.

Every State has at least one engineering college and one polytechnic.

The financial provision for technical education in the First Plan was Rs. 23 crores, in the Second Plan it was Rs. 61·17 crores inclusive of about Rs. 5 crores provided for in the Programmes of Technical Education of University Grants Commission.

Below we show the progress made in this field—the number of institutions in existence; the intake of students and the out-turn of students:

		1951	1956	1957	1960-61 (estimate)
Institutions	Degree	53	74	74	90
	Diploma	89	111	129	187
Intake	Degree	4,788	6,632	9,778	13,000
	Diploma	6,216	10,242	16,150	25,000
Out-turn	Degree	2,693	4,293	4,290	—
	Diploma	2,626	4,075	5,034	—

In March 1958, there were 83 colleges offering first degree courses in engineering and technology and 157 polytechnics offering diploma courses with an annual admission capacity of 11,086 and 19,932 students respectively.

The actual admissions in 1959 were 11,263 for degree and 20,330 for diploma courses.

About 5,000 persons are being trained abroad of whom 40 per cent are engineers. About one-third of these return every year.

As for the needs, these are estimated at 635,000 technicians for the Second Plan period and about a million for the Third.

Since it takes at least four to five years to train a competent engineer and still longer to establish a fully developed technological institution some shortage during the Second Five-Year Plan is unavoidable.

Mining engineers and petroleum technologists are and will for some years continue to be in short supply. There is also a general shortage at the top levels of design and research engineers, research scientists, teachers and medical specialists.

At the other end, there is also a short supply of machine operators, surveyors, draftsman-engineers and geological drillers.

With a view to meeting the shortage of technical teachers it was decided to create a pool of trained teachers for the various technical institutions. For this purpose junior and senior teaching fellowships will be instituted, and the selected persons will be apprentices to senior professors to give them teaching experience. On the completion of the training they will be posted to technical institutions.

The training period lasts for two to three years.

The Senior Fellowships are of the value of Rs. 350–25–400 and are awarded to the first class degree-holders in technological subjects. The Junior Fellowships are of the value of Rs. 200–20–400.

The Technical Teachers Training Programme was initiated in 1959 and Senior Fellowships were awarded. At present there are 106 Fellows undergoing training in 5 selected institutions in the country and a few more Fellows are expected to join. The programme for junior Fellowship will start later.

Foreign Help

Foreign assistance is in the form of scientific and workshop equipment, foreign experts as professors at Indian institutions, training facilities for Indians abroad.

The assistance received from various agencies upto 31st March 1960 is shown below:

Agency or Country	Equipment Rs. lakhs	Foreign Experts	Fellowships Abroad
T. C. M. (U.S.A.)	46·14	47	274*
Colombo Plan (U.K. & Australia)	8·75	11	23
UNESCO AND UNTAA	79·52	43	39
Total	134·41	101	336

* Includes 208 trainees sent under Technical Teachers' training Scheme.

Some Institutions

(for a list see the end of this article)

The establishment of the Indian Institutes of Technology at Kharagpur, Bombay and Madras and the development of the Indian Institute of Science at Bangalore as a centre of advance technology mark a new trend in the field of technological education in this country.

The Institute in Bombay has secured technical assistance from the U.S.S.R. under the UNESCO Expanded Technical Assistance Programme. Fifteen Soviet experts have already arrived. Equipment worth Rs. 70 lakhs has also been received. More equipment is expected in the near future. 14 teachers are at present receiving training in the U.S.S.R. in specified fields in higher technology.

The Indian Institute of Technology, Madras, the third of the Higher Technological Institutes was started in July, 1959. 120 students were admitted in the first year of the five year integrated course.

Under the agreement with the West German Government 15 teachers of the Institute are undergoing training in German Higher Technological Institutions. Equipment and books worth Rs. 23 lakhs have so far been received from Germany.

Six German experts are working at the Institute at present.

The Institute has prepared a Master Plan costing Rs. 707·69 lakhs which is expected to be implemented during the Third Five Year Plan Period.

The Institute was expected to shift to its new premises at Guindy by Jan. 1961.

The fourth Higher Technological Institute was started in Aug. 1960, in Kanpur. 99 Students were admitted in the first year of the five year integrated course. These students will be awarded degree in Civil, Mechanical, Electrical, Chemical, Metallurgical and Engineering.

The Institute is being established with the assistance of the U.S.A.

For a fuller note on the Indian Institute of Science at Bangalore see under Bangalore District, Mysore State.

Other Courses

The importance of training in business management and industrial administration are well recognized, and a comprehensive scheme on an all-India basis prepared.

Courses in Management Studies are now offered at the Indian Institute of Technology, Kharagpur; the Delhi School of Economics, Delhi; the Department of Economics, Madras University, Madras; the School of Economics and Sociology, Bombay University, Bombay; the Indian Institute of Science, Bangalore; and the Indian Institute of Social Welfare and Business Management, Calcutta.

An Administrative Staff College in India on the lines of the Administrative Staff College, Henley-on-Thames, England has been established at Hyderabad. The College is a joint enterprise of the Central Government, private industry and commerce. It is an autonomous organisation, and functions as a registered Society under the Societies Registration Act. The administration and management of the affairs of the College is entrusted to a Court of Governors.

The first course was started in Dec. 1957. The maximum intake is 60 students.

Four regional schools of printing at Madras, Bombay, Calcutta and Allahabad have started functioning.

Each school is a joint enterprise of the Central and State Governments and is designed to train 200 candidates every year.

A fifth school is proposed to be started in Delhi as part of the Delhi Polytechnic.

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A School of Town and Country Planning has been set up by the Central Government as a joint enterprise with the Institute of Town Planners (India) to provide facilities for training in Town and Country Planning. At present the School provides training in two courses a diploma course of two years' duration and a housing course of one year's duration.

The Second Five Year Plan for Technical Education envisaged a great expansion at all levels.

The Plan provides for the establishment of three Higher Technological Institutions in western, northern and southern regions. These have already started functioning at Bombay, Kanpur and Madras. The Plan also provides for the establishment of 50 new Polytechnics eight new Engineering Colleges and about 45 junior Technical Schools under State Plans of Technical Education.

The Third Five Year Plan provides for the establishment of 27 technical institutions for girls.

During the Third Plan it is proposed to start Evening Colleges and Institute correspondence courses for the convenience of those who cannot attend day classes, or keep regular terms.

SECOND PLAN

The Second Five Year Plan for technical education envisaged a great expansion at all levels.

About 40,000 craftsmen were to be trained by the end of the Plan. For this purpose over 20,000 additional seats were to be established at various institutions. Construction of building was to be completed by 1959-60. Equipment worth Rs. 75 lakhs had been offered by the U.S.A.

The entire effort in this direction is estimated to cost about Rs. 80 crores.

Training involves training of teachers as well as technicians.

An institute for training industrial instructors was to be established by the Government of India in collaboration with the International Labour Organization. The institute which will be located in Calcutta will start functioning by 1961 and will give instruction in 14 trade courses. It will be equipped to train 800 persons. The trainees at the institute would be drawn from highly qualified and skilled industrial workers who, after training, might impart their additional knowledge to fellow workers. The foreign experts to be employed by the institute at its inception, would be replaced by Indians at a later stage.

The Plan provided for the establishment of the four Higher Technological Institutions in western, central, northern and southern regions. The Plan also provides for the establishment of 46 new polytechnics under State schemes and 8 engineering colleges and about 61 junior technical schools. Further, there was a provision for starting refresher and summer courses for teachers, schemes for training of technical personnel.

Of the eight engineering colleges one each was to be established in Andhra, Kerala, Maharashtra, Madhya Pradesh, Orissa and Punjab and two in Assam.

Of the 50 polytechnics, 8 were to be established in Mysore, 5 in Andhra, 2 in Kerala, 1 in Pondicherry, 2 in Maharashtra, 3 in Gujarat, 5 in Madhya Pradesh, 2 in the Punjab, 3 in Rajasthan, 7 in Uttar Pradesh, 2 in Jammu and Kashmir, 4 in West Bengal, 2 in Bihar, 1 in Orissa, 1 in Tripura, 1 in Assam and 1 in Himachal Pradesh.

Of the Junior Technical Schools provided in the Plan, 38 have already been established 3 in Punjab, 5 in Uttar Pradesh, 11 in West Bengal, 5 in Madhya Pradesh, 2 in Andhra, 3 in Madras and 9 in Kerala. The remaining 7, 2 in Bihar, 2 in Madhya Pradesh, 1 in Pondicherry, 1 in Manipur and 1 in Andhra are yet to be set up. Twenty-six were proposed to be started by the various States by the end of 1960-61, 3 in Rajasthan, 3 in Madras, 9 in Kerala, 2 in Bihar, 2 in Orissa, 3 in West Bengal, 3 in Madhya Pradesh, and one in Manipur.

Besides the above, there was also a provision for the establishment of 9 Engineering Colleges and 26 polytechnics under the Central Schemes of Technical Education. Of the 9 Engineering Colleges, one has been established at Mangalore (Mysore), 1 at Warangal (Andhra Pradesh), 1 at Nagpur (Maharashtra), 1 at Bhopal (Madhya Pradesh), 1 at Durgapur (West Bengal), 1 at Jamshedpur (Bihar), 1 at Allahabad (U.P.), 1 at Srinagar (Jammu and Kashmir) and 1 at Delhi.

Of the 26 polytechnics under the Central Schemes, 2 were to be established in Bihar, 3 in West Bengal, 1 in Orissa, 3 in Maharashtra, 2 in Madhya Pradesh, 2 in Madras, 2 in Mysore, 2 in Andhra Pradesh, 1 in Kerala, 3 in Uttar Pradesh, 3 in the Punjab and 2 in Rajasthan, 15 polytechnics have already started functioning.

Of the nine engineering colleges mentioned the one at Delhi was in the process of being set up (Jan. 1960). The College of Engineering and Technology as it is called will take over degree courses of the Delhi University at present available in the Delhi Polytechnic. It was expected to start functioning from July, 1960. The College when in full swing will have an annual admission capacity of 250 students in Civil, Electrical, Mechanical, Chemical Engineering, and Textile Technology. The British Government and the Federation of British Industries have agreed to assist in the establishment of this College to the extent of providing equipment worth £ 2,50,000 and the services of ten professors and two supervisors for a period of 5 years.

A special note on the position of mining and metallurgy might be added. Because shortage of technicians here was a stumbling-block.

Among the many steps taken by the Government of India to meet the shortage of mining personnel was the increase in the annual intake of students at the Indian School of Mines and Applied Geology, Dhanbad, from 45 to 90 and that at the Benaras Hindu University from 20 to 40.

Six more institutions have started mining courses with an annual in-take of 25 each.

Four schools have also been started by the National Coal Development Corporation for training as Surveyors, Overmen, Surpervisors and Shortfirers etc.

Ten institutions have been set up by the respective State Governments with Central assistance for conducting National Certificate Course in mining and mine surveying.

Other steps taken by the Government of India included relaxation in the Coal Mines Regulations for a limited period to permit graduates in Mining Engineering to act as understudy to First Class Managers.

The feasibility of holding 2 examinations in a year, as against one at present, for Mine Managers was also being examined.

Training abroad of mining graduates was contemplated. State Governments have been asked to reorganize evening classes.

A Technological Institute was to be established with assistance from Czechoslovakia for training a large number of Indian technicians in designing light, medium and heavy machine tools. The place of location was yet to be decided.

Assistance from Czechoslovakia for this project would be about Rs. 60 lakhs worth of equipment, machinery and services.

The establishment of all these institutions would result in an intake of about 13,000 into degree courses and 25,000 in diploma courses by the year 1960-61.

An open door policy has also now been adopted for the establishment of technical institutions by private agencies. This has helped in the development of technical education in the country.

For the establishment of these institutions and for the development of the existing institutions the State and the Central Plans provided for a total outlay of Rs. 58 crores.

SCHOLARSHIPS

The Practical Training Stipend Scheme was formulated to give post-institutional practical training in industrial establishments to selected students qualifying from engineering and technological institutions. There are two categories of stipends, namely senior stipends of the value of Rs. 150 per month and junior stipends of the value of Rs. 100 per month which are awarded to graduates and diploma-holders in engineering and technology respectively. The stipends are instituted in selected Government establishments and industrial concerns who offer training under proper supervision and assume responsibility for it.

More than 2,000 training places were secured during 1959-60 all over India. Applications for practical training are received in the Regional Offices at Bombay, Calcutta, Madras and Kanpur through the heads of the institutions and selection of candidates for training is also done by these offices.

With a view to assisting meritorious students who are in indigent circumstances and are unable to prosecute technical studies, Government have formulated a scheme for the award of merit-cum-means scholarships for the benefit of deserving students prosecuting technical studies for degree and diploma in engineering and technology. The scheme has been implemented with effect from the academic session 1959-60. Under the scheme 583 scholarships each of the value of Rs. 75 were to be awarded to the first year students pursuing degree courses and 347 the first year students pursuing diploma courses. These scholarships will be allocated to engineering and techonological institutions in the country in proportion to the sanctioned intake or actual admissions during 1959-60. In addition 109 scholarships each of the value of Rs. 75 p.m. were proposed to be awarded to students studying in higher classes of the degree courses during 1959-60. These scholarships will be continued during 1960-61 subject to the awardee's fulfilling the conditions for the continuation and additional 930 scholarships (583 for degree courses and 347 for diploma courses will be instituted during 1960-61.

At the Higher Technological Institutes of the Central Government at Kharagpur, Bombay, and Madras, scholarships are awarded at the rate of Rs. 75 p.m. to about 25 per cent of the students in the undergraduate courses. A similar provision will also be made in the Northern Higher Technological Institute that will be established at Kanpur.

The Central Government are awarding scholarships of an adequate value of Rs. 150 p.m. to all students doing post-graduate courses in engineering and technology at all centres subject to a maximum number of 10 in each course. The Central Government have also instituted 800 research scholarships for science, engineering and technology at various universities and institutions in the country.

A National Council for Training in Vocational Trades constituted by the Government of India in June, 1957, advises Government regarding framing of policy for training of craftsmen and coordination of vocational training of national importance throughout the country. It prescribes standards in respect of syllabuses, equipment, duration of courses and methods of training. The Council also awards National Trades Certificates in engineering, building, textile, leather trades and so on.

The National Council is a central body, tripartite in character with representatives from industry, labour and government as members. Special emphasis is laid on the affiliation of private training centres.

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Trades tests on an all-India basis are being organised. Papers are set and moderated by experts from industry. In 1958-59, 11,088 trainees passed from the various institutions in the country.

FOREIGN-TRAINED TECHNICIANS

In 1960, it was estimated that there were 4,408 Indian students undergoing some sort of scientific or technical training abroad.

An investigation of this whole question was made by the National Register section of the Council of Scientific and Industrial Research. Some of the results of this investigation are given below. A national register of these persons is now maintained.

The broad distribution of these overseas scholars and trainees by country and category is shown below:

Country	Science	Engg.	Technology	Medicine	Total
U.S.A.	630	585	99	98	1,412
Canada	144	51	19	47	261
U.K.	224	921	146	207	1,498
Germany	74	440	83	15	612
Other European countries	66	127	32	14	239
Australia & New Zealand ..	17	14	12	2	45
African countries	27	32	12	13	84
Burma & Ceylon	28	44	8	9	89
Other countries	64	83	16	5	168
Total	1,274	2,297	427	410	4,408

The number of persons in each category who have intimated their return to India between 1st Dec. 1957 to 1st Dec. 1960 is given below.

Engineers 833; Scientists 520; Technologists 222; Medical personnel 167; Total 1,742.

IIIrd Plan: Financial outlay on technical education: Rs. 276·29 crores.

SOCIAL EDUCATION

Five point programme: literacy, education in health and hygiene, training for trade, profession or calling, citizenship, and healthy recreation.

It is also directed to arouse interest in the development plans in Community Project areas and to provide leadership.

The programme of Social Education is put through literacy classes, Community Centres, Youth Clubs, including Gram Raksha Dal, Farmers' Clubs and Mahila Samities and libraries which are an essential agency of mass education.

The number of State, Central and District Libraries has steadily increased. At present (Dec. 1959) there are 13 State Central and 180 District Libraries, in the country.

Radio listening and Discussion Groups, demonstrations and excursions have been effectively used. Besides radio, visual aids and printed literature have served as means of imparting education to the masses.

To have suitably trained personnel for the implementation of Social Education programmes, the Government of India have established 25 Janata Colleges for the training of village leaders. The Ministry of Community Development conducts a number of Social Education Organisers Training Centres under their scheme. A National Fundamental Education Centre has been set up to train District Social Education Organizers. The Centre, also conducts research and evaluation of social education programmes. So far 100 District Social Education Organisers have been appointed of whom 81 have been trained at the Centre (Dec. 1960).

To encourage production of suitable literature for neo-literates and social education workers, the Ministry has organized a number of schemes, including the award of prizes to authors, and the bulk purchase of good books.

The Ministry has its own programme of publishing literature for social education workers and neo-literates. Of ten volumes of Hindi Vishwa Bharati planned for publication, six volumes have already been brought out.

A pilot Workers' Institute is proposed to be set up at Indore.

With a view to properly organising social education in urban areas, Co-ordinating Councils are proposed to be set up in a few cities. In addition, the Third Five Year Plan provides for the development of the Delhi Public Library as a project to demonstrate the value of a Public literary system.

VIJNAN MANDIRS

The Vijnan Mandir scheme was launched in 1953 by the Council of Scientific and Industrial Research, Ministry of Scientific Research to make the rural people science conscious and to make them familiar with the scientific principles involved in the day-to-day problems arising in agriculture and village sanitation.

Upto the end of 1959, 38 Vijnan Mandirs were set up.

A Vijnan Mandir consists of a scientific wing, a library and a museum.

The scientific wing will have a laboratory for analysis of soil, water and food and will give demonstrations about common insects and pests, health and hygiene, common diseases and general scientific principles. There are period lectures by teachers of science. A science club is generally attached to the science wing for purposes of discussion and information. There will in addition be working models of a steam engine, an aeroplane, telephone and so on, which are probably made in the Mandir itself.

The library will have books on science in simple language.

The Museum will have specimens regarding the structure of the human body, the local flora, fauna, minerals, shells, corals, archæological relics and so on. There will also be improved models of utensils, ploughs, domestic implements.

The Vijnan Mandir will act as liaison between the villagers and the National Laboratories.

To foster interest competitions will be organized—such as essay writing and, modelling. Prizes will be given.

The Vijnan Mandirs are housed in buildings provided by the State Government. Each Vijnan Mandir is in the charge of a Vijnan Mandir officer. He is a member of the C.D. or N.E.S. Block team and his work is supervised by the Director of Public Instruction and by Regional Officers or Technical Assistants attached to a nearby National Laboratory. The work will be planned in accordance with instructions from the Ministry of Scientific Research and Cultural Affairs.

In Sept. 1959 the Government of India constituted a four-member Committee under the Chairmanship of Mr. Balwantray Mehta, M.P. to assess the work of Vijnan Mandirs and to make recommendations for their improvement. At the end of 1960, 38 Vijnan Mandirs were functioning. Establishment of five more Vijnan Mandirs has been sanctioned.

Below we give a State-wise list of Vijnan Mandirs:

Andhra Pradesh: Amadalavalasa (Distt. Srikakulam); Kapileswarapuram (Distt. East Godavari); Vicarabad (Distt. Hyderabad).

Assam: Dimoria (Distt. Kamrup); Hailakandi (Distt. Cachar).

Bihar: Haveli-Kharagpur (Distt. Monghyr); Ormanjhi (Distt. Ranchi); Vaishali (Distt. Muzaffarpur).

Delhi: Najafgarh.

Gujarat: Shahpur (Dist. Junagadh).

Himachal Pradesh: Sundarnagar-2 (Bhojpur), (Distt. Mandi).

Jammu and Kashmir: Ranbir Singh Pura (Distt. Jammu).

Kerala: Chengannur (Distt. Alleppey); Ramavaramapuram Pudur (Distt. Palghat).

Madhya Pradesh: Nowgong (Distt. Chattarpur); Sehore (Distt. Sehore).

Madras: Ariyagoundampatti (Distt. Salem); Shri Ramakrishna Mission Vidyalaya (Distt. Coimbatore); S. V. Nagram (Distt. North Arcot); T. Kallupatti (Distt. Madurai).

Maharashtra: Amaravati (Shivajinagar) (Distt. Amaravati).

Mysore: Devaraya Samudram (Distt Kolar); Mayasandra (Distt. Tumkur); Moodbidri (Distt. South Kanara).

Orissa: Angul (Distt. Dhenkanal); Bhadrak (Distt. Balasore); Hinjlicut (Distt. Ganjam).

Punjab: Nilokheri (Distt. Karnal).

Rajasthan: Dabok (Distt. Udaipur); Pisangan (Distt. Ajmer); Sardarshahr (Distt. Churu); Sumerpur (Distt. Pali).

Uttar Pradesh: Masauli (Distt. Barabanki).

West Bengal: Barsol (Distt. Burdwan); Ergoda (Distt. Midnapur); Haroa (Distt. 24-Parganas); Itachuna (Distt. Hooghly); Jhilimili (Distt. Bankura).

FREE AND COMPULSORY EDUCATION

At the end of the First Five Year Plan the position was as follows:—

The percentage of children in classes I to VIII to the population of children in the age-group 6-14 attending school was 41 per cent and was expected to rise to 50 at the end of the Second Plan. During the Third Plan, it will be increased still further to 75 and the goal of universal education may be reached by 1975.

Compulsory education for the age-group 6–11 (approximately) was introduced in selected areas of the various states, comprising 1,093 towns and 39,276 villages.

There were 46,218 schools in these areas, with an enrolment of 60,67,412 students.

The aim is now to achieve free and compulsory education by the end of the Third Plan, that is, by 1965 for the 6–11 age-group.

A new law for compulsory education was recently passed by Parliament for the Delhi Union Territory—The Delhi Primary Education Act, 1960. On the basis of this law, legislation in other States and Union Territories is being modernised.

Education in classes VI-VIII also is free in many parts; and where it is not free, steps are being taken to make it free in the near future.

Very high priority is being given to this programme in the Third Five Year Plan and a sum of about Rs. 200 crores (out of a total outlay of Rs. 500 crores allocated to education as a whole) is proposed to be spent on it.

The position about free education is as follows:

Andhra: Education is generally free upto class III.

Assam: Primary education is free for children in the age-group 6–11.

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Bihar : Education is free for children in the age-group 6–11.

Bombay :* Primary education is generally free.

Jammu and Kashmir : Education in the State has been made free from primary to college level.

Kerala : Primary education upto and including standard VIII is free.

Madras : Primary education is generally free in the State.

Madhya Pradesh : In Maha Koshal education upto the age of 14 is generally free. In Madhya Bharat, Vindhya Pradesh and Bhopal regions it is free only in Government schools.

Mysore : In the areas of the former Mysore State, education upto the age of 14 is free. In Bombay-Karnatak, Hyderabad-Karnatak and Madras-Karnatak areas primary education is free in the schools controlled by the Government and the local bodies. The aided schools in these areas, however, charge fees.

Orissa : Education is free for all children upto the age of 11.

Punjab : Education is free in 1. classes I to V in all Government schools, 2. all Government schools of the Kangra and Mohindergarh Districts, 3. Government schools in certain flood affected areas in Amritsar and Gurdaspur Districts.

Rajasthan : Education is free upto class VIII in Government schools.

West Bengal : Primary education is free upto the age of 11 in rural areas of the State and also in certain municipalities of the State.

Uttar Pradesh : Education is free in classes 1 to 6.

Delhi : Free primary education is imparted upto the age of 11 years. Concession of free education upto the age of 14 years has also been extended in all senior basic schools in rural areas of the territory.

Himachal Pradesh : Primary education free.

Laccadive, Minicoy and Amindivi Islands : Primary education is free.

Manipur : Education is free at the lower primary stage.

Tripura : Education is free in all Government schools.

Andaman and Nicobar Islands : Primary education is free.

The progress so far (Jan. 1960) made in the execution of the scheme for the countrywide training of primary school teachers for providing free and compulsory education by the end of the Third Plan is given below. The figure in brackets shows the grant in Rs. made by the Central Government.

Andhra Pradesh (Rs. 6,67,080): Opening of 25 additional training sections with intake of 50 trainees in each per year.

Assam (Rs. 17,01,500): (*i*) Expansion in the existing teacher training institutions by 520 seats. (*ii*) Opening of 8 new teacher training institutions.

Bihar (Rs. 55,82,138): (*i*) Expansion in the existing teacher training institutions by 1,700 seats. (*ii*) Opening of 21 new teacher training institutions.

*Bombay** (Rs. 24,66,000): Opening of 20 new basic training colleges.

Madhya Pradesh (Rs. 49,65,050): (*i*) Expansion in the existing teacher training institutions by 400 seats. (*ii*) Establishment of 23 new teacher training institutions.

Orissa (Rs. 28,80,000): Expansion in the existing teacher training institutions by 2,000 seats.

Rajasthan (Rs. 24,05,592): Opening of 16 new S.T.C. Training Schools.

Uttar Pradesh (Rs. 40,73,938): (*i*) Increasing the intake capacity of existing normal schools for boys by 250 trainees. (*ii*) Increasing the intake capacity of the existing normal schools for girls by 100 trainees. (*iii*) Opening of 42 new Government normal schools for boys and 6 new Government normal schools for girls.

West Bengal (Rs. 26,67,700): (*i*) Increasing the intake capacity of 18 junior basic training colleges by 320 trainees. (*ii*) Expansion in the existing primary training schools by 660 seats. (*iii*) Establishment of 9 new basic training colleges.

WOMEN'S EDUCATION

Women's education in pre-independence India was confined largely to non-governmental efforts in urban areas. According to the census of 1941 the percentage of literacy for women was as low as 6·0 as against 22·6 for men.

The proportion of boys to girls then in educational institutions was 100 to 30 and the disparity was the widest in the colleges of professional and special education where only 7 girls were under instruction for 100 boys enrolled.

The total number of girls under instruction at the end of March 1947, was 42,97,785. Of these, 34,75,165 girls were at the primary, 6,02,280 at the secondary and 23,207 at the collegiate stage and 56,090 were in special schools which opened out varied careers for women and 1,41,043 in unorganised institutions.

Out of the total number of 2,18,165 educational institutions at the time, 28,196 were specially meant for girls.

The period after 1947 has been marked by a planned approach to the problem of women's education.

In 1949-50 the number of universities and research institutes for girls was only one with an enrolment of 2,063; in 1956-57 their number increased to 2 and 6,155 respectively.

In 1949-50 there were 66 colleges of General Education with an enrolment of 36,313 girls; their number increased to 113 and 78,780 respectively in 1956-57.

In 1949-50 there were 17 colleges of professional and technical education with an enrolment of 3,606 girls; in 1956-57 their number increased to 34 and 9,954 respectively.

In 1949-50 there were 438 schools of vocational and technical education with an enrolment of 35,714 girls; in 1956-57 their number rose to 710 and 56,376 respectively.

During the same period the number of women teachers rose from 1,16,602 to 2,02,972. Out of this increased number of women teachers, 1,21,265 were in primary schools, 31,080 in middle schools, 39,133 in secondary schools, 4,608 in universities and colleges and the remaining in other types of schools.

There is a constantly widening disparity between the rates of progress of boys' and girls' education. Even the targets in the first two Plans tended to increase this disparity. The First Plan sought to raise the number of pupils between 6 and 11 from 42 per cent in 1950-51 to 51 per cent in 1955-56, the percentage rise of boys was 10 and of girls 8 per cent. At the end of the Second Plan the target was to raise the enrolment of boys by 17 per cent and of girls by 7 per cent only.

Similarly, in the age group 11 to 14 at the end of the First plan the enrolment of boys went up by 8 per cent and of girls by only 3 per cent. At the end of the Second Five Year Plan, the enrolment of boys would thus go up by 6 per cent and of girls by only 2 per cent.

The National Committee on Women's Education appointed in May 1958 under the chairmanship of Mrs. Durgabai Deshmukh submitted a report on Jan. 5, 1959.

Because of the extreme backwardness of women's education the Committee felt the need for adopting special measures. They made 185 recommendations.

Among them were :—The education of women should be regarded as a special and major problem. The Centre should guide the States more actively in setting the targets and formulating schemes; it should assist them financially on a non-matching basis and should effectively watch the progress of implementation. For all this there should be a Rs. 100 crore special programme for the Third Plan covering pre-primary, primary, middle, secondary and collegiate education of girls and education of adult women. Measures to be taken should include attendance scholarships, special amenities in co-educational schools, quarters for women teachers, supply of free educational equipment and clothes, scholarships to poor and deserving girls, provision for hostels, and the provision of special educational facilities for adult women, attractive diversified courses suited to girls and incentives for women to work as teachers in rural areas.

A National Council at the Centre and a State Council in every State should be set up to advise the Government on suitable targets, programmes, policies and priorities for measures taking into account the regional needs. This programme should be implemented under the supervision of a joint educational adviser at the Centre and a Woman Joint Director in the State. To widen the scope of voluntary effort in the field of women's education all discrimination between Government and non-Govt. agencies taking up approved schemes should be done away with.

There is a National Council for Women's Education.

3rd Plan allotment for girls' education: Rs. 175 crores (Provisional). A new proposal is to set up a national institute for higher training of women in organization, administration and management.

Second Plan

During the Second Plan, the intention was to expand the educational facilities at the elementary stage, reorganise the pattern of secondary education and improve the quality of education at the collegiate level.

The major physical targets aimed at under the Second Five-Year Plan were :—

		From 1955–56	To 1960–61
(1)	Percentage of children of age-group 6–11 to be brought under instruction to total population of the age group	52·1%	63·4%
(2)	Percentage of children of age-group 11–14 to be brought under instruction to total population of the age-group	16·3%	19·7%
(3)	Percentage of children of age-group 14–17 to be brought under instruction to total population of the age-group ..	8·1%	10·4%
(4)	Number of Primary/Junior Basic schools ..	278,135	330,847
(5)	Number of Junior Basic schools ..	11,073	33,513
(6)	Number of Middle/Senior Basic schools	21,730	25,185
(7)	Number of Senior Basic schools ..	4,842	10,768
(8)	Number of High or Higher Secondary schools ..	10,838	12,363
(9)	Number of High schools to be upgraded to Higher Secondary schools	47	1,197
(10)	Total number of Multi-purpose schools to be established	367	1,804
(11)	Universities ..	32	39

* Bilingual.

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For the introduction of Universal, Free and Compulsory Education for the age group 6-11 throughout the country by the end of the Third Plan, preparatory schemes such as provision of teachers' training facilities, strengthening of administrative staff, etc. have been included in the Second Plan.

NATIONAL SCHOLARSHIP SCHEME DURING THIRD PLAN

A Comprehensive National Scholarship Scheme will be introduced in the Third Five-Year Plan to give adequate financial assistance to students of merit for higher education.

The National Scholarship Scheme will be primarily meant for students with merit whose parents cannot afford higher education for them.

The main selection of students for the scholarships under this scheme would be made on the conclusion of the matriculation stage. The recipients of these scholarships would be treated as "national scholars." The scheme also envisages the giving of scholarships to students with promising merit in the pre-matriculation stage.

EDUCATIONAL RESEARCH

It was proposed to set up an autonomous organisation called the National Council of Educational Research and Training to provide "co-ordinated direction" to research and training in education.

A firm decision had been taken by the Government to provide free, compulsory education all over the country during the Third Five-Year Plan.

PRIMARY EDUCATION

By the end of the Plan, the number of primary schools was expected to increase to about 428,000 with a primary school within easy walking distance from the home of a child.

TEACHERS' CHILDREN

In the Third Plan it is proposed to establish an all-India scheme for the award of scholarships to the children of primary and secondary teachers, who showed outstanding performance at the matriculation or equivalent examinations. State Governments have been directed to give special financial assistance to teachers' children at the pre-matric stage. In most of the States education has been made free up to the eighth standard and it will be the endeavour to secure further concessions for teachers' children during the Third Plan."

The Government had also recommended the scheme for giving the benefit of provident fund, pension and insurance to teachers. A similar scheme had been in force in Madras for several years.

To improve the quality of teachers, it was sought to raise the percentage of trained teachers at the primary and secondary level to 75 by 1965-66. The present percentage is 60 and 68 respectively (Jan. '61). About 450,000 additional teachers for primary schools and 80,000 for secondary schools would be recruited for this purpose.

TRAINING COLLEGES

The Government of India also proposed setting up four regional teachers' training colleges as a Central Scheme in the Third Plan.

The output of these training colleges would be 200 trained teachers per college a year.

The Extension Service centres would be attached to another 25 training colleges in the Third Plan.

POPULARISING HINDI

The Government of India also proposed to invite various voluntary organisations to form themselves into an all-India federation to help the popularisation of Hindi in a smooth and co-ordinated manner.

It had been decided to initiate a project of translation and preparation of standard text-books and reference books of science, technology and humanities with the Government of India bearing the entire cost of preparation and production of these books. This scheme had been put into operation in Madhya Pradesh, Rajasthan and Bihar.

Recently it had been decided to extend this scheme to the translation of books to all the languages of India. A 100 per cent. grant would now be available to the State Governments and universities from the Government of India for the purpose.

SECONDARY EDUCATION BOARD

It was hoped to establish a Central Board of Secondary Education soon. The need for such a board had made itself felt for conducting examinations for certain categories of students whose special requirements could not be met by the State Boards. There were some schools in the country which were not affiliated to any State Board but to examining bodies outside the country. Then there were students whose parents moved on transfer from State to State and, therefore, they would like to take their examinations wherever their parents were posted. There were certain schools outside the country catering for the Indian population abroad which would like to take the examinations conducted by an Indian Board. To meet the special requirements, the Government had under consideration the proposal of the Ajmer Board to reconstitute itself into a Central Board of Education.

NON-AFFILIATED INSTITUTIONS FOR DEGREE OR DIPLOMA ENGINEERING, TECHNOLOGY, COMMERCE, ETC.

[*Note :* See also under Universities in each State.]

ANDHRA

Alladin Technical Training Institute, Begul Kunta, Hyderabad; Andhra- Polytechnic, Kakinada; Engineering College, Anantapur; Govt. Technical College, Saifabad, Hyderabad; Government Ceramic Institute, Gudur; Vuyyur Polytechnic, Vuyyur; Central Crafts Institute, Mallepally, Hyderabad; Government College of Fine Art, Hyderabad; Industrial Training Institute, Anantapur; Industrial Training Institute, Kakinada; Visakhapatnam Polytechnic, Visakhapatnam; Warangal Polytechnic, Warangal; Government Mining Institute, Kothagudem; Hyderabad Polytechnic, Hyderabad; Polytechnic Engineering College, Kakinada; Polytechnic, Mahboobnagar; Sri Venkateswara Polytechnic, Tirupathi; Vuyyuru Polytechnic, Vuyyuru.

ASSAM

Assam Engineering Institute, Gauhati; H.R.H. Prince of Wales Institute of Engineering and Technology, Jorhat.

BIHAR

Bhagalpur School of Engineering, Bhagalpur; Dhanbad Polytechnic, Dhanbad; Indian School of Mines and Applied Geology, Dhanbad; Industrial Training Institute: Bhagalpur; Darbhanga; Dhanbad; Digha; Gaya; Katihar; Kodarma; Muzaffarpur; Jamshedpur Technical Institute, Jamshedpur; Junior Technical School, Dehri; Junior Technical Schools, Marhourah (Saran); Kodarma Mining Institute, Kodarma; Mining Classes, P.O. Bhaga (Dist. Dhanbad); Patna Polytechnic, Patna; Patna School of Engineering, Patna; Ranchi School of Engineering, Ranchi; Tirhut School of Engineering, Muzaffarpur; Chaibasa Technical School, Chaibasa; Ranchi Technical School, Ranchi; Sindri School of Engineering, Sindri; Welfare Technical School, Dumka; Welfare Technical School, Ranchi.

DELHI

Delhi Polytechnic, Delhi.

GUJARAT

Birla Vishwakarma Mahavidyalaya Vallabh Vidyanagar (*Via* Anand); C. N. Polytechnic, Ahmedabad; Dr. S. & S. S. Gandhy College of Engineering and Technology, Surat; Faculty of Technology, Baroda; Government Polytechnic, Ahmedabad; Government Technical High School, Kalol; Lukhdhirji Engineering College, Morvi; P. L. Smarak Technological College, Lathur; R. C. Technical Institute, Ahmedabad; Shri A. V. Parikh Technical Institute, Rajkot; Sir Bhavsinhji Polytechnic, Bhavnagar.

KERALA

Alagappanagar Polytechnic, Alagappanagar; Carmel Polytechnic, Pandalam; Central Polytechnic, Trivandrum; Govt. Polytechnic, Kalamasseri; Institute of Textile Technology, Trivandrum; Kerala Polytechnic, Kozhikode; Maharaja's Technological Institute, Trichur; N.S.S. Polytechnic, Pandalam; S. N. Polytechnic, Quilon; Sri Rama Polytechnic, Thriprayar.

MADHYA PRADESH

Central Technical Institute, Gwalior; Govt. Polytechnic, Jaora; Govt. Polytechnic, Nowgong (Chhatarpur); Govindram Saksaria Technological Institute, Indore; Kala Niketan, Jabalpur; Leather Technological Institute, Morar; Government Polytechnic, Ujjain; Samrat Ashok Technological Institute, Bhilsa; Government Kirodimal Polytechnic, Raigarh; Government Mining Polytechnic, Chhindwara; Government Polytechnic, Jabalpur; S. V. Government Polytechnic Institute, Bhopal.

MADRAS

Alagappa Polytechnic, Alagappa College Post, Karaikudi; Annamalai Polytechnic, Chettinad; Central Polytechnic, Madras; C. N. Technical & Industrial Institute, Vepery, Madras; Govt. Polytechnic, Peelamedu, Coimbatore; Institute of Leather Technology, Washermanpet, Madras; Madras Institute of Technology, Chromepet P.O., Chingleput Dist.; P. S. G. and Son's Charity Industrial Institute, Peelamedu, Coimbatore; Ramakrishna Mission Technical Institute, Madras; Regional School of Printing, Broadway, Madras; Seshasayee Institute of Technology, Tennur, Tiruchirapalli; Tamilnad Polytechnic, Madurai; Murugappa Chettiar Memorial Polytechnic, Avadi, Madras; Muthiah Polytechnic, Annamalainagar; Nachimuthu Polytechnic, Pollachi; Sankar Institute of Polytechnic, Talaiyuthu; Thiagarajar Polytechnic, Salem; Valivalam Desigar Politechnic, Tanjore; Virudhunagar S. V. Polytechnic, Virudhunagar.

MAHARASHTRA

Bombay Technical School, Bombay; College of Engineering, Poona; Indian Institute of Technology, Bhandhup, Bombay; Kala Niketan, Amravati; M. H. Saboo Siddik Technical Institute, Bombay; Navbharat Audiyogiga Vidyalaya, Bombay; Northcot Technical High School, Sholapur; Government Leather Working School, Bandra (Greater Bombay); Govt. Polytechnic, Amravati; Govt. Polytechnic, Karad; Govt. Polytechnic, Nagpur; Govt. Polytechnic, Poona; Govt. Polytechnic, Sholapur; Govt. Tanning Institute, Khar, Bombay; Institute of Engineering & Technology, Dhulia; School of Printing Technology, C/o J. J. School of Arts, Bombay; St. Xavier's Technical Institute, Bombay; Sir Cusrow Wadia Institute of Electrical Technology, Poona; Victoria Jubilee Technical Institute, Bombay; Deccan Education Society's Technological Institute, Poona; Walchand Engineering College, Sangli.

MANIPUR

Industrial Training Institute, Imphal.

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MYSORE

D. R. R. Occupational Institute, Davangeré; Smt. L. V. Polytechnic, Hassan; National Institute of Engineering, Mysore; Polytechnic, Bellary; Polytechnic, Chintamani; Polytechnic, Gulbarga; School of Engineering, Bangalore; School of Mines, Kolar G. F., Oorgaum, Kolar; Silver Jubilee Polytechnic, Bhadravati; Sri Jayachamarajendra Polytechnic, Bangalore; Sri K. Silver Jubilee Technological Institute, Bangalore; Dharmaprakasa C.P.C. Occupational Institute, Mysore; Karnatak Polytechnic, Mangalore; Acharya Pathasala Polytechnic, Basavanagudi, Bangalore; Basaveswara V.V.S. Polytechnic, Bagalkot, Bijapur; B. V. Bhoomaraddi College of Engineering, Hubli; D. A. C. G. Polytechnic, Chickmagalur; K. H. Kabbur Institute of Engineering, Dharwar; Mysore Technical Education Society, Bangalore; Polytechnic, Channapatna; Polytechnic, Chintamani; Polytechnic, Karwar; Polytechnic, Tumkur.

ORISSA

Automobile and Diesel Training Institute, Cuttack; Berhampur Engineering School, Berhampur; Engineering School, Jharsuguda; Industrial Training Centre, Cuttack; Industrial Training Institute, Berhampur; Industrial Training Institute, Hirakud; Orissa School of Engineering, Cuttack; Technical Training Institute, Takatpur.

PUNJAB

Choturam College of Education, Rohtak; Government Hosiery Institute, Ludhiana; Government Institute of Dyeing & Calico Printing, Ludhiana; Govt. Surgical Instruments Centre and Developments Laboratory, Sonepet; Government Tanning Institute, Jullundur; Government Polytechnic, Ambala; Guru Nanak Engineering College, Ludhiana; Mehar Chand Technical Institute, Jullundur; National Institute of Engineering, Hoshiarpur; Punjab Institute of Textile Technology, Amritsar; Punjab Polytechnic, Nilokheri; Ramgarhia Polytechnic, Phagwara; Thapar Institute of Engineering and Technology, Patiala; Tara Karan S.D. Technical Institute, Baij Nath (Kangra); Technological Institute of Textiles, Bhiwani; Vishvakarma Institute of Engineering and Technology, Ludhiana; Vaish College, Rohtak.

RAJASTHAN

Ajmer Polytechnic, Ajmer; Jodhpur Polytechnic, Jodhpur; Udaipur Polytechnic, Udaipur.

TRIPURA

Tripura Polytechnic Institute, Bimangarh, Narsingarh.

UTTAR PRADESH

Civil Engineering School, Chandauli (Varanasi); Civil Engineering School, Lucknow; C.M.S. Govt. Institute of Chemical Technology, Daurala (Meerut); Government Wood Working Institute, Allahabad; Government Central Textile Institute, Kanpur; Government Central Weaving Institute, Varanasi; Govt. College of Arts and Crafts, Lucknow; Govt. Leather Working School, Kanpur; Government Polytechnic, Allahabad; Government Polytechnic, Dehra Dun; Government Polytechnic, Jaunpur; Government Polytechnic, Ghazipur, Lucknow; Govt. Polytechnic, Gorakhpur; Govt. Polytechnic Institute, Lucknow; Govt. Polytechnic Institute, Meerut; Government Technical Institute, Gorakhpur; Government Technical Institute, Jhansi; Government Technical Institute, Lucknow; Govt. Technical Training Centre, Gandhi Vidya Niketan, Nainital; Harcourt Butler Technological Institute, Kanpur; Hewett Engineering School, Lucknow; I. D. Technical Institute, Bahjoi; M. G. Technical Institute, Hathras; M.P. Engineering Institute, Gorakpur; National Sugar Institute, Kanpur; Northern School of Printing Technology, Allahabad; Overseer School, Nainital; Prem Mahavidyalaya Engineering College, Mathura; Technical College, Dayalbagh, Agra; Technical Institute, Handia (Allahabad); Civil Engineering College, Meerut; Civil Engineering School, Allahabad; Civil Engineering School, Ballia; D.B.S. Engineering College, Kanpur; Deonagri Institute of Engineering, Meerut; D. J. Engineering Institute, Baraut (Meerut); Gandhi Engineering Institute, Baghra; K. L. Technical Institute, Roorkee; K. P. Engineering Institute, Allahabad; R. S. S. Civil Engineering Institute, Dhaulana (Meerut); The Engineering Vocational School, Lucknow.

WEST BENGAL

Air Technical Training Institute, Dum Dum; Asansol Polytechnic, P.O. Asansol; Bengal Ceramic Institute, 71, Sura First Lane, Beleghata; B.P.C. Institute of Technology, Krishnagar; Calcutta Technical School, Calcutta; College of Aeronautical Services, Dum Dum; College of Leather Technology, Calcutta; College of Textile Technology, Berhampore; College of Textile Technology, Serampore (Hooghly); Directorate of Marine Engineering Training, New Taratala Road, Calcutta; Hooghly Institute of Technology, Hooghly; Institute of Jute Technology, Calcutta; Jadavpur Polytechnic, Jadavpur; Jalpaiguri Polytechnic, Jalpaiguri; Jhargram Polytechnic, Jhargram (Midnapur); Kanchrapara Technical School, Kanchrapara; K. G. Engineering Institute, Vishnupur, Bankura; M. B. C. Institute of Engineering & Technology, Burdwan; Murshidabad Institute of Technology, Murshidabad; Purulia Polytechnic, Purulia; R. K. Mission Silpa Mandir, Belur, Howrah; R. K. Mission Silpa Pith, Belgharia; Sree Ramakrishna Silpa Vidyapith, P.O. Suri, Birbhum Dt.; School of Printing Technology, Jadavpur, Calcutta-32.

AGRICULTURE AND DAIRYING

Government Agricultural Institute, Bulandshahr (U.P.); Government Agricultural Institute, Chirgaon (U.P.); Agriculture Institute, Laxmipur, Panna, Madhya Pradesh.

Allahabad Agricultural Institute, Allahabad; F.N.E. Agricultural School-cum-Extn. Training Centre, Rajghat, Varanasi; Gurukul University, Kangri; K. M. Munshi Land Institute, Sarojini Nagar, Lucknow; Sri Gandhi Smarak Agricultural School, Samodhpur (Jaunpur); Rajakiya Krishi Vidyalaya, Gorakhpur; National Dairy Research Institute, Bangalore.

BANKING, COMMERCE AND CO-OPERATION

Anwar-ul-Uloom Dip. College of Commerce, New Mallapally, Hyderabad; Govt. College of Commerce, Hyderabad; College of Commerce, Patna; Co-operative Training College, Poona; Sydenham College of Commerce and Economics, Bombay; Delhi Polytechnic, Delhi; Cooperative College, Trivandrum; Fatima Mata National College, Quilon; Sanatan Dharam College, Alleppey; Goenka College of Commerce and Business Administration, 210, Bow-bazar Street, Calcutta.

DOMESTIC SCIENCE

Lady Irwin College, New Delhi; Domestic Science Training College, Hyderabad; Girls' Vocational Institute, Aurangabad; Girls' Vocational Institute, Gulbarga; Girls' Vocational Institute, Warangal; Girls' Vocational Institute, Hyderabad; Girls' Vocational Institute, Secunderabad; Nirmala Niketan Home Science Institute, New Marine Lines, Bombay.

FORESTRY

Southern Forest Rangers College, Coimbatore; Indian Forest College, Dehra Dun; Northern Forest Ranger College, Dehra Dun.

MARINE TRAINING

Training Ship "Dufferin", Bombay.

MUSIC AND FINE ARTS

Madhava Music College, Gwalior; Government School of Arts, Simla; S.S.T. Academy of Music, Trivandrum; Bhatkhande (Marris) College of Hindustani Music, Lucknow; Kamboj Sapt-kala Niketan, Meerut; Prayag Sangit Samiti, Allahabad; Sangeet Vidyalaya, Almora; All India College of Music, Arts and Crafts, Dhakuria (24-Parganas); Arya Sangeet Vidyapeeth, 199, Landsdowne Road, Calcutta; Bengal Music College, 4, Hindusthan Road, Calcutta; Government College of Arts and Crafts, 28, Chowringhee Road, Calcutta; Ram Saran College of Music, Vishnupur, Bankura; Laxmi Kala Bhawan, Dhar; M. S. Bhand's School of Arts, Gwalior; Music College, Indore; Harishikesh Sangeet Vidyalaya, Nabadwip, Nadia; Ajmer Music College, Ajmer.

Govt. College of Fine Arts, Gunfoundry, Hyderabad; Gauhati Music College, Gauhati; Music Academy, Palghat; R. L. V. Music Academy, Tripunithura; R. V. School of Painting, Mavelikara; School of Arts, Trivandrum; Anand Sangeet Vidyalaya, Dhar; Govt. College of Fine Arts, Gwalior; Kala Mahavidyalaya, Indore; Govt. School of Arts & Crafts, Orissa, Khallikote; Utkal College of Music and Dance, National Music Association, Cuttack; College of Music and Fine Arts, Agartala; Bhatkhande Sangeet Vidyapeeth, Lucknow; Govt. College of Arts and Crafts, Lucknow; Sangeet Samaj College, Meerut; Academy of Dance, Drama and Music, 5, Dwarkanath Tagore Lane, Calcutta; Gita Bitan Shikshayatan, 25-B, Shyam Prasad Mukerjee Road, Calcutta; Sir J. J. School of Art, Bombay; Sir J. J. School of Commercial Art, Bombay; Bhatkhande Sangeet Mahavidyalaya, Bilaspur; Bhatkhande Sangeet Mahavidyalaya, Jabalpur; Indian Sangeet Academy, Khairagarh; Kamla Devi Kala Mandir, Raipur; Madhav Sangeet College, Ujjain; Music College Maihar; Music School, Mandsaur; Music School, Narsinghgarh; Shri Ram Sangeet Mahavidyalaya, Raipur.

ORIENTAL LEARNING AND THEOLOGY

Swadhyaya Mandal, Killa-Pardi (Dist. Surat); Government Sanskrit College, Gwalior; Sanskrit Mahavidyalaya, Indore; Maharaja's Sanskrit College, Mysore; Sanskrit College, Melkote (Mysore); Sanskrit College, Siddaganga (Mysore); Sri Chamarajendra Sanskrit College, Bangalore; Bidyabhushan Sanskrit College, Balangir (Orissa); Sadasiva Sanskrit College, Puri; Birla Sanskrit College, Pilani; Government Sanskrit College, Alwar; Government Sanskrit College, Jodhpur; Government Sanskrit College, Sikar (Rajasthan); Maharaja's Sanskrit College, Jaipur; Sanskrit College, Nathdwara (Rajasthan); Shri Dadu Mahavidyalaya, Jaipur; Shri Digamber Jain Sanskrit College, Jaipur; Shri Sardul Brahamcharya Ashram Sanskrit College, Bikaner; Shri Vithal Nath Sanskrit Mahavidyalaya, Kotah; Darul-Uloom, Deoband (U.P.); Calcutta Madrasah, 21, Wellesley Square, Calcutta; Serampore College, Serampore, Hooghly.

Nalbari Sanskrit College, Nalbari; Govardhan Sahitya Mahavidyalaya, Hindi Vidyapith, Baidyanath, Deoghar; Institute of Post-Graduate Studies & Research in Arabic and Persian Learning, P.O. Mahendru (Patna); Nava Nalanda Mahavihara, Nalanda (Patna); Govt. D.S.V. Sanskrit Mahavidyalaya, Raipur; S. B. S. College, Karkala; Parlakimedi Sanskrit College, Parlakimedi; Chamadiya Sanskrit College, Fatepur; Maharana Sanskrit College, Udaipur; Rishikul Brahmacharyashram Sanskrit College, Lakshman Garh; Shri Ramanuj Sanskrit College, Didwana; Shri Gurukul, Chittorgarh; Darul-Uloom Nadvat-ul-Uloom, Lucknow; Govt. Oriental College, Rampur; Gurukul Vishwa Vidyalaya, Vrindaban, Mathura; Kanya Gurukul, Dehra Dun; Madrasa Mazahir-ul-Uloom, Saharanpur; Abhyanand Sanskrit Mahavidyalaya, Shahdol; Vanket Sanskrit College, Rewa; Ramdhin Sanskrit College, Berhampur; Government Sanskrit College Alwar; Calcutta Madrasah, 21, Hazi Muhammad Mohsin Square, Calcutta.

PHYSICAL EDUCATION

Andhra Training College of Physical Education, Vijayawada; Government College of Health and Physical Education, Patna; Training Institute for Physical Education, Kandivli (Bombay); Hanuman Vyayam Prasarak Mandal, Amravati; Y.M.C.A. College of Physical Education, Saidapet, Madras; Government College of Physical Education, Rampur.

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Govt. School of Physical Education, Hyderabad; G. S. College of Yoga and Cultural Synthesis, Lonavla; College of Physical Education, Trivandrum; Physical Education College, Kozhikode; Govt. College of Physical Education, Orissa, Cuttack; Government College of Physical Education for Women, Allahabad; Shri Gandhi Smarak Training Institute, Samodhpur (Jaunpur); Post-Graduate Training College of Physical Education, Banipur, P.O. Baigachi (24-Parganas); Lakshmibai College of Physical Education, Gwalior; Government College of Physical Education, Jodhpur; Christian College of Physical Education, Lucknow.

RURAL STUDIES

Rural Institute of Higher Studies, Sundernagar, Birauli, Darbhanga; A. J. Vidya Bhawan (Graduates' Basic Training Centre), Gargoti (Dist. Kolhapur); Lok Bharati Lok Seva Mahavidyalaya, Sanosara (Saurashtra); Lok Bharati Rural Institute, Sanosara; Rural Institute, Shivajinagar, Amravati; Shri G. K. Institute of Rural Education, Gargoti (Dist. Kolhapur); Jamia Millia Rural Institute, Jamia Nagar, New Delhi; Shri Ramakrishna Mission Vidyalaya Rural Institute, College of Rural Higher Education, Shri Ramakrishna Vidyalaya P.O., Perianaikenpalayam, Coimbatore; The Gandhigram Rural Institute, Gandhigram (Dist. Madurai); Vidya Bhavan Rural Institute, Udaipur; Balwant Vidyapeeth Rural Institute, Bichpuri, Agra; Institute of Rural Higher Education, Sriniketan (W. Bengal).

SOCIAL SCIENCES

Tata Institute of Social Sciences, Chembur, Bombay; Kashi Vidhyapith, Varanasi; The Indian Institute of Social Welfare and Business Management, College Square, Calcutta; Social Education Organisers' Training Centre, Gopalpur.

STATISTICS

Statistical Branch of Indian Council of Agricultural Research, New Delhi; Research Training School of the Indian Statistical Institute, Calcutta.

TEACHERS' TRAINING

Teachers' Training College, Ranchi; Graduate Basic Training Centre, Dhulia (Maharashtra); Graduate Basic Training Centre, Rajpipla (Gujarat); Graduate Basic Training Centre, Dharwar; Lady Irwin College, New Delhi; Domestic Science Training College, Hyderabad; Balwant Rajput College, Agra; D. A. V. College, Kanpur; Government Basic Training College, Lucknow; Government College of Home Science for Women, Allahabad; Government Constructive Training College, Lucknow; Government Junior Basic Training College, Allahabad; Government Junior Basic Training College, Lucknow; Government Junior Basic Training College, Muzaffarnagar; Government Nursery Training College, Allahabad; Government Training College for Women, Allahabad; Government Training College for Women, Lucknow; Kishori Raman College, Mathura; K. P. Training College, Allahabad; Meerut College, Meerut; Tilak Dhari College, Jaunpur; Government Central Pedagogical Institute, Allahabad; St. Mary's Convent Training College, Allahabad; Training College for Teachers for Schools for Defectives, Lucknow.

Govt. Post-Basic Training College, Pentapadu; Post-Graduate College, Jorhat; Teachers' Training College, Bhagalpur; Teachers' Training College, Turki; Acharya Jawadekar Vinay Bhawan, Gargoti (Dist. Kolhapur); Gandharva Mahavidyalaya Mandal, Poona; Graduate Basic Training Centre, Porbandar; Nai Talim Bhavan-Sevagram (Wardha); Jamia Teachers' College, Jamia Millia Islamia, Jamianagar (New Delhi), Basic Training College, Ramavarmapuram, Trichur; Post-Graduate Basic Training College, Doddabalapur (Bangalore Dist.); Ahir College, Rewari; Dayanand Training Institute, Nawanshahr, Doaba; Govt. School of Arts, Simla; Janta High School and Training School, Butana, Rohtak; Mehar Chand Technical Institute, Jullundur; Ramgarhia Training College, Phagwara; Tara Karan S. D. Technical Institute, Basic Training (Teachers') College, Agartala; Bureau of Psychology, Allahabad; Christian Training College, Lucknow; Dharan Samaj Teachers' Training College, Aligarh; Govt. College of Arts and Crafts, Lucknow; United Church of Northern India Girls' Higher Secondary School, Dehra Dun; Govt. College of Arts & Crafts, 28, Chowringhee Road, Calcutta; Loreto College, 7, Middleton Row, Calcutta; Post-Graduate Basic Training College, Banipur (24-Parganas); Senior Basic Training College, Banipur (24-Parganas); Shree Ramakrishna Senior Basic Training College, Darjeeling. Post-Graduate Basic Training College, Titabar; Hindi Teachers' Training Institute, Agartala; Government Wood Working Institute, Allahabad; K. R. Training College for Girls, Mathura; Lal Bagh Girls' H. S. School (Nursery classes), Lucknow; Chittaranjan Teachers' Training Centre, 101, Beltala Road, Calcutta; Geeta Vani, Nidayaghat, Nibadwip, (Nadia); Senior Basic Training College, Barsul (Burdwan); Teachers' Training Institution, 398/1, Keyatala Lane, Calcutta; Gokhale Memorial Girls' College, 1/1, Harish Mukherjee Road, Calcutta.

VETERINARY SCIENCE

Assam Veterinary College, Gauhati; Rajasthan College of Veterinary Science and Animal Husbandry, Bikaner; Indian Veterinary Research Institute, Izatnagar (U.P.); Indian Veterinary Research Institute, Mukteshwar (U.P.).

COMMUNITY DEVELOPMENT PROJECTS AND PANCHAYATS

At the Centre the Ministry that is responsible for community development projects is the Ministry of Community Development and Co-operation. This Ministry came into being in its present form on Dec. 30, 1958. It is now responsible also for village panchayats.

The C. D. programme completed 8 years of its operation on 1st Oct. 1960. During this year 400 new blocks were opened bringing the total to 3,110, excluding 490 pre-extension blocks allotted during 1960.

The expenditure during the first four years of the Second Plan was Rs. 137·73 crores while people's contribution for the same period was Rs. 63·61 crores. 3rd Plan outlay: Rs. 297 crores.

Details of blocks according to years are as follows:—

1952—211½; 1953—336; 1954—279; 1955—242½; 1956—488½; 1957—646; 1958—224; 1959—282 and 1960—400½.

BUDGET

	Revised Estimates 1960–61 (Rs. lakhs)	Budget Estimates 1961–62 (Rs. lakhs)
Grants to States ..	1,968·74	1,813·12
Central Schemes (training etc.)	80·84	45·60
Loans to States ..	1,400·00	1,650·00
Third Party loans for Union Territories ..	8·62	6·37
Total	3,458·25	3,515·09

The period also marked, as indicated below, the beginning of a new phase in the planning and implementation of the programme. With the channelising of funds from different departments for development plans through the Panchayat Samitis, the already accepted principle of treating the Block as the unit of territorial development has become a reality.

Village panchayats will send their elected Sarpanches to the new statutory body known as the Block Panchayat Samiti. The Samiti will have other co-opted members representing women, depressed and scheduled classes. The body will have a President and a Vice-President. The administrative personnel in the Block besides the budget and other resources of Government, will be placed at the disposal of this new body. The Community Development Programme along with all individual departmental programmes of Government in the Block will be vested in this body. The Presidents of Block Panchayat Samitis together with the M.Ps. and the M.L.As. in the district will constitute the Zilla Parishad. The Zilla Parishad in collaboration with the Collector and the technical departments at the district will offer guidance and assistance to the Block Panchayat Samitis without controlling them.

At each of the levels there will be functional sub-committees looking after individual subjects of development. These functional committees will consist of members from representative institutions and associate organizations like village co-operatives and Yuvak, Bal, Mahila, and Dastkar Mandals.

TRAINING

Although a consequent change in the functions of the official agency inevitably follows, its responsibility will, however, continue to increase in the direction of providing technical knowledge and expert advice, as well as prompt and efficient execution.

In this context, the need for education and training for all those associated with the programme assumes a sense of very great urgency. The magnitude of the problem will be apparent from the fact that by the end of 1963, when the entire country will be covered by the C.D. Programme, about 16 lakhs of Panches, four lakhs of Sarpanches and Upsarpanches, 5,000 Pradhans, and more than 300 Pramukhs will be associated with the programme. Besides, nearly two lakh Panchayat Secretaries will have to be trained. The number of other officials in different categories working under the control of the elected statutory institutions at the Block and district levels, will also exceed a lakh.

Facilities for training of various categories of personnel were increased by opening new institutions or enlarging the capacity of existing ones. The content of training was also substantially improved by the revision of syllabi. For the sake of better mutual understanding, officials and non-officials were brought in closer contact by providing institutional training for the Pradhans and Pramukhs and by earmarking certain percentage of seats in the Orientation and Study Centres.

A scheme of training for members of Panchayat Samitis and non-official members of the Block Development Committees was launched. The syllabus for this training which is conducted through short-duration camps, was drawn up by a committee of M.Ps.

Central Institute of Study & Research in Community Development, Mussorrie conducted six orientation courses during the year 1960. Since its inception 15 courses were held and 508 persons participated. The research wing of the

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institute has been established. Fundamental research in Community Development is conducted through universities. Research schemes have been sanctioned to Andhra, Baroda, Patna, Poona and Rajasthan Universities.

Institute for instruction on Community Development, Rajpur continued to run courses for instructors of training centres and Dt. Panchayat Officers. Instructors and Dt. Panchayat Officers who received training from the institute were 59 and 118 respectively. There are ten Orientation and Study Centres having their centres at the following places: Nilokheri (Punjab), Bakshi-ka-Talab (U.P.), Ranchi (Bihar), Rajendranagar (A.P.), Udaipur (Rajasthan), Mysore (Mysore), Jabalpur (M.P.), Junagadh (Gujarat), Bhavanisagar (Madras), and Kalyani (West Bengal). The last two were to start functioning from April 1961. Prior to reorganisation in 1958, 2,311 officers had received training.

For the training of Social Education Organisers and Mukhya Sevikas six training centres having two units are functioning. So far 3,307 Social Education Organisers have been given job training including 297 men who received training in 1960. Mukhya Sevikas who were given job training so far were 1,605 including 85 Mukhya Sevikas of 1960 batch. 212 Mukhya Sevikas were under training on 31st Dec. 1960. Special training in tribal work were imparted to 419 Social Education Organisers and Mukhya Sevikas.

To improve training programme the following steps have been taken :—1. Scheme for the study of special field problems has been introduced at the S.E.O. Training Camps at Sriniketan, Belurmath, Baroda and Ranchi. 2. Scheme for production of literature for Community Development workers has been introduced at the S.E.O.T.Cs, Sriniketan, Gargoti, Gandhigram and Udaipur. 3. Field Extension Programme as a part of training has been taken at all the S.E.O.T.Cs. 4. For each S.E.O.T.C. & M.S.T.C. a region comprising few adjoining States has been earmarked for allotting trainees. 5. A long term schedule of training programme for each S.E.O.T.C. & M.S.T.C. has been drawn up.

During the year 1960-61, 343 persons received training of Extension Officers (Industries) bringing the total number of Extension Officers trained so far to 1,874. At present (March '61) 442 Extension Officers are under training.

During 1960, 406 received orientation training. Upto Dec. 31, 1960, 2,405 underwent training. During 1960, 6005 village level workers (gram sevaks) completed training bringing the total so far trained to 42,562.

Advisory board :—An advisory board on training consisting of some members of Parliament, Officials and a few others has been constituted, to organise, supervise and guide the expanding training and education programmes of officials and non-officials undertaken by the Ministry. Three committees of the advisory board on training have been constituted in order to deal with the following :—

1. Central Institute of Study & Research in Community Development. 2. Orientation and Study Centres and other Training Centres at the National and State level. 3. Study & Orientation Programme at the District level and below.

So far 3,365,090 Gram Sahayaks received training. During the year 1959-60 six training camps for the instructors of the non-official members of block development committees were organised by the Ministry of Community Development and Co-operation at Delhi, Hyderabad, Jabalpur, Ranchi, Gurukul Indraprastha and Sriniketan in which 208 persons nominated by the State Governments were given training for 2 weeks. These trained instructors have been engaged by the State Governments for training the non-official members of block Development Committee.

So far 174 Pradhans and non-officials have participated in the orientation Courses. (March' 61).

A number of foreign officials had training in the various aspects of the Community Development Programme under the United Nations Technical Assistance Programme, Colombo Plan, Technical Co-operation Mission of United States of America, United Nations Economic, Social and Cultural Organisation, United Nations Food and Agricultural Organisation etc.

During the year 1960 publications regarding Community Development Schemes in regional languages were supplied to 145 blocks, 5 training centres and 14,183 village libraries.

PROGRESS

Below we give a few notes on various items in relation to community projects.

ACTIVITIES, 1960

Extension in the field of agricultural production continued to be the main task of the block during the year. At the annual conference it was recommended an increased provision from the existing 3·9 lakhs to Rs. 45 lakhs for minor irrigation, land reclamation, animal husbandry and fisheries. State Governments have been requested to take up the preparation of village production plans through Co-operative and Panchayats. To remove the initial difficulties in preparing these plans, it is proposed to organise a workshop of field workers. Arrangements are being made to select outstanding Gram Sahayaks for further training at the Agricultural Institutions.

Efforts have been made to improve administrative co-ordination at all levels—National, State, District and Block—as it is vital for achieving the targets. The State Governments have been requested to undertake extension work for popularisation of cow-dung gas plants. Already several of them have been set up in different areas.

Animal husbandry programme continued to progress during the year 1960.

The fisheries activities in the block areas show remarkable progress. The common carp fish has been introduced for culturing in block areas of Andhra Pradesh, Assam, Maharashtra, Delhi, Orissa, Rajasthan, Punjab, West Bengal and Tripura.

All the states except Assam, Jammu and Kashmir, West Bengal, Maharashtra and Himachal Pradesh have implemented a pilot project scheme of surveying about 7,000 acres of water to stock them with 82 lakhs of fish seed. The training of necessary personnel in fish culture has also been taken up. Already 2,400 acres of waters have been surveyed and 7·20 lakhs of fish seed has been stocked.

About 20,000 tanks and 30,000 ponds have been transferred to the panchayat for fishery development in Andhra and Orissa States. The States have been requested to establish regional fish seed farms to meet the seed requirements in block areas.

Towards minor irrigation the expenditure was Rs. 10·35 crores during 1959-60.

For village and small-scale Industries, the State Government have proposed an outlay of Rs. 26 crores during the Third Plan. An amount of Rs. 7·5 crores will be available for distribution as loan under the State Aid to Industries Act.

Satisfactory progress of health services under the Community Development Programme continued to be maintained during the year. Eradication of malaria, control of filaria, leprosy and T.B. and B.C.G. vaccination continued to make progress in the blocks. Steps to eradicate trachoma are also taken up.

It has been suggested to all the State Governments to form School Committees at the level of Panchayats and Panchayat Samities to look into the programme of primary education and allied activities. The village community will have to play an important role in the promotion of the programme of the universal primary education. In the programme of midday meals for school children, the States of Madras and Orissa made good progress. The village community is sharing the responsibility for the supply of cereals of midday meal for school children.

About the programme for women and children, 68,681 women were trained in 2,799 training camps during the year 1959-60. At the end of Sept. 1960, 42,584 Mahila Mandals with a total membership of 7,13,480 were functioning. In block areas 10,042 balwadies are being conducted where 222,736 children are attending.

The report of the Committee on Special Multipurpose Tribal Blocks with Dr. Verrier Elwin, as Chairman, appointed by the Ministry of Home Affairs was submitted to Government. The report said that the experiment of multipurpose tribal blocks had succeeded sufficiently well. At the annual conferences of the Community Development and State Ministers for the Welfare of Backward Classes the main recommendations of the Committee were given due consideration and recommended uniform development of tribal areas by covering the remaining tribal areas with the tribal development blocks during the Third Plan. Detailed discussion with State Governments jointly by the Ministries of Home Affairs and Community Development and Co-operation on the allotment of blocks to States in the Third Plan is being held.

Rural Housing Cells have been established in all the states except Jammu & Kashmir. 3,560 villages out of 5,000 allotted for the Second Plan period had been selected upto June 1960 as against only 1,600 villages during the corresponding period in 1959. Under this scheme the total drawal of loan by the State Governments will be Rs. 460 lakhs.

Panchayats functioning in the country on March 31, 1960, totalled 176,109 covering 480,000 villages and a population of 22·5 crores excluding Andhra Pradesh.

The number of co-operative societies of all types functioning in the country stood at 2·5 lakhs, with a membership of 2·15 crores. Primary agricultural credit and multi-purpose societies numbered 1·67 lakhs, with a membership of 1·02 crores.

Rural Electrification

The Central Committee on Community Development at its meeting in New Delhi on Nov. 26, 1960 agreed that the programme of electrification should be accorded a very high priority in the plan for development of the rural areas.

The Committee noted that even at the end of the Second Five Year Plan only 24,000 villages would have been electrified and at the end of the Third Plan, an additional 20,000 villages were expected to be electrified, bringing the total to 44,000. This was a very low figure, according to the Committee, out of 5½ lakhs villages.

The Committee reviewed the progress of the Community Development Programme and the system of Panchayati Raj in various States. Till October, 1960, there were 3,087 blocks covering 379,800 villages and bringing nearly 203 million people within its orbit. There are also 489 pre-extension blocks. Panchayati Raj has already been implemented in Rajasthan, Andhra, Assam and Madras. Legislation has also been enacted in Mysore, Orissa and Punjab while it has been introduced in two States, *viz.*, Madhya Pradesh and Uttar Pradesh. The progress made in the spheres of cooperation and agriculture was also reviewed.

Rural Industries

The Conference of State Ministers of Community Development, felt that the States should lay more emphasis on rural industries programme. It recommended that with a view to achieving faster progress, there should be a special allocation for rural industries in the Third Five Year Plan.

The Conference accepted a proposal to make the Development Commissioner ex-officio Commissioner of Panchayats and place the Director of Panchayats immediately under him giving the latter suitable secretariat status.

The Conference recommended that as far as possible the staff working in the Community Development blocks should be provided with security of service but it left the matter to be worked out by State Governments.

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The fast growing concept of Panchayati Raj had brought in its wake a number of problems to which a solution must be found. Panchayati Raj implied a rural leadership.

Central Co-operative Farming Board

Government of India have taken final decisions on the recommendations of the Working Group on Cooperative Farming. A Cooperative Farming Board is to be set up at the Centre for promoting cooperative farming and 3,200 cooperative farms are to be organised on voluntary basis under a Pilot Projects Scheme—at the rate of ten in each district.

The question of setting up of Cooperative Farming Boards at the State level has been left to the State Governments. The State Governments have been asked that Cooperative farming societies should be eligible for assistance on a priority basis under various schemes which provide for assistance to individual cultivators.

At all stages, cooperative farming is visualised as a stage in cooperative development, and not as a programme isolated from the normal pattern of growth of the rural economy to be achieved through Community Development.

Adequate Credit to Cultivators

The Union Ministry of Community Development and Co-operation have also taken decisions on the recommendations of the Committee on Cooperative Credit. In pursuance of these decisions all classes of cultivators, including the landless tenants, are to be provided with adequate credit on the basis of their production requirements and repaying capacity. Decisions taken by the Government of India also relate to the pattern of organisation of village cooperative societies, state partnership in share capital of primary agricultural credit societies, outright grants to primary societies and Central Banks for providing special "bad debt reserves" and grants to primary societies for managerial expenses.

Cooperatives, are to be organised, as a general rule, on the basis of the village community as a primary unit.

Where the villages are too small, a number of villages, with a total population of up to 3,000 and situated at a distance of not more than three to four miles from the headquarters village, may be grouped together in the interests of viability.

Viability of a cooperative society is to be determined on the basis of its capacity to bring into the cooperative fold all rural families and to effectively implement the village agricultural production plans. Its ability to link credit with production and marketing, as also to supervise the use of credit, undertaking distribution and supply, and to attract local savings to the maximum possible extent, as share capital and as deposits, are also to be taken into consideration.

The State may participate in the share capital of a primary agricultural society, provided that 60 per cent of its members agree to such participation and the Central Bank to which the Society is affiliated supports the proposal.

The Study Team on Rural-cum-Urban Townships in the Headquarters of C.D. and N.E.S. blocks submitted its report in Dec. 1960. It recommended enactment of legislation by State Govts. for regulating the growth of townships. Other recommendations include rural electrification to help small-scale industries and setting up of a committee at the State level to take up the development of selected block head quarters as agro-industrial townships, in the Third Plan.

PROGRAMME ACCORDING TO STATES

Blocks allotted as on 1st March 1961 :—

State	No. of Blocks into which delimited	No. of Stage I* Blocks	No. of Stage II Blocks	Total (3) and (4)	Villages covered ('00 No.)	Population covered (lakh No.)	No. of Pre-extension blocks
1	2	3	4	5	6	7	8
Andhra Pradesh	445	199	82	281	193	188	44
Assam	161	57	27	84	141	45	12
Bihar	575	248	107	355	460	237	58
Gujarat	224	83½	46	129½	110‡	86	20½
Jammu & Kashmir	52	38	14	52	59	23	..
Kerala	142	66	21	87	31†	78	14
Madhya Pradesh	416	179	83	262	484	161	36
Madras	375	145	66	211	121	159	32
Maharashtra	425	155	83	238	243	157	46½
Mysore	268	117	47	164	181	109	24
Orissa	307	144	32	176	271†	116	32
Punjab	228	98	55	153	140†	104	18
Rajasthan	232	85	54	139	205	90	20
Uttar Pradesh	899	415	103	518	699	335	92
West Bengal	341	145	28	173	227	120	34
Union Territories	134	56½	31	87½	117†	31	7
TOTAL	5,224	2,231	879	3,110	3,682	2,039	490

* Includes C. D. and multipurpose blocks. † Marginal adjustments within this ceiling are possible. ‡ Estimated.

ALLOTMENT OF C. D. BLOCKS

Oct. 1960 : The Union Ministry of Community Development and Co-operation allotted 150 pre-extension blocks to 8 State Governments and the Union Territory of Tripura.

Following is the allotment of pre-extension blocks : Andhra Pradesh 22 ; Madhya Pradesh 18 ; Madras 16 ; Mysore 12 ; Punjab 9 ; Orissa 16 ; Uttar Pradesh 46 ; Rajasthan 10 and Tripura 1.

One hundred and fifty-six pre-extension Blocks were to be upgraded to Stage I, as part of the April 1961 series. Statewise break-up of the pre-extension Blocks upgraded to Stage I : Andhra Pradesh 22 ; Bihar 29 ; Kerala 7 ; Madhya Pradesh 14 ; Mysore 12 ; Orissa 16 ; Rajasthan 10 and Uttar Pradesh 46.

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EXPENDITURE UNDER VARIOUS SECTORS

(Rs. lakhs)

Item	First Plan	Second Plan 1956-57 to 1960-61*	Total
Government Expenditure :—			
Block Headquarters (including Transport, Office-building, Equipment, etc.)	1,051	4,802	5,853
Agriculture and Animal Husbandry	355	814	1,169
Irrigation and Reclamation	1,083	3,692	4,775
Health and Rural Sanitation	379	1,307	1,686
Education	344	1,000	1,344
Social Education	200	763	963
Communications	516	979	1,495
Village Industries	218	513	731
Housing	173	850	1,023
Unclassified (including imported equipment, suspense charge, etc.)	279	516	795
TOTAL	4,598	15,236	19,834
People's Contribution	2,513	6,859	9,374

* Figures for Govt. Expenditure for 1960-61 are incomplete as the information for N.H.T.A. for two quarters (April to Sept. 1960) and Jammu & Kashmir, Madras, Orissa, U.P. and Manipur for one quarter (July-Sept. 1960) is awaited.

ALL-INDIA PHYSICAL ACHIEVEMENTS

	Year ending 30th Sept.	
	1958-59	1959-60
Agriculture :—		
Improved seeds distributed (mds.)	70,78,100	85,86,300
Chemical fertilizers distributed (mds.)	1,45,83,900	1,50,50,400
Improved implements distributed (Nos.)	2,91,330	3,28,990
Agricultural demonstrations held (Nos.)	20,40,600	15,49,700
Compost pits dug (Nos.)	27,37,100	30,11,300
Animal Husbandry :—		
Improved bulls supplied (Nos.)	16,167	19,622
Improved birds supplied (Nos.)	2,31,830	2,73,100
Animals castrated (Nos.)	19,66,100	23,81,200
Health and Rural Sanitation :—		
Rural latrines constructed (Nos.)	1,38,510	1,34,640
Pucca drains constructed (yds.)	36,01,700	22,30,500
Village lanes paved (sq. yds.)	18,99,800	20,26,000
Drinking water wells constructed (Nos.)	39,072	40,090
Drinking water wells renovated (Nos.)	49,406	46,990
Social Education :—		
Adult literary centres started (Nos.)	32,820	35,502
Adults made literate (Nos.)	9,18,210	8,38,770
Reading rooms opened (Nos.)	16,740	16,739
Youth and farmers' clubs started (Nos.)	35,700	31,838
Mahila Samities/Mandals started (Nos.)	9,826	13,065
Balwadies/Nurseries started (Nos.)	3,204	6,838
Communications :—		
Kacha roads constructed (Miles)	17,607	15,133
Culverts constructed (Nos.)	20,667	22,916
Village and Small Industries :—		
Ambar Charkha instituted (Nos.)	13,828	26,732
Brick kilns started (Nos.)	5,780	12,669
Sewing machines distributed (Nos.)	2,258	6,284
New tanning pits started (Nos.)	1,201	2,862
Improved ghanis introduced (Nos.)	688	1,467
Bee-hives introduced (Nos.)	7,961	21,868

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ACHIEVEMENT (STATE-WISE)

State-wise details of average achievement per Block per year for the year 1959-60 (Oct. '59 to Sept. '60).

State	Improved seeds distributed Mds.	Chemical fertilizers distributed Mds.	Improved implements distributed Nos.	Agricultural demonstrations Nos.	Compost pits dug Nos.	Improved animals supplied Nos.	Improved birds supplied Nos.	Animals castrated Nos.
Andhra Pradesh	5,284	9,298	138	1,228	662	19·0	202	795
Assam	375	211	10	115	1,255	4·6	38	540
Bihar	3,729	4,829	N.A.	1,595	1,618	4·0	75	1,070
Bombay*	3,414	7,230	70	327	679	8·1	91	349
Kashmir	291	1,026	1	155	424	1·9	14	1,073
Kerala	259	7,633	18	168	789	2·7	155	220
Madhya Pradesh	2,648	2,481	14	349	694	4·4	49	983
Madras	2,650	11,875	208	513	530	24·0	171	866
Mysore	1,495	8,768	142	741	404	8·7	83	1,185
Orissa	2,257	1,590	6	65	2,528	0·9	45	1,842
Punjab	3,061	4,801	915	551	1,292	6·1	231	1,757
Rajasthan	4,250	885	123	116	548	7·2	62	1,519
Uttar Pradesh	4,740	5,440	89	372	1,991	4·7	75	754
West Bengal	691	3,559	10	113	986	1·0	94	35
Union Territories	402	1,871	232	147	431	4·7	150	1,090
ALL INDIA AVERAGE	3,211	5,629	139	580	1,126	7·3	102	891

* Bilingual.

Table (contd.)

State	Adult literacy centres Nos.	Adults made literate Nos.	Reading Rooms Nos.	Youth and Farmers' Clubs		Mahila Samitis		Balwadies/Nurseries	
				No.	No. of members	No.	No. of members	No.	No. of children attending
Andhra Pradesh	7·5	231	11	31	288	6·8	100	1·4	21
Assam	15	365	8·4	14	225	4·9	71	1·2	93
Bihar	12	865	5·2	15	225	4·3	45	N.A.	N.A.
Bombay*	31	229	5·4	43	898	7·0	152	2·7	93
Kashmir	0·6	7·5	2·0	4·9	72	0·3	4·6	0·3	N.A.
Kerala	3·4	111	2·8	6·3	195	2·7	276	3·5	94
Madhya Pradesh	5·3	96	4·6	20	235	6·7	101	3·1	66
Madras	3·0	200	6·3	10	182	4·4	97	3·1	95
Mysore	10	160	4·7	22	302	4·0	78	2·8	77
Orissa	21	328	8·3	19	424	4·7	162	3·3	114
Punjab	5·2	107	4·4	9·9	142	6·8	117	3·4	72
Rajasthan	7·3	353	2·1	7·3	67	1·9	37	0·9	12
Uttar Pradesh	22	412	8·8	11	160	4·4	44	5·0	51
West Bengal	4·9	208	4·2	6·6	175	2·6	76	1·6	51
Union Territories	6·4	253	3·7	7·5	132	2·8	61	2·2	60
ALL INDIA AVERAGE	13·3	314	6·3	17·8	294	4·9	92	2·9	62

* Bilingual.

Table (concld.)

State	Rural latrines Nos.	Drains constructed Yds.	Village lanes paved Sq. Yds.	Drinking water wells constructed Nos.	Drinking water wells renovated Nos.	Kacha roads constructed Miles	Existing kacha roads improved Miles	Culverts constructed Nos.
Andhra Pradesh	115	2,028	339	15	23	8·0	8·1	5·6
Assam	135	216	82	34	32	21	32	29
Bihar	87	152	57	10	14	2·6	5·4	10
Bombay*	46	632	613	8	10	6·2	9·5	2·4
Kashmir	16	31	95	2	5·7	6·5	11·8	7·4
Kerala	137	116	26	8	6·5	2·0	4·2	4·0
Madhya Pradesh	26	305	311	13	7·3	5·9	16	4·1
Madras	46	769	416	14	17	5·5	5·2	6·8
Mysore	30	947	689	10	11	8·0	10·8	7·0
Orissa	48	431	279	11	9·6	3·4	6·7	5·1
Punjab	19	2,116	4,599	17	14	7·5	10·5	22
Rajasthan	6·7	87	144	10	12	2·9	5·6	3·4
Uttar Pradesh	25	1,614	1,582	32	41	4·4	15·9	11
West Bengal	23	51	270	10	7·7	3·7	15·2	14·9
Union Territories	32	297	498	11	11	13	25	8·2
ALL INDIA AVERAGE	50	834	758	15	17·6	5·7	11·0	8·6

* Bilingual.

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TRAINING FACILITIES

Description of training Centres	Category of person trained	No. of Centres	Persons trained as on 31-12-1960
Gram Sevak Training Centre	Gram Sevaks	87	42,562
Extension Training Centres	,,	6	..
Home Science Wings	Gram Sevikas	41	2,978
Small Industries Service Institutes	Extension Officers	4	} 1,874
Khadi Gramodyog Mahavidyalayas	,,	6	
Health Orientation Training Centres	Health personnel	3	2,405
Orientation and Study Centres	B.D.Os., S.E.Os.,* E.Os., etc.	8	5,586
Social Education Organiser Training Centres	Social Education Officers & Mukhya Sevikas	12	4,912
Co-operative Training Centres	Extn. Officers Co-op.	8	2,585

* Block Development Officers, Social Education Organisers, Extension Officers, Dist. Heads of Tech. Deptts., Non-officials.

PANCHAYATS

The year 1960 saw progress in Panchayat Raj in the country. Steps were taken to establish a sound base for the network of self-governing institutions which Panchayati Raj visualises from the village level. These are linked to form a new administrative set-up. The Ministry for Panchayats has pointed out the need to develop the village panchayat and village co-operative as twin institutions with concurrent areas of operation.

The Central Council of Local Self-Government deliberated on various problems of Panchayati Raj such as the role of the collector and other officers with the elected bodies at different levels and the Panchayati Raj Institutions in the field of different development programmes. The council recommended that the Panchayati Raj Institutions should give adequate attention to the welfare of the weaker sections of the community by appointing exclusive sub-committees and earmarking a portion of their normal development budget for this purpose. Associate Organisations in the villages are to be encouraged with specific programmes of work and other aids. Preparation of sound and realistic budgets by Panchayats was considered essential.

Andhra Pradesh and Rajasthan have completed one year of operation of Panchayati Raj. Orissa has constituted 307 Panchayat Samities covering the entire State. The Zila Parishads were expected to be set up by April 1961. High level committees were appointed for Maharashtra and Gujarat States for forming Panchayati Raj in the best suited manner for both the States. Madras State has introduced Panchayat Samities in 75 blocks of C.D. Plan.

In U.P., the Panchayati Raj legislation was placed before the Upper House. M.P. has already introduced legislation to this effect. Bihar also contemplated to bring in legislation of the Panchayati Raj, though elections took place to the primary village Panchayats under the amended Gram Panchayat Act. Kerala has already brought forward a Panchayat Bill in order to cover the whole State uniformly so that the transfer of development programmes could be handed over to the Panchayats. Assam and Mysore have introduced the system in their respective States. Punjab has also conducted elections of the Panchayats all over the State. Punjab, Mysore and Rajasthan have shown overwhelming enthusiasm in the elections held for the Panchayats.

Union territories are also making headway for introducing the system.

Himachal Pradesh is fully covered by the Panchayats.

Panchayats have been constituted in Delhi and Sarpanches have been made members of the Block Development Committees.

Special representation in the Panchayats and Panchayat Samities was given to Scheduled Castes and Tribes. Integration of the Panchayat and C.D. Departments at the State level has been effected in all States except Bihar, West Bengal, Kerala and M.P.

PANCHAYATS AS ON 31st DECEMBER 1960

State	No. of Panchayats	Villages covered (Nos.)	Rural population covered (lakh Nos.)	Percentage of rural population served
Andhra Pradesh	14,475	25,104	256	99
Assam	2,570	17,717	68	100
Bihar	10,578	67,049	354	98
Gujarat	10,750	17,760	115	99
Jammu & Kashmir*	949	6,717	24	97
Kerala	892	1,202	107	76
Madhya Pradesh	21,650	69,542	228	99
Madras*	10,031	15,118	167	74
Maharashtra	18,315	36,301	228	93
Mysore	7,444	30,016	149	100
Orissa	2,342	47,976	136	94
Punjab	13,422	20,790	130	100
Rajasthan	7,395	34,421	130	100
Uttar Pradesh*	72,409	111,722	546	100
West Bengal*	3,022	7,445	38	19
Delhi	205	303	2	100
Himachal Pradesh	518	11,393	11	100
TOTAL	196,967	520,571	2,689	92

* Relates upto 31st March 1960.

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RESEARCH*

RESEARCH in pure science is carried out mainly in the universities, scientific surveys of the Government, and in some research institutes such as the Tata Institute of Fundamental Research. The Council of Scientific & Industrial Research (C.S.I.R.) and the Department of Atomic Energy provide facilities for fundamental or basic research in their laboratories and institutes, and also sponsor such research in universities and research institutions all over the country.

Research in applied science and for industrial development is done mainly under the auspices of the C.S.I.R., the Co-operative Industrial Research Associations, institutes functioning under various Ministries and the laboratories attached to a few industrial concerns.

The Shri Ram Institute for Industrial Research, Delhi, undertakes, on a 'not-for-profit' basis, researches on projects sponsored by industrial concerns, groups of companies, individuals and Government agencies.

Research in engineering subjects is undertaken in some of the C.S.I.R. laboratories and institutes, the Indian Institute of Science, Bangalore, Central and State Hydraulic Engineering Research Stations, higher technological institutions, like the Indian Institute of Technology, Kharagpur, and in a few engineering colleges, such as the College of Engineering and Technology, Jadavpur.

The Council of Scientific & Industrial Research, also sponsors engineering research in various institutions through its research committees.

Agricultural research is looked after by the Indian Council of Agricultural Research, New Delhi, The Indian Agricultural Research Institute, New Delhi, and the various Central Committees for agricultural commodities like the Indian Central Cotton Committee, Indian Central Jute Committee, etc. and the research institutes functioning under the Ministry for Food and Agriculture. (See article on Agriculture.)

The Indian Veterinary Research Institute, Izatnagar (U.P.) is concerned with veterinary diseases. The National Dairy Research Institute at Karnal in the Punjab works on dairy research.

Research in forestry and forest products is undertaken by the Forest Research Institute and Colleges at Dehra Dun.

Medical research is carried out under the auspices of the Indian Council of Medical Research, institutes functioning under the Ministry of Health, and the Council of Scientific and Industrial Research.

Research for defence purposes is undertaken in the Defence Science Laboratory at New Delhi; the naval research laboratory in Cochin, the Technical Development Establishments at Kanpur, Dehra Dun, Bangalore, Kirkee and other places.

Research in the humanities—literature, language, the arts, etc.—is done at individual institutions scattered throughout the country.

Research in social problems such as social tensions, social welfare and labour welfare is conducted as part of their work at many universities.

It may be mentioned here that the Central Government has a Scientific Liaison Officer in the U.K.

About 275 research journals (English) are published in India. These cover a wide range of subjects, grouped as follows: General science, 31; Engineering, including civil, electrical, telecommunication and aeronautical, 31; Chemistry, including biochemistry, chemical technology, plastics, paint, oils and fats, soap, and food, 21; Agriculture, including forestry, 35; and Medical sciences, 64.

SCIENTIFIC SOCIETIES

The National Institute of Sciences of India, New Delhi, established in 1955, is the scientific Academy recognised by the Government of India. Besides this, there are two other general science Academies with national scope, *viz.* the Indian Academy of Sciences, Bangalore and the National Academy of Sciences, Allahabad.

The oldest learned society in India is the Asiatic Society of Bengal, founded in 1874.

From it originated the Indian Science Congress Association which held its first annual meeting in 1914.

The other Scientific bodies are:

Indian Association for the Cultivation of Science, Jadavpur, Calcutta-13; Aeronautical Society of India, Talkatora Road, New Delhi; Agricultural & Horticultural Society of India, Calcutta; Agri-Horticultural Society of Madras, St. George Cathedral Road, Madras; All India Astrological and Astronomical Society, Jyotish Samarat Bhavan, 50/2 Dharmtala Street, Calcutta; All India Veterinary Association, 23, First Street, Vidyodaya East, T'Nagar, Madras 17; Anatomical Society of India, 1, Park Street, Calcutta-16; Anthropological Society of Bombay, 136, Apollo Street, Bombay; Aquarist Society of India, 251, Hornby Road, Bombay; Architectural Society of India, Bombay; Asiatic Society, 1, Park Street, Calcutta; Assam Science Society, Department of Physics, Gauhati University, Jalukbari, Assam; Association of Applied Physicists, Calcutta University, 92, Upper Circular Road, Calcutta; Association of Building Technicians, 1/11, Mukar Nallamuthu Street, Madras 1; Association of Engineers, 24, Netaji Subhas Road, Calcutta 1; Association of Microbiologists of India, 1, Park Street, Calcutta-16; Association of Pediatricians of India, Back-Bay View, New Queen's Road, Bombay-4; Association of Physicians of India, 'Dreamlands', New Queen's Road, Bombay-4; Association of Principals of Technical Institutions (India), C/o Delhi Polytechnic, Delhi-6; Bangiya Bigyan Parishad, 294/2/1, Upper Circular Road, Calcutta-9; Bharata Ganita Parishad, Lucknow University, Lucknow; Bihar Academy of Agricultural Sciences, Sabour P.O., Bhagalpur, Bihar; Biological Society of Assam, Cotton College, Gauhati; Bombay Medical Council, Swadeshi Mills Estate, Tata Road, New Queen's Road, Bombay-1; Bombay Natural History Society, 114, Apollo Street, Bombay; Bombay Sanitary Association, Princess Street, Bombay; Bombay Society of Model Engineers, Noble Chambers, (Rooms 23 and 24), Parsi Bazar Street, Bombay; Bombay State Horticultural Development Association, College of Agriculture, Poona-5; Bombay Textile And Engineering Association, Opposite Railway Station, 343 Grant Road, Bombay 7; Botanical Society of Bengal, 93/1, Upper Circular Road, Calcutta-9; Calcutta Geographical Society, Calcutta; Calcutta Mathematical Society, 92, Upper Circular Road, Calcutta; Calcutta Statistical Association, Asutosh Building, Calcutta-7; Cardiological Society of India, 67, Dharmatala Street, Calcutta-13; Christian Science Society, Chowringhee Mansion, Block B, 30 Chowringhee Road, Calcutta-26; Concrete Association of India, C/o A.C.C., 121, Queen's Road, Bombay; Congress of Theoretical & Applied Mechanics, Kharagpur; Current Science Association, Hebbal P.O., Bangalore-6; Electrochemical Society, Indian Institute of Science, Bangalore-12; Engineering Association of India, India Exchange, Calcutta 1; Engineering Association of Northern India, G.T. Road, Batala, Dist. Gurdaspur, Punjab; Entomological Society of India, Indian Agricultural Research Institute, New Delhi; Essential Oil Association of India, C/o Harcourt Butler Technological Institute, Kanpur; Ethnographic and Folk Culture Society, Lucknow University, Lucknow; Eugenical Society, 89, Girgaon Road, Bombay; Fact Technical Society, Udyogmandal P.O., Alwaye, Kerala; Fertilizer Association of India, 85, Sunder Nagar, New Delhi; Geographical Society of India, Senate House, Calcutta University, Calcutta; Geological Institute, 27, Chowringhee Road, Calcutta; Geological, Mining & Metallurgical Society of India, Presidency College, Calcutta 12; Gujarat Research Society, 46-48, Esplanade Mansions, Mahatma Gandhi Road, Bombay 1; Helminthological Society of India, 1, Park Street, Calcutta-16; Horticultural Society of India, C/o Indian Agricultural Research Institute, New Delhi; Indian Association of Dermatologists and Venereologists, 1, Nagindas Mansions, Opera House T.T., Bombay-4; Indian Astronomical Association, 8, Anand Parbhat, New Delhi-5; Indian Botanical Society, Department of Botany, Banaras Hindu University, Banaras; Indian Botanical Society, C/o Institute of Science, Mayo Road, Bombay; Indian Botanical Society, University Botany Laboratory, Madras-5; Indian Botanical Society, Mysore Road, Bangalore City; Indian Cancer Society, Tata Memorial Hospital, Parel, Bombay-12; Indian Ceramic Society, Central Glass and Ceramic Research Institute, Jadavpur, Calcutta-32; Indian Chemical Society (Bombay Branch), St. Xavier's College, Bombay-1; Indian Chemical Society, 92, Upper Circular Road, Calcutta; Indian Council of Geographers, 1, Park Street, Calcutta-16; Indian Dairy Science Association, Hosur Road, Bangalore-1; Indian Ecological Society, 1, Park Street, Calcutta-16; Indian Institute of Architects, Prospect Chambers Annexe, D. Naoroji Road, Bombay 1; Indian Institute of Chemical Engineers, Jadavpur University, Calcutta 32; Indian Institute of Metals, 31, Chowringhee Road, Calcutta 16; Indian Institution of Chemical Engineers, C/o A.C. College of Technology, Saidapet P.O., Guindy, Madras; Indian Jute Mills Association, 17, Taratola Road, Calcutta; Indian Leather Technologists' Association, Mercantile Building, Lalbazar, Calcutta-1; Indian Mathematical Society, 2, Bhaskarapuram, Mylapore, Madras-4; Indian Medical Association, Shri Nivas, S. V. Patel Road, Bombay-4; Indian Medical Association, 23, Samavaya Mansions, Corporation Place, Calcutta-13; Indian Metallurgical Association, 20, Strand Road, Calcutta-1; Indian Meteorological Society, New Delhi; Indian National Society of Soil Mechanics & Foundation Engineering, New Delhi; Indian Pharmaceutical Association, Kalam Kutir, 3rd floor, 213-219, Frere Road, Fort, Bombay-1; Indian Pharmaceutical Congress Association, 2, Heysham Road, Calcutta; Indian Physical Society, 210, Bow Bazar Street, Calcutta-32; Indian Physiological Society, Calcutta; Indian Phytopathological Society, Pusa Institute Buildings, New Delhi 12; Indian Psychiatric Society, Central Mental Hospital, Yervada, Poona; Indian Research Fund Association, Kurnool; Indian Society for Agricultural Statistics, C/o I.C.A.R. (Statistical Wing), Library Avenue (Pusa), New Delhi-12; Indian Society of Agronomy, Indian Agricultural Research Institute, New Delhi-12; Indian Society of Engineers, 12 Netaji Subhas Road, Calcutta; Indian Society of Genetics & Plant Breeding, Indian Agricultural Research Institute, P.O. Pusa, New Delhi; Indian Society for Quality Control, Calcutta; Indian Society of Soil Science, Indian Agricultural Research Institute, New Delhi-12; Indian Society of Theoretical and Applied Mechanics, Indian Institute of Technology, Kharagpur; Institute of Consulting Engineers, 9 Hastings Street, Calcutta-1; Institute of Industrial Engineers (India), C/o Hindusthan Levers Ltd., Bombay; Institution of Chemists, Medical College, Calcutta; Institution of Engineers, 8, Gokhale Road, Calcutta 20; Institution of Engineers (India), Muthra Road, Delhi; Institution of Military Engineers, New Delhi; Institution of Surveyors, New Delhi; Institution of Telecommunication Engineers, I.E.N.S. Bldg., Old Mill Rd., New Delhi; International Society of Plant Morphologists, University of Delhi, Delhi; Maharashtra Association for the Cultivation of Science, Law College Building, Poona; Mechanical Engineers' Association, Janmabhoomi Chambers, 29, Fort Street, Bombay 1; Mining, Geological & Metallurgical Institute of

* Allocation included in the IIIrd Plan for research programmes: Rs. 130 crores against Rs. 72 crores in IInd Plan. This is in addition to the committed expenditure of Rs. 75 crores for supporting current research activities.

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India, 29, Chowringhee, Calcutta; Mysore Geologists' Association, Mysore Geological Department, Bangalore-1; Mysore Horticultural Society, Lal Baugh, Bangalore-2; National Society of India for Malaria and other Mosquito Borne Diseases, 22, Alipur Road, Delhi; Neurological Society of India, Breach Candy Hospital, Bombay-26; Obstetrics & Gynaecology Society of North India, Benjamin Road, Ludhiana, Punjab; Oil Technologists' Association (India), H. B. Technological Institute, Kanpur; Palaeobotanical Society of India, 53, University Road, Lucknow; Pharmaceutical Society, Saugar University, Saugar; Physiological Society of India, 1, Park Street, Calcutta-16; Psychoanalytical Society, Calcutta; Quality Control Association, C/o S.K.S.J. Tech. Institute, Bangalore-1; Radio and Electronics Society of India, Fateh Manzil, Opera House, Bombay-4; Rajasthan Academy of Sciences, Pilani, Rajasthan; Royal Agri-Horticultural Society of India, 1, Alipore Road, Calcutta; Society of Biological Chemists, P.O. Malleswaram, Bangalore-3; Society for Corrosions and Coatings Technology, Calcutta; Society of Electronics Engineers, Electronics Research & Development Establishment, P.O. Box No. 103, Bangalore-1; Society of Experimental Medical Science (India), P. 10, C.I.T. Road, Calcutta-14; Society of Student Metallurgists, Bengal Engineering College, Sibpur, Howrah; Soil Conservation Society of India, Hazaribagh, Bihar; South Indian Horticultural Association, Lawley Road P.O., Coimbatore; Students' Literary & Scientific Society, Nowroji Seth Street, Thakurdwar, Bombay-2; Sugar Technologists' Association of India, Nawabganj, Kanpur; Textile Association, Ganesh Bhuvan, Suparibaug Road, Parel, Bombay-12; Tropical Diet Research Society, 1/6, Fakir Chakrabarty Lane, Calcutta-6; Vijnan Parishad, Bank Road, Allahabad; Vijnana Prachara Nilayam, Kottapeta, East Godavari Dist., Andhra Pradesh; Zoological Society of India, C/o Zoological Survey of India, 34, Chittaranjan Avenue, Calcutta-12.

COUNCIL OF SCIENTIFIC RESEARCH

The major part of applied research in India is now carried on under the auspices of the Council of Scientific and Industrial Research (Ministry of Scientific Research and Cultural Affairs).

The Council of Scientific & Industrial Research was established in 1942 by the Government of India as an autonomous body, registered under the *Registration of Societies Act XXI* of 1860. The functions of the Council include: the promotion, guidance and co-ordination of scientific and industrial research in India; the establishment, maintenance and management of laboratories and institutes to further scientific research; and the collection and dissemination of scientific information and the publication of a journal of research.

Research under the Council is carried on in its own laboratories and extra-murally in universities and other institutions under a grants-in-aid scheme.

The Council is administered by a Governing Body with the Prime Minister as President, the Minister for Scientific Research and Cultural Affairs as Vice-President and eminent scientists, industrialists and administrators as members. The Board of Scientific & Industrial Research, composed of scientists, industrialists and representatives of Govt. departments interested in industrial research, advises the Governing Body on research and development proposals. It is assisted in its work by two expert sub-committees namely the scientific sub-committee and the engineering sub-committee. The Board advises the Governing Body on proposals for: instituting specific researches; scientific study of problems affecting particular trades and industries in scientific institutions and universities; establishment of research institutions; fellowships, studentships and scholarships; and specific studies and surveys of indigenous resources as an essential preliminary to systematic investigation in particularly important fields of research.

The number of Research Committees at present is 13 as follows:

Aeronautical; Biological; Chemical; Civil Engineering & Hydraulic; Electrical & Mechanical Engineering; Essential Oils; Geological & Mineralogical; Metals; Pharmaceuticals & Drugs; Physical; Public Health Engineering; Radio; and Joint Committee of the Indian Central Oilseeds Committee and C.S.I.R. for Vegetable Oils.

Executive Councils of national laboratories are responsible for the administration and formulation of research programmes and reviewing the progress of research.

In addition to fostering research in its own laboratories, research units and centres, the council provides grant-in-aid for research in universities, technical institutes and industrial laboratories. Grants-in-aid were made by the Council for 390 research schemes at 82 different centres in India during the year 1960–61.

The Council also makes block grants to institutions for enlarging training facilities. It extends financial support for developing schools of research in universities and research institutions.

The Council has formulated a scheme of Junior and Senior Fellowships for assisting talented young men with distinguished academic records in taking up scientific research as a career.

A scheme for rendering financial aid to retired scientists for pursuing research after superannuation has been recently implemented.

The Council pays special importance to the need for developing results of researches and proving their commercial feasibility. It maintains at the headquarters an Industrial Liaison and Extension unit with regional offices at Bombay, Calcutta and Madras; there is also an Industrial Liaison office at Jaipur. Liaison officers maintain contacts with chambers of commerce and industry, industrial and trade associations, Government Departments and other users of research. Problems of industry are analysed and identified and brought to the notice of appropriate laboratories for advice and, when necessary, for investigation.

The Council maintains a Patents section for rendering assistance to inventors in drafting specifications and filing patent applications. There are patent inspection centres at the headquarters of the Council and also in some of the national laboratories and institutes.

The Council has been taking active steps to encourage co-operative research associations of industries in the country. It renders assistance to industries, which are desirous of forming research associations, by way of technical advice, preparing plans, framing rules, regulations and bye-laws, and procuring materials and experts where necessary. The Council provides financial assistance towards both capital and recurring expenditure. There are now six research associations namely the *Ahmedabad Textile Industry's Research Association* (1947), the *Silk & Art Silk Mills' Research Association* (1950), the *South India Textile Research Association* (1951), the *Bombay Textile Research Association* (1954), the *Indian Rubber Manufacturers' Research Association* (1958), and the *Indian Paint Research Association* (1959).

The Council has set up a National Register Unit and maintains a roster, in card index form, on the availability, qualifications and experience of scientists and technologists in the country. This unit maintains information also on qualified Indians in foreign countries.

The Council administers a pool for temporary placement of Indians returning from abroad with high qualifications in scientific and technical subjects.

214 candidates have been selected to the 'Pool' through a special recruitment board. The pool also consists of a proportion of persons holding high Indian qualifications.

In order to handle all the publications of the research committees, national laboratories, and other units of the Council, a Publications Directorate has been set up at the headquarters. A major publication of the Directorate is the Dictionary of Indian Raw Materials and Industrial Products—an encyclopaedia issued under the popular title: *Wealth of India*. The Directorate has taken on hand a programme of bringing out monographs on botanical subjects.

The Indian National Scientific Documentation Centre (INSDOC) provides information, document procurement and translation services. It acts as a repository for scientific publications and for those submitted by research workers for Doctorate Degrees in Indian universities.

The Council takes an active part in international scientific projects, such as the International Geophysical Year.

The Council administers a scheme of scholarships instituted by the Burmah-Shell Oil Company and Assam Oil Company for post-graduate training in specified subjects in Commonwealth countries. Similar scholarships founded by the Standard Vacuum Oil Company are tenable in institutions in U.S.A.

The Council's budget for 1960–61 was approximately Rs. seven crores. A sum of Rs. 31 lakhs was given by the Council in 1959–60 to scientists for research in various institutions as grants-in-aid. More than 400 research scientists were receiving grants from the Council in 1960–61. Besides, ten retiring research scientists were also given grants from the Council.

The Second Five Year Plan provided Rs. 27·25 crores to the Council for research and development.

National Research Development Corporation

Industrial research has been considerably stimulated and the gap between inventions and development is being progressively reduced by the efforts of the National Research Development Corporation of India. N.R.D.C. is now an effective link between research and industry.

During the last 7 years, NRDC has instituted 18 developmental projects having a bearing on major industries such as paper, sugar, cement, food and chemicals; of these 13 pilot plant projects are financed by NRDC at an estimated cost of Rs. 21·13 lakhs; the remaining are being worked in collaboration with industry which also bears the cost.

The latest projects sanctioned include a prototype plant for the production of a high grade Activated Carbons at an estimated cost of Rs. 6·05 lakhs.

The De-ionisation of Sugar-Cane Juice Project in operation at National Sugar Institute, Kanpur, is intended to recover sugar at present being lost in molasses and its success may mean an additional 10 per cent sugar from the existing sugarcane.

During 1960 two commercial plants on the basis of projects set up by NRDC have started production.

The First Pine Oil Factory, Hoshiarpur, to produce pine oil from Indian turpentine, was inaugurated by the Union Minister for Industry and Chairman, NRDC.

The Baby Food plant of Amul at Anand with a capacity of 2,500 tons per annum was inaugurated by the Union Minister for Finance. Full production from this plant alone will mean a foreign exchange saving of the order of Rs. 1 crore per annum.

Among important projects under active consideration is one developed at Central Food Technological Research Institute, Mysore for separating edible proteins from groundnuts. Edible proteins are in great demand throughout the world for correcting malnutritions, consequent on protein deficiency, particularly in the low income groups.

An outstanding invention, which has attracted considerable attention, is "Suri Transmission", the development of which by a leading German firm has reached an advanced stage. Suri

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Transmission was developed by a young engineer of the Indian Railways and its use in diesel locomotives is expected to effect a saving of 10 per cent in fuel cost alone.

Since its inception, NRDC has negotiated nearly 135 licences for the production of materials developed as a result of the national research effort. The materials in commercial production include Carbons, Mica Insulating Bricks, Silver Mica Capacitors, Lisasorb, Carboxy-Methyl Cellulose, Shrifirset Resins, Composite Protein Food, Carbon Slabs & Rods, Duplicating, Printing & Allied Black Inks, Brick & Block Making Machine, Plastipeel, Electrolytic Cuprous Oxide, Ceramic Capacitors, Boron Free Enamels, Foam Glass, Improved Graphite Crucibles, Salicylaldehyde, Maleic Anhydride from Benzene are also expected to go into production soon.

Almost all materials being commercially produced assist in conserving foreign exchange while others like Electrolytic Manganese and Wet Ground Mica which are expected to be produced commercially in the near future may prove to be substantial earners of foreign exchange.

NATIONAL LABORATORIES

There are 25 national laboratories functioning under the Council.

The National Physical Laboratory in New Delhi and the National Chemical Laboratory at Poona stand on a special footing.

The former is equipped for the maintenance of and research in fundamental and derived standards. It also undertakes research in industrial standards of performance and practice.

The National Chemical Laboratory is concerned with investigations embracing all the chief applications of chemistry. In the areas not covered by the activities of other institutions this Laboratory has a special responsibility. The other laboratories and institutes are :

The National Metallurgical Laboratory, Jamshedpur ;

The Central Fuel Research Institute, Jealgora with Coal Survey Stations at Jharia, Raniganj, Bilaspur, Ranchi, Jorhat and Nagpur ;

The Central Glass & Ceramic Research Institute, Calcutta ;

The Central Food Technological Research Institute, Mysore ;

The Central Drug Research Institute, Lucknow ;

The Central Leather Research Institute, Madras ;

The Central Building Research Institute, Roorkee ;

The Central Road Research Institute, New Delhi ;

The Central Salt Research Institute, Bhavnagar ;

The National Botanic Gardens, Lucknow ;

The Central Electronics Engineering Research Institute, Pilani ;

The Indian Institute for Biochemistry & Experimental Medicine, Calcutta ;

The Central Mining Research Station, Dhanbad ;

The Central Electro-Chemical Research Institute, Karaikudi ;

The Birla Industrial and Technological Museum, Calcutta ;

Indian Institute of Petroleum ;

Regional Research Laboratory, Hyderabad ;

Regional Research Laboratory, Jammu & Kashmir, Jammu-Tawi ;

The Central Mechanical Engineering Research Institute, Durgapur ;

The Central Public Health Engineering Research Institute, Nagpur ;

Regional Research Laboratory, Jorhat, Assam ;

National Aeronautical Research Laboratory, Bangalore ;

Central Indian Medicinal Plants Organisation, New Delhi ;

Central Scientific Instruments Organisation, Delhi.

Besides, the following research units and centres now function under the Council : Rain & Cloud Physics Research Unit, New Delhi ; Essential Oil Research Centres at Harcourt Butler Technological Institute, Kanpur ; Forest Research Laboratory, Bangalore ; Indian Institute of Science, Bangalore and Cinchona Department, Govt. of Madras, Oottacamund ; and Gas Turbine Research Centre, Kanpur.

The work of the national laboratories covers a wide field. They are engaged on work which does not come ordinarily under the purview of universities or industry.

Special mention may be made of the national survey of coal resources, which has provided basic information on the fuel resources of the country.

Surveys have also been conducted on the raw materials for glass industry, limestone for chemical industry, foundry and for metallurgical industry, tanstuffs for leather industry and other raw materials which are of basic importance to other industrial developments.

Improved processes of manufacture which can be adopted by industry have been developed and several processes for the manufacture of new products, not hitherto produced in the country, have been worked out.

Procedures for improving the quality of products produced in the country have been formulated.

Among the more recent achievements of the Council's laboratories, mention may be made of the production of optical glass, mica insulating bricks, stainless steels in which nickel has been eliminated, nickel-free alloys for coinage and production of pig iron utilizing non-coking coals and indigenous iron ores in a low-shaft furnace.

Other products include ceramic condensers, tanning auxiliaries, multipurpose food, foam glass, ion-exchange resins, industrial carbons and synthetic vitamin C.

Many of the national laboratories have undertaken design and fabrication of pilot plants themselves. During 1957–1960, 46 pilot plants were set up in the various national laboratories.

Over 60 processes developed in the national laboratories were leased out to industry during the last four years, of which nine are under profitable production. Besides, about 60 smaller processes were released free of charge to interested parties.

NUCLEAR RESEARCH AND ATOMIC ENERGY

Nuclear research is of recent origin in India. Pioneering work in this field was done by the Tata Institute of Fundamental Research, Bombay, established in 1945 as a high-level academic institution for conducting research and advanced study in physics with special emphasis on nuclear physics and mathematics.

This Institute has since been recognised as the National Centre for advanced study and fundamental research in nuclear physics and mathematics and consists of a school of Physics and a school of mathematics with a staff of 300.

The Institute is the largest centre for cosmic ray research in India and has made notable contributions to the theory of elementary particles. Its nuclear emulsion group for the study of elementary particles is probably the second largest in the world and has made outstanding contributions.

During the years preceding the establishment of the Atomic Energy Commission, the Institute had already collected and built up a small group of scientists trained in some of the special techniques of nuclear physics.

Two other important institutions conducting research in nuclear physics are the Saha Institute of Nuclear Physics, Calcutta, which was founded by the late Dr. Meghnad Saha, F.R.S., and was formally inaugurated in 1950 and the Physical Research Laboratory, Ahmedabad.

Considerable fundamental research in nuclear science and cosmic rays is also being conducted at some 20 universities and research institutions all over India with financial assistance from the Department of Atomic Energy. During 1960-61 a sum Rs. 6·23 lakhs was sanctioned as assistance.

The development and control of atomic energy in India is regulated by the Atomic Energy Act (Act No. XXIX of 1948) and the Department of Atomic Energy handles all business of the Government of India relating to atomic energy and functions of the Central Government under the Act.

In view of the significant and rapid strides that India had made in the research and development of atomic energy for peaceful purposes and of the greatly expanded programme envisaged for the future, in the course of which India should be able to produce all the basic materials required for the utilization of atomic energy and build a series of atomic power stations, it was decided in March 1958, to establish an Atomic Energy Commission with full authority to plan and implement the various measures on sound technical and economic principles and free from all non-essential restrictions or needlessly inelastic rules.

The new Commission which assumed authority on June 23, 1958, is responsible for (*a*) formulating the policy of the Department of Atomic Energy, (*b*) preparing the budget of the Department for each financial year and getting it approved by the Government, and (*c*) implementing Government's policy in all matters concerning atomic energy.

The Commission's programmes envisage that India should be able to produce all the basic materials required for the production of atomic energy, promote its use in agriculture, biology, industry and medicine, prepare a long-range plan for the generation of electric power and set up one or more power stations.

The scientific and technical work of the Department is carried out by the Atomic Minerals Division and the Atomic Energy Establishment at Trombay near Bombay.

Some of the more important functions of the Atomic Minerals Division are : (*a*) geological survey for and development of atomic minerals, (*b*) geographical survey, (*c*) geochemical survey, (*d*) mineral technology, (*e*) drilling, (*f*) mining, (*g*) stockpiling, (*h*) conservation of minerals and (*i*) technical assistance and training.

Trombay Establishment

The Atomic Energy Establishment at Trombay which was formally inaugurated on January 20, 1957, is the Indian centre for research and development work in the field of atomic energy. It is located about 15 miles from the centre of Bombay. The 2,400 acre Establishment is the heart of the Indian Atomic Energy Commission's activities in the field of research. It comprises some 15 scientific divisions, namely Electronics, Health Physics, Nuclear Physics, Theoretical Physics and Applied Mathematics, Analytical, Chemistry, Chemical Engineering, Isotope, Radio-Chemistry, Metallurgy, Reactor Engineering, Reactor Operations, Engineering Services, Biology and Medical & Health Divisions.

At present 1,300 scientists and engineers work in the Trombay Establishment.

To ensure a steady supply of trained scientific and technical personnel, the Establishment started a training programme in 1957 under which 250 young graduates and engineers are

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recruited annually from the universities and given supplementary training for a year to fit them for work in India's atomic energy programme.

After successful completion of training the trainees are absorbed in various divisions of the establishment.

The main fields of study and research in the Trombay Establishment can be broadly classified as Follows: (1) Theoretical and Nuclear Physics (2) Solid State Studies (3) Radiation-induced Reactions and Effects of Recoil Atoms (4) Analytical Chemistry and Spectroscopy (5) Actinide Elements and Fission Products (6) Radioisotopes (7) Metallurgy (8) Chemical Engineering (9) Reactor Engineering and (10) Biology and Medicine.

APSARA Reactor: APSARA, India's first atomic reactor, is a 1MW pool-type reactor using enriched uranium as fuel and demineralised water as moderator. (See under "Government Industrial Undertakings.")

CANADA-INDIA Reactor: India's third research reactor will be the Rs. 10 crore (£ 7·5 million) Canada-India Reactor, under the Colombo Plan. (See under "Government Industrial Undertakings.")

ZERLINA: Zerlina, a zero energy reactor for lattice investigations and new assemblies, reached criticality on January 14, 1961.

For more details see the article "Government Industrial Undertakings".

Research Facilities: The research facilities available in the Trombay Establishment are such that advanced research, both fundamental and applied, in several scientific fields can be undertaken. Besides the reactors mentioned already, the following principal facilities exist: (1) the 1 MeV cascade generator at the Tata Institute of Fundamental Research, (2) A 5·5 MeV Van de Graaff accelerator which was expected to go into operation early in 1961, (3) Mass spectrometers, both foreign built and locally fabricated, (4) A 200 kV electron diffraction camera fabricated in the Establishment, (5) A slow chopper built in the Establishment, (6) A mechanical monochromator built in the Establishment, (7) A crystal spectrometer and a double crystal spectrometer built in the establishment, (8) Spectrometers, including double beam and vacuum grating ones, (9) X-ray equipment, (10) Cloud chambers, (11) Magnetometers, (12) Various types of electronic instruments, (13) Various instruments used in chemical analysis such as fluorimeters, polarometers, spectrophotometers, colorimeters, etc.

Production Facilities: With the object of exploiting fully the indigenous raw materials for the speedy and successful implementation of its programme, the Commission has already set up a number of plants, while others are in the process of being set up. They are:

Rare Earth Plant: This plant, jointly owned by the Commission and the Government of Kerala, was set up in 1952. It has a capacity for processing 1,500 tons of monazite sand annually. It produces rare earths (Chiefly cerium) compounds and a cake containing thorium and uranium. Trisodium phosphate, a detergent, obtained as a by-product, has a good market. The rare earths compounds (mixed rare earths chloride, carbonate and hydroxide) are sold in the world market. Small amounts of naphthenate, fluoride and oxide of cerium are also produced.

Radio-Chemistry Laboratory: This Laboratory, commissioned in 1957, is a start to train a team of chemists in the handling of highly radioactive substances. It is equipped with the most modern facilities for handling plutorium and other highly radioactive elements. Here, the chemistry of actinide elements and the physical and chemical properties of fission products are studied. The Laboratory was set up and is now being run under the supervision of an expert obtained from the U.K. Atomic Energy Authority under the Colombo Plan.

Thorium Plant: The plant was built entirely by Indian scientists and engineers for processing the thorium concentrates from the rare-earth plants, went into production in Sept. 1955. Its capacity was increased six-fold in 1958. The plant is one of the largest in the world for the production of thorium nitrate. Besides supplying virtually the entire requirements of the gas mantle industry in India, it also supplies markets in Europe and America, helping India to save foreign exchange to a tune of Rs. 160 lakhs by meeting local requirements. It also produces nuclear grade thorium oxide which will be used by Canada-India Reactor for the production of uranium-233. (See also under "Government Industrial Undertakings".)

Uranium Metal Plant: This plant, designed and built entirely by the Establishment's personnel, was commissioned in January 1959. It has an annual capacity of about 30 tonnes of nuclear grade uranium. Work is now being conducted on the recovery of uranium from the calcium fluoride slag produced in the plant.

The main object of setting up this plant was to produce nuclear grade uranium metal for use in the G.I.R. and Zerlina. Besides, it was to function as a pilot plant to collect operational data and to train personnel for the larger plants planned for the future. It is now being expanded to provide the uranium needed for the first atomic power station.

Fuel Element Fabrication Facility: This facility, the first of its kind in Asia outside the U.S.S.R., was designed and built entirely by the engineers and metallurgists of the Trombay Establishment. It went into operation in June 1959. It has already produced sufficient fuel elements for the first charge of the C.I.R. and also made fuel elements for Zerlina. The present capacity of this facility, which is in the nature of a pilot plant, is about 30–40 tonnes per year. It has been planned to expand this facility so as to meet fully the fuel element requirements of the first atomic power station. Production in India saves over Rs. 1 lakh of foreign exchange per tonne of the fabricated fuel element.

Heavy Water Plant: A plant to produce about 15 tonnes of heavy water annually in conjunction with the Nangal Fertilizer plant is being built at Nangal in the Punjab. After studying a number of combinations with electrolytic pre-enrichment, this has been chosen as this combination was found to be most suitable from both economic and technical stand points under the conditions prevailing at Nangal. This plant was expected to go into production early in 1961.

Heavy Water Reconcentration Plant: A plant for the reconcentration of heavy water down-graded as a result of absorption of water vapour from the atmosphere or accidental mixing with water is nearing completion at Trombay. It is designed entirely by Indian Engineers, a large number of indigenous materials being used in its concentration. Its capacity will be about 18 to 20 tonnes of heavy water per year, starting with diluted heavy water of 40 per cent concentration.

Plutonium Plant: The irradiated fuel contains a small amount of plutonium, a vauable nuclear material along with a large quantity of radioactive fission products. Investigations have been conducted on the separation of plutonium from the irradiated fuel. A plant is now under construction at Trombay for treating primarily the natural uranium fuel rods irradiated in the Canada-India Reactor for recovering plutonium from them. The plant is expected to be commissioned towards the end of 1961.

An auxiliary plant is being designed that will reduce the considerable quantity of the radioactive waste resulting from the plutonium plant to a small bulk so that it can be stored in an underground tank.

Stable Isotopes Plant: It is planned to set up small plants at Trombay for the production of stable isotopes such as C^{13}, N^{15}, and O^{18}, which are valuable research tools in biological sciences. Preliminary designs and process designs of these plants have been completed.

Uranium Ore Mill: A uranium mill with a capacity to treat 1,000 tons of uranium ore per day has been planned to be set up in Jadugoda area in Bihar. The process to be employed is based on the considerable amount of research work carried out on the recovery of uranium from Jadugoda ore.

Electronic Instruments: The Electronics Division of the Trombay Establishment has so far designed, developed and fabricated more than 20 different types of instruments such as portable G. M. counters, scalers, amplifiers, ratemeters, oscilloscopes and so on. Diverse types of health survey instruments needed for the radiological safety in the Trombay Establishment and institutions using radiation sources are also fabricated. In order to meet the over-increasing demands, a large scale expansion of the fabrication facilities has been planned. A comprehensive programme of gradually transistorizing most of the instruments has been drawn up and it will be put into operation in the near future.

Graphite Work Shop: A small Graphite workshop for machining nuclear grade graphite has been set up. All the graphite required for the C.I.R., Apsara and Zerlina has been machined here.

Central Work Shop: A well-equipped Central Work Shop has been planned. The general load on this work shop is expected to be as high as Rs. 50 lakhs a year, not taking into consideration major project work or experimental work of fairly big magnitude. After its construction, it will facilitate the manufacture of all components required by the Establishment for its various projects.

Mineral Sand Industry: A company called Travancore Minerals (Private) Ltd., was registered in October 1956 to exploit the rich mineral deposits of Kerala State, with the participation of the Government of India and Kerala Government on an equal basis and the company started its operation in May 1957. The Government Minerals Concerns, Manavalakurichi, owned and managed by Madras Government, was merged with this company in January 1959 and the Madras Government was taken as a shareholder.

The main mineral exploited is ilmenite, which is mostly exported. Other minerals are rutile, monazite, zircon and sillimanite. A detailed and systematic survey and prospecting of the mineral deposits in the sea bed and the present mining areas is being arranged by the Atomic Minerals Division to assess the total available deposits.

OTHER RESEARCH BODIES

There is a whole host of research organizations (besides the ones mentioned above) engaged in scientific research of one sort or another.

The Geological Survey of India in Calcutta maps out the mineral resources of the country. The Indian Bureau of Mines and the Mineral Information Bureau at Delhi help in the prospecting and working of minerals.

The Oil and Natural Gas Commission is responsible for the prospecting and exploitation of mineral oil resources.

A Central Institute of Petroleum is being set up at Dehra Dun.

Cartographic work is in progress under the National Atlas Organization in Calcutta.

The Survey of India with its headquarters at Dehra Dun is engaged in large-scale mapping of river basins and in the preparation of topographical maps.

The Botanical and Zoological Surveys both in Calcutta conduct systematic surveys of the animal and plant resources of the country.

The Meteorological Departments of the Government of India at Delhi and Poona are concerned with meteorological, climatological, hydrometeorological and snow surveys.

The Department of Anthropology in Calcutta is concerned with ethnographic surveys and a variety of other studies in anthropology.

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The Indian Association for the Cultivation of Science in Calcutta is engaged in physical and chemical research, both in its theoretical and applied aspects.

Research in radio physics and electronics is in progress at the Indian Institute of Radio Physics and Electronics in Calcutta, while research in cosmic rays and theoretical physics is carried on at the Physics Research Laboratory in Ahmedabad.

The Bose Research Institute in Calcutta conducts research in physics, chemistry, zoology and plant breeding.

The Birbal Sahani Institute at Lucknow carries on research in plant fossils.

ENGINEERING RESEARCH

The Indian Standards Institution at New Delhi lays down specifications for materials, tools and products.

Among engineering institutions providing facilities for research the following may be mentioned:

All India Institute of Hygiene and Public Health, Calcutta: Sanitary engineering.

Central Building Research Institute, Roorkee (U.P.): Building engineering, prestressed concrete engineering, etc.

Central Electronics Engineering Research Institute, Pilani (Rajasthan): Electronics and telecommunication engineering.

Central Mechanical Engineering Research Institute, Durgapur (W. Bengal): Mechanical engineering.

Central Public Health Engineering Research Institute, Nagpur: Public Health and sanitary engineering.

Central Road Research Institute, New Delhi: Road engineering.

Concrete Research Laboratory, Chepauk, Madras: Structural engineering.

Indian Institute of Science, Bangalore: Aeronautical engineering, internal combustion engines, and power, hydraulic and electrical communication engineering.

It may be mentioned here that the wind tunnel project at the Indian Institute of Science now forms the nucleus of the National Aeronautical Research Laboratory at Bangalore.

The laboratory is estimated to cost about rupees one lakh. It is the first large one of its kind in the country which will be capable of undertaking tests at speeds greater than the speed of sound. In view of the increasing importance of the aeronautical research work and of high speed flight, the project has been accorded a high priority. The project will be staffed by Indian scientists and the equipment as far as possible will be manufactured indigenously.

It is the most important research equipment in aeronautical development.

Indian School of Mines and Applied Geology, Dhanbad: Mining engineering.

M. S. University, Baroda: Civil, mechanical and telecommunication engineering.

P.S.G. & Sons Charities College, Coimbatore: Civil, mechanical and electrical engineering.

Government College of Technology, Coimbatore: Heat engineering, hydraulic engineering, soil mechanics.

Indian Institute of Technology, Kharagpur: Mechanical engineering.

Madras Institute of Technology, Madras: Aeronautical and automobile engineering and soil mechanics.

University College of Science and Technology, University of Calcutta: Heat and illumination engineering.

A number of Ministries and Departments of the Government of India have development and research sections in engineering.

The Indian Agricultural Research Institute, New Delhi has a Division of Agricultural Engineering which is concerned with agricultural equipment.

The Ministry of Communications has a Research and Development Directorate which sees to the specifications, certification and manufacture of aircraft and aircraft material.

The Ministry has a Telecommunications Research Centre in Delhi.

The Technological Development Wing of the Ministry of Industries offers advice on engineering equipment in general and more especially on machine tools and internal combustion engines.

The Central Board of Irrigation and Power conducts eleven research stations the chief of which are in Poona, Amritsar and Poondi (Madras State). The one at Khadakvasla near Poona is the most important. It conducts research in hydraulic engineering, soil mechanics, concrete materials and navigation.

The All India Radio has a research unit of its own in New Delhi.

The Railway Board has centres in Lucknow, Lonavla and Chittaranjan to investigate problems connected with railways.

Research projects connected with roads, bridges, ports, harbours are taken up for investigation by the Roads Organization under the Ministry of Transport.

It may be added that two Power Engineering Research Organizations in Bangalore and Bhopal, are being set up with the assistance of the U.N. Special Project Fund with UNESCO acting as the executive agency.

MEDICAL RESEARCH

Medical Research is conducted chiefly under the auspices of the Indian Council of Medical Research, New Delhi. The Council also grants research fellowships. There is a Scientific Advisory Board which deals with technical questions and publishes reports of research carried on under the auspices of the Council.

The Council spent over Rs. 48 lakhs on research in 1959-60. In 1960-61 the expenditure was expected to exceed Rs. 50 lakhs.

The more prominent research institutions in medicine are:

School of Tropical Medicine, Calcutta: Diseases peculiar to tropical climate.

All India Institute of Hygiene and Public Health, Calcutta: Preventive and social medicine.

Indian Cancer Research Centre, Bombay: Cancer.

Vallabhbhai Patel Chest Institute, Delhi: Tuberculosis and diseases of chest.

Central Leprosy Research Institute, Madras: Leprosy.

Haffkine Institute, Bombay: Plague, malaria, virus diseases, nutrition. It also manufactures vaccines and sera.

Central Research Institute, Kasauli: Microbiology, bio-chemistry, serology.

Pasteur Institute, Coonoor: Rabies, influenza, tropical eosinophilia, anti-venom serum, serological reactions.

King Institute of Preventive Medicine, Guindy, Madras: Vaccines, specially against smallpox and therapeutic sera.

Bengal Immunity Research Institute, Calcutta (Private): Prevention, control and cure of disease, and anti-malarial drugs.

Central Drug Research Laboratory, Calcutta: Biological and chemical assays of drugs. It also gives technical advice to drug manufacturing firms.

Drug Research Laboratory, Jammu: Research in medicinal plants. Has two farms. Promotes standardization of indigenous drugs.

Virus Research Centre, Poona: Virus-caused diseases.

Central Drug Research Institute, Lucknow: Work on drugs.

Malaria Institute of India, Delhi: Malaria.

Nutrition Research Laboratories, Hyderabad: Nutrition and allied subjects.

The Indian Council of Medical Research initiates research in a large number of specific problems at medical colleges and hospitals in the country including the institutions mentioned above.

A Central Police Research Centre is being set up at Mount Abu at the Central Police Training College. The Centre will study and conduct research on the various problems of administration and investigation confronting the police in the country and suggest possible solutions. It will also help to coordinate the activities of State Police Research Centres.

RESEARCH IN HUMANITIES

Research in the humanities—literature, language, arts, etc.—is engaging the attention of individual institutions scattered throughout the country.

Anjuman-i-Islam Urdu Research Institute, Hornby Road, Bombay 1; Anthropological Society of Bombay, C/o K. R. Cama Oriental Research Institute, 136, Apollo Street, Bombay; Bangiya Sahitya Parishad, 243-1 Upper Circular Road, Calcutta; Bhandarkar Oriental Research Institute, Poona; Bharatiya Itihasa Samshodhaka Mandala, Sadashiv Peth, Poona; Bharatiya Vidya Bhawan, Chowpatty, Bombay; B. J. Institute of Learning and Research, Bhadra, Ahmedabad; B. M. Institute of Child Development, Pharmacy College, Navrangpura, Ahmedabad; Bureau of Psychology, Allahabad; D. A. Memorial Institute, C/o Bharatiya Itihasa Samshodhaka Mandala, Poona; Deccan College of Post-Graduate and Research Institute, Poona; Department of Anthropology, Indian Museum, 27 Chowringhee Road, Calcutta; Department of Archaeology, Ministry of Education, New Delhi; Department of Historical and Antiquarian Studies, Gauhati; Dharmakosha Mandal (Vedic Research Institute), C/o Prajna Pathshala, Wai, District North Satara,; Ganganath Jha Research Institute, Allahabad; Gokhale Institute of Politics and Economics, Poona; Gujarat Research Society, Bombay; Hindi Vidya Pith, Deoghar, Bihar; Indian Institute of Education, 11 Horniman Circle, Bombay; Indian Institute of Philosophy, Amalner, Dt. Jalgaon, Maharashtra; Kannada Research Institute, Dharwar; Karnatak Research Society, Dharwar; K. P. Jayaswal Research Institute, Patna; K. R. Cama Oriental Institute, 136 Apollo Street, Bombay; Kuppuswami Sashtri Research Institute, Mylapore, Madras; Mandir Vidya Pith, Bhagalpur, Bihar; Marathi Sanshodhan Mandal, Mumbai Marathi Granth-sangrahalaya, Thakurdwar, Bombay; Mithila Institute of Post-Graduate Studies and Research in Sanskrit Learning, Darbhanga, Bihar; Nalanda Pali Institute, P.O. Nalanda, Patna; National Archives of India, Ministry of Education, New Delhi; Oriental Research Institute, Mysore; Rajasthan Vishva Vidya Peeth, Udaipur; Rajwade Samshodhan Mandal, Dhulia, Maharashtra; Scindia Research Institute, Ujjain; Shri G. K. Institute of Rural Education, Gargoti, Kolhapur District; Sheth Bholabhai Jeshingbhai Institute of Learning and Research, Bhadra, Ahmedabad; Shri Farbes Gujarati Sabha, Bombay; Tata Institute of Social Sciences, Chembur, Bombay; The Asiatic Society, 1, Park Street, Calcutta; Vachana Mantapa (Kannada Research Institute), Belgaum; Venkateswara Research Institute, Tirupati; Vaidika Samshodana Mandal, Tilak Memorial, Poona; Vaishali Prakrit Institute, Muzaffarpur; Vishveshwaranand Vedic Research Institute, Hoshiarpur, Punjab.

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CIVIL AVIATION

ALLOTMENT : IInd Five-Year Plan, Rs. 1,796 lakhs including special allotment of Rs. 663 lakhs. IIIrd Plan : Rs. 55 crores (Provisional.)

The budget estimates for 1961-62† for the Civil Aviation Department were: Revenue Expenditure : Rs. 6·59 crores (gross); Capital Expenditure : Rs. 4·36 crores including charged expenditure and meteorological equipment; Revenue from landing, etc. at civil aerodromes : Rs. 1·05 crores.

The internal air services and services to neighbouring countries are managed by a corporation called Indian Airlines Corporation, and the external services by Air-India International Corporation. According to the Act, 1953 the number of members of a Corporation cannot be less than five and not more than nine. Each of the Corporations has a general manager.

The Central Government has authority to give the Corporations directions about opening a new transport service, closing an existing service, or other changes in schedule. At the end of a financial year the Corporations must present a report to the Central Government which will be laid before Parliament.

Private agencies can use aircraft for purposes of instruction, rescue or relief, air survey, fire fighting, crop dusting, locust control or for providing joy rides.

An Air Transport Council has been established for considering points of common interest between either of the Corporations and the Director-General of Civil Aviation or the Director-General of Posts and Telegraphs.

An Advisory Committee for each Corporation was reconstituted in June, 1960.

A Labour Relations Committee for each Corporation consisting of representatives of the Corporation and of employees has been functioning since 1956. The Committee has been formed in such a way that the representatives of employees are not fewer than the representatives of the Corporation. This Committee will give advice to the Corporation on matters of labour.

In addition to the two Corporations, there were 17 flying clubs and seven transport companies holding permits for non-scheduled service on 30th June, 1960.

As many as 922,400 passengers and about 70 million kilograms of cargo and mail were carried by scheduled and non-scheduled air transport services in the country in 1960.

The scheduled air transport services flew 40,324,900 km. in 1960. The number of passengers carried increased from 736,160 in 1959 to 824,500 in 1960. The amount of freight and mail carried increased from 40,329,143 kgs. to 42,213,000 kgs. The mail carried showed a decrease over the previous year.

During 1960 nearly 35,400 hours and 9,457,000 kilometres were flown on non-scheduled operations against the previous year's figures of 33,931 hours and 8,976,180 kilometres. The number of passengers and cargo carried were nearly 97,900 passengers and 34,194,500 kgs. against 88,840 passengers and 36,799,124 kgs. of cargo the previous year.

There are three departmental gliding centres and two gliding clubs in India.

The Civil Aviation Training Centre, Allahabad continues to conduct courses for commercial Pilots training and for various ground jobs connected with aircraft.

During the period 1st January to 31st December 1959, there were 32 major accidents in India involving 26 Indian registered aircraft, 2 foreign registered aircraft and 5 gliders. Eight of these accidents were fatal resulting in the death of 41 persons, *viz.* 18 crew and 23 passengers.

Seventeen of the Indian registered aircraft (including four gliders) involved in major accidents were engaged on instructional flights, three on scheduled passenger services, two on non-scheduled passenger services, four on non-scheduled freighter services and five (including one glider) on private, cross country and miscellaneous flights. One of the foreign registered aircraft involved in major accidents was engaged on scheduled passenger service and the other on non-scheduled passenger service.

INDIAN AIRLINES CORPORATION

(Thapar House, Janpath, New Delhi.)

Some basic facts about the Indian Airlines Corporation for 1959-60 are as follows :

Service	Hours Flown	Miles Flown	Passengers Carried	Freight Carried lbs.	Mail Carried lbs.
Scheduled Services	101,462-40	17,153,712	662,781	64,760,613	13,090,156
Non - Scheduled	15,512-30	2,248,061	40,232	35,218,610	26,122

INDIAN AIRLINES CORPORATION was formed on 1st August, 1953, as a State Corporation under the provisions of the Air Corporations Act, 1953.

The present fleet consists Dakota 58 ; Viking 12 ; Skymaster 5 ; Heron 7 ; Single-Beech 1 ; L-5 Sentinal 1 ; Avro XIX 1 ; Viscounts 10 (Total 95) at the end of 1959, connecting Afghanistan, East and West Pakistan, Nepal, Burma and Ceylon. I.A.C. has 60 stations in India and the neighbouring countries.

Indian Airlines Corporation is now a full member of the International Air Transport Association. Indian Airlines Corporation has set up training establishments for its Flying, Engineering and Traffic personnel. Besides regular passenger and freight services, I.A.C. operates a Night Airmail Service linking Bombay, Delhi, Calcutta and Madras.

The members of the Board of Directors of the Indian Airlines Corporation are :

V. Shankar, I.C.S. (Chairman), J. R. D. Tata, Commanding General M. J. B. Maneckji, B. R. Patel, I.C.S., Air Vice-Marshal P. C. Lal, D.F.C., N. N. Wanchoo, I.C.S., S. R. Vasavada, Mrs. P. V. Cherian.

General Manager : Air Vice-Marshal P. C. Lal, D.F.C.

Secretary : S. C. Mukerji.

The operations of the Corporation have been divided into three Areas, namely Delhi, Bombay and Calcutta. Each Area is under the charge of an Area Manager who is responsible to the General Manager for the proper administration and co-ordination between different departments in the Area. The Headquarters Office of the Corporation has, besides the Chairman and the General Manager, Departmental Heads.

The total number of staff employed by the Corporation as on March 1960 was 9,553.

The crew strength of the Indian Airlines Corporation consists of 225 Commanders and 97 Co-pilots.

Capital : Rs. 15,27,80,960 (as on 31st March, 1960).

Revenue (1959-60) : Rs. 11,94,98,931 (Rs. 10,82,48,666 in 1958-59). Expenditure (1959-60) : Rs. 11,87,17,433 (Rs. 11,73,67,257 in 1958-59).

The loss incurred by I.A.C. in 1958-59 was Rs. 91·19 lakhs as against Rs. 103·07 lakhs in 1957-58. In 1959-60 it made a profit of Rs. 7,81,498.

BUDGET

The revised and budget estimates respectively for 1960–61 and 1961–62 are given below (Rs. lakhs).

For the air corporations :—		
I.A.C.	1960–61	1961–62
Buildings	16·00	12·00
Miscellaneous items of capital expenditure ..	159·71	18·00
Purchase of aircraft ..	..	167·00
A.I.I.C.		
Workshop expansion ..	..	60·00
Air Transport Council ..	0·02	0·02
Purchase of aircraft ..	171·00	145·00
For the Civil Aviation Department :—		
Capital expenditure ..	458·88	436·41
Revenue expenditure ..	668·86	658·94
Contribution to I.C.A.O.	4·77	4·98

The revenue likely to be derived by way of landing, housing charges, lease of hangars etc. at civil aerodromes for 1960–61 and 1961–62 are estimated at Rs. 111·26 lakhs and 104·91 lakhs respectively.

According to the decision taken recently losses incurred by the I.A.C. upto 31st March, 1959 would be reimbursed to it as subsidy. The total losses upto that date are Rs. 588·81 lakhs (cash and depreciation).

Area Manager : Delhi, Capt. R. P. Huilgol ; *Bombay*, Capt. D. A. Samant ; *Calcutta*, Dr. H. M. Wadia.

AIR-INDIA INTERNATIONAL

New India Assurance Building, Mahatma Gandhi Road, Bombay 1.

Air-India International Corporation was formed on August 1, 1953 as a wholly Government-owned Corporation under the Air Corporations Act, 1953.

The Corporation inaugurated its Boeing operations on April 19, 1960 on the India/U.K. route. The operation is now built upto six frequencies a week to London, out of which five are extended over the North-Atlantic to New York. Air-India now operates Boeings to Tokyo twice a week *via* Calcutta, Bangkok and Hongkong and to Nairobi once a week *via* Aden. In addition to these Boeing flights, there are the following Super Constellation flights : One to Sydney *via* Madras, Singapore, Jakarta and Darwin, one more to Jakarta *via* Madras and Singapore, one regional service to Kuwait *via* Karachi and Bahrain and one to Moscow from Delhi *via* Tashkent.

Fleet : 9 Super Constellations and 1 DC-3 Freighter. 4 Boeing-707 Intercontinental Jets.

During 1960 A.I.I. on its scheduled services flew 12,178,926 kilometres carrying 109,915 passengers, 3,226,130 kgms. of cargo and 819,965 kgms. of mail.

The Commonwealth airlines pool of Air-India International, B.O.A.C. and Qantas came into being on April 1, 1960.

† See column three on this page under budget.

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This arrangement will make it a partner in a giant international air system which will be better able to hold its own in the new age of jet air travel.

The Commonwealth pool is part of a pattern for the integration of international airlines.

The Air-India-B.O.A.C.-Qantas pool will retain the identity of each airline but provides for a division of revenue on the basis of a traffic-frequency formula. The formula will be subject to periodic revision. The three airlines will co-operate with each other and will jointly and severally compete with the other carriers.

The pool will operate in respect of routes which are served by all three airlines. In the case of Air-India, the pool arrangement will apply to all flights, including the proposed transatlantic run, except those to Nairobi and Moscow.

Air-India already has a revenue pool with the Soviet Airline, Aeroflot, on the Delhi-Moscow sector. Both airlines operate the same number of services and each shares its revenue equally with the other.

Executive Officers : J. R. D. Tata, *Chairman ;* B. R. Patel, *Vice-Chairman & General Manager ;* S. K. Kooka, *Commercial Director ;* N. J. Pavri, *Financial Controller ;* K. K. Unni, *Chief Administrative Officer ;* A. S. Banavalikar, *Personnel Manager* and R. N. Gundil, *Secretary.*

London Office : 17-18 New Bond Street ; Tokyo Office : Hibiya Mitsui Building ; New York Office : 410, Park Avenue, New York 22.

Commercial Headquarters : 4th Floor, Bank of India Building, Mahatma Gandhi Road, Fort, Bombay-1. Cable : AIRINDIA.

Net profit for the year ending March 31, 1960 : Rs. 26·98 lakhs.

Operating Revenue : Rs. 1,258·1 lakhs.

Total number of persons employed by A.I.I. : 4,821.

Unduplicated route mileage : 24,671.

AIRCRAFT

There were 526 aircraft holding current Certificates of registration in India at the end of December 1960 of which 196 held current Certificates of Airworthiness.

Of the 526 aircraft 13 were owned by Air-India International and 91 by Indian Airlines Corporation.

An agreement was signed on Dec. 30, 1959 by the Government of India and Rolls Royce, Limited, whereby Rolls Royce dart engines will be produced under licence in India.

These engines will be installed in AVRO 748 transport aircraft, which will be manufactured in India. The dart prop-jet is well established in India and enjoys a high reputation. Indian Air Force has been operating two Vickers 'Viscounts' since 1955 and the Indian Airlines Corporation has been operating a fleet of dart-powered Viscounts most successfully since 1957.

AERODROMES

There were 86 aerodromes maintained and operated by the Civil Aviation Department in Dec. 1960.

The following aerodromes (3) are classed as International Aerodromes :

Bombay (Santa Cruz Airport); Calcutta (Dum Dum Airport) ; Delhi (Palam Airport).

The following aerodromes (8) are classed as Major Aerodromes :

Agartala (Tripura) ; Ahmedabad ; Begumpet (Hyderabad) ; Delhi (Safdarjung) ; Gauhati ; Madras (St. Thomas Mt.) ; Nagpur; Tiruchirapalli.

The following aerodromes (38) are classed as Intermediate Aerodromes :

Allahabad ; Amritsar ; Aurangabad (Maharashtra) ; Baghdogra (West Bengal); Balurghat (West Bengal) ; Banaras ; Baroda ; Belgaum ; Bhavnagar; Bhopal; Bhuj (Kutch) ; Bombay (Juhu)* ; Chandigarh ; Coimbatore ; Cooch-Behar ; Cuttack (Bhubaneswar)* ; Gaya ; Gorakhpur (Kusmi)* ; Indore; Jaipur ; Junagadh (Keshod)* ; Kailashahar (Tripura); Kamalpur (Tripura) ; Khowai (Tripura); Kumbhirgram (Assam) ; Lucknow (Amausi*); Madurai ; Mangalore (Bajpe*); Mohanbari (Assam); North Lakhimpur (Lilabari*); Pasighat (N.E.F.A.); Patna ; Porbandar (Gujarat); Rajkot ; Rupsi (Assam) ; Tezpur (Assam) ; Trivandrum ; Vijayawada ; Vishakapatnam.

The following aerodromes (37) are classed as Minor Aerodromes :

Akola; Asansol ; Bareilly ; Bilaspur ; Chakulia (Bihar) ; Cuddappah (Andhra) ; Donakonda (Andhra) ; Jhansi ; Jharsuguda (Orissa) ; Jabalpur ; Kandla ; Kanpur (Civil) (Uttar Pradesh) ; Khandwa ; Kolhapur ; Kotah (Rajasthan) ; Kulu ; Lalitpur (U.P.) ; Manipur Road (Assam) ; Malda ; Muzaffarpur (Bewaghat*) ; Mysore ; Palanpur (Deesa)* ; (Gujarat) ; Panagarh (W. Bengal) ; Panna (M.P.) ; Phoolbagh ; Raipur ; Rajahmundry ; Ramnad ; Ranchi ; Satna (M.P.) ; Saharanpur (U.P.) ; Shella (Assam) ; Sholapur ; Tanjore ; Udaipur (Dabok) ; Vellore ; Warangal.

The construction of the aerodrome at Kandla has been completed. It was opened on March 14, 1959.

New aerodromes are under construction at Tulihal (Imphal), Raxaul (Bihar), Jogbani (Bihar), Behala (Calcutta) and Phoolbagh (U.P.). A gliderdrome at Poona is also under construction.

The following important works were started in 1960 : Construction of a new Runway for Jets at Palam Airport ; Strengthening and widening of the Taxi Track west of the Apron at Palam Airport ; Construction of maintenance apron at Palam Airport ; Special repairs to Apron and Taxi Track (Civil) portion at Srinagar ; Construction of main technical building at C.A.T.C., Allahabad ; Strengthening and extension of Instrument Runway at Dum Dum Airport ; Improvement to operational area at Dum Dum Airport ; Extension and regrading of 2nd runway at C.A., Madras ; Construction of additional residential quarters at C.A., Madras ; Construction of terminal building at C.A., Madurai ; Extension of East West Runway at C.A., Begumpet ; Construction of W.T. Station at C.A., Tiruchirapalli ; Construction of freight shed at Santa Cruz Airport ; Construction of remote receiving Station at Bombay Airport ; Construction of Community Centre at Bombay Airport.

AIR TRAINING

The number of persons holding current pilot's 'A' licence decreased from 1,197 at the end of December 1959 to 1,162 at the end of December 1960. The number of 'B' Pilots holding current licences decreased from 597 at the end of November 1959 to 580 at the end of November 1960. The number of Aircraft Maintenance Engineers holding Indian licences increased from 1,089 in Dec. 1959 to 1,160 in Dec. 1960.

At the end of Dec. 1960 there were 17 flying clubs centrally subsidized and four satellite centres with their headquarters at Delhi, Bombay, Madras, Barrackpore, Patna, Bhubaneswar, Nagpur, Jullundur, Jaipur, Lucknow (with satellites at Allahabad, Kanpur and Varanasi), Bangalore, Indore, Hyderabad, Gauhati, Trivandrum, Baroda and Coimbatore. The Coimbatore Flying Club was inaugurated at Coimbatore on 20th Jan. 1960.

These flying clubs trained 185 'A' and 9 'B' pilots upto the end of November, 1959. There were 669 trainees for 'A' Licence and for 'B' Licence undergoing training on 1st December, 1959. During 1959-60 the flying clubs logged a total of 27,958 hours of flying.

The number of aircraft on charge on Nov. 1, 1960 was 142 ; 23 belonged to the Government and 119 to the clubs.

The number of pilots employed was 50, aircraft maintenance engineers 44, mechanics 152. The aircraft flew 2,740 hours in Oct. 1960.

In order to promote airmindedness among the youth of the country, 60 Free Flying Scholarships were awarded to trainees of Flying Clubs during 1959-60. Under the scheme each trainee is permitted upto 50 hours of training free of cost. Another 60 scholarships were sanctioned during 1960-61.

There were three Government Gliding Centres at Poona, Allahabad and Bangalore and two centrally subsidized Gliding Clubs at Delhi and Pilani (Rajasthan) in operation at the close of Dec. 1960.

The number of gliders on charge on November 30, 1960 was 39, 37 belonged to the Government and two to the Clubs.

The total subsidy granted to flying clubs in 1959-60 was Rs. 19,931,115.

Aviation Training Centre

The Civil Aviation Training Centre at Allahabad opened in 1948 trains commercial pilots, aircraft maintenance engineers, aerodrome control officers and operators, fire operators, radio operators and technicians.

The Centre comprises the following four wings, *viz.* :—

(1) Flying School ; (2) Aerodrome School ; (3) Engineering School ; (4) Communication School.

In addition a Repair and Overhaul Organisation is also attached to the Centre for carrying out repairs and overhaul of the Centre's aircraft.

A total of 358 trainees as indicated below was trained in the Civil Aviation Training Centre, Allahabad during the period from 1st Jan. to 31st Dec. 1960.

Commercial Pilots Licence Course 32 ; Crash Fire Rescue Course 87 ; A.T.C. Officers ab-initio Course 20 ; A.T.C. Officers Refresher Course 12 ; Aerodrome Operators (grade I) Course 19 ; Aerodrome Operators ab-initio Course 29 ; Aerodrome Operators Refresher Course 7 ; Inspection Officers Refresher Course 12 ; Asst. Aircraft Inspection Officers Inspection Course 12 ; Radio Technicians Advanced Refresher Course 29 ; Radio Operators Advanced Refresher Course 15 ; Specialist Course in R.T.T. for Radio Technicians 12 ; Specialist Course in I-IR/ILS/Radar 14 ; Specialist Course in AD = 200/VOR 28 ; Combined ETT and Long Range RT Course for Radio Operators 15 ; Refresher Course for Communication Assistants 15.

The candidates from foreign countries who got training at the Civil Aviation Training Centre, Allahabad during the period under review included Seven Nepalese, two Ceylonese and three candidates from Singapore.

At the end of November 1960, there were 68 trainees on the rolls of the Civil Aviation Training Centre undergoing training in different courses. This number included six Nepalese nationals.

I.A.C. has a Central Training Establishment at Hyderabad.

The Government of India have set up a school of aviation medicine in the premises of the Hindustan Aircraft Ltd., Bangalore.

AERONAUTICAL COMMUNICATIONS

The Aeronautical Telecommunication Organization in India has been divided into four regions (Bombay, Calcutta, Delhi, Madras), each under the charge of a Controller of Communication, who is responsible to the Director of Communication for the maintenance and operation of the aeronautical communication station in his region.

* Name of aerodrome or location.

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At the end of 1959 there were 80 aeronautical communication stations providing a total number of 683 navigational aids and communication facilities.

The aeronautical communication organisation has the following ancillary units as central establishments in Delhi:—

The Radio Construction and Development Units; The Central Radio Stores Depot.

Each of these is under the charge of a Controller.

The Service includes: (*i*) Radio Aids to Navigation to provide en-route navigational guidance to the aircraft in flight; (*ii*) Radio Aids to Approach & Landing to ensure safe approach to an aerodrome and landing of the aircraft particularly under bad weather and poor visibility conditions; (*iii*) Air/Ground Communication to provide communication facilities between ground stations and aircraft in flight; (*iv*) Fixed Communication Service for exchange of aircraft operational messages between the aerodromes; (*v*) Meteorological Information Service to disseminate latest weather reports from the meteorological observations and forecasts.

The facilities include up-to-date electronic aids, such as very high frequency automatic visual direction finder, very high frequency omni-directional radio range (VOR), standard intrument landing system (ILS), aerodrome control radar (ACR), radar responder equipment of the Eureka Mark VII type, long range high frequency radiotelephone air/ground channels, radio-tele-typewriter fixed telecommunication circuits, and multi-channel and automatic speech recorders.

During the year under review communication facilities and navigational aids were augmented and/or initially provided at several Aeronautical Communication Stations to meet operational requirements consequent to the changes in the air traffic pattern in and across India. Radio Navigational Aids such as Non-Directional Beacons or Visual Automatic Very High Frequency Direction Finders or Very High Frequency Omni-Ranges (VOR) were installed and brought out into regular operation at 12 aerodromes. Air/Ground communication facilities on Radio-telegraphy or Radio-telephony, and point to point communication facilities on radio-telegraphy or telephony were provided at several aerodromes during the year.

At the end of 1960, there were 70 Aeronautical Communication Stations operating throughout the country, having a total compliment of 540 telecommunication channels and 139 radio navigational aids.

Temporary aeronautical communication facilities were provided at some airfields to meet the operational requirements of special or chartered flights.

RESEARCH

Research and development for civil aviation is undertaken by The Research and Development Organization of the Civil Aviation Department.

The work of the R & D Organization is in New Delhi at a research and test laboratory, known as the Technical Centre, opened in 1949. The Centre is being staffed and equipped in gradual stages in order to realize the objectives of the Organization.

The principal objectives of the Research and Development Organization are given in the 1959-60 edition of the *Directory* in the article no "Civil Aviation".

Since its inception, this organisation has made significant contribution to the development of Civil Aviation in India. This includes two types certification of indigenously developed aircraft like the HT-2 and Pushpak; design and development of gliders like the Ashvini; development testing and drafting of standard; tendering advice to Government on selection of aircraft like Viscount, Boeing etc. for the Indian Airlines and A.I.I.; Scientific investigation of accidents and other technical problems referred from time to time.

AIR AGREEMENTS

India is a member of the International Civil Aviation Organization and has been elected to its Council.

India has entered into bilateral air agreements with the following 16 countries on the dates shown against each:—

France 16-7-1947; Sweden 21-5-1948; Pakistan 23-6-1948; Ceylon 21-12-1948; Switzerland 24-6-1949; Australia 11-7-1949; The Philippines 20-10-1949; Netherlands 24-5-1951; U.K. 1-12-1951; Afghanistan 26-1-1952; Egypt 14-6-1952; Iraq 27-7-1955; Japan 26-11-1955; U.S.A. 3-2-1956; Thailand 12-6-1956; Russia 2-6-1958.

Airlines of the following countries operate air services to and/or across India under temporary authorisation granted by the Govt. of India:—

Norway, Denmark, Sweden (jointly under one authorisation), Burma; Lebanon, Italy (pending ratification of Agreement), Czechoslovakia, Kuwait, Iraq (since suspended operations), Nepal, West Germany.

Indian Airlines and Air India International operate to and/or across the following countries under temporary authorisation:—

Burma, Nepal, Czechoslovakia, Lebanon, Italy, West Germany, Indonesia.

PORTS

ALLOTMENT under First Five-Year Plan: major ports: Rs. 25·70 crores; minor: Rs. 2·41 crores. Allotment under the Second Plan: major ports: Rs. 37·6 crores; minor ports: Rs. 5·00 crores. IIIrd Plan allotment for major and minor ports: Rs. 85 crores (Provisional).

There are six major ports in India, 22 intermediate ports and 143 working minor ports.

Technically a major port is one which is capable of taking in ocean-going steamers with a registered tonnage of 4,000 or more and berth them along wharves.

The six major ports are:

Bombay, Calcutta, Cochin, Kandla, Madras and Vishakapatnam.

The intermediate ports and the minor ports are distributed as follows State-wise:

MYSORE: There are two intermediate ports (Karwar and Mangalore) and 19 minor ports.

MADRAS: There are three intermediate ports (Cuddalore, Nagapattinam and Tuticorin) and seven minor ports.

MAHARASHTRA: There are two intermediate ports. (Ratnagiri and Redi) and 46 minor ports.

GUJARAT: There are 10 intermediate ports (Okha, Porbander, Bhavnagar, Navlakhi, Bedi, Veraval, Broach, Mandvi, Sikka and Surat) and 40 minor ports.

Kerala: There are two intermediate ports (Alleppey and Kozhikode) and nine minor ports.

ORISSA: There are one intermediate port (Paradip) and one minor port.

ANDHRA PRADESH: There are two intermediate ports (Masulipatam and Kakinada) and five minor ports.

PONDICHERRY: There is one minor port of Pondicherry only.

ANDAMAN & NICOBAR ISLANDS: There are 15 minor ports.

The three ports of Bombay, Calcutta and Madras are administered by Port Trusts which are statutory bodies set up by the Bombay Port Trust Act 1879, the Calcutta Port Act 1890, and the Madras Port Trust Act 1905.

Cochin, Kandla and Vishakapatnam are administered directly by the Central Government.

The intermediate and minor ports are administered by State Governments.

The National Harbour Board: The Board, which was set up in 1950 to advise the Central Government on matters of general policy relating to port management and development including their effects on industry, commerce, shipping, railways etc. so as to ensure integrated consideration of all important port matters, met twice during 1960, in August and November. The latter meeting was convened with the object of considering the report of the Intermediate Ports Development Committee which was set up in 1959. It recommended certain selected intermediate ports for intensive development.

The National Harbour Board has recommended to the Planning Commission that Ratnagiri should be developed as an all weather Port.

FIVE-YEAR PLANS

Major Ports: Expected expenditure on port development in IInd Plan: Rs. 60 crores. Important projects for modernization and augmentation of facilities at major ports so far completed during the Second Plan: (*i*) Development of two berths in the King George's Dock, Calcutta port into Cargo berths, one berth into an oil berth and another into a mechanical ore berth; (*ii*) A marine oil terminal at Butcher Island, Bombay Port; (*iii*) A new passenger station, a new marshalling yard, a new ore berth and a new coal berth with facilities for mechanical handling at the Madras Port. A new Administrative Office building for the Madras Port Trust has also been constructed and occupied in June 1960. The reconstructed South Quay II has been put into commission; (*iv*) One coal berth at Cochin; (*v*) Acquisition of several items of plant, equipment and floating craft at the various ports especially dredgers for Calcutta Port; (*vi*) Diversion of the Railway Line (Budge Budge section) at Calcutta Port; (*vii*) Reconstruction of eleven out of the twelve transit sheds at Prince's & Victoria Docks at Bombay Port.

Important works in progress at the major ports:

(*i*) *At Calcutta:* Reconditioning and strengthening of the quay walls of Dock No. 1, Kidderpore Docks, acquisition of a 30-ton and a 60-ton floating crane, improvement of water supply to shipping, river training works at Fulta point, modernization of workshop facilities and acquisition of floating craft especially dredgers.

(*ii*) *At Bombay:* Dredging of the main harbour channel, electrification of cranes in Alexandra Dock and acquisition of several items of floating craft.

(*iii*) *At Madras:* Dredging and excavation, construction of side walls and acquisition of wharf cranes for the new wet Dock, remodelling of Boat basin and procurement of a suction dredger, twelve diesel locomotives and twenty fork lift trucks.

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(*iv*) *At Cochin :* Construction of four berths in the Ernakulam Channel and the provision of M.G. Railway facilities.

(*v*) *At Vishakapatnam :* Provision of facilities for the Oil Refinery, deepening and lengthening of the dry dock night navigation scheme, special repairs to breakwater and acquisition of port equipment such as two electric quay cranes, four forklift trucks, two gantry cranes and two hipping tugs. Tenders for the construction of four additional berths have been invited.

(*vi*) *At Kandla :* Construction of one additional Cargo berth fishing jetty and acquisition of a suction dredger.

(*vii*) *At Surat :* Intermediate Port Development Committee has recommended the introduction of a passenger ferry service between Surat and Bhavnagar.

Third five year plan has provision to develop Mangalore and Tuticorin ports as all-weather ports.

Haldia, 65 miles away from Calcutta down the Hooghly is regarded as a promising site for setting up a subsidiary Port in the Calcutta region. Investigations into these matters have been taken up by two United Nations Experts. It will take a year before the results of their studies are available.

A sum of Rs. 75 crores has been allotted in the Third Five Year Plan for the development of the six major ports. The two most important schemes included in the Plan are :—

(*i*) the setting up of a subsidiary deep-water port at Haldia in the Hooghly estuary* and

(*ii*) a scheme for modernization of Bombay Docks.

Minor Ports : For the development of non-major ports there was a provision of Rs. 5 crores in the Second Five Year Plan.

Included in this provision are the amounts required for the establishment of a Dredger-cum-Survey Launch Pool for dredging the outer harbours, and carrying out hydrographic surveys before and after dredging ; for adding a third survey ship to the Marine Survey Wing of the Ministry of Defence, exclusively for hydrographic surveys of minor ports ; for meeting the expenditure on preliminary investigations connected with the development of the minor ports of Tuticorin, Paradip, Mangalore, etc.

The construction of a new pier at Pondicherry estimated to cost Rs. 36·75 lakhs has also been undertaken.

A provision of Rs. 10 crores has also been made for the development of minor ports in the draft Third Five Year Plan.

LIGHTHOUSES

Lighthouses are divided into general and local according to the utility of a particular lighthouse to navigation. The superintendence and management of general lighthouses is vested in the Union Government while the local lighthouses are managed by local lighthouse authorities such as State Governments, Port Trusts, etc.

A statutory body—the Central Advisory Committee for Lighthouses has been appointed under the Indian Lighthouses Act, which advises the Union Government on matters connected with the erection, additions, alterations, improvements, etc. of lighthouses. The Chairman of the Committee is the Secretary to the Government of India, Ministry of Transport and Communications, or the officer deputed by him to act as Chairman on his behalf. The members are : The Director-General of Shipping, Bombay (*ex-officio*) ; Nautical Adviser to the Government of India (*ex-officio*) ; A representative of the Ministry of Finance, Government of India ; Chief Hydrographer, Indian Navy (*ex-officio*) ; Deputy Secretary to the Government of India in charge of the Department of Lighthouses and Lightships, Ministry of Transport and Communications (*ex-officio*) ; one representative each of the Federation of Indian Chambers of Commerce and Industry, Associated Chambers of Commerce, Indian National Steamship Owners' Association two Government nominees representing Indian Sailing Vessels' interests ; Director-General of Lighthouses and Lightships, New Delhi (*ex-officio*), *Member Secretary.*

There are 183 lighthouses, 9 lightvessels, 109 lightbuoys, 282 unlighted buoys, 192 beacons, 299 land marks and 716 other marks, making a total of 1,790 aids to navigation strewn over the coastline of approximately 4,340 miles including Andaman Island. 86 new lighthouses and other aids to navigation have been established so far. The Second Five-Year Plan envisaged the improvement of aids to navigation at an estimated cost of Rs. 400 lakhs. A summary of the programme under the Second Five-Year Plan is given below :—Construction of lighthouses, towers, buildings and jetties, 100 nos. ; Purchase and installation of optical equipment apparatus and machinery, 100 nos. ; Establishment of M.F. and V.H.F. Radio Station, 15 nos. ; Establishment of Deccan Navigator Stations, 8 nos. ; Purchase and installation of harbour and ship borne Radars, 15 nos. ; Installation of sound signals, 50 nos. ; Purchase and installation of electric power generator equipment and machinery, 75 nos. ; Purchase and establishment of lightships, 10 nos. ; Purchase of ships, tenders, lifeboats, motor launches, etc., 35 nos. ; Purchase and establishment of buoys and other floating aids, 150 nos.

During the year 1957-58, new lights were exhibited at 2 lightstations viz. Pirotan Island (Gujarat State) and False Point (Orissa State). A new lighthouse tower has been built on the Pirotan Island in the Gulf of Kutch and a new optical equipment installed, which has a beam intensity of 495,000 candelas. This provides a range of 14 miles in adverse weather. This light started functioning from 5th February 1958.

The new optical equipment at False Point is electrically operated, the power for the light being supplied by generators installed at the station. The beam intensity of this light is 1·4 million candelas and ensures a range of 17 miles in misty weather. This light started functioning from 31st May 1958.

8 buoys were laid in Vizag Harbour to mark the channel and the entrance to the channel. A new M. F. Radio beacon has been installed at False Point (Orissa State) and this started functioning with effect from 26th January 1959. The radio beacon has a range of 200 miles.

A new M. F. Radio Beacon has been installed at Okha (Gujarat State) and this will help ships proceeding to the Gulf of Kutch and around the Saurashtra coast to fix their position, while at sea. A new auxiliary red light has been installed at Bhatkal (Mysore State).

A Fog Signal equipment has been installed at Bhatkal (Mysore State). This Fog Signal has a range of 5 miles and is the first of its kind in India. It will have a character of 3 blasts every 60 seconds. This would be very useful to ships during the monsoons and foggy weather when the visibility of the Lighthouse beam is greatly reduced. A new lightbuoy has been installed to mark the Sultanpur Shoals.

New Optical equipment has been installed at Vakalapudi Lighthouse (Andhra Pradesh). The new lighthouse with a beam intensity of 95,000 candelas started functioning from 1st February 1960. The new lighthouse at Tolkeshwar (Maharashtra) having a beam intensity of 159,000 candelas started functioning from the 15th February 1960, providing a range of 21 miles in clear weather. The new lighthouse at Deogad (Maharashtra) having a beam intensity of 100,000 candelas started functioning from 18th April 1960. The new optical equipment installed at Alleppey Lighthouse (Kerala State) would produce an effective beam intensity of 642,000 candelas and started functioning from 4th August 1960.

Nine lights installed at the Konkan Ports of Boria Bay Palshet, Shrivardhan, Janjira, Tiviri, Purnagad, Achra and Ranpar, for the benefit of the coastal shiping, started functioning during December 1959/January 1960.

The Installation of the new optical equipment at Uttan Point Lighthouse (Maharashtra State) has been completed. The new light having a beam intensity of 590,000 candelas was expected to start functioning from 15th December 1960. The new light at Korlai Fort having a beam intensity of 11,000 candelas was expected to start functioning from 1st January 1961.

New Lighthouse Towers have been constructed at Gogha, Koilthottam, Tarapore and new optical equipment installed thereon. The work of installation of a Harbour Radar at Kandla has been completed. The installations of radio beacons at Diu-Head (Gujarat State), Khanderi Island (Maharashtra State) and Dolphin's Nose (Andhra Pradesh) ; Radar at Khanderi Island (Maharashtra State) and Saugor Island (West Bengal) are in progress. The installation of optical and fog signal equipment at Jegri, Jaffrabad and Mandvi (Gujarat State) is in progress.

The work in connection with the establishment of Deccan Chains on the East and West Coasts of India is in progress. Each Chain would comprise a Master Station and 3 Slave Stations. The Chains would help ships to fix their positions at sea with great accuracy throughout the range of 300 miles from the shore under all weather conditions. The Master Station on the East Coast shall be located at Balasore and the Slave Stations at Pathpur (Orissa) and Vishnupur and Diamond Harbour (West Bengal). The Master Station on the West Coast shall be located at Savar Kundla, and the Slave Stations at Veraval, Dhrangadhra and Billimora (Gujarat State). Vertical self-radiating towers 550′ high would be established at the Master Stations and 350′ towers at the Slave Stations. The erection of 550′ aerial tower at Savarkundla and 350′ aerial towers at Verawal and Dhrangadhra has been completed. These towers would be the tallest structures of their kind in the country.

The new Optical equipment meant for the lighthouse at Dwarka has been received and the installation on a new 120′ tower is expected to be taken up shortly. The new light when exhibited, would be one of the most powerful lighthouses in the world having a beam intensity of over 5,000,000 candelas.

The Government of India has approved of a proposal to construct a lighthouse at Lushington Shoals off Port Okha in Gujarat State at an estimated cost of Rs. 80 lakhs. The proposed lighthouse with a beam intensity of 10 million candelas will have a range of 17 miles in misty weather and a fog signal with a range of 10 miles and radio beacon.

Some of the important works now in progress are the construction of lighthouses at Shortt Island, Chandrabhaga (Orissa), Rajpuri Point, Ratnagiri and Vengurla Point (Maharashtra) ; Jakhau, Savaibet, Piram Island, Veraval (Gujarat State) and East Point in Andhra Pradesh.

The Third Five Year Plan provides for an expenditure of Rs. 6 crores for the improvement construction of new lighthouses and provision of other aids to navigation along the coasts of India and Andamans.

It is proposed to electrify the lighthouses at Manapad, Mahabalipuram and Muttam Point (Madras State). The electrification will result in increasing the beam intensity by over three times.

The revenues of the Department of Lighthouses and Lightships are derived from the levy of light-dues on steamships and sailing vessels.

* A provision of Rs. 7 crores has been made in the IIIrd Plan.

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MAJOR PORTS

Ports	Receipts for 1959-60	Expenditure for 1959-60	No. of passengers embarked	No. of passengers disembarked	Imports in tons, 1959-60	Exports in tons, 1959-60	Weight of cargo in tons handled in 1959-60
	Rs.	Rs.					
Bombay *	11,74,96,885	9,22,12,390	456,346	429,628	9,412,799	3,733,408	13,146,207
Calcutta	12,97,11,791	12,71,49,128	15,581	15,758	4,954,017	4,675,339	9,629,356
Cochin	1,16,61,440·71	1,10,98,478·67	4,081	1,248	1,524,847	521,490†	2,046,337
Kandla	61,41,000‡	51,26,000‡	74,982	75,044	828,047	295,469	1,123,516
Madras	2,28,26,846	1,67,74,798	25,778	32,111	1,812,028	907,311	2,719,339
Vishakapatnam ..	1,58,31,885 (Port Fund) 2,31,039 (Pilotage Fund)	1,18,40,794 (Port Fund) 3,25,738 (Pilotage Fund)	..	..	1,205,271	1,241,968	2,447,239

* No. of vessels that entered the Port (excluding sailing vessels) 3,051 ; gross tonnage 18,336,123 ; vessels docked in dry docks 135 ; gross tonnage 471,982 ; railway traffic : local 334,300 tons ; foreign 4,125,000 tons.

† Includes 99,949 tons of bunkers.

‡ Up to Sept. 1960.

Bombay : The Port of Bombay has three wet docks—Prince's Dock, Victoria Dock and Alexandra Dock, and two dry docks, Merewether Dock and Hughes Dock. Trans-oceanic passenger traffic is mostly dealt with at the Ballard Pier. Coastal and Harbour Passenger traffic is dealt with at the Ferry Wharf. There are along the harbour front a number of bunders or open wharves and basins where the traffic carried by sailing vessels is handled.

The more important depots are the Grain Depot, the Cotton Depot and the Manganese Ore Depot. There is now a Marine Oil Terminal at Butcher Island within the Bombay Harbour for the speedy discharge and loading of oil.

The Port maintains its own railway system.

The Port Trust is administered by a Chairman appointed by the Government and a Board of 24 Trustees.

Chairman : V. T. Dehejia, I.C.S.

General Manager : T. S. Parasuraman.

Secretary : E. H. Simoes.

Calcutta : There are two docks Kidderpore Docks and King George's Docks. There are five dry docks two in King George's Docks and three in Kidderpore Docks.

There are nine jetties with a total length of 4,735 feet of which only five namely Nos. 2, 3, 7, 8 and 9 are available for ocean-going steamers.

Anchorages are available at Saugor Roads, Haldia, Kalpi, Diamond Harbour, Royapur, Ulubaria, Buj Buj and Garden Reach of which Royapur, Ulubaria, Buj Buj and Garden Reach are available only for deep laden vessels outward bound or in emergency. The other anchorages are used by ships on passage to and from the Port.

There are petroleum wharves at Budge Budge about 14 miles below the entrances to the docks.

There are two tea warehouses, a grain and seeds depot at Kantapukur, two sheds at Jhinjerapul, A and B sheds at Kidderpore, the Fairlie, Clive, Canning and Strand Warehouses situated close to the Calcutta jetties.

Kidderpore Dock No. 2 has six coaling berths and there is one at Garden Reach Jetty.

The port can handle a sea-borne traffic of nearly 11 millions a year without congestion or delay.

The chief exports from Calcutta are coal, tea, sugar, gunnies, bone and bone-meal, Cunker oil, iron and steel manufactures, lac, scrap, ores and mica. The principal imports are salt, food-grains and flour, sulphur, tinplate, machinery, petroleum, iron and steel, metals other than iron and steel, lubricating oil, cement, soda, timber, fertilisers, bricks, sand, tiles, chemicals, oils, railway material.

Communication between the various points in the Docks and jetties is maintained by the Commissioner's Railway.

The Port is administered by a Port Commission with jurisdiction under the Calcutta Port Act from Budge Budge to Konnagar.

Chairman : K. Mitter.

Secretary : P. C. Mitter.

Cochin : The Port of Cochin is open for deep water traffic in the worst monsoons and provides a splendid anchorage at all times of the year. Any ship drawing upto 30 draft can enter the port even in the roughest weather.

The Cochin Harbour Railway is connected with the Broad Gauge and Metre Gauge systems of the Southern Railway. Inside the harbour there are 12 stream berths, two coal berth, four wharf berths, one boat train pier jetty and two tanker berths. One of the 12 stream berths is a swinging berth capable of accommodating vessels upto 650 ft. overall in length and 28 ft. draft. The tanker berths in the Ernakulam Channel provide facilities to discharge oils direct to the shore installations. The deep water wharf can accommodate at a time four vessels of 450 ft. in length.

The principal imports are foodgrains, mineral oils, coal, cashewnuts, hardware, chemicals and manure. The principal exports are coir and coir products, tea, rubber, cashew kernels, coconuts, spices and ores.

Administrative Officer : M. S. Venkataraman.

Kandla : India's youngest major port of Kandla now has the following main facilities :—

A cargo jetty with : (*a*) The designed depth of 32 ft. of water alongside ; (*b*) 2,700 ft. of total quayage sufficient to accommodate five liberty type ocean going vessels ; (*c*) 3 spacious transit sheds having a floor area of 64,184,59 ft. each ; (*d*) 21 electric quay cranes of the most modern type 3 tons, 6 tons, and 10 tons cranes with 75 ft. reach ; (*e*) Broad wharves served with three railway lines, all dual gauge (BG & MG) ; (*f*) Spacious open stacking places with railway and road sidings ; (*g*) 4 spacious double storied warehouses each with a floor area of 122,398 square ft. with over-bridge connections to the roofs of the transit sheds, modern cargo lifts, chutes and loading platforms.

Four mooring berths for vessels to discharge cargo in stream into lighters.

An oil berth capable of taking oil tankers of upto 16,000 tons dead weight capacity with two pipelines of 16 inches and 12 inches dia. connected with oil installations.

A tidal basin 500′ × 300′ for lighters and sailing vessels provided with transit sheds, 3 quay cranes each of 3 tons, one quay crane of 6 tons, a gantry crane of 60 tons capacity for handling heavy lifts. The bunder is well served with railway tracks and roads.

A floating dry dock capable of taking vessels of upto 250′ length for carrying out repairs.

Two most modern passenger jetties for ferry services.

The structure of port charges presents a very favourable picture.

Efficient pilotage service consisting of qualified pilots.

The port is equipped with the latest version of a harbour radar with V.H.F. radio telephones.

The port is connected to its hinterland by means of M. G. Railway. The broad gauge rail link to Ahmedabad *via* Jhund is expected to be completed within 5 years.

The construction of the National Highway connecting Kandla to Ahmedabad is also in progress.

Total upto-date sanction for Kandla Port Project stands at Rs. 17,89,42,000 (excluding the development of Gandhidham township). Amount spent on this project till September 1960 : Rs. 15,38,03,472.

The chief imports were mineral oil, foodgrains, building material and iron and steel whereas the principal items of export were iron ore and salt.

The port has at present adequate capacity to handle import and export traffic upto 1·3 million tons per annum. The handling capacity of the port is expected to rise to 1·8 million tons when two additional berths now under construction are completed.

237 ships and tankers have called during 1959-60.

The Government of India have decided to establish a free trade zone at Kandla.

Development Commissioner : K. N. Bhargava.

Secretary to the Development Commissioner, Dr. R. P. Bhargava.

Madras : There is accommodation for 18 vessels inside the harbour, 7 at Moorings and 11 at Quays besides the Petrol Berth at which dangerous petroleum is discharged. The depth at moorings and quay berths ranges from 26′ to 30′, except at Petrol Berth where it is 31′ 6″. Pilotage is compulsory.

The chief imports are coal and coke, foodgrains, mineral oils, metals, timber, textiles, machinery, hardware, hides and skins, paper including old newspapers, dyeing and tanning substances, chemical manures, sugar, asphalt, chemicals, cotton, etc.

Ores, piecegoods, hides and skins (raw and tanned), onions, raw tobacco, twist and yarn, mica, etc. form the principal exports.

Groundnut oil is also an important item of export and three oil tanks have been erected for storing the oil.

The affairs of the Port are administered by a Board of Trustees.

Chairman : N. Subrahmanyam, I.C.S.

Secretary : T. K. Parameswaran Nambiar, B.A.

Vishakapatnam : Ships drawing upto 28 ft. 6 in. and having a length of up to 550 ft. can now enter and leave the harbour at all times of the year. Under favourable states of tide, however, ships drawing 31 ft. can enter or leave the harbour by prior arrangements.

The harbour now provides the following facilities :

The inner harbour consists of a turning basin, four quay berths each 600 feet long and equipped with portal electric cranes, transit sheds, and railway lines, both behind and on

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the quay-side of the transit sheds and three concrete jetty and wharf berths for coal and oil. Besides, there are four mooring berths which are served by a fleet of lighters owned and operated by the port authorities and shallow water channels with timber jetties for lightering work. The quay berths No. 1 and 2 are specially equipped and reserved for the expeditious handling of manganese and iron ore: on an average, approximately 3,000 tons are loaded in a day.

A 1,200 ft. long quay berth, capable of accommodating two oil tankers simultaneously has been constructed to provide the necessary Port and Harbour facilities for the Caltex Oil Refinery at Vishakapatnam which is in full operation.

A Dry Dock 366 ft. by 60 ft. with a depth of 14 ft. below low water has been in use at the Port for the docking of vessels, but ordinarily only small craft not exceeding 300 ft. in length can be docked.

The Port has floating cranes capable of dealing with heavy lifts up to 60-ton capacity.

The Port is administered by the Government of India, Ministry of Transport and Communications, New Delhi.

Port Administrative Officer and Port Conservator.—C. R. Reddy. *Secretary.*—T. S. Narasimhan.

EAST COAST PORTS*

Ports.	Receipts for 1959-60. Rs. nP.	Expenditure for 1959-60. Rs. nP.	No. of passengers embarked and disembarked 1959-60.	Imports in tons 1959-60.	Exports in tons 1959-60.	Weight of Cargo in tons handled in 1959-60.	Officer-in-charge of Port.
Bheemunipatnam ..	149·81	5,258·23	Nil	Nil	Nil	Nil	V. Veera Raju.
Chandbali ..	—	—	—	—	—	—	—
Cuddalore ..	5,76,358·00	5,37,781·00	Nil	1,78,886	2,36,912	4,15,798	L. G. Hardas.
Dhanushkodi ..	—	—	—	—	—	—	..
Kakinada ..	5,29,084·00	7,82,735·00	Nil	44,368	1,37,535	1,81,902	Capt. L. T. Yettie.
Masulipatam ..	1,93,192·32	1,67,177·75	Nil	Nil	1,55,832	1,55,832	Capt. A. S. G. Drane.
Nagapattinam	2,51,140·17**	2,15,600·56*	22,330½	29,552	27,863¾	57,415¾	Capt. A. Sivaraman.
Tuticorin† ..	17,29,768·00	9,86,288·00	18	3,60,783	5,21,955	8,82,738	Capt. G. M. Chikhalikar.

* Where no information is available the columns have been left blank. ** Landing and shipping Fund.
† It is now a Port Trust. *Chairman*, K. M. L. Chabra, I.A.S.

MAHARASHTRA STATE PORTS

(Under Ports Organisation)

Executive Engineer (Ports) in charge of Engineering, Bandra and Ratnagiri Group of Ports: D. B. Dongre.

Ports.	Receipt for 1959-60 Rs.	Expenditure for 1959-60 Revenue Expenditure Rs.	No. of passengers embarked and disembarked 1959-60	Imports in tons 1959-60	Exports in tons 1959-60	Weight of cargo in Tons handled in 1959-60	Officer-in-charge of Port
(1) Bandra Group of Ports ..	18,071·72	—	3,41,655	5,576	48,745	54,321	D. G. Pathak.
(2) Ratnagiri Group of Ports..	97,785·00	—	9,47,458	1,49,603	2,91,030	4,40,633	Capt. D. K. Tamhane.
TOTAL	1,15,856·72	—	12,89,113	1,55,179	3,39,775	4,94,954	

Chief Ports Officer, Maharashtra State, Headquarters, Bombay 1: Capt. V. V. Javadekar,

GUJARAT PORTS

Principal Port Officer and Engineer (Gujarat State): H. P. Oza.

Ports	Receipts for 1959-60	Expenditure for 1959-60	No. of passengers embarked and disembarked	Imports in tons 1959-60	Exports in tons 1959-60	Weight of cargo in tons handled 1959-60	Officer in charge of Port
Mandvi	1,99,971·45	2,37,182†	41,432	18,550	6,886	25,436	V. M. Suthar.
Navlakhi	7,84,860*	2,89,649‡					
Bedi	16,20,671*	6,26,353*	1,53,064	25,061	78,929	1,03,990	V. G. Mankad.
Okha	12,64,441*	12,21,819*	1,815	36,358	3,14,806	3,51,164	C. P. Adaljia.
		12,03,030*	6,575	1,75,303	2,81,091	4,56,394	Capt. D. K. Tamhane.
Porbandar	5,25,168	5,57,441†	4,584	54,034	70,086	1,24,120	D. V. Bara.
		7,56,632‡					
Veraval	9,61,000	8,00,000	11,266	79,557	1,35,384	2,14,941	T. N. Oza.
Bhavnagar	17,90,794·78	26,90,933·42†	—	1,04,863	1,82,316	2,87,179	Capt. D. Y. Virkar
		31,51,475·32‡					
Broach	—	—	—	27,589	10,881	38,470	H. K. Jagannathan.

* These figures are for 1958-59. † Revenue ‡ Capital

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WEST COAST PORTS

Ports	Receipts for 1959-60 Rs. nP.	Expenditure for 1959-60 Rs. nP.	No. of passengers embarked and disembarked 1959-60.	Imports in tons 1959-60.	Exports in tons 1959-60.	Weight of Cargo in tons handled in 1959-60.	Officer-in-charge of Port.
Alleppey ..	1,85,579·52	3,55,936·47	Nil	6,687	30,210	36,897	M. Raja Raja Varma, B.A.
Koilthottam .	1,41,523·60	18,906·23	Nil	Nil	2,10,393	2,10,393	A. Ebrahimkunju.
Quilon ..	8,139·62	5,585·17	Nil	9,407	1,057 and 44 canoes	10,464	K. Sreedharan.
Trivandrum .	16,722·42	17,346·19	Nil	13,805	2,756	16,561	Smt. P. C. Mariamma.
Kozhikode ..	4,87,954·00	3,38,150·00	810	55,312	2,31,902	2,87,214	P. Parameswara Prasad.
Mandvi ..	1,99,971·45	5,26,831·00	41,432	20,558	59,714	80,272	R. K. Budhbatti, B.Sc., B.E. (Civil), D.I.C.H.E., (Delft).
Mangalore‡..	8,16,134·74	4,04,969·17	14,784½	71,895	3,48,051	4,19,946	Capt. S. R. Bajikar.
Surat ..	4,198·74*	..	..	8,836	1,834½	10,670½	R. D. Mahesh Waria (Clerk in charge).
Tellicherry ..	..	..	..	..	..	..	V. D. Peter.

* Includes figures for April 1 to Dec. 31, 1960.

‡ It is a Port Trust.

RAILWAYS

THE total route mileage of all the railways in India on March 31, 1960 was 35,213. The total electrified route mileage was 328·87.

The total route mileage is made up of the following:

Govt. railways—34,768.
Non-Govt. railways—445.

The total capital at charge of Govt. railways on March 31, 1960 was Rs. 1,370·32 crores.

There are three kinds of gauge, broad (5 ft. 6 in.), metre (3 ft. 3⅜ in.) and narrow (2 ft. 6 in.). There is also a light gauge usually laid on the mountains (2 ft.). An example of this last is the Darjeeling-Himalayan.

The total route mileage by gauge was as follows:

Broad gauge: 16,449·84
Metre gauge: 15,582·53
Narrow gauge: 3,180·55

MISCELLANEOUS INFORMATION

There are in all 6,460 railway stations. In any one day of 24 hours about 7,500 trains cover distances aggregating 562,000 miles.

The number of passenger trains would be 4,768 on Dec. 31, 1960 and of goods 3,000.

The goods trains carry 362,000 tons or about 10,000,000 maunds daily. During 1959-60, the daily average number of wagons loaded was 16,130 and 9,520 for broad gauge and metre gauge respectively.

The number of men, women and children who boarded the trains average about 4,000,000 daily. The railways carry an average of 3·64 lakh tons of goods in each 24-hour period, while the loading of goods exceeds a steady average of over 1,000 wagons per hour, all the year round.

ZONAL ADMINISTRATION

The entire Government railway system is now grouped into eight administrations: the Southern Railway, the Western Railway, the Central Railway, the Northern Railway, the Eastern Railway, the South-Eastern Railway, the North-Eastern Railway and the North-East Frontier Railway.

The headquarters of the Southern Railway are at Madras, of the Western Railway at Bombay, of the Central Railway also at Bombay, of the Northern Railway at Delhi, of the Eastern Railway at Calcutta, of the South-Eastern Railway also at Calcutta, of the North-Eastern at Gorakhpur and the North-East Frontier Railway at Pandu.

Some of these railways comprise smaller systems.

There are ten non-Government Railways. The mileage is given in brackets after the name:—

Ahmadpur-Katwa (32); Arrah-Sasaram Light (65); Bankura-Damodar River (60); Bhuktiarpur-Bihar Light (33); Burdwan Katwa (32); Dehri-Rohtas Light (42); Fulwa-Islampur (27); Howrah-Amta Light (44); Howrah-Sheakhala Light (17); Shahdara (Delhi) Saharanpur Light (93).

They are all narrow gauge (2′-6″) except two Howrah-Amta and Howrah-Sheakhala which are 2′-0″.

The highest administrative authority for the railways is the Railway Board.

The Indian Railway Conference Association, New Delhi, is a sort of clearing house for all railways.

The railways are now organized on a Divisional basis.

There are a number of Committees which have been associated with the Railway Administration: Standing Finance Committee, Central Advisory Council, Railway Rates Tribunal, Indian Railway Fuel Committee.

There are also a number of standardization Committees such as for bridges, structure, track, signalling and inter-locking, building, locomotive, carriage and wagon, electrical, specifications.

There are also Railway Users' Consultative Committees at the zonal, regional and national level. There is a Time Tables Committee, Suburban Railway Users' Consultative Committee, Passenger Amenities Committee, Catering Supervisory Committee, Book-Stall Committee. A Public Co-operative Committee consisting of members from National Railway Users' Consultative Council and members of Parliament was formed to combat crime. Zonal Parliamentary Committees have been constituted which meet the respective General Managers of the Zonal Railways in company with the Railway Minister and the Railway Board.

There are Railway Service Commissions in Bombay, Calcutta, Allahabad and Madras.

There is a training college for railway officers and staff at Baroda and 50 Training Schools.

There is a Railway Testing and Research Centre at Lucknow and a sub-centre at Chittaranjan mainly to help in the promotion of self-sufficiency in railway stores.

STATISTICS

The principal statistics for the year 1959-60 are given below. The first column shows the position for all railways, the second only for Government railways:

—	All Railways	Government Railways.
Capital at charge (Rs. crores)†	1,438·75	1,370·32
Route mileage (March 31)	35,213·00	34,768·52
Gross earnings (Rs. crores)	424· 6	422·36
Total working expenses (Rs. crores)	337·48	335·94
Operating ratio (per cent)	79·58	79·54
No. of passengers originating (million)	1,534·03	1,514·91
Passenger miles (million)	46,303·51	46,065·71
Earnings from carriage of passengers (Rs. crores)	126·50	125·61
Average earnings per passenger mile (nP.)	2·76	2·76
Freight tons originating (million)	145·48	144·19
Freight ton miles (million)	50,191·44	50,149·32
Earnings from carriage of goods (Rs. crores)	256·12	255·43
Average earnings per freight ton mile (nP.)	6·11	6·10
Total train miles (million)	237·22	235·15
Gross earnings per train mile (Rs.)	19·1	19· 2
Working expenses per train mile (Rs.)	15·4	15· 5
Net earnings per train mile (Rs.)	3·67	3·70
Net earnings per mean mile worked (Rs.)	24,642·00	24,910·00

† Exclusive of such projects as Chittaranjan.

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Other information about Indian Railways for 1959-60 is given below :—

New Lines opened to Traffic	164·90 miles
Lines under Construction	749·54 miles
Total No. of Locos (March 31, 1960)	10,534
No. of Steam Locos (including sentinel types)	10,262
No. of Diesel Electric Locos	116
No. of Electric Locos ..	91
No. of Diesel Hydraulic and Mechanical	65
No. of Passenger Carriages (March 31, 1960) ..	20,142
Total No. of Seats (March 31, 1960)	1,305,321
No. of air conditioned seats	3,143
No. of 1st Class seats ..	75,644
No. of 2nd Class seats ..	62,693
No. of 3rd Class seats ..	1,163,841
No. of Goods Vehicles (March 31, 1960)	255,089
Total carrying Capacity in tonnes	5,243,563
Total No. of Passengers Carried (Crores)	153·40
No. of A.C.	143,300
No. of 1st Class Passengers (Million)	36·52
No. of 2nd Class Passengers (Million)	11·60
No. of 3rd Class Passengers (Million)	1,491·77
Total Passenger Miles (Crores)	4,630·35
Average Miles per Passenger	30·2
Total Earnings from Passengers (Rs. in Crores)..	126·50‡
Earnings from A.C. Passengers (Rs. Millions) ..	11·76
Earnings from 1st Class Passengers (Rs. in Million)	80·72
Earnings from 2nd Class Passengers (Rs. in Crores)	5·90
Earnings from 3rd Class Passengers (Rs. in Crores)	112·76
Goods Carried (Million tons)	145·48
Net ton Miles (Crores) ..	5,019·14
Average Miles a Ton of Goods was Carried	345·0
Total fuel consumed in terms of coal (1959-60)	15·18 million tons
Value of stores imported direct (Rs. in Crores) ..	16·72
Value of imported stores purchased in India (Rs. in Crores)	17·82
Value of stores of indigenous origin (Rs. in Crores) ..	162·87
Cost of Police and Railway Protection Force (Rs. in Crores)	6·45
Capital at charge, Chittaranjan Works (Rs. lakhs)	2,274·71
Capital at charge, Integral Coach Factory (Rs. lakhs)	1,022·55
Capital at charge, Locomotive component works and Metre Gauge Coach Factory (Rs. lakhs)	2,877·67
Ganga Bridge Project (Rs. lakhs)	1,012·28
Railway Electrification (Rs. lakhs)	125·88

‡ The total figures include an arrear debit, adjustment of Rs. 14,205(000) relating to previous year which is neither reflected in the breakdown of class-wise earnings nor has been taken into account in calculating the average rate charged per mile.

STAFF

The total strength of Staff (March 31, 1960) ..	1,159,597
Position on Government Railways :	
Class I and II Staff ..	4,048
Class III and IV Staff ..	1,145,964
Class IV other than Workshop and artisan	509,653
Class IV Workshop, artisan	181,319
The total cost of all Staff (Rs. in Crores)	189·24
The total cost of Class I and Class II (Rs. in Crores) ..	4·99
The total cost of Class III staff rising to above Rs. 250 per month (Rs. in Crores)	11·87
The total cost of Class III staff, rising to not more than Rs. 250 per month other than workshop and artisan (Rs. in Crores)	66·69
The total cost of workshop staff plus artisan staff, Class III (Rs. in Crores) .	28·92
The total cost of Class IV staff other than workshop and artisan (Rs. in Crores)	56·18
Class IV, workshop and artisan (Rs. in Crores) ..	20·58
Total cost of workshop and artisan staff, Class III or IV (Rs. in Crores) ..	49·51
Man-days lost due to Sickness	12,604,391
Man-days lost due to Strikes or Lock-outs	7,903
Total Man-days lost ..	12,612,294
Total No. of Female Employees (March 31, 1960) ..	10,499
Class I and II Officers ..	3
Class III Staff :	
Clerks	2,350
Stenographers	90
Nurses	791
Teachers	616
Others	1,039
Class IV Staff	5,610

ACCIDENTS

Accidents 1959-60 :

	Killed	Injured
Passengers	402	3,480
Railway Servants ..	301	28,515
Other Persons ..	332	249
TOTAL ..	1,035	32,244

1.	No. of Collisions in which Passenger Trains were involved	30
2.	No. of Derailment to Passenger Trains	206
3.	No. of Train wreckings ..	11
4.	Attempted Train wreckings ..	122
5.	Flooding	120
6.	Failure of bridges, tunnels ..	3
7.	Trains running into road traffic at level crossings	136
8.	Broken rails	67
9.	Failure of engine owing to faulty material etc. ..	2,173
10.	Derailments not involving passenger trains	1,262
11.	Fires in trains, stations etc. ..	329
12.	Collisions involving other trains, light engines etc. ..	110
	Total of all accidents	9,110

There were no major accidents during 1959-60. Five accidents of less serious consequence occurred during the year.

On May 20, 1959, the engine and four coaches next to it of No. 5 Up North Bank Express on the North East Frontier Railway derailed and capsized. The accident occurred between Sonali and Jhana stations at 12-24 a.m. This resulted in the death of one person and grievous and simple injuries to 4 and 33 persons respectively. The approximate cost of damage to railway property was Rs. 63,100. The Government Inspector held that the accident was caused by the tampering of the track by some person or persons unknown.

On August 13, 1959, at about 11·37 p.m. while No. 2 Down Kalka Mail was on the run between Khurwabad Road and Shiri Sagar Road stations of the Eastern Railway, the engine and the first coaches derailed, resulting in grievous injuries to two persons and simple injuries to seven others. The total cost of damage to railway property was estimated at Rs. 1,11,000. The Government Inspector attributed this accident also to the tampering of the track by some unknown persons.

On August 20, 1959 at about 11-53 p.m., No. 3 Up Howrah-Madras mail derailed causing minor injuries to nine persons. The train was running between Chinna Ganjam and Uppugundur stations of the Southern Railway. The total cost of damage to railway property was about Rs. 8,800. The accident was, according to the Government Inspector, caused by the removal of fish plates and fish bolts from two rail joints and the keys from one rail by some unknown persons.

On October 20, 1959, at about 8 p.m. No. 2 Down Agra-Allahabad Passenger, while being admitted on the loop line at Bidanpur station of Northern Railway, collided head-on with the Up Ratlam Goods Special which was standing on the same loop line, resulting in the death of three persons, grievous injuries to six others and minor injuries to 27 persons. The cost of damage to railway property amounted to Rs. 76,900. The collision was caused by the violation of rules by the railway staff.

On November 18, 1959, the engine and four coaches next to it of No. 14 Up Passenger train derailed between Malkera and Mohuda stations of the South Eastern Railway resulting in minor injuries to 10 persons. The damage was estimated at Rs. 66,000. The derailment was due to pieces of ballast stones having been placed on the rails by some unknown person or persons.

CENTRAL RAILWAY, 1959-60

(Victoria Terminus, Bombay 1)

Total Route Mileage		5,409·53
Broad Gauge		3,797·87
Metre Gauge		886·68
Narrow Gauge		724·98
New Construction in Hand, Mileage		72·95
Mileage Electrified		184·85
Capital at Charge (Rs. in Crores)		236·78
Gross Earnings ,, ,, ,,		81·28
Working Expenses ,, ,, ,,		56·79
Net Earnings ,, ,, ,,		24·49
No. of Locos actually running on March 31, 1960	*Steam*	1,399
	Electric	75
	Diesel	23
Total No. of Passenger Carriages actually running on March 31, 1960		2,464
Seats by Classes—		
Air Conditioned		396
First Class		12,473
Second Class		4,939
Third Class		146,504
No. of Passengers Carried (in millions)		323·3
No. of Wagons actually running on March 31, 1960	*Covered*	30,770
	Open	11,316
Tonnage lifted (in millions) ..		33·33
Total No. of Staff on March 31, 1960		196,448

EASTERN RAILWAY, 1959-60

(Fairlie Place, Calcutta)

Total Mileage	2,339·00
Broad Gauge	2,322·00
Metre Gauge..	Nil
Narrow Gauge	17·00
Capital at charge (Rs. in Crores)..	209·24
Gross earnings (Rs. in Crores) ..	61·13
Working expenses (Rs. in Crores)	45·40
Net earnings (Rs. in Crores) ..	15·73
No. of locomotives on 31-3-60	
(a) *Steam*	1,445
Diesel	43
Electric	12
(b) *Electric Multiple Units* ..	116
(c) *Passenger Carriages (in vehicle units)*	3,349
(d) *Other Coaching vehicle (in vehicle units)*	522
(e) *Wagons (in vehicle units)* ..	58,979
No. of passengers carried	232 million
Total tonnage lifted (originating) ..	37·4 million
Staff (on 31-3-60)	171,943

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NORTHERN RAILWAY, 1959-60
(Baroda House, New Delhi 1)

Total Mileage			6,429·52
Broad Gauge			4,219·47
Metre Gauge			2,048·22
Narrow Gauge			161·83
New Construction			43·42
Mileage Electrified			*Nil*
Capital at Charge (Rs. in Crores)			209·21
Working Expenses (Rs. in Crores)			49·50
No. of Passengers Carried on the System (in million)			175,630
Net receipts (Rs. Crores)			13·47
No. of Locos :	*B.G.*	*M.G.*	*N.G.*
Steam	1,350	328	51
Diesel	10	Nil	5
Electrical	Nil	Nil	Nil
No. of passenger coaches	2,271	718	116
Passenger carrying capacity :			
Air-conditioned	229	34	Nil
1st Class	6,286	1,744	399
2nd Class	10,446	1,210	264
3rd Class	159,482	34,253	2,925
No. of Goods Wagons, open :			
High sided	11,022	818	73
Low sided	587	291	Nil
No. of Goods Wagons, covered	21,067	4,845	114
Tonnage lifted (in million)			28,598
Staff total			176,153

NORTH-EASTERN RAILWAY, 1959-60
(Gorakhpur)

Total Mileage	3,078·32
Broad Gauge	1·00
Metre Gauge	3,077·32
Narrow Gauge	Nil
New Construction in Hand	Nil
Mileage Electrified	Nil
Capital at Charge (Rs. in Crores)	80·58
Gross Earnings (Rs. in Crores)	16·36
Working Expenses (Rs. in Crores)	23·34
Net Earnings (Rs. in Crores)	—6·98
Total No. of Engines on line (in units)	870
No. of Locos (Electric) ,,	Nil
No. of Passenger Coaches ,,	2,189*
Passenger Carrying Capacity :—	
(a) *Air Conditioned*	136
(b) *1st Class*	5,072
(c) *2nd Class*	9,159
(d) *3rd Class*	103,570
Total	1,17,937*
No. of Passengers Carried	99,099
No. of Goods Wagons, Covered (in units)	19,115
No. of Goods Wagons, Open ,,	4,454
No. of Goods Wagons, Special	2,731
Tonnage lifted (tons in thousand)	8,052
No. of Staff (Total) (in units)	83,643

* (Including three reserved carriages with 12 berths in 1st Class and nine dining cars with 212 seats against 3rd Class respectively).

NORTH-EAST FRONTIER RAILWAY, 1959-60
(Pandu, Assam)

The following particulars as on March 31, 1960 :

Mileage electrified		*Nil*
Capital at Charge in Crores	Rs.	62·43
No. of Locos :		
Steam	M.G. 462	N.G. 32
Electric		*Nil*
No. of passenger coaches in M. G. (units)		1,115
Passenger carrying capacity :*		
Air-Conditioned		70
1st Class		2,692
2nd Class		3,848
3rd Class		44,587
No. of passengers carried (on the system)		33,459,400
No. of goods wagons (covered) M.G. in units		7,186
No. of goods wagons (open) M.G. in units		2,124
Tons carried (Total)		5,611,000
No. of staff (Total)		56,643

*Excluding 216 seats in Buffet/Dining cars and two berths in a State Saloon.

SOUTHERN RAILWAY, 1959-60
(Madras Central, Madras)

Total Mileage	6,160·96
Broad Gauge	1,858·71
Metre Gauge	4,207·55
Narrow Gauge	95·70
New Construction in Hand	*Nil*
Mileage electrified	18·14
Capital at Charge (Rs. in Crores)	182·26
Gross Revenue Receipts (Rs. in Crores)	58·64
Working Expenses (Rs. in Crores)	52·22
Net Revenue Receipts (Rs. in Crores)	6·42
Average no. on line daily :	
No. of Locos (Steam)	1,638
No. of Locos (Electric)	4
No. of Passenger Coaches	3,612
Air Conditioned Passenger Seating Capacity	666
I Class	11,364
II ,,	11,043
III ,,	231,485
No. of Passengers Carried (in thousands)	238,877
No. of Goods Wagons (Covered)	23,015
No. of Goods Wagons (Open)	8,781
Tonnage lifted (tons in thousands)	20,914
Staff (Total)	163,491

SOUTH-EASTERN RAILWAY, 1959-60
(Garden Reach, Calcutta 23)

Total mileage	3,495
Broad gauge	2,570
Metre gauge	..
Narrow gauge	925
Mileage electrified	..
Mileage under construction	232
Number of Locos :	
Steam	1,029
Diesel	60
Electric	..
Railcars	..
No. of passenger coaches	1,525
No. of goods wagons :	
Covered	11,144
Open	16,578
No. of staff	125,700
Passenger carrying capacity :	
Air-conditioned	272
1st class	4,579
2nd class	5,254
3rd class	87,215
No. of Passengers carried	77,324,400
Tonnage of goods lifted	30,519,000
Capital at charge	Rs. 1,95,00,86,000
Gross earnings	Rs. 58,37,56,915
Working expenses	Rs. 38,62,40,111
Net earnings	Rs. 19,75,16,804

WESTERN RAILWAY, 1959-60
(Churchgate, Bombay)

Total Route Mileage	6,064·07
Broad Gauge	1,636·36
Metre Gauge	3,668·01
Narrow Gauge	759·70
Mileage electrified	37·25
Capital at Charge (Rs. in Crores)	189·47
Gross Revenue Receipts (Rs. in Crores)	70·40
Working Expenses (Rs. in Crores)	51·64
Net Revenue Receipts (Rs. in Crores)	18·76
No. of Locos (Steam)	1,536
No. of Locos (Diesel Electric)	13
No. of Locos (Diesel Mechanical)	27
Rail Motor Coaches	87
No. of Passenger Coaches	3,535
Passenger carrying capacity Air conditioned—	
Broad Gauge	500
Metre Gauge	110
Passenger carrying capacity (1st Class)—	
Broad Gauge	8,496
Metre Gauge	7,131
Narrow Gauge	863
Passenger carrying capacity (2nd Class)—	
Broad Gauge	2,874
Metre Gauge	5,406
Passenger carrying capacity (3rd Class)—	
Broad Gauge	70,924
Metre Gauge	100,143
Narrow Gauge	11,656
No. of Passengers carried (in thousands)	385,837
No. of Goods Wagons (covered)	24,044
No. of Goods Wagons (open)	9,194
Tons carried (in thousands)	24,362
No. of staff	157,726

RAILWAY BUDGET

(Rupees in Crores)

	Actuals 1959-60	Revised Estimate 1960-61	Budget Estimate 1961-62
Gross Traffic Receipts	422·33	458·00	499·02
Working Expenses	334·62	371·40	397·66
Net Miscellaneous Expenditure	13·16	15·91	14·88
Appropriation to Depreciation Reserve Fund	45·00	45·00	65·00
Payment to Worked Lines	0·10	0·09	0·13
Net Railway Revenues	74·55	70·69	86·48
Dividend to General Revenues	54·43	56·66	65·34
Net Surplus	20·12	14·03	8·64

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Some individual items on the expenditure side are given below:

	(In crores of rupees) Budget Estimate 1961-62
Demand No. 4.—Administration	38·79
Demand No. 5.—Repairs and Maintenance	125·23
Demand No. 6.—Operating Staff	75·30
Demand No. 7.—Operation (Fuel)	73·70
Demand No. 8.—Operation other than Staff and Fuel	27·43
Demand No. 9.—Misc. Expenses	29·12
Demand No. 10.—Labour Welfare	11·61
TOTAL ..	381·18
Credits or recoveries	—48·65
Net ..	332·53

Other categories of expenditure in Rs. lakhs: Rolling stock: 100,89; track renewals: 41,22; traffic facilities: 49,52; staff quarters: 6,96; amenities for staff: 2,97; passenger and other railway users' amenities: 3,02; new lines: 48,15; electrification: 11,83.

Some individual items on the receipts side are given below:

	(In crores of rupees) Budget Estimate 1961-62
Passenger Earnings—	
Upper	17·09
Third	128·42
Other Coaching Earnings	27·11
Goods Earnings	316·00
Other Sundry Earnings	11·00
Total Earnings	499·95
Suspense	— 0·93
Gross Traffic Receipts ..	499·02

The programme of new acquisition under rolling-stock for 1961-62 is given below. Steam locos 267; diesel 130 (120 from abroad); electric locos 36; Steam boilers 11; carriages 1,425; wagons (in terms of 4-wheelers) 23,489; electric multiple units 124; cranes 41.

BUDGET SPEECH

Below we give relevant points from the speech which the Railway Minister made while presenting the 1961-62 budget on Feb. 15, 1961:

The allotment made to the Railways for the Second Plan was Rs. 1,121·5 crores, inclusive of a provision up to Rs. 15 crores to be made available to Posts and Telegraphs and Power supply authorities in connection with the Railway Electrification Projects. The Railways spent about Rs. 855 crores in the first four years of the Plan, representing 76 per cent of the total allocation, and expect to spend practically the entire balance in the current year. The total foreign exchange expenditure in the Second Plan, it is expected, will be limited to about Rs. 332 crores, against an original provision of Rs. 425 crores—later revised to Rs. 385 crores. The saving is due largely to significant developments in the manufacture of railway equipment in India.

The Railways, in their endeavour to achieve the physical targets of the Second Plan, have had to accommodate the increasing costs of labour and material within the Plan provision. The Railways will make a gross contribution of about Rs. 480 crores, covering expenditure on open line works revenue and on expenditure chargeable to the Depreciation Reserve Fund and Development Fund.

The target of 800 miles for the construction of new lines in the Second Plan will be fully reached. This represents mainly the requirements of the Steel and Coal Industries and the operational requirements of the Railways themselves.

Doubling of track over 800 miles is expected to be completed, and substantial progress has been made on another 500 miles. Several large new yards, involving some 200 miles of track, to serve the steel plants and coalfields, have been brought into commission. Works for increasing the capacity of various sections have been completed.

Against an electrification programme for over 1,400 miles which had been drawn up, about 500 miles in the Eastern region, on routes serving the coal and steel belts, will be substantially completed in the Second Plan.

Bridges over the Ganga and the Gandak, have been completed—the former well ahead of schedule—thus facilitating communications across these rivers. The work on the birdge across the Brahmaputra, which will improve the communications with, and in, the Assam region, is proceeding vigorously. The bridge is likely to be completed in 1962 as programmed.

About 8,000 miles were programmed for track renewal in the Second Plan period. There may be only a relatively small shortfall in this programme.

The Rolling Stock fleet has been augmented by some 2,100 locomotives, about 8,500 coaches and about one lakh of wagons.

The Second Plan provided, in continuation of the First Plan, for the replacement of assets which were in arrears for over a decade. It also provided for an increase in passenger traffic by 15 per cent by the end of the Plan period, and for specific increases in freight traffic for the three basic industries, *viz.* coal, steel and cement and a small increase in other miscellaneous goods traffic.

Passenger traffic is likely to exceed the Second Plan target of 15 per cent increase. The increase is expected to be of the order of 25 per cent.

The net ton miles, which is the recognised and correct index of transport performance, will increase from 36,000 millions, at the beginning of the Second Plan, to 54,000 millions at the end of the Plan. This is an increase of about 50 per cent even though, in terms of total originating traffic, the Railways will lift 8 million tons less than the target of 162 millions; part of the decrease in tonnage lifted has been due to uncontrollable factors already referred to. This increase of 50 per cent in ton miles has been handled with additions only of 29 per cent and 26 per cent in the wagon holdings and in tractive effort of locomotives respectively. This reflects the increasing operational efficiency of the Railways.

The Committee on Transport Policy and Co-ordination set up in this connection, under the Chairmanship of Shri K. C. Neogy, has just completed its first phase of examination and submitted its interim report.

Revised Estimates for 1960-61

The Revised Estimate for Passenger Earnings has now been placed at Rs. 130·97 crores, against Rs. 125·50 crores in the Budget. Increases of about Rs. 2 crores are also anticipated under 'other Coaching Earnings', based on current trends, and of Rs. 1·33 crores under 'Sundries'—the latter due largely to expansion of departmental catering. As regards 'Goods', additional earnings of Rs. 41 crores over the earnings for 1959–60 had been budgetted. But the present assessment is that, for various reasons including the partial all-India strike of Central Government employees in July 1960, goods earnings may amount only to about Rs. 289·5 crores, or an increase of Rs. 29 crores over 1959–60 figures. In the result, the Revised Estimate of Gross Traffic Receipts is Rs. 458 crores, against the Budget Estimate of Rs. 464·50 crores, or a decrease of Rs. 6·50 crores. The shortfall under Goods Earnings has been made up partly by the increase in passenger and other earnings.

The net figure of Ordinary Working Expenses for the current year is expected to register a saving of about half a crore of rupees, from the Budget figure of Rs. 326·90 crores. This is due to sustained control over expenditure, as a result of which the expenses have been regulated from time to time with reference to the volume of traffic actually handled. There have been increases in the price of coal on two occasions during the year. The cost of implementing the recommendations of the Pay Commission has also increased as a result of Government's decision to make cash payments even for the period 1st July 1959 to 31st October 1959, instead of making *ex-gratia* credits to the employees' Provident Fund accounts as originally contemplated; consequential payments in the shape of Government contribution to Provident Fund will add to expenditure.

The Revised Estimate of net expenditure on Works, Machinery and Rolling Stock during 1960–61 has been placed at Rs. 237·48 crores—an increase of Rs. 14·37 crores over the Budget Grant. The additional provision, which is covered by Supplementary Demands, is to meet the requirements according to the latest anticipations in regard to deliveries of materials and re-phasing of Plan works.

Goods earnings for 1961–62 have been budgetted on an anticipated additional traffic of about 15 million tons over 1960–61. This has been done keeping in view a total increase of about 90 million tons in the Third Plan period as a whole, but allowing at the same time for the heavier preponderance of low-rated traffic expected to be carried in the Third Plan which will have the effect of increasing the proportion of working expenses to gross earnings. With a small increase provided under passenger traffic and taking the effect of the merger of passenger tax, the gross traffic receipts are expected to be about Rs. 499 crores. After the merger of passenger tax in passenger fares, a payment of Rs. 12·5 crores per annum in lieu will have to be made to the General Revenues. Allowing for this, the gross traffic receipts would be Rs. 486·5 crores in effect, against Rs. 458 crores anticipated in the Revised Estimates of the current year, or an effective increase of Rs. 28·5 crores. There will be no revision of passenger fares, nor will there be any revision of freight rates generally. But the special surcharge at present levied on Small consignments of goods will be raised from 10 per cent to 20 per cent, primarily to further discourage the movements of such consignments by rail, which involve disproportionately greater cost on account of poor loadability and the additional attention and care required in transit. The additional revenue anticipated from this is about Rs. 50 lakhs per year. For similar reason, it has been decided that the minimum distance charged for coal will be the charge for 70 kilometers, instead of 42 kilometers as at present. Coal moving for shorter distances will be charged at a minimum of Rs. 5 per tonne, instead of Rs. 4·25 to Rs. 4·98 as at present. The additional revenue expected from this minor adjustment will be quite small.

The Budget Estimate for Works, Machinery and Rolling Stock, including Open Line Works Revenue, has been placed at Rs. 260 crores, or roughly a fifth of the Third Plan provision for the Railways. This provides for about Rs. 3 crores as usual for Railway Users' amenities and about Rs. 10 crores for staff amenities and staff quarters. The details of the provision of Rs. 260 crores are given in the relevant portions of the Explanatory Memorandum on the Budget.

Indigenous Manufacture and Self-Sufficiency

The Railways have been following a steady policy of indigenous production of Rolling Stock and other Railway equipment. The progress made is reflected by the reduction in the foreign exchange expenditure in the Railways' Second Plan, from Rs. 425 crores to Rs. 332 crores. The foreign exchange content of the Railways' Third Plan is expected to be only about Rs. 186 crores.

The Development Cell of the Railway Board continues to function in close liaison with the Development Wing of the Commerce & Industry Ministry. During the current year, indigenous capacity for the manufacture of several new items, including Centre Buffer Couplers and

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Brake Regulators, was established. The manufacture of steel fire boxes for loco boilers, mechanical handling equipment, mechanical stokers, superheater elements and vacuum operating gear for turn-tables, is being undertaken in the country. With the self-sufficiency achieved in the indigenous production of mechanical signalling equipment, the manufacture of electric signalling equipment has been started. The design and manufacture of a Motor Trolly, at a cost of about half the imported cost, have been taken up.

The Chittaranjan Locomotive Works produced 173 Broad-Gauge steam locomotives in 1959-60 and are expected to produce 164 locomotives in the current year and the same number in the next year. The small reduction in outturn is due to the initial adjustments necessitated by the undertaking of the manufacture of Electric Locomotives as well. The additional capacity, which is being developed in the Works, is designed for building approximately 60 electric locomotives per year. The mechanical portion of these will be fully manufactured in Chittaranjan; the electrical equipment will be ultimately manufactured and supplied by "Heavy Electricals", Bhopal. The anticipated outturn of such electric locomotives in 1961-62 is 20. Work is progressing also on the Steel Foundry at Chittaranjan, with 7,000 ton capacity, but with scope for expansion to 10,000 tons per annum.

TELCO delivered 105 locomotives in 1959-60. 100 are expected to be received in the current year, and 25 in the two months of next year up to 31st May 1961, *i.e.* up to the end of the present 16-year agreement with Messrs. TELCO. In view of the continuing requirement of Metre Gauge steam locomotives, even allowing for some tapering off as a result of dieselisation of some sections, it has been decided to continue to avail of the capacity built up in TELCO. An order has accordingly been placed on them for 325 Metre Gauge locomotives, to be supplied in the period from 1st June 1961 to 31st March 1966, which will more or less cover the Third Five Year Plan. The price of a locomotive delivered by TELCO in the period 1958-60 (for a lot of 200) was fixed by an independent Arbitrator at Rs. 3,80,917 per unit. The price for deliveries in the period 1st April 1960 to 31st May 1961, under the present contract, will be Rs. 3,78,526. The price for the post-contractual supply of 325 locomotives in 5 years will be Rs. 3,80,750, which is less than the price awarded by the Arbitrator.

The Integral Coach Factory, which turned out 448 coaches in 1959-60, is expected to produce 620 coaches in 1960-61 and 650 coaches in 1961-62, as a result of progressively increasing second shift operation. The permanent furnishing unit attached to the factory is expected to be completed by the middle of 1962, with a planned capacity for furnishing about 400 coaches per year on single shift working. There is also a programme of diversifying the production in the Integral Coach Factory during the Third Plan, by assigning to it the production of Metre Gauge integral third class coaches, motor and parcel vans, Broad-Gauge Electric Multiple Unit coaches, and Rail-Cars of all gauges. The production of coaches in the Integral Coach Factory and in the Hindustan Aircraft will naturally result in tapering off of coach building in the Railway Workshops. The capacity released will be utilised progressively for additional items of production which are being planned. Capacity for the production of six electric multiple unit coaches per month has been established in Jessop's Factory at Calcutta.

For the manufacture of diesel locos, it has been decided, on further consideration, to set up a new manufacturing unit in the public sector. The detailed project report is under preparation.

Wagon building capacity in the country is progressively increasing, with new firms coming into the field.

The prospect of Indian Railways entering the export market for Rolling Stock—has taken more concrete shape. We have been able to quote, through the agency of the Special Export Promotion Cell of the State Trading Corporation, competitive prices for I.C.F. built coaches, in response to global tender enquiries issued by the Pakistan Railways and by the Argentine Government Railways. The prices quoted by us are the lowest—taking the quotations for broad-gauge and metre gauge coaches together—in response to the Pakistan Railways' global tender and second lowest in response to Argentine Railways' tender.

A D.C. Electric Locomotive of 3,600 H.P. has been designed entirely as an indigenous effort. Ten such locomotives are under manufacture in Chittaranjan, the delivery of which will commence in a few months; only the electrical equipment for these has had to be imported. Seven proto-type Diesel Locomotives incorporating the "Suri Transmission" are under manufacture in West Germany.

In addition to the design of two and three tier sleeper coaches applicable both to wooden bodies and integral type, the design of a general purpose wagon has been finalised, after extensive tests for strength, safety and stability.

The concession of reduction in railway freight rates is being extended where necessary, as in the past year, as part of the efforts to step up exports. A number of proposals, including those made on the basis of requests from Trade, were considered by this Committee, and concessions were given to 13 additional items. This has raised the total number of such commodities to 38.

Amenities for Railway Users: During 1959-60, 192 new trains were introduced—165 on the broad gauge, 25 on the metre gauge and 2 on the narrow gauge; the run of 124 trains was extended—93 on the broad-gauge and 31 on the metre gauge. The consequential increases in the daily passenger train mileage were 9,814 on the broad-gauge, 2,932 on the metre gauge and 64 on the narrow gauge. During the current year, up to 1st December, 1960, 76 new trains were introduced—58 on the broad-gauge and 18 on the metre-gauge; the run of 56 trains was extended—42 on the broad-gauge and 14 on the metre gauge. The resultant increases, in the daily passenger train mileages, were 4,620 on the broad-gauge and 1,701 on the metre gauge. The seat-miles operated in 1959-60—excluding suburban electric multiple unit services—exceeded the 1955-56 figures by 11·3 per cent on broad gauge and 9·6 per cent on the metre gauge; it is estimated that there has been a further small increase of about 1 per cent in the year 1960-61.

A weekly Janata Express train was introduced from 1st April 1960 between Hardwar and Varanasi. From 1st October 1960, a bi-weekly Janata Express train was introduced between Bombay (V.T.) and Howrah *via* Allahabad and Patna. The runs of weekly Janata Expresses between Howrah/Varanasi and Hardwar were extended to Dehra Dun. The frequency of Janata trains running between Delhi and Ahmedabad was increased from tri-weekly to daily.

The facility of providing 3-tier sleeper coaches with equal number of berths and seats, in the Third Class, has been extended to the metre gauge on trains having runs of over 450 kilometers.

The amount set apart for amenities for staff in 1961-62 is Rs. 23·91 crores (New hospitals, dispensaries etc. Rs. 1·03 crores; New schools, additions to existing schools Rs. 18·69 lakhs; new institutes, rest houses, reading rooms etc., Rs. 18·19 lakhs; improvement of health and welfare works, maternity centres Rs. 19·59 lakhs; cooling arrangements for workshops etc. Rs. 9·73 lakhs; provision and improvement of sanitation, water supply etc. Rs. 65·89 lakhs; provision for officers' quarters Rs. 33·93 lakhs; improvements and alterations to existing quarters Rs. 51·79 lakhs; Quarters for Class III and Class IV staff Rs. 8·65 crores; other works Rs. 66·67 lakhs; medical expenses Rs. 4·17 crores; health and welfare services Rs. 3·84 crores; education Rs. 2·82 crores; canteen and other staff amenities Rs. 55·08 lakhs.

Third Five Year Plan

The tentative allocation for the Railways, Third Five Year Plan is Rs. 1,255 crores, including Rs. 35 crores for inventories. This is based on an increase in originating traffic from 154 million tons to 235 million tons, but does not include certain projects under consideration which were not originally indicated to the Railways. Of the anticipated increase in goods traffic during the Third Plan, more than 75 per cent is accounted for by the targets fixed for industrial production of coal, steel, cement, and iron ore. An increase in passenger traffic is provided for to the extent of 15 per cent only, as was provided in the Second Plan.

The Railways have been set the task of carrying an increase in traffic from 54,000 million ton miles to 93,000 million ton miles or about 39,000 million ton miles more annually, which is more than double the increase that was achieved in the Second Plan. The implementation of the Railways' Third Plan is expected to result in the acquiring of about 1,700 locomotives, 7,800 coaching vehicles and 1,10,000 wagons—including replacement requirements. Double tracking of about 1,600 miles is envisaged, also remodelling of yards, opening of new crossing stations, provision of additional loops, etc. There is also provision for centralised Traffic Control on the Siliguri-Amingaon section of the Northeast Frontier Railway. This system will be extended to other sections as conditions warrant.

Of the 1,100 miles expected to be electrified during the Third Plan, the sections carried over from the Second Plan will be assigned priority. Thereafter, electrification will be expanded to meet the increasing density of traffic on important routes. In the matter of construction of new lines, the Planning Commission have so far allotted Rs. 120 crores. This will provide for approximately 1,160 miles, representing lines essentially required either in connection with the Railways' operational needs or in connection with the development of industries and mineral resources. The latter include 200 miles for development of new coal fields and about 50 miles for a new line to serve the proposed port at Haldia.

REVIEW OF 1959-60

The main items are given in the table at the beginning of this article. Below we give some more points. The comparison whenever made is with figures for 1958-59:—

The Government Railways carried 8·96 million tons more of originating freight traffic and 93 million more passengers than in 1958-59.

The average passenger train miles per day had increased by 3,320 on the broad gauge and by 1,366 on the metre gauge in 1959-60.

The number of passengers originating as well as passenger miles in Government Railways increased from 1,422 to 1,515 million and from 42,203 to 46,066 million respectively.

The Government Railways did during the year 6·82 million more train miles (excluding departmental) or an increase of 3·17 per cent as compared with 1958-59.

Passenger train miles increased by 1·63 per cent. As compared to 1958-59, the percentage of trains not losing time to the total improved from 78·29 to 84·73 on the broad gauge and from 80·62 to 81·95 on the metre gauge.

Goods train mileage totalled 96·86 million, representing an increase of 5·23 per cent over 1958-59. The average freight load hauled by each train increased on the broad gauge by 8 tons from 613 to 621 and on the metre gauge by 9 tons from 274 to 283.

The number of wagons loaded on the broad gauge during 1959-60 was 5,90,637, an increase of 373,125 wagons or 6·75 per cent over 1958-59. On the metre gauge the figure was 3,484,423 or 5·45 per cent more than 1958-59. The mileage performed daily on an average by a wagon had increased from 45·6 to 47·6 miles on the broad gauge and from 28·8 to 30·3 miles on the metre

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gauge in 1959–60. The net ton miles per day also recorded increases from 573 to 593 on the broad gauge and from 211 to 230 on the metre gauge.

The average number of engines in use daily increased by 0·94 per cent on the broad gauge but decreased by 0·39 per cent on the metre gauge during 1959–60.

The percentage of engines under or awaiting repairs decreased from 15·3 to 14·9 on the broad gauge and from 15·3 to 14·4 on the metre gauge during 1959–60.

Net ton miles per locomotive daily in use showed increases on both the gauges, but those on line recorded increase on the metre gauge and decrease on the broad gauge as compared with 1958–59.

Engine user in terms of engine miles per day per engine on line, that is, inclusive of the time under repairs, etc., has registered a slight increase from 84 to 85 on the broad gauge, but there was no change on the metre gauge.

Second Five Year Plan: The Government Railways carried 8·96 million tons more of originating freight traffic and 93 million more passengers than in 1958–59.

Self-Sufficiency: The year saw yet another step toward self-sufficiency in rolling stock. At the Chittaranjan Locomotive works, the production was 164 W.G. locomotives and 9 W.T. locomotives making a total of 1,006 locomotives since the commencement of production in November 1950.

The production of coaches at the Integral Coach Factory, Perambur, was 448 making a total of 1,150 coaches since the beginning of production in October 1955.

The number of rolling stock received during the year was: Locomotives 320; coaching stock (in units) 1,769; wagons (4 wheelers) 9,917. The targets fixed for the Plan and the total number of stock received upto 1959–60 respectively were: Locomotives (2,161; 1,813); coaching stock (in units) (8,708; 6,091); wagons (4 wheelers) (111,739; 85,529).

Track renewals: A total of 910 miles of rails and 975 miles of sleepers were removed on the broad gauge and 956 miles of rails and 944 miles of sleepers were renewed on the metre gauge, thus making a total of 2,767 miles of rails and 2,864 miles of sleepers renewals on the broad gauge and 2,179 miles of rails and 2,760 miles of sleepers renewals on metre gauge since the beginning of the Second Plan.

New bridges: (*a*) Brahmaputra Bridge: The construction work of this bridge costing Rs. 9·88 crores across the Brahmaputra river between Amingaon and Pandu in Assam was progressing well. Seven main piers and the shore pier at the Amingaon end were completed. The fabrication of well curbs and strokes for the remaining four main piers was almost complete.

(*b*) Gandak Bridge: The overall progress on the new Gandak Bridge for double metre gauge tracks, estimated to cost about Rs. 1·93 crores, was 77 per cent.

Electrification: The Howrah-Burdwan and the Sheoraphuli–Tarakeshwar sections had been completed. Work was in full swing on the other sections. It was expected that all the major works in connection with the electrification of these sections would be completed by the end of the Plan. 314 stations were electrified during the year. 779 stations were electrified in the first four years of the Plan. About 380 more were expected to be electrified during 1960–61.

New lines: 164·90 miles of new lines were opened to traffic during 1959–60. Since the commencement of the Plan 620·01 miles of new lines have been opened to traffic upto 31st March 1960. Work was in progress on another 749·54 miles of new lines.

Foreign Aid: The World Bank gave a loan of $50 million (Rs. 23·81 crores) which became effective from 17th September 1959. The loan covered payments for locomotives, coaches, and wagons with their parts. Upto March 31, 1960 a sum of Rs. 6·68 crores was withdrawn and the balance was to be withdrawn by June 30, 1960.

Two loans amounting to $40 million (Rs. 19·04 crores) and $35 million (Rs. 16·66 crores) were sanctioned by the U.S.A. Development Loan Fund for the modernisation and expansion of the Indian Railway System.

During the year spares for diesel rail cars worth £(A)23,821 (Rs. 2·54 lakhs) from Australia and wooden sleepers valued Canadian $3·9 million (Rs. 18·57 lakhs) from Canada were received under the Colombo Plan. Bearing plate bars and trough bars worth $6·4 million (Rs. 304·76 lakhs) were also received under T.C.M. Aid of U.S.A.

Passenger Amenities: It was decided to provide sleeping accommodation to those travelling more than 500 miles free of additional cost. A new design of sleeper coach with equal seating and sleeping capacity, namely 75 in the broad gauge and 64 in the metre gauge was evolved. This facility was introduced on Delhi-Bombay Central Janata Express (daily) and Madras-Howrah mails (daily) on the broad gauge and on Delhi-Ahmedabad express (bi-weekly) and Poona-Bangalore mails (bi-weekly) on the metre gauge. The facilities of holiday camping coach was extended to Udaipur station on the Western Railway from April 1959 thus increasing the number of stations where such coaches were available to ten.

The scheme of setting apart of accommodation for third class passengers by distance zones continued to be tried by the various railways on six pairs of trains.

Departmental catering now functions at 104 stations and 20 dining cars.

Passenger train mileage has increased from 105 million in 1951–52 to 125 million in 1959–60. During the Second Five Year Plan additional passenger transport capacity of 23 per cent has been provided on the metre gauge against 10 per cent on the broad gauge. Census of occupation of trains in third class (non-suburban trains) is being taken on all railways to ascertain the extent of overcrowding on different trains and over different sections. The position in 1959 as compared to 1955 showed that overcrowding on the metre gauge had dropped from 30 per cent to 16 per cent and on the broad gauge from 16 per cent to 13 per cent.

During 1959–60, 852 broad gauge, 387 metre gauge and 48 narrow gauge lower class coaches of indigenous manufacture were placed in service.

Staff Benefits: The relations between the Railway Administration and labour were generally cordial. The permanent negotiating machinery continued to function. During the year 350 joint committees of management and staff at unit and higher levels were set up on all railways.

About 11,200 staff quarters were constructed for all classes of staff making a total of 47,000 since the commencement of the Second Plan against the Plan target of 54,000.

Four new hospitals, 30 new health units/dispensaries and 4 additional mobile dispensaries were provided. Four health units were extended as hospitals. 760 additional beds were provided in hospitals and health units/dispensaries.

The number of cooperative credit societies functioning at the end of the year was 25 and that of consumer societies was 159. The total working capital of the 25 credit societies amounted to Rs. 26 crores on March 31, 1960. The turnover of consuming societies in 1959–60 was Rs. 160 lakhs. Besides, 12 new consumer societies had been registered. The three cooperative housing societies of railwaymen increased their membership to 482 with a paid-up share capital of Rs. 71,500.

In addition to the existing 161 schools, 481 new single teacher primary schools were opened. Besides carrying forward 1,210 scholarships from the preceding year, 984 new scholarships were awarded involving a total expenditure of Rs. 7,23,644.

Two holiday homes for class III and class IV staff one at Mussorie and the other at Pahalgam (Kashmir) were opened. 22 children camps were also organised.

Appointments: During 1959–60, 109 appointments both permanent and temporary were made in the gazetted cadre by direct recruitment, while 21 promotions were made from class II service to the superior services.

The Railway Service Commission selected 13,048 candidates for appointment in class III categories on the railways.

During the year 283 officers received training in the Railway Staff College at Baroda. In addition, 13 officers attended a refresher course, and 15 officers nominated for training in foreign countries were briefed at the college.

Complaints: The complaints organization in the railways continued to function. There were 5,236 complaints pending at the beginning of the year and 44,295 complaints were received during the year. Out of a total of 49,531 complaints, 44,494 were fully disposed of during the year.

The average time taken in disposing of a complaint where confronted enquiry was arranged, dropped from 77·2 days in 1958–59 to 67·7 days in 1959–60 and in other cases it dropped from 33·8 days to 32·9 days.

Commercial Advertising: The income from this source rose from Rs. 16,19,418 in 1958–59 to Rs. 20,52,465 in 1959–60, an increase of 26·7 per cent.

Crime: The first figure shows the number of cases reported, the second the value of property involved in rupees and the third value of property recovered. The figures in brackets are for the previous year:—

Running train thefts: 1,351 (1,746); 9,04,488 (9,88,153); 2,80,086 (3,00,895); yard thefts: 899 (1,046); 4,00,243 (3,90,185); 1,38,312 (1,25,687); pilferages: 2,149 (3,443); 12,91,750 (11,24,068); 35,336 (21,702); theft of railway property from workshops and stores: 802 (842); 2,29,028 (1,28,110); 80,353 (32,863); theft and damages to carriages and electrical fittings: 68,471 (87,822); 25,55,635 (24,60,679); 2,13,882 (1,68,096); theft of cash in transit, embezzlement or misappropriation: 58 (51); 68,975 (4,16,646); 12,450 (2,62,773).

Vigilance Organization had 25 officers, 81 inspectors, 40 assistant inspectors and 144 other ranks.

The Central Investigating Agency dealt with 376 cases during the year. At the beginning of the year, 2,762 cases were pending on the railways and 3,547 were registered during the year, making a total of 6,309 cases for disposal. In all 2,113 cases were dropped during the course of investigations as the allegation's were found to be incorrect. Departmental action was finalised in 1,598 cases and at the end of the year, 2,598 cases remained pending.

The nature of the punishment was as follows: The first figure is for gazetted officers and the second for non-gazetted:—Dismissals: none and 40; Removal: 4 and 160; Compulsory retirement: none and 5; Reduction: 2 and 101; Stoppage of increment, passes, etc.: 1 and 580; Other punishments 10 and 389.

During 1959-60 three private firms were blacklisted for committing various irregularities.

Ticketless travel: Number of ticketless travellers were 6,837,107 against 6,308,255 during 1958–59. Amount of fare and excess charges realised was Rs. 1,80,99,813 against Rs. 1,43,24,686 in 1958–59. Number of passengers who paid the fare and excess charge on demand was 6,522,151. Number of passengers prosecuted 284,944. Number of mendicants ejected but not prosecuted 937,344.

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Some of the special measures taken against ticketless travel were: Special and surprise checks by flying squads of ticket checking staff, travelling ticket examiners in plain clothes, and officers of the traffic and other departments, special magistrates for summary trial. Use of audio-visual methods such as loudspeakers, posters, handbills and films, etc. to enlist public cooperation in eradicating the evil.

A sum of Rs. 3·8 lakhs was realised on account of ticketless travel and unbooked luggage and Rs. 0·5 lakh on account of demurrage, wharfage and misdeclaration of goods.

There were 53,334 cases of alarm chain pulling as against 54,233 in 1958–59. The percentage of unauthorized cases of alarm chain pulling was 82 as against 85 during the previous year. Out of 43,498 cases of unauthorized alarm chain pulling, only 853 persons were apprehended.

The revised sections of the Indian Railways Act increasing the penalty for improper use of alarm chains from a fine of Rs. 50 to imprisonment upto three months or a fine upto Rs. 250 or both and making the offence a cognizable one came into force from May 2, 1959.

Claims: During the year 445,208 claims were settled by the Indian Government railways as against 462,579 during 1958–59. 37,862 cases were pending at the end of the year as against 44,084 at the end of 1958–59. The net amount paid by the railways on account of goods or parcels lost or damaged during the year was Rs. 3·74 crores as against Rs. 3·13 crores in 1958–59.

The average time taken in the settlement of a claim was 52 days as in 1958–59. The number of new claims received and those reopened was 438,986 as against 464,071 in 1958–59. The number of suits filed and remaining outstanding at the close of the year 1959–60 were 39,980 and 16,975 respectively as against 43,376 and 20,189 in 1958–59.

Miscellaneous: The recommendation of the Estimates Committee of the Lok Sabha to the effect that a non-official may be associated with Standing Screening Committees (Inventions and Suggestions) functioning at the headquarters of the railway administrations, was accepted by the Railway Board and instructions were issued that a professor of mechanical/electrical engineering of a local engineering college, may be associated with the screening committees at its monthly meetings. Some useful suggestions from railway servants were received during the year. Out of a total of 852 suggestions/inventions received, 79 were accepted for implementation. The total cash rewards given for accepted suggestions/inventions amounted to Rs. 6,541. In certain cases, letters of commendation/appreciation were issued to the employees concerned.

During the year 15 employees (officers and technical staff) were deputed for technical training outside India.

A training directorate was set up with a view to placing training of railwaymen including physical and weapon training on a sound footing.

Value of stores and equipment purchases was Rs. 197 crores as against Rs. 254 crores in 1958–59. Purchase for cottage and small industries Rs. 1·73 crores as against Rs. 2·15 crores in 1958–59. Value of khadi Rs. 68·23 lakhs against Rs. 66·58 lakhs in 1958–59.

The broad-metre gauge schedule of dimensions in metric units was finalised and the conversion of schedule of dimensions for 2'-6" gauge taken in hand. Conversion of existing standard drawings into metric units was just started. On the mechanical side, over 900 part drawings for locomotive components were prepared in metric dimensions and issued, so also the drawings for making of wagons and calibration of locomotive tenders in metric units.

The standardization of technical railway terminology in Hindi made further progress. The pamphlet on traffic terms was published and circulated to the railways. A preliminary examination of railway terms pertaining to civil and mechanical engineering was completed. A tentative Hindi translation of the Manual of Railway Pension Rules, 1950, the Accounts Code Volume I and II, Establishment Code Volume I etc., was completed. The budget documents and other official reports presented to the Parliament at the time of the Railway Budget continued to be brought out in Hindi and English. 13 such reports were published in Hindi and English. Over 3,000 railway employees were undergoing Hindi training towards the end of 1959–60. At the Hindi examinations conducted by the Railway Ministry, 937 candidates were declared successful in the June examination and 1,132 in the December examination. A sum of Rs. 9,600 was given in prizes under the scheme of cash awards. 35 signallers were trained in Hindi telegraphy at the Northern Training School at Chandausi.

SECOND FIVE-YEAR PLAN

(Rs. in Crores)

Head	Plan	1958–59 Actuals	1959–60 Actuals	Total expenditure for 4 years 1956–60
Rolling stock (excluding stock provided as part of electrification projects) ..	380	75·10	57·20	310·43
Workshops (excluding those provided as electrification projects) ..	65	7·09	6·53	21·79
Plant and Machinery		3·54	2·73	14·53
Track Renewals	100	50·07	43·73	146·87
Bridge works	24	6·09	7·76	17·80
Ganga Bridge	9	2·45	0·16	7·32
Traffic facilities	186	45·79	40·30	131·98
Signalling and Interlocking Works ..	25	3·79	4·41	11·86
Electrification	80	6·49	10·94	35·29
Staff quarters and welfare	50	9·33	9·06	37·55
Passenger amenities	15	2·72	2·37	12·24
New lines and restorations	66	13·22	16·59	52·25
Other Structural Works	21·5	7·24	5·76	26·76
Investment in road services	10	0·75	1·17	3·83
Total (Includes other items)	1125·5	245·17	179·76	855·35

ROADS

IT is estimated that India in 1914 had 169,000 miles of roads. Against this, the mileage in April 1959 was 393,165 made up of 139,106 miles of metalled roads and 254,059 miles of unmetalled roads.

ROAD FUND

The first all-India move for road development came in 1928 when the Road Development Committee presided over by the late M. R. Jayakar recommended the creation of a Road Development Fund out of a two-anna share per gallon of the proceeds of the import and excise duties on motor spirit, whose unexpended balances should not lapse at the end of the financial year. The share was later raised to two and a half annas per gallon.

Upto the end of March 1958 total receipts in the Central Road Fund since its inception were about Rs. 65·87 crores and those in the Central Road Fund Reserve since its inception were about Rs. 13 crores.

In the beginning of 1959 the annual revenue accruing to the Fund amounted to roughly Rs. 5¼ crores including credits to the Special Reserve of about Rs. 1 crore per annum. For the first 15 years after its inauguration, the Central Road Fund was the main source of revenue for the construction of new roads or the improvement and modernisation of existing ones. However in 1959-60 this Fund represented hardly 4 per cent of the total tax revenue from motor transport, 10 per cent of the total expenditure on original road works provided for in the Second Five Year Plan and 6 per cent of the gross expenditure on roads inclusive of the maintenance cost of the road system.

On the administrative side roads except for the small mileage of National Highways described later are a State subject and may be divided into two main classes, State Roads under the Public Works Department and Local Roads in charge of local bodies.

NAGPUR PLAN

In December 1943 the Chief Engineers of the various States met in conference at Nagpur and evolved a road plan based on the minimum needs of the country. Adopting as their objective the very modest proposition that no village in a well-developed agricultural area should remain more than 5 miles from a metalled road, the Chief Engineers recommended the increase of Indian Union's road mileage from 220,000 to 331,000 of which 123,000 miles would be metalled.

The net increase in road mileage under this Plan, now known as the Nagpur Plan works out at 50 per cent

Five-year programmes for commencement from April 1947 and representing varying proportions of the Nagpur scheme were prepared by the States for their respective areas as part of their post-war reconstruction programmes.

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These programmes, exclusive of National Highways were estimated to cost nearly Rs. 120 crores over a five-year period, and were intended to embrace the construction or improvement of 80,000 miles of roads.

Progress in the implementation of this post-war reconstruction Plan was however most disappointing.

During the eight years ending March 1951, India's road mileage increased by just 28,500 miles or roughly 13 per cent. Thus at the beginning of the First Five Year Plan, India had 249,000 miles of roads, of which 98,000 miles were metalled and the remaining 151,000 miles unmetalled.

FIVE YEAR PLANS

At the beginning of the Five Year Plan, the mileages remaining to be constructed, in order to reach the targets of the Nagpur Road Plan, were 25,454 miles of metalled roads and 57,037 miles unmetalled roads, making a total of 82,491 miles in all.

A provision of Rs. 156 crores was made for road development during the First Five Year Plan period ending March 1956. Physical achievements during the 5-year period consist of 24,071 miles of new metalled roads, and 44,088 miles of new unmetalled roads, making 68,159 miles of new roads in all. In addition 17,311 miles of existing roads were also improved to better standards. Of the new roads, 23,900 miles were constructed by Public Works Departments or Local Boards, while 44,259 miles were constructed by Community Project and N.E.S. Administrations.

The provision for road development in the Second Five Year Plan was Rs. 244 crores, against Rs. 156 crores in the First Plan. Details are as under :—

(Rs. in Crores)

	2nd 5-Year Plan April 1956 to March 1961	1st 5-Year Plan April 1951 to March 1956
National Highways ..	45	27·00
State Roads financed by the Union Government	7	4·24
Central Aid for roads of inter-State or economic importance ..	16	10·00
State Roads	151	89·75
Central Road Fund ..	25	25·00
Total ..	244	155·99

During the Second Plan it was expected that 22,000 miles of metalled roads and 67,000 miles of unmetalled roads would be added to the road system, thereby exceeding the Nagpur Plan in terms of total mileages, taking India as a whole; but the actual position will be that the length of district and village roads will be slightly larger than the minimum size laid down in the Nagpur Plan while the arterial roads comprising National Highways and State Highways will be short of the Nagpur targets. Moreover at the end of the Second Plan there will be hundreds of unbridged river crossings whose number, on National Highways alone, will be 80. Again 25 per cent of the road system representing village roads constructed in the community development and N.E.S. blocks will be sub-standard roads and very often mere tracks with no arrangement for their annual maintenance or repairs.

Extra-Municipal Road Mileage

Year ending March	Surfaced Roads	Unmetalled Roads	Total
1956 ..	122,000	198,000	320,500
1957 ..	127,000	201,000	328,000
1958 ..	137,074	219,138	356,212
1959	139,106	254,059	393,165
1961 ..	144,000	250,000	379,000

Nagpur Plan Targets of 1943

(In miles)

	Nagpur Plan targets	Anticipated actuals by 1960-61
National Highways ..	20,000	14,880
State Highways ..	53,000	35,000
Major District Roads	50,000	95,200
Other District Roads	70,000	78,300
Village Roads ..	138,000	186,520
Total	331,000	409,900

The road mileage in the country compares very poorly with that of other countries in relation to the area of the land and its population. Over 60 per cent of India's mileage is unmetalled and unsuited for all-weather traffic.

NATIONAL HIGHWAYS†

The Central Government, as part of their contribution towards post-war development accepted liability for the construction and maintenance of the National Highways with effect from 1st April 1947.

On 1st April, 1947 the total length of the roads provisionally accepted as national highways was 13,400 miles. Consequent on partition and the integration of the former princely States with the Indian Union the total length of these roads increased to about 13,800 miles. On the 1st of April 1947 the selected national highway routes had approximately 1,600 miles of missing road links and thousands of missing culverts and bridges out of which about 150 were bridges on large rivers. In addition, about 9,000 miles of these roads had low-grade surface.

During the 5 years ending March 1956, 636 miles of missing links and a large number of culverts and bridges including 30 major bridges were constructed, about 4,000 miles of existing sections improved and provided with one lane asphalted carriageway, and about 400 miles of the improved sections made fit for two-lane traffic.

National Highways include the following roads:—1. The Grand Trunk Road from Calcutta to Amritsar *via* Benaras, Kanpur, Agra and Delhi; 2. The Agra-Bombay Road; 3. The Bombay-Bangalore-Madras Road; 4. The Madras-Calcutta Road; 5. The Calcutta-Nagpur-Bombay Road; 6. The Benaras-Nagpur-Hyderabad-Bangalore-Cape Comorin Road; 7. The Delhi-Ahmedabad-Bombay Road; 8. The Road from Ambala to Kandla with a branch Road to Porbander; 9. The Hindustan-Tibet Road from Ambala to Tibet border *via* Simla; 10. The Delhi-Lucknow-Gorakhpur-Muzzafarpur Road with a branch road to Nepal border; 11. The Assam Access Road; 12. The Assam Trunk Road on the South Bank of the Brahmaputra; 13. The road branching off from the Assam Trunk Road towards the Burma border through the State of Manipur.

Targets fixed for the development of National Highways during the Second Five Year Plan from April 1956 to March 1961, and the progress achieved during the four years ending March 1960 are as follows :—

	Targets for 5 years ending 31st March 1961.	Work done during 4 years ending 31st March 1960.
Construction of missing links, Miles ..	700	590
Construction of major bridges, Numbers ..	40	34
Improvements to existing lengths, Miles	3,500	2,925
Widening of roads to two-lane carriageways, Miles ..	1,200	775

In March 1960, the following was the position of the National Highway system: Length with one-lane asphalt or cement-concrete carriageway 11,300 miles; Length with 2-lane asphalt or cement-concrete carriageway 2,180 miles; Water bound macadam or other low grade surface 1,000 miles; Length of missing links 400 miles. Total 14,880 miles; Number of major bridges to be constructed 80.

It is expected that by the end of the Third Five Year Plan in 1966 the National Highway System will be fully black topped, but there will be 33 major unbridged river crossings.

Some of the important works completed on national highways so far are the Barakar and Poon bridges and the rail-road bridge over the Ganga near Mokameh in Bihar, the Kathjuri and Kuakhai bridges in Orissa, the Mahi bridge in Bombay, the Pennar and Champavati bridges in Andhra Pradesh, Pugalur and Palar bridges in Madras, Beyne and Ghagger bridges in the Punjab, Gheesh and Leesh bridges in West Bengal, Bygool, Bhakra and Betwa bridges in U.P. and the Chambal bridge near Dholpur in Madhya Pradesh.

Among the important works now in progress is the bridge over the Gautami-Godavari in Andhra estimated to cost over Rs. 1 crore. It is one of the biggest prestressed concrete bridges under construction in India at present, with 48 spans of 160 ft., foundations going 100 ft. below the bed level. Other important works in hand include the construction of a motorable road from Narkanda to Chini on the Hindustan-Tibet Highway, an all-weather road from Bombay to Ahmedabad, Express Highways from Bombay to Thana and Borivli, a bridge at Gurhmukteshwar in U.P., by-passes for the benefit of through traffic at Willingdon (Calcutta), Ahmedabad, Ludhiana, Mathura, Kurnool and Madurai; and the Jawhar tunnel on the road to Srinagar. The Jawhar tunnel, estimated to cost nearly Rs. 6 crores is intended to provide all weather communication facilities between the Kashmir valley and the rest of the country. The western tube of the tunnel was thrown open to traffic in December 1958 while work on the eastern tube is to be completed in 1961.

The west coast national highway is expected to be completed by the end of the 3rd Plan. Against the total estimated cost of Rs. 11·64 crores an expenditure of Rs. 253·39 lakhs was incurred up to end of 1959-60.

The National Highways are distributed over the length and breadth of the country on a fairly uniform basis. The actual National Highway mileages in the various States in 1959 were as follows :—

States: Andhra Pradesh 1,412; Assam 796; Bihar 1,122; Bombay* 2,192; Madhya Pradesh 1,404; Madras 1,050; Orissa 851; Punjab 795; Uttar Pradesh 1,423; West Bengal 788; Jammu and Kashmir 328; Mysore 536; Rajasthan 450; Kerala 260.

* Bilingual. † India will receive a 50-year interest-free loan of $60 million (Rs. 29 crores) for highway development under an agreement signed with the I.D.A. on June 21, 1961.

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Union Territories: Delhi 44; Himachal Pradesh 222; Manipur 98. Total mileage: 13,810.

NEW ROAD PLAN

Now that the Nagpur Roads Plan of 1943 has been completed in some respects, a new assessment of India's needs for the next 20 years has been undertaken by the Chief Engineers at the instance of the Government of India and a new Road Plan has been prepared for execution during the 20-year period from 1961 to 1981.

The broad outline of the plan is to raise the mileage of roads from 4·10 lakhs in 1961 to 6·57 lakhs by 1981 with provision for two lane carriage-ways on National Highways. The Plan aims at increasing the intensity of roads from 0·32 to 0·52 per square mile of territory. When the plan is completed the average distance from a village in an agricultural area to a metalled road will be reduced from five to three miles and the distance to an unmetalled road will be reduced from two to 1½ miles.

There is also a provision to have 1,000 miles of Expressways with limited access and also grade separation at most of the crossings.

The cost of this scheme is estimated at Rs. 5,200 crores and it is recommended should be split up between four 5-year periods as under :—

1961-62 to 1965-66	Rs. 590 crores
1966-67 to 1970-71	Rs. 1,075 ,,
1971-72 to 1975-76	Rs. 1,545 ,,
1976-77 to 1980-81	Rs. 2,000 ,,

Statement showing how the allotments in the scheme are made—for highways, District Roads and Village Roads.

	Mileage		Cost in Rs. crores (improvement and new construction)
	As expected on 1-4-1961	Targets proposed in the Plan	
National Highways	14,880	32,000	980
State Highways	35,000	70,000	1,580
Major District Roads	95,200	150,000	1,360
Other District Roads	78,300	180,000	650
Villages Roads (Classified)	186,520	225,000	630
Total	409,900	657,000	5,200

A sum of Rs. 325 crores would be spent for the development of roads in the country during the 3rd Plan period out of Rs. 590 crores suggested by the Chief Engineers. Consequently India's progress towards an adequate road system for the country will now be very slow.

MILEAGE OF EXTRA-MUNICIPAL ROADS MAINTAINED BY THE P.W.D. AND LOCAL BODIES IN INDIA AS ON 31st MARCH 1959.

(Including roads built by Community Projects & N.E.S.).

States and Union Territories	Surfaced				Unsurfaced (Not Motorable)	Total
	Black Top	Cement Concrete	Water-bound macadam	Total (surfaced)		
Andhra Pradesh	4,045	179	12,953	17,177	13,512	30,689
Assam	1,326	1	388	1,715	15,871	17,586
Bihar	4,799	12	2,333	7,144	34,047	41,186
Bombay*	4,819	1,132	15,331	21,282	22,016	43,298
Madhya Pradesh	1,730	28	10,712	12,470	11,524	23,994
Madras	6,026	294	11,348	17,668	10,912	28,580
Orissa	1,063	18	3,195	4,276	14,224	18,500
Punjab	4,760	3	912	5,675	14,172	19,847
Uttar Pradesh	5,160	713	6,906	12,779	41,852	54,631
West Bengal	3,872	167	2,455	6,494	20,112	26,606
Jammu & Kashmir	580	..	355	935	4,466	5,401
Mysore	3,451	340	12,884	16,675	19,364	36,039
Rajasthan	3,497	27	4,521	8,045	21,029	29,074
Kerala	1,578	84	3,076	5,638	5,942	11,580
Union Territories	705	5	423	1,133	5,021	6,154
Total	47,411	3,003	88,692	139,106	254,059	393,165

* Bilingual.

REVENUE FROM MOTOR TRANSPORT

In 1959-60 the expenditure on roads, it is estimated, amounted to Rs. 84·70 crores made up of Rs. 53·55 crores on construction works and Rs. 31·15 crores on road maintenance. The Governments at the Centre and in the States realized in the year an amount of Rs. 134·54 crores from motor transport, as under :—

	Revenue, approx. 1959-60 (Rs. in Crores)
Central Revenues.	
Motor Spirit and Diesel Oil Duties Tyre Excise and Import Duties Vehicle Parts Imports Duties	87·60
State Revenue.	
Vehicle Taxes and Petrol Sales Taxes, etc.	46·94
	134·54

MOTOR VEHICLES

The number of motor vehicles in use in India in March 1959 was 547,189. In terms of the population of the country, this represents 125 vehicles per lakh of inhabitants.

The 547,189 vehicles operating in India in March 1959 were distributed among the various States as shown in the table on next page. The growth of motor vehicles in India in the past four years is about 44 per cent, the total number having increased from 3·76 lakhs in March 1955 to 5·47 lakhs in March 1959.

An estimate of the number of bullock carts and bicycles in the country puts the figures at 10 million and 4 million respectively (Nov. 1959).

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NUMBER OF MOTOR VEHICLES ON THE ROAD IN INDIA ON 31st MARCH 1959.

Name of State	Motor Cycles	Auto-Rick-shaws	Jeeps	Private Motor Cars	Motor Cabs	Other Public Service Vehicles	Goods Vehicles	Miscella-neous Vehicles	Total
Andhra Pradesh	4,743	73	1,862	12,193	375	3,475	9,101	4,311	36,133
Assam	897	8	1,601	7,080	330	1,180	7,628	5,172	23,896
Bihar*	2,610‡	N.A.		9,136†	568	1,695	7,193	771	21,973
Bombay††	14,294	1,262	2,731	54,913	5,258	7,956	32,682	5,846	124,942
Kerala	1,067	164	674	6,026	..	741	3,709	2,744	15,125
Madhya Pradesh	3,106	104	2,715	10,359	187	3,088	11,016	2,535	33,110
Madras	5,376	455	571	21,564	1,387	4,665	8,610	1,054	43,682
Mysore	2,072	218	492	6,889	449	1,140	7,203	997	19,460
Orissa	922	1	1,518	2,268	21	650	3,831	332	9,543
Punjab	3,203	81	798	4,200	156	2,995	5,149	3,282	19,864
Rajasthan	2,131	3	..	9,003	196	4,313	6,512	3,163	25,321
Uttar Pradesh	5,303	30	2,552	14,000	379	5,843	12,568	1,193	41,868
West Bengal	7,695	..	4,445	50,492	3,962	3,670†	23,553	4,463	98,280
Jammu and Kashmir	126	..	198	696	109	640	1,974	15	3,758
Himachal Pradesh	38	..	78	111	27	74	194	2	524
Delhi	7,822	2,050	..	11,603	1,660	1,000	3,404	..	27,539
Manipur	41	..	148	40	3	32	488	88	840
Tripura	21	..	254	106	30	176	411	99	1,097
Andaman and Nicobar Islands	27	..	25	19	11	5	90	57	234
All India	61,494	4,449	20,662	220,698	15,108	43,338	145,316	36,124	547,189

Figures for Mysore, West Bengal, Jammu and Kashmir and Manipur are for 1958. * Taxed vehicles only. † Including Jeeps.
‡ Including Auto-rickshaws. †† Bilingual.

NATIONALISED TRANSPORT

Programmes for nationalisation of road transport have occupied a prominent place in the plans of State Governments from 1946 onwards. In April 1951 nationalised bus services had a total fleet of about 8,000 vehicles. By the end of the First Five Year Plan, *i.e.*, in March 1956, the total number of such vehicles increased to approximately 11,000 representing about 27 per cent of the passenger services in the country and 2 per cent of freight transport.

Nationalised bus services are estimated to cover in 1960 almost the whole of Maharashtra, Mysore and Himachal Pradesh.

No nationalisation has taken place in Tripura but in the remaining parts of the country the extent to which services have been nationalised varies from one State to another, some having started only experimental nationalisation while in others anything up to half of the bus services are under State ownership.

Uttar Pradesh, which, next to Maharashtra, has the largest nationalised fleet, operates buses on half the mileage of metalled roads of the State, spread over, more or less uniformly, from one end of the State to the other. Nationalised buses in U.P. represent a little over one-third of the total number of buses in operation. Next in importance is the area covered by the old Hyderabad State where roughly half the bus routes were operated by the nationalised services. In Travancore-Cochin, now part of Kerala, arterial routes covering a mileage of 700, out of 4,500 miles of motorable roads in Travancore and Cochin were operated by State buses. In Madras, nationalisation was confined to the limits of Madras City during the First Plan period; but in the last two years a few long distance routes have also been taken over by the State. Likewise West Bengal has nationalised transport in and around the city of Calcutta in addition to the Cooch Behar area. In Bihar, State services operate in areas around Patna, Jamshedpur, Gaya, Ranchi, Monghyr and Bhagalpur. In Orissa they are operated around Puri, Bhubaneshwar, Balasore, Berhampur and Koraput. Similarly in Punjab, Jullundur, Ambala and Amritsar are centres of nationalised services. In addition to the City of Delhi nationalisation has also taken place in parts of Assam, Madhya Pradesh and Rajasthan.

Freight transport is operated by certain State Transport organisations such as those in Assam, Maharashtra, Uttar Pradesh, Jammu & Kashmir and Himachal Pradesh. While these freight lorries as a rule operate on charter basis or on scheduled parcel services without monopoly, the State Transport in Assam has a monopoly of the truck traffic on 68 miles of roads and the entire goods traffic in Himachal Pradesh is a State monopoly.

Expansion of nationalisation during the Third Plan commencing April 1961 will be confined as in the Second Plan to passenger services. The allocations in the Second Plan were expected to increase the number of nationalised vehicles from 11,000 to 16,000. The Third Plan similarly envisages the addition of 5,000 vehicles so as to increase the nationalised fleet to 21,000 by March 1966.

TRANSPORT BODIES

The department in the Central Government which deals with the overall direction of the roads plan and co-ordination of State planning is the Roads Wing under the Ministry of Transport and Communications. The chief official is the Consulting Engineer (Road Development) who is also Joint Secretary to the Ministry of Transport and Communications.

The Roads Wing gives technical advice and arranges for the allocation of Central Road Fund reserves among the States.

An inter-State Transport Commission has been set up to develop, co-ordinate and regulate operation of motor vehicles in areas or routes common to two or more States. The present Chairman of the Commission is Mr. T. G. N. Ayyar, I.C.S.

For proper and planned development of transport as a whole and to ensure co-ordination between the various modes of transport on the one hand and the Central and State transport policies on the other, Government of India in 1958 set up three transport bodies. They are the *Transport Development Council, the Road and Inland Water Transport Advisory Committee, and the Central Transport Co-ordination Committee.* These replaced the Transport Advisory Council constituted in 1935, the Central Board of Transport and the Standing Committee of the Central Board of Transport.

The Transport Development Council is a high-level body to advise the Government of India on all matters of policy relating to roads, road transport as well as inland water transport. The Council will also advise on problems relating to co-ordination between different forms of transport that may be referred to it by the Government of India.

The membership of this Council is restricted to Transport Ministers of the States and Lt. Governor and Chief Commissioners of the Union Territories. From the Centre, the Ministers of Transport and Communications, Commerce and Industry and Railways, Minister of State in the Ministry of Transport and Communications, Deputy Minister of Transport and Communications and member in charge of transport in the Planning Commission are its members.

The Union Minister of Transport and Communications is the chairman of the Council and the Transport Secretary to the Government of India its Secretary. The Council will meet at least once a year.

The Road and Inland Water Transport Advisory Committee has been set up to discuss problems relating to roads, road transport and inland water transport and to make recommendations to the Transport Development Council for final decisions. The Committee consists of official and non-official members and the Minister of State in the Ministry of Transport and Communications is its chairman.

The Central Transport Co-ordination Committee has been constituted in the place of the Standing Committee of the Central Board of Transport and deals with the day-to-day transport problems confronting the different ministries of the Government of India. The Transport Secretary to the Government of India is the chairman of this Committee.

The Government of India has also prepared a pilot scheme for setting up transport co-operative societies. To begin with, two such societies have been set up one each in Delhi and Kerala. Other States in which such societies are to be formed are West Bengal, Orissa and Madras.

The objective of the scheme is twofold; to bring more vehicles on the road; and to find employment for the educated unemployed.

The co-operative societies will be under the control of the State Government. Financial assistance by way of loans will be granted to the societies by the Government of India. The cost of training of the members of the co-operative societies would also be borne by the Central Government.

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The membership of the co-operative societies will be restricted to workers, like drivers, mechanics, booking clerks, depot managers, etc.

On the basis of five persons to man one vehicle, each co-operative society will have 50 members. Each member will be required to contribute Rs. 1,000 towards the capital of the society.

Road Transport Reorganisation Committee

The Government of India in 1958 appointed a Road Transport Reorganisation Committee under the chairmanship of Mr. M. R. Masani, M.P. to recommend changes in the machinery of transport administration in the States so that road transport might be developed to meet the demands created by the country's plans of economic development.

The Masani Committee has recommended a series of measures to overcome the inhibitory factors which have hitherto retarded road transport in India, the upgrading of weight limits for vehicles on roads, the encouragement of truck-trailer combination, the grant of all-State validity to public carrier permits at the option of the applicants, liberal issue of permits for intra-state and inter-state operation, the appointment of full-fledged Transport Ministries and full-time Transport Commissioners in all States, the creation of Development Wings in the Transport Commissioners' offices, etc., etc.

The Railways have expressed concern at the prospect of long distance road transport being enabled to compete with them and a Committee to formulate an Inland Transport Policy has since been appointed by the Government of India under the chairmanship of Mr. K. C. Neogy.

OVERSEAS COMMUNICATIONS SERVICE

Allotment under the IInd Five-Year Plan: Rs. 2 crores. IIIrd Plan, including Ind. Met. Deptt. and Wireless Planning & Coordination: Rs. 5 crores (Provisional).

O.C.S. is a State activity working directly under the Ministry of Transport and Communications on commercial lines, with the Head Office at Bombay. Functions: Provision, operation and development of all facilities for telecommunications between India and outside world.

The chief administrative head is the Director General, Overseas Communications Service.

The Service has two main branches, *viz.* Traffic and Engineering. The Traffic branch is under the control of the Dy. Director General (Traffic) and the engineering branch is under the control of the Chief Engineer.

The Overseas Communications Service has four gateway centres for handling international communications. The Bombay Centre has its transmitting station at Dighi near Poona, receiving station at Dhond and the Central Traffic Office at Bombay. The transmitting and receiving stations as well as the Central Traffic Office are interlinked by VFT systems on land-line carrier channels.

Calcutta centre has its transmitting and receiving stations at Halishahar and Hatikanda about 30 and 36 miles respectively from the main Traffic Office at Dalhousie Square, Calcutta. This centre was inaugurated on 30th December 1955.

Delhi Centre has its main transmitting station at Kalkaji and receiving station at Chattarpur connected to the Traffic Office at N. I. C. Building, Parliament Street, New Delhi. This centre was inaugurated as a permanent centre on 6th February 1958.

Madras was a cable station but it now has a radio centre with its transmitting station at Korattur and receiving station at Padianellur connected to the Central Traffic Office in the General Post Office buildings, Madras. The radio stations of the Madras Centre were established on 5th March 1960, before which it was a cable terminal for Madras-Singapore Submarine telegraph cable.

The following direct radio services are now operated by India:—

	Date of Inauguration
1. India-United Kingdom Wireless Telegraph Service	23-7-27
2. India-United Kingdom Radio-Telephone Service	1-5-33
3. India-Australia Wireless Telegraph Service	14-1-42
4. India-China Wireless Telegraph Service	25-2-42
5. Kirkee-London restricted Radio-Photo Service	28-6-43
6. Delhi-London Wireless Telegraph Service	29-8-44
7. India-United Kingdom Radio-Photo Service	24-4-48
8. India-Afghanistan Wireless Telegraph Service	12-1-50
9. India-Japan Wireless Telegraph Service	17-8-50
10. India-Indonesia Radio-Telephone Service	2-10-50
11. India-Indonesia Wireless Telegraph Service	1-2-51
12. India-Thailand Wireless Telegraph Service	15-3-51
13. India-Russia Wireless Telegraph Service	18-6-51
14. India-Egypt Radio-Telephone Service	2-7-51
15. India-United States of America Wireless Telegraph Service (*via* RCA)	2-7-51
16 India-Iran Radio-Telephone Service	1-3-52
17. India-Japan Radio-Telephone Service	14-8-52
18. Calcutta-London Wireless Telegraph Service	12-3-53
19. India-East Africa Radio-Telephone Service	18-8-53
20. India-Hongkong Radio-Telephone Service	23-12-53
21. India-Switzerland Radio-Telephone Service	1-3-54
22. India-Bahrain Radio-Telephone Service	15-5-54
23. India-Malaya Radio-Telephone Service . ..	16-6-54
24. India-Aden Radio-Telephone Service	15-10-54
25. India-Saigon Wireless Telegraph Service	18-10-54
26. India-Shanghai Radio-Photo Service	19-10-54
27. Delhi-Peking Wireless Telegraph Service	3-1-55
28. India-China Radio-Telephone Service	2-3-55
29. India-London Radio-Photo Service	2-3-55
30. India-Burma Radio-Telephone Service	24-3-55
31. India-Russia Radio-Telephone Service	4-6-55
32. India-Russia Radio-Photo Service	8-6-55
33. India-Poland Wireless Telegraph Service	21-6-55
34. India-Poland Radio-Telephone Service	22-6-55
35. India-Yugoslavia Wireless Telegraph Service	30-6-55
36. India-Burma Wireless Telegraph Service	15-8-55
37. Calcutta-London Radio-Telephone Service	30-12-55
38. Calcutta-Saigon Radio-Telephone Service	12-1-56
39. India-Japan Radio-Photo Service	25-1-56
40. India-Iran Wireless Telegraph Service	16-2-56
41. India-Australia Radio-Telephone Service	19-7-56
42. India-Hanoi Wireless Telegraph Service	2-9-56
43. India-France Wireless Telegraph Service	25-10-56
44. Delhi-France Radio-Telephone Service	25-10-56
45. Delhi-London Radio-Telephone Service	26-10-56
46. India-Egypt Wireless Telegraph Service	5-11-56
47. India-Ethiopia Radio-Telephone Service	23-11-56
48. India-France Radio-Photo Service	3-12-56
49. India-Saudi Arabia Radio-Telephone Service	22-2-57
50. India-Poland Radio-Photo Service	27-3-57
51. India-Italy Wireless Telegraph Service	6-2-58
52. Delhi-Italy Radio-Telephone Service	6-2-58
53. Calcutta-Germany Radio-Telephone Service	20-2-58
54. India-Germany Wireless Telegraph Service	14-10-58
55. Calcutta-Hamburg or Frankfurt Radio-Photo Service	14-10-58
56. Calcutta-London Radio-Photo Service	5-11-58
57. Bombay-Switzerland Wireless Telegraph Service	25-1-59
58. Delhi-Rome Radio-Photo Service	24-5-59
59. Delhi-Roumania Wireless Telegraph Service	1-6-59
60. Delhi-Tokyo Radio-Photo Service	7-12-59
61. Madras-U.K. Wireless Telegraph Service	5-3-60
62. India-Iraq Wireless Telegraph Service	11-8-60
63. India-Iraq Radio Telephone Service	11-8-60
64. Calcutta-Manila Wireless Telegraph Service	1-11-60
65. Calcutta-Japan Radio-Telephone Service	20-4-61
66. New-Delhi Afghanistan Radio-Telephone Service	9-5-61

DIRECT RADIO-TELEGRAPH SERVICES

The following links are in operation:

(*a*) Bombay-London; (*b*) Delhi-London; (*c*) Delhi-Shanghai; (*d*) Bombay-New York; (*e*) Calcutta-Melbourne; (*f*) Bombay-Tokyo; (*g*) Delhi-Moscow; (*h*) Bombay-Kabul; (*i*) Bombay-Djakarta; (*j*) Bombay-Bangkok; (*k*) Calcutta-London; (*l*) Calcutta-Saigon; (*m*) Delhi-Peking; (*n*) Bombay-Warsaw; (*o*) Bombay-Belgrade; (*p*) Calcutta-Rangoon; (*q*) Bombay-Teheran; (*r*) Bombay-Hanoi; (*s*) Delhi-Paris; (*t*) Bombay-Egypt; (*u*) Bombay-Italy; (*v*) Bombay-Hamburg; (*w*) Bombay-Switzerland; (*x*) Delhi-Roumania; (*y*) Madras-London; (*z*) Bombay-Mecca; (*a1*) Calcutta-Manila.

Services to other countries are provided through the international trunk routes *via* the above direct links.

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DIRECT RADIO-TELEPHONE SERVICES

India today operates twenty-six direct services;

(*a*) Bombay-London ; through London calls are extended to the following countries : Algeria, Argentina, Asmara, Austria, Barbados, Belgium, Bermuda, Brazil, Canada, Ceuta, Cuba, Czechoslovakia, Denmark, Doha, Finland, Frobisher Bay N.W.T. (Canada), Germany, Ghana, Gibralter, Goose-Bay-Labrador (Canada), Greece Guatemala, Honduras, Hungary, Iceland, Israel, Italy, Kuwait, Lebanon, Luxembourg, Mexico, Morocco, Muscat, Netherlands, Newfoundland, New Zealand, Nicaragua, Norway, Panama, Rhodesia, Saar, Spain, South Africa, South Ireland, South West Africa, Sudan, Sweden, Tangier, Tunisia, United States of America, Vatican City.

Via London to the following Ocean Liners :

America, Athlone Castle, Capetown Castle, Caronia, Corinthia, Constitution, Edinburgh Castle, Empress of England, Empress of Britain, Eastriver, Israel, Ivernia, Independence, Maasdam, Mauretania, Nevasa, Nieuw Amsterdam, Olympia Elir, Orion, Orcades, Oronsay, Orsova, Oxfordshire, Oslofjord, Pretoria Castle, Pendennis Castle, Queen of Bermuda, Queen Elizabeth, Queen Mary, Reina Del Mar, Rijndam, Stirling Castle, Sylvania, Saxonia, Zion.

Via Berne to Yugoslavia.
Via Bahrain to Muscat, Doha and Kuwait.
Via Egypt to Sudan.
Via Australia to New Zealand.
Via Ethiopia to Asmara.

(*b*) Bombay-Djakarta ; (*c*) Bombay-Cairo ; (*d*) Bombay-Teheran ; (*e*) Bombay-Tokyo ; (*f*) Bombay-Nairobi ; (*g*) Bombay-Hongkong ; (*h*) Bombay-Berne ; (*i*) Bombay-Bahrain ; (*j*) Bombay-Aden ; (*k*) Delhi-Shanghai ; (*l*) Bombay-Rangoon ; (*m*) Delhi-Moscow ; (*n*) Delhi-Warsaw ; (*o*) Bombay-Belgrade ; (*p*) Calcutta-Saigon ; (*q*) Calcutta-Sydney ; (*r*) Bombay-Paris ; (*s*) Delhi-London ; (*t*) Bombay-Jeddah ; (*u*) Bombay-Addis-Ababa ; (*v*) Bombay-Rome ; (*w*) Calcutta-Germany ; (*x*) Madras-Singapore ; (*y*) Bombay-Bagdad.

CONFERENCE CALL FACILITIES

Facilities exist for "Conference Call" to be handled between the U.K., U.S.A. and India. This permits a calling party in India to converse simultaneously with upto five telephone subscribers in the U.K. and U.S.A. These calls are popular with users who desire to hold telephonic conference between parties situated far apart.

Collect call facility on telephone calls between India and the U.K. was introduced on Jan. 20, 1961. Here the call is billed to the called party instead of the calling party.

OVERSEAS RADIO-PHOTO SERVICE

This service enables signalling by radio a manuscript, photograph, drawing—in fact anything that is in black and white on paper and reproduction as a photo replica of the original.

The following circuits are now in operation from all three Overseas Communications Overseas Centres viz. Bombay, Calcutta and New Delhi to :

(*a*) London, is also extended to : Australia, South Africa, Canada, Egypt, Finland, Kingston Jamaica, Norway, Sweden, Belgium, Portugal, Greece, Denmark, Germany, Italy, Czechoslovakia, Yugoslavia, Ghana, Nigeria, Singapore and the U.S.A.

(*b*)	Delhi-Shanghai	19-10-54
(*c*)	Bombay/Calcutta/New Delhi-London	2- 3-55
(*d*)	Bombay/Calcutta/New Delhi-Moscow	8- 6-55
(*e*)	Bombay/Calcutta/New Delhi-Tokyo	25- 1-56
(*f*)	Bombay/Calcutta/New Delhi-France	3-12-56
(*g*)	Delhi-Poland	27- 3-57
(*h*)	Bombay/Calcutta/New Delhi-Hamburg	14-10-58
(*i*)	Bombay/Calcutta/New Delhi-Italy	24- 5-59

OVERSEAS SUBMARINE CABLE SERVICE

The cable chains are :—

(*a*) Bombay—Aden — Alexandria—Malta—Gibraltar—London.

(*b*) Bombay—Aden—Mombassa—Zanzibar—Seychelles.

(*c*) Madras—Penang—Singapore—East Asia.

These submarine cables provide many complementary services thus providing telegraph service to other parts of the world.

MULTI-ADDRESS BROADCASTS

Overseas Communications Service handles news transmissions on behalf of the Government of India to consular posts abroad. The transmissions from New Delhi are picked up by the following consular posts in Asia, Europe, Australia and America : Khatmandu, Rangoon, Singapore, Djakarta, Bagdad, Teheran, Ankara, Paris, Cairo, London, Brussels, Rome, Berne, Prague, Moscow, The Hague, Bonn, Tokyo, Canberra, Peking, and Nairobi.

Transmissions are also made on behalf of certain Press Agencies to different areas.

LEASED CHANNELS

A new type of radiotelegraph service *viz.* leased tele-printer channels for private customers on rental basis introduced during the year 1957 is extended further. Ten such channels are in use presently by Airline Companies. This facility provides direct means of telegraph communication between the parties. As on June 1, 1961, there were 15 leased channels.

A radio teletype circuit linking New Delhi with Tokyo for exchange of meteorological data was inaugurated in New Delhi on Jan. 10, 1961.

INTERNATIONAL TELEX

This service was first introduced in India at Bombay/Ahmedabad on 16th June 1960 by a direct link with the United Kingdom. Thereafter, this International Telex Service from Bombay and Ahmedabad has been made available to 28 other countries viz. Austria, Belgium, Canada, Czechoslovakia, Denmark, Finland, France, Germany (Federal Republic of), Greece, Hungary, Irish Republic, Italy, Luxemburg, Netherlands, Norway, Spain, Sweden, Switzerland, U.K., U.S.A., U.S.S.R, Bulgaria, German Democratic Republic, Malaya, Poland, Hongkong, Singapore and Australia.

Statistics of total overseas telegraph, telephone and phototelegram traffic for 1959-60 : Telegraphic traffic : Messages 28,34,855 ; Words 8,06,04,555 ; Telephone traffic : Calls 42,070 ; Minutes 2,41,133 ; Phototelegram traffic : No. of messages 930 ; Area Sq. Cms. 3,02,300.

SECOND PLAN

The Second Five-Year Plan had, with an allocation of two crores of rupees, the following long range objectives in view :—

(1) to provide expanding facilities of direct communications with more foreign centres commensurate with the growing needs of the country ;

(2) to provide improved grade and standard of service—greater mechanisation and improved modern techniques ;

(3) to provide more powerful service for Multi-Address Broadcasts for Government and Press ; and

(4) to provide leased channels to private agencies and teleprinter-call service to big business houses and for the press.

BUDGETS

The revenue for the year 1961–62 was estimated at Rs. 209·89 lakhs and capital expenditure Rs. 53·43 lakhs.

The profit of the O.C.S. for the year 1959-60 was 51·94 lakhs, *i.e.*, 23·03 per cent of Government capital.

The table below shows the revised estimates for 1959-60 and the budget estimates for 1960-61 on the expense side.

	Revised Estimate 1959-60	Budget Estimate 1960-61
	Rs.	Rs.
Pay of officers	6,63,000	6,88,000
Pay of establishments	24,41,000	27,6[illegible],000
Allowances, honoraria, etc.	25,10,000	26,08,000
Other charges	16,82,000	18,24,000
Interest on capital (Charged)	7,78,000	9,09,000
Depreciation (Voted)	12,28,000	6,00,000
Payments to other Government Departments, etc.	39,60,000	39,47,000
Cost of implementing Government's decision on Pay Commission's Report	—	3,69,000
Charges in England	1,06,000	87,000
Loss or gain by exchange	9,000	—
Total	1,33,77,000	1,37,93,000
Capital Budget	32,79,000	42,36,000

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BROADCASTING

ALL-INDIA Radio has 28 stations, 35 studios and four auxiliary studio centres, 28 receiving centres, 60 transmitters in all and an education television centre at New Delhi (June 1961).

The network now covers nearly two-thirds of the country.

Short-wave transmitters are due to be added to medium-wave transmitters at a number of stations.

Thus, Bhopal, Lucknow and Hyderabad have already a 10 K/w short-wave transmitter each, Ranchi and Dharwar will have a 2 K/w transmitter each, and Srinagar and Jammu 7·5 and 1 K/w transmitters each.

All India Radio's new plan of expansion is to double the number of transmitters in the country within two years. The Bharat Electronics Ltd., Bangalore, have entered into an agreement with a Japanese firm for the manufacture of high powered (20-50 Kw) medium wave transmitters. During 1960-61, two new transmitters, 100 Kw Mw at Delhi and 20 Kw Mw at Calcutta were put into regular service. Permanent studios with office accommodation came into service at Bhopal and Poona. Additional studio facilities were provided at Trivandrum. A new programme channel, Delhi 'C' was put into commission for the Vividh Bharati programme. A 50 kW Mw transmitter was inaugurated at Tiruchirapalli providing extended coverage. A plan for the installation of 55 Mw relay transmitters and 2 sW transmitters for extension of broadcast coverage throughout the country and the provision of an additional light programme channel at most of the existing stations, were finalised.

With the accent on medium-wave transmitters, it is possible to manufacture cheap one-band receiving sets each costing Rs. 125. Valves for receiving sets, manufactured in Bharat Electronics were expected to be sent out for testing early in 1961 and the country's requirements in this field are expected to be met from local manufacture before the end of 1961. Manufacture of tape recorders has been taken up. A.I.R. has more than 300 recording machines big and small.

Revised estimates for 1960–61: Rs. 4·42 crores.

Budget estimates for 1961–62: Rs. 4·72 crores.

TELEVISION

Television service has begun as an experimental measure twice a week for an hour between 19·00 to 20·00 hrs. on Tuesdays and Fridays. At present (March 1960) only a few sets (20) supplied by UNESCO for "listener research" of educational telecasts are used in Delhi.

The average viewing audience is estimated at 150 to 200 persons per centre. As already mentioned these programmes are predominantly educational in character and meant for schools and community centres.

The licence fee for a domestic television set is Rs. 30 per annum. This covers sound-cum-vision sets. The commercial licence fee is Rs. 120 per annum, and for a school set Rs. 10 per annum. These licences are at present (Jan. 1960) issued only in the Delhi Postal Circle.

An expenditure of about Rs. 2·14 lakhs on the capital side and about Rs. 77,700 under the recurring grant was incurred till Nov. 1959 when the experiment had been in progress for about three months. In addition a capital expenditure of about Rs. 11,000 and a recurring expenditure of about Rs. 2,52,300 would, it was estimated, be incurred on this service by the end of March 1960.

An experiment in radio diffusion also called wired wireless which proved successful in the Seva Nagar Colony in New Delhi with 100 loudspeakers is now being extended to the Lody Colony with 4,000 loudspeakers.

OFFICES

All-India Radio has now a multi-storied building Akashvani Bhavan next to Broadcasting House where many offices of All-India Radio are housed.

The head of AIR is the Director-General, All-India Radio, whose office is located in Broadcasting House, Parliament Street, New Delhi.

Other officers at headquarters are : Director of News Services, Director of External Services, Chief Engineer, Deputy Directors-General. Deputy Chief Engineer, Director of Programmes, Director of Programme Planning, Director of Listener Research, Deputy Director of Administration and Assistant Directors of Administration.

AIR stations transmit for about five to ten hours a day.

This is generally split up into three transmissions, morning, afternoon and evening.

Programmes are planned by Station Directors with the assistance of the Programme Executives and Programme Assistants. Details are worked out well in advance of their scheduled dates and are published in the journals of All-India Radio.

Research and Maintenance Departments.—These two departments are located in New Delhi with regional offices in Bombay.

The Research Department deals with all technical problems, concerning reception and transmission. Special studies are undertaken on ionospheric data and forecasting transmission conditions, field strengths of short and medium wave stations, atmospheric noise levels prevalent in various parts of India, studio and recording characteristics.

The Department also maintains a field station at Todapur near Delhi where the frequencies of All-India Radio Stations are constantly checked.

The Maintenance Department handles problems which arise in the upkeep and day-to-day operation of the engineering equipment used by All-India Radio in addition to maintaining of Central Stores Depot.

There is a Staff Training School in Delhi, where on an average 180 persons from the staff of All-India Radio, programmes and administrative sides, are trained every year. From 1958, the training facility has been extended to the engineering and technical staff with the opening of a similar training school for them.

Publications.—AIR has programme journals for home services as also for External Services.

Akashvani (English), *Awaz* (Urdu), *Sarang* (Hindi), *Betar Jagat* (Bengali), *Vani* (Telugu), *Vanoli* (Tamil), and *Nabhovani* (Gujarati) are for home services.

Only the *Akashvani* is issued weekly, while the rest are fortnightly publications, with a large list of regular subscribers.

For the External Services, *India Calling*, with two versions, the Eastern and the Western, is supplemented by Arabic, Burmese, Chinese and Persian editions.

Monitoring.—Monitoring Service housed on a high point in Simla keeps track of about a hundred broadcasts a day in 9 different languages, from 23 different stations, extending to a total of nearly 20 hours. Important items of news from abroad are flashed to Delhi, to the News Division for inclusion in the news bulletins and a check is maintained on what other countries say about India and Indian problems.

Listener Research.—The primary purpose of Listener Research is to determine the listening habits and programme preferences of radio listeners by ascertaining from time to time their reactions to items broadcast.

Advisory Committees, established at the Broadcasting Stations in consultation with the State Governments, keep the respective Station Directors. All-India Radio, in touch with local public opinion in programme construction and advise them on such matters.

There is also an Advisory Committee with members from Parliament to advise the Minister for Broadcasting.

PROGRAMMES

Women's Programmes.—These are in the regional language and are broadcast from almost all the stations.

Children's Programmes.—Wherever possible the children are divided into two or three age groups. The programme is conducted or compered by an elderly character known to the children. Another elderly person usually a woman is used to assist the compere.

These are generally broadcast twice a week.

Fables, stories from classics and musical items, form the content of the programmes, and listeners are encouraged to participate.

In the rural broadcasts there is a children's day once a week.

School Broadcasts.—The school broadcasts are meant to supplement the regular curriculum of the school.

There are Educational Committees to advise the Station Director on the composition of the programme for the academic term, and these are announced in pamphlets for each term.

A Committee at the centre advises on policy.

Occasionally students from a particular class are taken to the radio station to give a performance.

The idea is that students should listen to the broadcasts while at school in the company of their teachers. There were 21 stations radiating school broadcasts (1960).

Rural Broadcasts.—While the provision of programmes is the Central responsibility, the supply of listening sets to the rural population is the responsibility of State Governments.

Supplementary or spare time occupations are suggested, and information is given on items like improved seed, new implements, sowing, crop and cattle pests and their remedies, and market rates of current agricultural produce.

Weather bulletins during the monsoon are a regular feature of the composite programme.

The Union Government has put into operation a scheme for popularising community listening

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by subsidising State Governments for the purchase of receiving sets. The aim is to provide each village with a population of 1,000 or above, with at least one set.

The subsidy is 50 per cent of the cost of sets and its immediate acceptance is reflected in the rapid rise in the number of community receiving sets.

As part of the scheme, Government has standardised the community receiver set with the help of the radio industry and the Indian Standards Institution. It has been possible to produce such sets for Rs. 120 each and with larger bulk orders the price may go down still further.

The position as in Aug. 1960 is given in the table below:

Community Listening Sets, Aug. 31, 1960

State or Circle	Community sets	School sets
Andhra	5,465	1,180
Assam	610	143
Bihar	1,434	2,373
Bombay* (June 1959)	5,711	1,118
Central Circle ..	3,081	517
Delhi	65	127
Kerala	922	532
Madras	4,426	1,700
Mysore	1,807	469
Orissa	3,396	623
Punjab	4,351	1,781
Rajasthan	3,379	1,148
Uttar Pradesh ..	9,216	2,094
West Bengal ..	3,046	1,438
Total	44,602	15,344

Crystals—26,474

Blind—16

GRAND TOTAL including Domestic receivers —18,99,347.

Under the Central Government subsidy Scheme, 69,670 community sets were supplied to the State Governments till Feb. 28, 1961.

Note: Assam includes Manipur, Tripura and NEFA. The Central Circle includes Madhya Pradesh, Vindhya Pradesh areas. Punjab includes PEPSU, Bilaspur, Kashmir and Himachal Pradesh areas. Rajasthan includes Madhya Bharat, Ajmer and Bhopal areas.

Broadcasts in Naga Dialects.—The special conditions prevailing on the north-eastern frontier area make it essential to undertake broadcasting in 22 tribal dialects.

Gauhati station in that region has had to be provided with short wave transmitters.

Hindi Lessons.—For popularising Hindi in non-Hindi-speaking regions, All-India Radio devotes 15 minutes a day, five days per week, to impart instruction through the regional languages.

Anniversary Programmes.—Anniversaries of national leaders and of great musicians are now celebrated on a national scale.

National Programmes.—The Saturday National Programmes lasting ninety minutes have been quite popular. It is generally so planned that Northern and Southern (Karnatic) music alternate every Saturday. Arrangements are being made to have this item originate at other places. At present most of the Saturday concerts originate from Delhi and all stations relay them.

Talks.—Important topics of a national character are dealt with by an accepted authority in a nation-wide broadcast on Wednesdays at 8·30 p.m.

Plays, Operas.—On alternate Thursdays, a national programme of plays or operas is arranged in such a way that all stations have the same item, in their respective languages, prepared from one single script. The literature of one region is thus made available to all the other parts of the country at the same time.

Development Projects, Factories.—In order to make the country plan-minded, a feature on some of the bigger national projects is arranged once a month, and it is put out on the air simultaneously from all the stations, the script with actual effects having been supplied from Delhi.

Gandhi Prayers & Memories.—Mahatma Gandhi had his own way of saying prayers and those prayers are broadcast from all stations on Friday mornings. Also the reminiscences of men and women who had known him, immediately after the prayers.

Film Music.—AIR is now in a position to play film music which is quite popular.

Inter-Linking of Stations.—The interlinking of the regional stations is being tried as this makes it easy to maintain a uniformity of programmes, and also provide common listening when a first-rate performance is scheduled. Thus on Wednesdays, musical concerts are arranged from one of the stations in the Western Region and other stations relay it.

Prasar Geet & Sugam Sangit.—In order to provide all stations with standardised light and popular music, All-India Radio organised its own units in different regions for the production of songs. A processing plant capable of producing many discs for its own use in the first instance and for selling them to outside agencies on the lines of the BBC's Transcription Service, has been set up.

Orchestral Music.—All-India Radio also established an Orchestral Unit (Vadya-Vrinda) with two wings—one for the North Indian and the other for Karnatic music—for composing orchestral music, using mainly Indian instruments, though the violin, the double-bass and the clarionet were included among Indian instruments. So far over 110 compositions have been finalised and recorded for use when required.

Transcription Service.—The plant produced 165 matrices and 5,900 discs as against 45 matrices and 2,100 discs in 1956. The discs of *Sugam Sangit* and *Prasar Geet* are being supplied to all stations. Indian missions abroad required about 740 discs of important items.

Experiments in the production of long-playing records are being carried out.

Voice Recordings.—AIR already has a unique collection of Mahatma Gandhi's prayer-speeches—(51 hrs.). Similar recordings of the Prime Minister's speeches are also preserved. The voices of Tagore, Sarojini Naidu, Srinivasa Sastri, C. F. Andrews, and Nanha Lal D. Kavi have been acquired for preservation.

Vividh Bharati.—This all-entertainment programme, broadcast on short-wave 100 K/w transmitters, from Madras and Bombay simultaneously, was introduced in October 1957. It quickly gained in popularity and is therefore being relayed by some of the stations on medium wave as well.

Special items for South Indian listeners are broadcast daily for two hours in the afternoon from Madras. The letters received about request programme for Vividh Bharati, reached a figure of 500 a day even before the programme completed one year of its service.

From July 1959 Vividh Bharati has been broadcast from Bombay C(243·9 m). The increase in fan-mail proved its popularity at once.

The programme is now available on medium wave from Bombay, Delhi, Dharwar, Gauhati, Madras and Simla. An additional transmission of one hour (11 hrs. to 12 hrs. daily) has been introduced to meet the demand for extension of the service.

A unique feature of this programme in which all the stations of All-India Radio now contribute by sending choice items from their artistes on tapes, was the building up of an elaborate library of tapes, light and classical music, both vocal and instrumental, folk-songs, devotional music, skits, dialogues, recitations of modern poetry, songs of regional groups in many languages.

The library which was originally situated in Bombay has now been moved to Delhi.

Urdu Majlis:—Half an hour's programme daily has been introduced for Urdu speaking audiences. The item originates in Delhi and is relayed by stations interested in it. Allahabad/-Lucknow, Jammu/Srinagar, Jullundur, Hyderabad and Patna are other stations which have a regular Urdu programme in their schedules.

Farm Forums:—Groups of farmers at each of the community Development Projects have been formed to listen to rural programmes and discuss later amongst themselves what they have listened about. The gist of these discussions is considered by the programme authorities and suitable answers given to points raised by the listening farmers. To begin with 864 Farm Forums have been formed. The number rose to 1,45 during 1960-61. Originally the idea was tried with the help of UNESCO in the Marathi speaking region, where programmes were broadcast from Poona. All the States have Farm Forums now in their development blocks and/or community projects.

Competitions.—In its ceaseless effort to find new talent, All-India Radio holds many competitions every year. They are for music, light and classical, vocal and instrumental, northern and southern (Karnatak) styles. The first round of these is held Station-wise and the All-India round takes place in Delhi.

Radio Sangeet Sammelan has indeed become a regular annual feature of All-India Radio. It consists of a series of concerts before invited audiences arranged in Delhi, Bombay and Madras, and the programme is relayed by all stations.

A side-light of the Sammelan is the music competition meant to discover latent talent among younger artistes. Musicians vocal and instrumental between the ages 16 and 21 are invited to participate. The preliminary screening takes place at the respective stations within whose jurisdiction they come, and the final tests are held for Northern music at Delhi and for Karnatic music at Madras

Patel Lectures.—This is an annual feature. The first series of lectures was given by Mr. C. Rajagopalachari in 1955 on the good administrator.

In appreciation of the services to All-India Radio rendered by the late Mr. P. M. Lad, Secretary to the Ministry of Information and Broadcasting, Lad Memorial Lectures, on a literary question were instituted on the first anniversary of his death—March 1958.

* Bilingual.

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Programme Libraries.—At the headquarters of All-India Radio, New Delhi three important libraries have been built : (*i*) Recordings on tape and disc; (*ii*) Scripts of important programmes from all stations; and (*iii*) Tape recordings of entertainment programme items contributed by all stations of AIR.

Special Staff.—In addition to the regular grant for broadcasting made by Parliament, a lump sum is provided every year, to be spent at the discretion of the Minister. It is generally utilised in marking certain direct appointments of expert staff without having to go through the Union Public Service Commission.

New staff in charge of the production of special programme has been engaged at almost all the stations on a contract basis. Drawn from the literary or musical world, these officers have helped improve the quality of broadcasting.

NEWS SERVICES

The News Services Division now broadcasts 76 bulletins in 28 Indian and foreign languages. 30 of these bulletins are broadcast in the External Services while 46 bulletins are broadcast in the Home Services, the total transmission time being 14 hours and 34 minutes.

The languages used in the Home Services are:

Assamese, Bengali, English, Gujarati, Hindi, Kanarese, Kashmiri, Malayalam, Marathi, Oriya, Punjabi, Sanskrit, Tamil, Telugu, Urdu, Konkani and about 20 other dialects.

All the news bulletins are prepared in the News Service Division and broadcast from the transmitters at Delhi set apart for news.

Each regional station relays the bulletins suitable for its listening areas.

News Reels.—Radio news reels of 10 mts. each on the line of the BBC's radio news reels, have been introduced from Delhi in English twice a week and in Hindi once a week.

Regional News.—Centralised news from Delhi does not meet the requirements of the listeners adequately. In an effort to broadcast only news of All-India importance from Delhi, items of local interest are dropped. The State legislatures and other local institutions require to be covered for news. Some of the larger stations, capitals of States, now devote ten minutes a day for covering regional news in languages other than English. The timings however are late in the afternoon.

A few minutes are set apart at each station for local announcements. This period accommodates news of purely local interest.

External Services.—That the External Services serve a useful purpose can be seen from the fact that nearly 10,000 copies of *India Calling* (English) are distributed among listeners.

The Pushtu programme bulletin called *d'Hind-Awaz* is at present cyclostyled.

Sixteen languages are used in these broadcast —12 foreign and four Indian. The Indian languages are: Gujarati, Hindi, Konkani and Tamil. The total time taken is about 22 hours. It is believed that the audience is steadily on the increase. A survey showed that in the U.K., for example, 30,000 households listen to the evening English service.

In relation to time these broadcasts are composed of 25 per cent news, 33 Indian music, 3 Western music, 12 talks-discussions, 3 drama, 3 programme publicity, 21 Koran and other religious items.

AIR STATIONS

At present (1961 January) there are 30 broadcasting stations.

LIST OF ALL-INDIA RADIO STATIONS

	Wavelengths in M.	& Frequencies in Kc/s. per second
Ahmedabad-Baroda ..	352·9	850
Ajmer	500	600
Allahabad	306·1	980
Bangalore	491·8	610
Bhopal†	..	..
Bombay*	A 288·5	1,040
	B 545·5	550
	C 243·9	1,230
Calcutta*	A 447·8	670
	B 300·0	1,000
Cuttack	310·9	965
Delhi*	A 338·6	886
	B 280·4	1,070
Dharwar	220·6	1,360
Gauhati*	A 411	730
Hyderabad*	A 405·4	740
Indore	461·5	650
Jaipur	267·9	1,120
Jammu	303·0	990
Jullunder	422·5	710
Kozhikode	441·2	680
Lucknow*	A 394·7	760
Madras*	A 319·1	940
	B 211·3	1,420
Nagpur	508·5	590
Patna	483·9	620
Poona	384·6	780
Rajkot	329·7	910
Ranchi†	..	..
Simla†	..	..
Srinagar*	201·3	1,490
Tiruchi	389·6	770
Trichur	517·2	580
Trivandrum	454·5	660
Vijayawada	357·1	840

* Also on short wave. Wavelength varies according to the season and the part of the day.

† Only short wave for the time being.

LICENCES

Broadcast receiver licences are issued at all head and sub-post offices at a fee of fifteen rupees per year, and cover the use of receiving sets throughout India.

Broadcast Receiver Licences are issued to Municipalities or other public bodies for the reproduction of broadcast programmes in public places by the Postmaster-General of the State.

A licence issued for this purpose covers the use of one wireless receiver only.

A separate Broadcast Receiver Licence is, however, necessary in the case of clubs, institutions, messes, etc., for reproducing broadcast programmes at dances, concerts, bazaars, etc., to which the public are admitted.

It is necessary to explain here that the Post Office issues every quarter monthly figures of licences giving first the new licences issued, then the licences renewed, and last the total licences in force at the end of the month.

The table of figures therefore makes an odd impression when the monthly figures are placed in juxtaposition as below :

	New	Renewals	In force Total
1956 Dec.	17,653	3,570	1,075,909
1957 Jan.	28,786	657,419	871,750
1957 Dec.	19,463	12,553	1,230,814
1958 Jan.	34,988	767,539	972,505
1958 Dec.	26,963	15,470	1,427,421
1959 Jan.	36,051	589,971	784,582

The annual figures of domestic broadcast receiver licences as at the end of each year are given below :

Year	Licences	Year	Licences	Year	Licences
1939	92,772	1946	232,368	1953	769,505
1940	119,417	1947	247,100	1954	835,246
1941	147,121	1948	286,046	1955	947,353
1942	165,675	1949	369,278	1956	1,075,909
1943	176,061	1950	507,324	1957	1,230,814
1944	193,585	1951	635,026	1958	1,427,421
1945	202,829	1952	694,560	1959 (Sept.)	1,581,947

As on Oct. 31, 1960 there were 20,11,244 radio licences of all types. There were 22 lakh receivers in homes and other places in June 1961.

The following table shows the number and the value of radio sets imported into India over a number of years :—

Year	Number	Value in Rs. lakhs
1943–44	5,384	6·53
1944–45	895	1·51
1945–46	5,982	7·04
1946–47	107,114	169·58
1947–48	192,172	288·40
1948–49	42,202	76·59
1949–50	43,355	71·66
1950–51	16,012	25·44
1951–52	29,121	52·64
1952–53	19,286	36·09
1953–54	13,042	23·45
1954–55	4,515	11·20
1955–56	6,258	17·67
1956 (Apr. to Dec.)	4,393	12·01
1957 (Calendar) ..	21,313	11·26

After 1957 there has been hardly any import for civilian use because of adequate indigenous production.

RADIO SETS ASSEMBLED IN INDIA 1952-59

In 1959, there were 19 assembling units with a capacity of 267,180 sets.

Production of Radio Sets (domestic):

Year	Organised sector	Small scale
1956	150,596	37,650
1957	190,276	47,500
1958	193,132	48,243
1959–60	213,858	48,243*
1960–61 (April–June) ..	64,270	N.A.

* For 1959. N.A. = Not available.

Total Establishments (1958) 17 ; (1959) 19.

Installed capacity sets (1958) 240,600 ; (1959) 267,180.

Introduction of transistor sets, has altered considerably the pattern of production of radio receiving sets and the policy of Government in allowing imports of transistor tubes, would naturally determine the total output from year to year.

A contract was signed by the Bharat Electronics Ltd. with Philips in May 1959 under which, valves valued at Rs. 40 lakhs would be produced within 20 months of signing the contract.

In co-operation with Siemens, Bharat Electronics Ltd., is also to manufacture short wave transmitters of 1 kW and 5 kW.

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THE PRESS

THE Annual Report of the Registrar of Newspapers for India for the year 1959 shows an average increase of 11·2 per cent in the circulation of newspapers in India as compared to their circulation in 1958.

This comparison is based on the circulation of 3,232 papers for which data were available for both 1958 and 1959.

The total average circulation of 4,738 newspapers and periodicals in various languages in 1959 for which data were available was 172·70 lakhs. For 1958 information relating to circulation was received in respect of 4,550 papers and their total circulation was 154·28 lakhs.

There was also an increase in the number of papers published. In 1959 there were 7,651 papers on the Press Registrar's record and in 1958 their number was 6,918. The number of newpapers which started publication during 1959 was 23 per cent higher than during 1958.

Increase in circulation mentioned in the Report is shared by newspapers of all periodicities and by papers of all languages except multi-lingual papers and those published in Sanskrit, the increase in the circulation of Hindi papers being 11·8 per cent and in that of English 9 per cent. Language-wise the percentage of increases was as follows: Assamese 26·8; Tamil 18·3; Marathi 16·3; Punjabi 15·4; bilingual 14·7; other languages 13·7; Hindi 11·8; Telugu 10·6; Bengali 10·3; Malayalam 9·3; English 9·0; Gujarati 7·7; Oriya 7·4; Urdu 6·9; Kannada 5·2.

During 1959 dailies commanded a circulation of 43·61 lakhs as compared to 36·06 lakhs in 1958. The highest circulation 56·22 lakhs was commanded by monthlies. Their circulation in 1958 was 52·98 lakhs. The circulation of weeklies was 41·94 lakhs in 1959 as compared to 36·20 lakhs in 1958, that of fortnightlies 17·08 lakhs in 1959 as compared to 14·69 lakhs in 1958. Newspapers of other periodicities (quarterlies, half-yearlies and annuals) also showed an increase in circulation from 8·38 lakhs in 1958 to 10·42 lakhs in 1959.

CIRCULATION

English newspapers continued to command the highest circulation in 1959, namely 39·97 lakhs or 23·2 per cent of the overall circulation of all papers. Hindi came next with 35·53 lakhs or 20·6 per cent. The circulation of newspapers of other languages was as follows: Tamil 21·25 lakhs (12·3 per cent); Gujarati 11·59 lakhs (6·7 per cent); Marathi 10·54 lakhs (6·1 per cent); Urdu 10·47 lakhs (6·0 per cent); Bengali 9·23 lakhs (5·3 per cent); Malayalam 8·01 lakhs (4·7 per cent); Telugu 6·63 lakhs (3·8 per cent); Kannada 4·70 lakhs (2·7 per cent); Punjabi 1·83 lakhs (1·0 per cent); Oriya 99,000 (0·6 per cent); Assamese 53,000 (0·3 per cent); Sanskrit 7,000 (0·1 per cent).

Of the total circulation of 43·61 lakhs commanded by 369 daily newspapers, 11·37 lakhs were that of 58 English dailies. Next came 79 Hindi dailies with a circulation of 5·97 lakhs followed by 36 Marathi dailies (4·16 lakhs), 25 Malayalam dailies (3·89 lakhs), 28 Gujarati dailies (3·24 lakhs), one Assamese daily (0·04 lakhs), six Bengali dailies (2·18 lakhs), 19 Kannada dailies (1·77 lakhs), four Oriya dailies (0·47 lakhs), five Punjabi dailies (0·26 lakhs), 21 Tamil dailies (4·46 lakhs), eight Telugu dailies (1·44 lakhs), 52 Urdu dailies (2·54 lakhs), 21 bilingual dailies (1·66 lakhs), four other languages dailies (0·12 lakhs).

OWNERSHIP

The Press Registrar's study of ownership of newspapers in 1959 is based on 5,560 newspapers compared to 4,332 papers covered by the study in 1958.

The predominant form of ownership during 1959 continued to be the individual owner accounting for 45·1 per cent of the total in 1959 as compared to 44·6 per cent in 1958. Ownership by societies or associations, including religious and co-operative societies, which constituted the next important group of owners controlled 28·7 per cent of newspapers in 1959, as against 21·5 per cent in 1958. Joint Stock Companies, both public and private, represented an ownership of 7·7 per cent newspapers in 1959 against 7·4 in 1958. Firms and partnerships accounted for 8·2 per cent in 1959 against 7·87 in 1958. Government publications, Central and State, accounted for 2·9 per cent and 2·5 per cent respectively, against 2·8 per cent and 2·7 per cent in 1958.

The Report discusses the common ownership of more than one newspaper under three categories, namely, chains, groups and multiple units.

In 1959 there were 15 Chains, 162 groups and 30 multiple units 12 of which simultaneously formed parts of chains. The number of papers controlled by these chains, groups and multiple units was 103, 424 and 80 respectively. In 1958 there were 12 chains, 123 groups and 23 multiple units controlling 81,344 and 62 newspapers respectively.

Details of circulation of chains, groups and multiple units are given in the following table. The figures relate only to those newspapers in respect of which information was available with the Registrar. The figures in brackets give the percentage of the total circulation of papers in India:

Year	Chains	Groups	Multiple Units
1958	21·11 lakhs (14·6 per cent)	29·88 lakhs (20·7 per cent)	13·09 lakhs (9·7 per cent)
1959	23·23 lakhs (13·4 per cent)	33·35 lakhs (19·3 per cent)	13·49 lakhs (7·8 per cent)

There was thus an increase in the circulation commanded by chains, groups and multiple units. This was partly due to the general increase in the circulation of papers in the country and partly because of the increase in the number of papers controlled by chains, groups and multiple units. The percentage of the circulation of chains, groups and multiple units to the total circulation of all papers shows a decline because of the rise in the total circulation of newspapers.

NEWSPAPERS

On December 31, 1959, there were 7,651 newspapers published throughout the country as against 6,918 newspapers at the end of December 1958. During 1959, 1,302 new newspapers were started and 327 existing papers ceased publications, resulting in a net increase of 975. Also during the year, particulars became available to the Press Registrar of 470 newspapers which were already in existence but whose existence was noticed, revealed or confirmed during the year from various sources. There was thus a total increase of 733 in the number of newspapers and periodicals during 1959 over that at the end of 1958.

The number of newspapers in English continued to be the highest published in any language in the country and accounted for 20·3 per cent of the total number of newspapers. Of these 77 per cent were published from four States, namely Bombay†, West Bengal, Madras and Delhi. Hindi coming next with 18·8 per cent of the total, Urdu, Gujarati, Bengali and Marathi claimed 8·2, 6·8, 6·7 and 5·2 per cent respectively

Hindi newspapers were published from all the States including Orissa, where there was no Hindi newspaper before 1959. No Hindi newspaper was published in Manipur and Tripura. Uttar Pradesh claimed the highest (555) with Madhya Pradesh, Rajasthan, Delhi and Bihar coming next with 189, 158, 146 and 105 respectively. Punjab accounted for the largest number of Urdu newspapers (165), Uttar Pradesh and Delhi coming next with 148 and 139 respectively.

Each of the other languages shared less than five per cent of the total, while the bilingual and multi-lingual was 10 per cent and 6·1 per cent respectively.

There were 491 dailies published in different languages. Among periodicals, the highest number (3,076) was that of monthlies followed by 1,881 weeklies. There were 708 fortnightlies including tri-monthlies, 951 quarterlies including bi-monthlies and half-yearlies, and 488 annuals.

Language-wise the highest number of new newspapers (278) was claimed by Hindi, followed by English (238), Urdu (156), Gujarati (85), Bengali (77) and Tamil (69). There were two new publications in Assamese and one in Sanskrit. Among the new papers there were 141 bilingual publications.

The highest incidence of cessation among newspapers on a language basis was: Hindi — 80, Urdu — 53, English — 61, Bengali — 12, Gujarati — 21, Kannada — 3, Malayalam — 1, Marathi — 9, Punjabi — 11, Tamil — 12, Telugu — 8, Bilingual — 38, Multi-lingual — 14, other languages — 4.

Dailies

	Circulation.
Indian Express,* English (Bombay, Madurai, Delhi, Vijayawada and Chittoor.)	1,79,768
Times of India, English (Bombay & Delhi)	1,39,265
Thanthi, Tamil (Madurai, and Trichur	1,31,034
Hindu, English (Madras)	1,10,973
Statesman, English (Calcutta & Delhi)	97,589
Free Press Journal, English (Bombay)	87,962
Amrita Bazar Patrika, English (Calcutta)	86,721
Ananda Bazar Patrika, Bengali (Calcutta)	84,035
Jugantar, Bengali (Calcutta)	80,401
Nav Bharat Times, Hindi (Bombay and Delhi)	79,894
Malayala Manorama, Malayalam (Kottayam)	75,548
Lokasatta, Marathi (Bombay)	73,826
Hindustan Times, English (Delhi)	70,519
Mathrubhumi, Malayalam (Kozhikode)	69,952
Dinamami, Tamil (Madurai)	65,323
Hindusthan, Hindi (Delhi)	51,785
Andhra Prabha, Telugu (Vijayawada)	37,110

Periodicals

	Circulation.
*Sunday Standard**, English Weekly (Bombay, Vijayawada, Madurai, Chittoor and Delhi)	1,82,965
Kumudam, Tamil, Tri-monthly (Madras)	1,67,136
Ananda Vikatan, Tamil Weekly (Madras)	1,58,132
Kalyan, Hindi Monthly (Gorakhpur)	1,14,949
Filmfare, English Fortnightly (Bombay)	1,06,570
Kalki, Tamil Weekly (Madras)	1,03,688
Blitz, English Weekly (Bombay)	87,186
Malayala Manorama, Malayalam Weekly (Kottayam)	78,347

* It includes the average circulation of the Madras edition of this publication which was discontinued towards the end of April 1959. It does not include the circulation of the Chittoor edition of this publication. † Bilingual.

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Astana, Urdu Monthly (Delhi) ..	77,967
Cine Chitra, Hindi Weekly	77,500 (Uncertified)
Screen, English Weekly (Bombay, Vijayawada)	73,094
Illustrated Weekly of India, English Weekly (Bombay)	71,158
Manohar Kahanian, Hindi Monthly (Allahabad)	66,332
Dharmayug, Hindi Weekly (Bombay)	64,194
Rashtrapati, Hindi Fortnightly (Delhi)	63,636
Maya, Hindi Monthly (Allahabad) ..	62,750
Padi Pautalu, Telugu Monthly (Hyderabad)	61,397
Chandamama, Hindi Monthly (Madras)	57,577
Shama, Urdu Monthly (Delhi) ..	57,166
Cine Advance, English Weekly (Calcutta)	55,200
Bharat Jyoti, English Weekly (Bombay)	54,657
Pesum Padam, Tamil Monthly (Madras)	54,217
The Mathrubhumi Illustrated Weekly, Malayalam (Kozhikode)	53,832
Weekly News and Views, English Weekly (Calcutta)	53,343
Betar Jagat, Bengali Fortnightly (Calcutta)	50,432

TABLE 1. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND PERIODICITY (DECEMBER 31, 1959)

State/Union Territory	Dailies†	Bi- and Tri-Weeklies	Weeklies	Fortnightlies and Tri-Monthlies	Monthlies	Quarterlies‡	Annuals	Grand Total
Andhra Pradesh	27	—	100	30	148	20	25	350
Assam	2	—	24	8	15	5	2	56
Bihar	9	—	59	20	63	19	16	186
Bombay*	142	6	403	157	726	187	64	1,685
Kerala	37	—	60	12	153	20	37	319
Madhya Pradesh	46	3	89	26	51	21	4	240
Madras	32	7	120	97	348	83	70	757
Mysore	37	2	120	18	131	19	18	345
Orissa	5	—	13	13	41	36	33	141
Punjab	26	3	170	50	176	124	18	567
Rajasthan	14	1	107	24	63	15	15	239
Uttar Pradesh	53	10	321	67	363	51	50	915
West Bengal	30	5	193	110	402	224	99	1,063
Delhi	26	8	104	74	388	124	20	744
Himachal Pradesh	—	—	—	1	1	1	2	5
Manipur	4	—	—	—	6	1	15	26
Tripura	1	—	9	—	1	1	—	12
Andaman & Nicobar Islands ..	—	—	—	1	—	—	—	1
TOTAL	491	45	1,892	708	3,076	951	488	7,651

* Bilingual.

† Including papers issued at least 4 days a week. ‡ Including bi-monthlies and half-yearlies.

TABLE 2. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND LANGUAGE (DECEMBER 31, 1959)

State/Union Territory	English	Hindi	Assamese	Bengali	Gujarati	Kannada	Malayalam	Marathi	Oriya
Andhra Pradesh	32	10	—	—	—	—	—	—	—
Assam	12	4	13	16	—	—	—	—	—
Bihar	34	105	—	1	—	—	—	—	—
Bombay*	383	104	—	—	517	4	2	387	1
Kerala	28	1	—	—	—	1	174	—	—
Madhya Pradesh	13	189	—	—	1	4	12	1	—
Madras	216	7	—	—	2	4	12	1	—
Mysore	62	1	—	—	—	212	—	8	—
Orissa	16	1	—	—	—	—	—	—	67
Punjab	63	70	—	—	—	—	—	—	—
Rajasthan	7	158	—	1	—	—	—	—	—
Uttar Pradesh	86	555	—	3	—	—	—	—	—
West Bengal	293	85	1	474	1	—	—	1	9
Delhi	309	146	—	4	1	2	4	2	1
Himachal Pradesh	—	3	—	—	—	—	—	—	—
Manipur	—	—	—	—	—	—	—	—	—
Tripura	—	—	—	11	—	—	—	—	—
Andaman and Nicobar Islands	1	—	—	—	—	—	—	—	—
TOTAL	1,555	1,439	14	510	522	223	192	401	78
Percentage Distribution ..	(20·3)	(18·8)	†	(6·7)	(6·8)	†	†	(5·2)	†

* Bilingual. † Less than 5 per cent.

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TABLE 2. DISTRIBUTION OF NEWSPAPERS ACCORDING TO STATE AND LANGUAGE (DECEMBER 31, 1959)—(*Contd.*)

State/Union Territory	Punjabi	Sanskrit	Tamil	Telugu	Urdu	Bi-lingual	Multi-lingual	Others	Total
Andhra Pradesh	—	—	2	180	45	50	30	1	350
Assam	—	—	—	—	—	3	—	8	56
Bihar	—	—	—	—	13	9	19	5	186
Bombay*	7	3	1	2	49	124	63	38	1,685
Kerala	—	1	3	—	—	76	35	—	319
Madhya Pradesh	—	—	—	—	15	14	2	4	240
Madras	—	1	347	52	12	73	30	—	757
Mysore	—	—	4	1	18	26	8	5	345
Orissa	—	—	—	1	—	15	41	—	141
Punjab	100	—	—	—	165	52	117	—	567
Rajasthan	1	1	—	—	1	45	9	16	239
Uttar Pradesh	1	2	—	—	148	99	18	3	915
West Bengal	3	3	—	1	22	100	55	15	1,063
Delhi	15	1	4	4	139	76	25	11	744
Himachal Pradesh	—	—	—	—	—	1	1	—	5
Manipur	—	—	—	—	—	4	14	8	26
Tripura	—	—	—	—	—	—	—	1	12
Andaman & Nicobar Islands	—	—	—	—	—	—	—	—	1
TOTAL	127	12	361	241	627	767	467	115	7,651
Percentage Distribution ..	†	†	†	†	(8·2)	(10)	(6·1)	†	(100·0)

* Bilingual. † Less than 5 per cent.

TABLE 3. LANGUAGE AND PERIODICITY-WISE DISTRIBUTION ON DECEMBER 31, 1959

Language	Dailies†	Bi- and Tri-Weeklies	Weeklies	Fortnightlies and Tri-Monthlies	Monthlies	Quarterlies‡	Annuals	Grand Total
English	71	7	214	129	652	398	84	1,555
Hindi	114	10	500	123	612	67	13	1,439
Assamese	1	—	4	3	5	1	—	14
Bengali	7	3	132	69	204	73	22	510
Gujarati	39	—	126	66	259	29	3	522
Kannada	29	2	87	9	85	7	4	223
Malayalam	28	1	37	8	106	10	2	192
Marathi	51	2	148	27	145	18	10	401
Oriya	4	—	11	13	36	8	6	78
Punjabi	10	1	45	8	61	2	—	127
Sanskrit	—	—	2	3	5	1	1	12
Tamil	22	3	69	68	183	14	2	361
Telugu	11	1	65	37	120	4	3	241
Urdu	63	7	249	64	230	13	1	627
Bilingual	33	7	149	64	253	110	151	767
Multi-lingual	1	1	21	10	62	186	186	467
Others	7	—	33	7	58	10	—	115
TOTAL	491	45	1,892	708	3,076	951	488	7,651

† Including papers issued at least 4 days a week. ‡ Including bi-monthlies and half-yearlies.

TABLE 4. CIRCULATION OF NEWSPAPERS DURING 1959

figs. in 000's.

Language	Daily		Weekly		Fortnightly		Monthly		Other Periodicities		Total	
	No. of news-papers	Total	No. of news-papers	Total	No. of news-papers	Total	No. of news-papers	Total	No. of news-papers	Total	No. of news-papers	Total
English	58	11,37	133	7,46	81	4,24	440	9,68	275	4,47	987	37,22
Hindi	79	5,97	293	9,32	71	2,49	388	17,16	37	48	868	35,42
Assamese	1	4	3	35	3	3	3	11	—	—	10	53
Bengali	6	2,18	93	2,24	39	1,67	136	2,57	49	43	323	9,09
Gujarati	28	3,24	77	2,97	33	65	171	4,16	16	10	325	11,12
Kannada	19	1,77	43	1,54	4	22	51	1,01	7	12	124	4,66
Malayalam ..	25	3,89	24	1,56	7	31	66	2,14	8	11	130	8,01
Marathi	36	4,16	103	2,71	14	39	100	2,37	16	43	269	10,06
Oriya	4	47	4	6	5	4	19	37	6	5	38	99
Punjabi	5	26	22	52	4	11	42	94	2	—	75	1,83
Sanskrit	—	—	1	1	2	2	5	4	2	—	10	7
Tamil	21	4,46	37	5,40	40	5,24	116	5,76	15	19	229	21,05
Telugu	8	1,44	48	1,97	28	67	80	2,47	5	8	169	6,63
Urdu	52	2,54	135	2,83	36	61	156	4,22	13	5	392	10,25
Bilingual	21	1,70	92	2,30	26	28	160	2,11	132	1,25	431	7,64
Multilingual ..	2	—	8	8	6	5	36	61	183	1,64	235	2,38
Others	4	12	23	62	4	6	44	50	5	2	80	1,32
TOTAL ..	369	43,61	1,139	41,94	403	17,08	2,013	56,22	771	9,42	4,695	1,68,27

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TABLE 5. STATE-WISE DISTRIBUTION OF OWNERSHIP OF NEWSPAPERS AS ON DECEMBER 31, 1959

State	Government		Individual	Joint Stock Company		Firm and partnership	Trust	Co-operative Society	Society or association	Educational institutions	Foreign missions	Party organs	Total
	Central†	State‡		Public Ltd.	Private Ltd.								
Andhra Pradesh ..	1	3	127	4	6	12	6	1	56	12	—	1	229
Assam	1	—	14	1	1	6	—	—	6	2	—	2	33
Bihar	1	14	44	1	7	8	—	—	31	17	—	—	123
Bombay*	24	37	703	68	88	196	52	19	320	71	8	14	1,600
Kerala	5	3	84	18	6	8	1	2	59	24	—	4	214
Madhya Pradesh ..	3	16	132	1	6	20	4	4	27	4	—	2	219
Madras	8	9	228	11	34	31	8	2	120	34	3	1	489
Mysore	2	5	129	5	10	11	10	—	51	7	—	1	231
Orissa	—	6	20	—	1	4	1	2	14	39	—	—	87
Punjab	—	8	161	4	1	23	8	3	44	92	—	4	348
Rajasthan	—	1	79	—	—	9	2	—	14	7	—	1	113
Uttar Pradesh ..	1	27	341	12	22	37	15	3	102	31	—	4	595
West Bengal ..	13	8	231	26	63	50	11	1	179	74	1	8	665
Delhi	101	2	208	17	16	44	11	4	122	26	32	8	591
Himachal Pradesh ..	—	1	1	—	—	—	—	—	—	1	—	—	3
Manipur	—	—	—	—	—	—	—	—	4	7	—	—	11
Tripura	—	—	7	—	—	—	—	—	1	—	—	1	9
TOTAL ..	160	140	2,509	168	261	459	129	41	1,150	448	44	51	5,560
Percentage	(2·9)	(2·5)	(45·1)	(3·0)	(4·7)	(8·2)	(2·3)	(0·7)	(20·7)	(8·0)	(0·8)	(0·9)	(100·0)

* Bilingual. † Includes newspapers published by autonomous bodies under the Central Govt.
‡ Includes newspapers published by local bodies under State Governments.
Note: Figures within brackets are percentages of the total.

TABLE 6

The following table shows the language-wise distribution by subject.

Languages	News & Current Affairs	Literacy & Cultural	Religion & Philosophy	Women	Children	Films	Sports	Radio and Music	Education	Science	Medicine & Health	Social Welfare	Commerce & Industry	Finance and Economics	Insurance, Banking & Corporation etc.	Labour	Agriculture and Animal Husbandry	Engineering & Technology	Transport and Communications	School/College Magazines	Publicity Journals/House Organs	Law & Public Administration	Markets Reports & Bulletins	Fiction	Miscellaneous
English ..	207	60	127	7	5	34	11	6	21	29	90	43	141	23	22	38	31	69	36	47	74	44	62	—	150
Hindi	413	166	116	6	29	31	1	4	12	2	26	83	20	4	5	19	19	1	2	15	22	7	55	46	117
Assamese ..	5	2	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	—	—	—	—	—	—	—
Bengali ..	154	115	43	5	7	18	5	4	6	2	6	8	2	1	3	12	2	1	1	18	10	3	—	2	6
Gujarati ..	67	53	49	6	14	10	—	1	6	—	8	25	6	1	4	5	2	—	—	—	2	3	18	4	70
Kannada ..	73	22	17	—	3	8	—	1	6	—	4	7	—	—	2	—	4	—	—	1	1	2	—	4	1
Malayalam ..	20	25	37	2	3	8	1	—	1	—	4	4	—	—	1	2	3	—	1	—	1	—	—	—	2
Marathi ..	92	38	1	2	13	7	—	—	11	—	3	19	4	1	1	7	8	—	—	1	—	3	15	6	22
Oriya	16	12	7	—	5	1	—	—	—	—	2	5	—	—	1	2	1	—	—	1	6	2	—	1	1
Punjabi ..	35	23	20	2	7	5	—	—	—	—	3	6	—	—	—	—	1	—	—	1	—	—	—	1	—
Sanskrit ..	1	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—
Tamil	61	64	59	—	8	33	—	1	2	—	5	14	8	—	1	6	5	—	1	3	3	2	5	3	7
Telugu ..	58	20	42	3	6	14	—	1	5	1	13	9	—	—	3	3	4	—	1	1	3	3	2	4	7
Urdu	208	84	84	4	6	20	1	1	2	—	22	5	7	—	—	15	—	—	4	1	—	3	1	18	27
Bilingual ..	98	37	77	—	3	9	1	—	19	—	20	14	19	2	5	13	5	4	11	196	9	5	58	—	42
Multilingual ..	14	14	17	—	3	—	—	—	2	—	3	4	5	1	2	11	—	1	4	322	10	1	4	1	13
Others ..	22	31	15	1	1	2	—	7	—	—	—	—	—	—	—	—	2	—	—	2	—	—	—	—	2
TOTAL ..	1,544	773	711	38	113	204	20	26	93	34	209	247	212	33	50	134	86	76	62	615	136	78	220	90	467

PRESS LAWS

In general the laws which affect the Press in India today are Press and Registration of Books Act, 1867; the Indian Official Secrets Act No. XIX of 1923; Sections 124-A, 153-A, 171-G, 255, 292, 293, 294-A, 295-A, 489-A, 499–502 and 505 of the Indian Penal Code; Sections 99-A–99-G and 108 of the Criminal Procedure Code; Sections 81, 84 and 87 of the Indian Evidence Act No. I of 1872; Sections 19 and 181-A of the Sea Customs Act No. VIII of 1878; Sections 5 and 7 of the Land Customs Act No. XIX of 1924; Sections 19, 20, 26, 27-A–27-D of the Indian Post Office Act No. VI of 1898; Section 5 of the Indian Telegraph Act No. XIII of 1885; Sections 40, 52 and 53(1)(*b*) of the Patents and Designs Act No. II of 1911; the Police (Incitement to Disaffection) Act, 1922; Section 69 of the Trade Marks Act No. V of 1940; the Press (Special Powers) Act No. XXXIX of 1947*; the Contempt of Courts Act, 1952 (Act XXXII of 1952); Article 19 (1) (*a*) and (*g*) and Clause (2) and (6) of the same Article of the Constitution of India. The amendment to Article 19 (1) (*a*) reads: "Nothing in Sub-clause (A) of Clause 1 (the Citizen's Right to Freedom of Speech and Expression) shall affect the operation of any existing law or prevent the State from making any law in so far as such law imposes reasonable restrictions on the exercise of the right conferred by the said sub-clause in the interest of the security of the State, friendly relations with foreign States, public order, decency, morality, or in relation to contempt of court, defamation or incitement to an offence (This amendment is retrospective in operation); the Tax on Newspapers (Sales and Advertisements) Repeal Act No. XXVIII of 1951*; the Press (Objectionable Matter) Act No. LVI of 1951 as amended by Act 13 of 1954*; S.7 of the Collection of Statistics Act (XXXII of 1953); the Press and Registration of Books (Amendment) Act No. 55 of 1955.

The Delivery of Books (Public Libraries) Act 27 of 1954.

The Drugs and Magic Remedies (Objectionable Advertisements) Act 21 of 1954. This Act controls the advertisement of drugs in certain cases and prohibits the advertisement for certain purposes of remedies alleged to possess magic qualities.

The Criminal Procedure Amendment Act contains a section (198B) which empowers the Government to prosecute a newspaper for defamation of public servants.

The Working Journalists (Industrial Disputes) Act (No. 1 of 1955). The Act extends the provisions of the Industrial Disputes Act, 1947 to working journalists.

The Parliamentary Proceedings (Protection of Publication) Act (No. 24 of 1956). It protects the publication of a substantially true report of any proceedings of either house of Parliament.

* It is proposed to repeal this Act.

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Section 11 of the Prize Competitions Act (Act 42 of 1955) contains rules regarding printing and publishing tickets, coupons, etc. in connection with prize competitions.

The Working Journalists Conditions of Service and Miscellaneous Provisions Act (Act 45 of 1955) regulates conditions of service of working journalists (See below).

The Punjab Special Powers (Press) Act was passed on 5th September 1955. It empowers the authorities to control the irresponsible activities of the press indulging in and fostering communal disharmony, dissemination of 'violent' news and pernicious propaganda of a communal nature.

The Newspaper (Price and Page) Act 45 of 1956.

A draft order under the Act was placed before Parliament on April 21, 1960.

The Young Persons (Harmful Publications) Act No. 93 of 1956.

The Delivery of Books (Public Libraries) Amendment Act No. 99 of 1956.

The Copyright Act 14 of 1957.

The Indian Post Office (Amendment) Act No. 7 of 1958.

The Working Journalists (Fixation of Rates of Wages) Act 29 of 1958.

The Press and Registration of Books (Amendment) Act No. 26 of 1960.

Press Council Bill No. XII of 1956 was published on July 31, 1956. The Bill seeks to establish a Press Council for the purpose of preserving the liberty of the press and of improving the standards of newspapers in India.

On 12th December 1958 the Supreme Court of India delivered a very important judgment† relating to freedom of the press *vis-a-vis* the privileges of legislatures. It laid down "that under the Constitution of India, Indian legislatures have the right or privilege to prohibit absolutely the publication of even a true and faithful report of the debates or proceedings that take place within the House and to inflict punishment for a breach of such privilege. The right to freedom of speech and expression must be read subject to Art. 194(3) and in Art. 105(3).

See 1959 S.C.J. p. 925.

NEWSPAPERS

The following is a list of some English dailies with the names of the editors:

Amrita Bazar Patrika, Tushar Kanti Ghosh: Calcutta.

Assam Tribune, L. N. Phookan: Gauhati.

Deccan Chronicle, K. R. Pattabhiram (*Mg. Ed.*): Secunderabad.

Deccan Herald, G. V. Krupanidhi: Bangalore.

Eastern Times, J. B. Patnaik: Cuttack.

Economic Times, P. S. Hariharan: Bombay.

Evening News of India, N. J. Nanporia: Bombay.

Financial Express, G. M. Laud: Bombay.

Free Press Bulletin, A. B. Nair: Bombay.

Free Press Journal, A. B. Nair: Bombay.

Hindu, G. Narasimhan (*Managing Editor*): Madras.

Hindustan Times, S. Mulgaokar: New Delhi.

Hitavada, A. D. Mani (*Chief Editor*): Nagpur.

Indian Express, Frank Moraes (*Editor-in-Chief*): Bombay, Delhi, Madurai, Vijayawada and Chittoor.

Indian Nation, Dr. Sachin Sen: Patna.

Leader, R. N. Zutshi: Allahabad.

Mail, T. A. Subramanian: Madras.

Nagpur Times, D. T. Deshpande: Nagpur.

National Herald, M. Chalapathi Rau; Lucknow.

Pioneer, S. N. Ghosh: Lucknow.

Searchlight, D. K. Sharda: Patna.

Statesman, G. A. Johnson: Calcutta and New Delhi.

Times of India, N. J. Nanporia: Bombay and New Delhi.

Tribune, Amolak Ram: Ambala.

INDIAN NEWS AGENCIES

The following list is not exhaustive:

Press Trust of India (P.T.I.).
357, *Dr. Dadabhai Naoroji Road, Bombay.*
General Manager, K. N. Ramanathan.

NAFEN—Near and Far East News (Asia) Ltd., *Temple Bar Bldg.*, 70, *Forbes Street, Bombay* 1.

Dhiman Press of India,
Ludhiana (Punjab).

Rao's Press Features,
10, *West Anjaneya Temple Street, Basavangudi, Bangalore* 4.
Editor, K. P. Rao.

FOREIGN NEWS AGENCIES

The following list is not exhaustive:

Agence France Presse: Bureau De New Delhi, 1, Curzon Road, New Delhi.

Associated Press of America: 19, Narindra Place, New Delhi.

Reuters: Marshall House, Hanuman Road, New Delhi.

Tass News Agency of U.S.S.R.: 24, Nizamuddin East, New Delhi.

United Press International: I.E.N.S. Building, Old Mill Road, New Delhi.

INFORMATION SERVICES

Indian Information Service

Indian Government publicity work is carried out chiefly through the following units of the Ministry of Information and Broadcasting:

1. All-India Radio, 2. Press Information Bureau, 3. Publications Division, 4. Films Division, 5. Directorate of Advertising and Visual Publicity, 6. Research and Reference Division, 7. Directorate of Field Publicity, 8. Song and Drama Division.

Officers of the Press Information Bureau are attached to Central Ministries for liaison purposes.

There are regional offices of the Bureau in Bombay, Calcutta, Madras, Bangalore, Ernakulam, Lucknow, Jullundur, Gauhati, Cuttack, Nagpur, Patna, Jaipur, Srinagar, Varanasi, Hyderabad and Jammu.

There is also a Defence Wing for publicity for the Armed Forces.

The Bureau has also Information Centres at New Delhi, Jullundur and Srinagar which are entirely run by the Union Ministry of Information and Broadcasting. Apart from these, there are twelve information centres at other Cities which are run on cost sharing basis with State Governments. They are located at Patna, Lucknow, Hyderabad, Rajkot, Nagpur, Madras, Trivandrum, Bhubaneswar, Jaipur, Bhopal, Shillong and Madurai.

The Bureau's news, feature and reference services are provided in the following languages: English, Hindi, Urdu, Gujarati, Marathi, Tamil, Bengali, Telugu, Malayalam, Assamese, Oriya, Punjabi and Kannada.

Photographs and ebonoid blocks are also issued to the press.

The Bureau also keeps the Government informed of the views and comments in the press on Government policy and actions.

DIRECTORATE OF ADVERTISING AND VISUAL PUBLICITY

The Directorate of Advertising & Visual Publicity functions as the central organization for the Press advertising and visual publicity campaigns of the various Ministries of the Government of India (excepting Railways) and their attached and subordinate offices.

The Directorate has an Exhibition Division which, through its central and regional wings, organises exhibitions depicting progress of the Five-Year Plans and other themes of national importance.

British Information Services

(Chanakyapuri, New Delhi 21).

Director: D. F. Kerr, O.B.E.
Deputy Director: B. D. Brown.
Editor-in-Chief: R. W. Baxter.
Information Officer: F. B. Gabb.
Exhibitions Officer: D. F. Crowe.
Head of Reference Section: T. Havey.

Bombay Office: (Mercantile Bank Building, Mahatma Gandhi Road).
Regional Information Officer: E. J. Ellis.
Information Officer: Miss J. Murdoch.

Calcutta Office: (1, Harrington Street).
Regional Information Officer: P. J. F. Storrs.
Information Officer: F. Matthews.

Madras Office: (6, Armenian Street).
Regional Information Officer: F. W. Bustin.
Information Officer: G. L. Marsh.

Canada

(Canada House, 4 Aurangzeb Road, New Delhi.)
Second Secretary (Information): C F. W. Hooper.
(Bombay: Gresham Assurance House, Mint Road.)
Canadian Government Trade Commissioner, W. F. Hillhouse.

Commonwealth of Australia

(Australian High Commission, Connaught Place, New Delhi.)

Information & Cultural Attache: Norman Bartlett.

U. S. Information Service

Bahawalpur House, New Delhi.

Country Public Affairs Officer and Counsellor for Public Affairs: Dr. W. Kenneth Bunce.
Deputy Chief Public Affairs Officer and Attache: John V. Lund.
Executive Officer and Attache: Wm. C. Holcombe.
Chief Information Officer and Attache: Edward J. Joyce.
Chief Cultural Affairs Officer and Attache: Dr. John T. Reid.
Press Attache: Alan Carter.

(Delhi Consular District)

Public Affairs Officer and Attache: Robert C. Goodman.
Cultural Affairs Officer and Attache: Tom A. Noonan.
Information Officer and Attache: Howell S. Teeple.

INDIA WHEAT LOAN EDUCATIONAL EXCHANGE PROGRAMME

24, Curzon Road, New Delhi.

Director and Attache, U. S. Embassy, India Wheat Loan Educational Exchange Programme: Walter S. Blair.

BOMBAY OFFICE

("International", 16, Queen's Road Estate.)
Director, Daniel P. Oleksiw.
Cultural Affairs Officers, N. Marbury Efimenco, Manning Hawthorne.
Information Officers, William J. Miller, George F. Killmer, Thomas C. Dove.
Librarian, Dorothy L. Clark.
Executive Officer, Melvin R. Harris.

† M. S. M. Sharma *v.* Shri Krishna Sinha, A. I. R. 1959 S. C. 395.

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CALCUTTA OFFICE

(7, Chowringhee Road, Calcutta 13.)

Director, Arthur C. Bartlet.

Information Officer, Allan J. Funch.

Cultural Affairs Officer, Duncan Emrich.

Trainee Officer : Steven Ebbin.

Exhibits Officer, Cynthia S. Russ.

Press Officer, James P. Brown.

Director of Library Services, Ruth C. Krueger.

Deputy Cultural Affairs Officer, Robert M. Gilkey.

Executive Officer, M. Mary Burns.

Secretary to Director, Nancy B. Fenwick.

MADRAS OFFICE

(158, Mount Road, Madras 2.)

Public Affairs Officer, Renzo Pagin.

Information Officer, Maynard H. Fourt.

Cultural Affairs Officer, Thomas S. Cleveland.

Assistant Information Officer, William J. Karppi.

Assistant Cultural Affairs Officer, Martha I. Burns.

Audio-Visual Officer, Robert R. Klein.

Exhibits Officer : Thomas C. Dove, Jr.

Director of Library Service : Cecilia F. Johnson.

Administrative Officer : Helen J. Garbacz.

Secretary : Ruth F. Gandy.

U.S. INFORMATION SERVICE LIBRARY

24, Curzon Road, New Delhi.

Librarian : Miss Sara M. Dilley.

UNITED STATES INFORMATION LIBRARY

150-B, Mount Road, Madras 2.

Director of Library Service : Cecilia F. Johnson.

UNITED STATES INFORMATION LIBRARY

Main Road, Trivandrum.

Officer-in-Charge : William A. Withus.

UNITED STATES INFORMATION LIBRARY

Sri Narasimha Raja Square, Bangalore 2.

(Mysore State)

Officer-in-Charge : Joseph A. Horne.

Turkey

(Turkish Embassy, 27, Jor Bagh, New Delhi.)

United Arab Republic

Bombay : 208, Dinshaw Watcha Road, 5, Mistry Court, Bombay 1. Tel. No. 245425.

Consul-General : A. M. El Naggar. Delhi : 26, Jor Bagh, New Delhi 3. *Press Attache*, Galal El-Rashidi. Calcutta : 8/6, Alipore Park Rd., Calcutta 27. *Consul-General*, A. A. Moustafa.

Denmark

Royal Danish Embassy, 9A, Nizamuddin West, Mathura Road, New Delhi ; Danish Govt. Trade Commission, Pallonji Mansion, New Cuffe Parade, Colaba, Bombay 5.

France

(Consulate-General)

(Vulcan Insurance Building, 5th Floor, Churchgate, Bombay 1.)

Consul-General : Henri Dumont.

Italy

(Consulate)

(Vaswani Mansions, Dinsha Wachha Rd., Churchgate Reclamation, Bombay 1. Tel. Nos. 245177 & 245178.)

United Nations Information Centre

(21, Curzon Road, New Delhi.)

Director : David Blickenstaff.

Deputy Director : K. N. S. Sarma.

Regional Visual Information Officer : Thomas Baird.

Radio Officer, Mrs. MaThan E Fend.

FAO Regional Office for Asia and The Far East (Western Zone)—Ceylon, India and Nepal

(21, Curzon Road, New Delhi 1.)

Deputy Regional Representative : K. A. Bennett.

Information Officer : T. A. Venkatraman.

W.H.O. Regional Office for S. E. Asia, Public Information Unit

(Patiala House, Princes' Park, New Delhi.)

Information Officer : Gordon Boshell.

PRESS ASSOCIATIONS, SOCIETIES

All-India Newspaper Editors' Conference, 50-51, Theatre Communications Bldgs., Connaught Place, New Delhi : *President*, C. K. Bhattacharya ; *Secy. General*, Ranbir Singh ; *Treasurer*, K. B. Datta ; *Office Secy.*, Jag Parvesh Chandra.

Indian and Eastern Newspaper Society, I.E.N.S. Bldgs., Rafi Margh, New Delhi 1 : *President :* Dr. N. B. Parulekar (*Sakal*) ; *Dy. President :* A. B. Nair (*Free Press Journal*) ; *Vice-President*, R. R. Diwakar (*Samyukta Karnatak*) ; *Hon. Treasurer*, K. Narendra (*Daily Pratap*) ; *Secretary*, R. D. Seth.

Indian Federation of Working Journalists, Prospect Chambers Annexe, D. N. Road, Bombay 1. *President*, Pothen Joseph ; *Secretary-General*, I. N. Bapna ; *Treasurer*, R. V. Upadhyaya.

Indian Languages Newspapers' Association (Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay) : *President*, A. R. Bhat (*Sampada*, Poona).

Press Owners' Association, Bombay (196-B, Gaiwadi, Girgaon, Bombay).

Southern India Journalists' Federation (15, Ritchie Street, Mount Road, Madras 2) : *President :* S. A. Subbiah ; *Secretary :* T. Vadivelu.

FEATURE SYNDICATES

King Features Syndicate (235, East 45th Street, New York 17) : *Agents :* Advertising Films of India Private Ltd., 4th Floor, Khorshed Bldg., Sir Pherozeshah Mehta Road, Bombay 1.

PRESS CLIPPINGS

All-India Press Cutting Service : D-2, Amerchand Mansions, Mayo Road, Bombay 1.

Indian Press Service : 12, Mathura Road, New Delhi 14.

International Clipping Service : Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

Member, F. I. B. E. P., Paris.

Oriental Languages Bureau : Lakshmi Building, Sir Pherozeshah Mehta Road, Bombay 1.

PRESS PHOTO AGENCIES

Bombay Photo Stores (Private) Ltd. : 33-34, Park Mansions, Park Street, Calcutta.

News Photo Flash : 11-12, Scindia House, New Delhi.

Press Photo Bureau : 374, Pycrofts Road, Royapetta, Madras 14.

PRESS COMMISSION

The report of the Press Commission of 1952, the provisions of the Working Journalists Act of 1955, and the report of the Wage Board Committee for journalists appointed by the President are all given in previous editions of the *Directory*.

The recommendations of the Wage Board Committee and of the Journalists Act are now generally in force. No case of non-implementation of the recommendations of the Wage Committee has been brought to the notice of the Government.

The States of Andhra, Bihar, Bombay* Madras, Rajasthan and Delhi have appointed Inspectors whose duty is to see that the regulations in force are observed. West Bengal has sanctioned a post of Inspector (Feb. 1960).

There is also a Registrar of Newspapers who makes an annual report based on the terms of reference mentioned in the Journalists Act.

The Advertising Council of India has also been set up.

* Bilingual.

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SHIPPING COMPANIES AND AIRWAYS

SHIPPING COMPANIES

AMERICAN EXPORT LINES, INC., NEW YORK

Agents :—Lionel Edwards (Private) Ltd., Bombay ; Peirce Leslie & Co., Ltd., Beach Road, Alleppey ; Peirce Leslie & Co., Ltd., Ballard Road, Cochin ; Peirce Leslie & Co., Ltd., Bunder Road, Mangalore ; The Bombay Co. (Private) Ltd., 169, Broadway, Madras ; Lionel Edwards (Private) Ltd., India Steamship House, 21, Old Court House Street, Calcutta ; Capt. W. R. Kalloch, Director General, American Export Lines, Inc., India Steamship House, 21, Old Court House Street, Calcutta.

India Service fortnightly sailings between New York and other U.S. North Atlantic Ports *via* Egypt, Lebanon and the Suez Canal and Ports in the Gulf of Suez, Red Sea, Gulf of Aden, Pakistan, India, Ceylon and Burma. Calls at other ports may be made.

ANCHOR LINE LTD.

Anchor Line Building, 12-16, *St. Vincent Place, Glasgow* C. I. ; *Royal Liver Building, Liverpool* 3 ; 9, *Haymarket, London, S.W.* 1.

Offices

BOMBAY .. .. Neville House, Graham Road, Ballard Estate.
KARACHI .. .. National and Grindlays Bank Building, McLeod Road.

Chief Agencies

CALCUTTA .. .. Cruickshank & Co., Pvt. Ltd.
MADRAS .. .. Best & Co., Ltd.
COLOMBO .. .. Delmege, Forsyth & Co., Pvt. Ltd.

ATHEL LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

CUNARD STEAMSHIP CO., LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

DONALDSON LINE LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

J. & J. DENHOLM LTD.

J. & J. Denholm (Management) Ltd.
J. & J. Denholm (Agency) Ltd.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

LAMPORT & HOLT LINE LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

MOOR LINE LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

MUNGO CAMPBELL & CO., LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

RUNCIMAN SHIPPING CO. LTD.
RUNCIMAN (LONDON) LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

SUGAR LINE LTD.

Agents :—Anchor Line Limited, Ballard Estate, Bombay.

AMERICAN PRESIDENT LINES LIMITED

311, *California Street, San Francisco, California, U.S.A.*

Fortnightly sailings from Cochin, Bombay, Karachi *via* the Mediterranean to United States.

General Agents :—

BOMBAY—Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.
KARACHI—Cooper & Co., McLeod Road.
CALCUTTA—McLeod & Co. Ltd., 3 Netaji Subhas Road.
MADRAS—South Indian Export Co. Ltd., Post Box No. 37, McLean Street.
COCHIN—Madura Co. Private Ltd., P.O. Box No. 6.

APEEJAY LINE

Surendra (Overseas) Private Ltd., Steelcrete House, 3, Dinshaw Wacha Road, Bombay 1.

The Registered Office of the firm is at Calcutta. But the base for shipping would be at Bombay. The Company owns six ships "Apj Ambar", "Aruna", "Akash", "Anjli", "Sushma" and "Usha".

Their programme is to run regular lines between (1) India and Continent/U.K., (2) Round the World and (3) Coastal. Presently the ships operate on tramp basis.

ELLERMAN & BUCKNALL STEAMSHIP CO., LTD.

12/20, *Camomile Street, London, E.C.* 3.

General Agents :—

BOMBAY—Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.
KARACHI—Forbes, Forbes, Campbell & Co., Ltd., Corner of Bunder & Dunolly Roads.
CALCUTTA—Gladstone Lyall & Co., Ltd., 4, Fairlie Place.
MADRAS—Best & Co. Private Ltd., Post Box No. 63.
COCHIN—Aspinwall & Co. Private Ltd., P.O. Box No. 2.

Trading Ports are Boston, New York, Philadelphia, Baltimore, Norfolk, Wilmington, Montreal, Halifax, St. John N.B., etc.

BELGIAN LINE

Compagnie Maritime Belge S.A., 61, Rempart, Ste. Catherine, Antwerp.

Agents in India.—Bombay : Sepulchre Bros. (India) Private Ltd., Taj Building, 210, Dadabhoy Naoroji Road, Bombay; *Bedibunder, Port Okha and Veraval :* J. M. Baxi & Co., 16, Bank Street, Bombay.

Trading Ports are Genoa, Dunkirk, Antwerp, Rotterdam, Hamburg, New York, Boston, Baltimore, Philadelphia, Norfolk (Va.) and East Coast of Africa. Other ports by arrangement. Both cargo and passenger.

BRITISH INDIA STEAM NAVIGATION CO., LTD.

For all information with regard to the Company's Services, application should be made to Messrs. Mackinnon, Mackenzie & Co. Private Ltd., Bombay 1.

Agents in Madras :—Binny & Co. (Madras) Ltd., 7, Armenian St., Madras-1.

BOMBAY STEAM NAVIGATION CO. (1953) PRIVATE LTD.

Scindia House, Dougall Road, Ballard Estate, Bombay.

Main Office :—100, Frere Road, Bombay 9.
Telephone No. :—22021 (4 lines).
Telegrams :—'KONKANLINE', Bombay.
London Agents : Scindia Steamships (London) Ltd., Kempson House, Camomile Street, London, E.C. 3. *Telephone :* AVEnue 1200 (9 lines).

Passengers only :

Bombay, Rewas, Dharamtar, Dabhol, Ratnagiri, Vengurla.
Manager : B. P. Ichaporia.

THE EASTERN SHIPPING CORPORATION LTD.*

Steelcrete House, 4th Floor, Dinshaw Wacha Road, Churchgate Reclamation, Bombay 1.

Telegrams :—"EASTSHIPCO", Bombay.
London Representatives :—Scindia Steamships (London) Ltd., Billiter Buildings, 22, Billiter Street, London, E.C. 3.
Branch Offices :

Calcutta : 1/4, Strand Road, Calcutta 21.
East Africa : Renmar House, Kilindini Road, P.O. Box 2364, Mombasa.

Madras Agents :—Messrs. K. P. V. Shaik Mohamed Rowther & Co., 41, Linghi Chetty Street, P.O. Box No. 1264, Madras.

* It is reported that the Govt. of India has decided to amalgamate this with Western Shipping Corpn. Ltd. to form the Shipping Corporation of India Ltd. from June 1961.

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Agents also at all important Ports in India, East Pakistan, Karachi, Colombo, Burma, Malaya, Australia, New Zealand, Hongkong, Japan and British East Africa.

Cargo :—East Coast India/East Pakistan/Far East.
India/East Pakistan/Australia.
East Coast India/Australia/Malaya.

Passenger and Cargo :—Madras/Singapore.
Bombay/East Africa.
Calcutta Madras/Andaman.

Managing Director :—C. P. Srivastava. I.A.S.
Commercial & Traffic Manager :—Y. G. Nimbalker.
Asstt. Managers (Traffic) :—V. H. Rao, Dr. A. K. Murdeshwar, M. J. Gosavi.
Superintending Engineer :—P. N. Rabady.
Asstt. Manager (Operations) :—S. C. Das.
Finance-cum-Accounts Officer :—N. Subramanian.
Accountant :—B. B. Raote.

ELLERMAN'S CITY AND HALL LINES

From Glasgow and Liverpool to Calcutta and back to London. From Glasgow and Liverpool to Bombay, Kathiawar Ports, Karachi and Malabar Coast Ports and back to London, Liverpool and Glasgow.

Agents

BOMBAY	Killick, Nixon & Co. Private Ltd.
KARACHI	Forbes, Forbes, Campbell & Co. Private Ltd.
CALCUTTA	Gladstone Lyall & Co., Ltd.
COLOMBO	Aitken Spence & Co., Ltd.
MADRAS	Best & Co. Private Ltd.

HARRISON LINE

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

BROCKLEBANK LINE

Agents :—Edward Bates & Son's Agency, Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

L. SMIT & CO'S INTERNATIONALE SLEEPDIENST, ROTTERDAM

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay 1.

EVERETT ORIENT LINE

Calcutta Agents :—Everett Steamship Corporation, Post Box 25, Calcutta.
Telegraphic Address :—EVORIENT, Calcutta.
Telephones :—227841/3 and 227854.
Bay of Bengal, Straits, Hongkong, Japan and *vice versa.*

JOHNSON LINE

Bombay Agents :—Everett Steamship Corporation, Post Box 523, Bombay.
Telegraphic Address :—STARLINER, Bombay
Telephone :—26-4081/3 (3 lines).
Japan, India, Pakistan, Persian Gulf and *vice versa.*

AMERICAN MAIL LINE

740, Stuart Building, Seattle, Washington.

Bombay Agents :—Everett Steamship Corporation, P.O. Box 523, Bombay 1.
Calcutta Agents :—Everett Steamship Corporation, G.P.O. Box 25, Calcutta 1.
Service :—U.S.A. West Coast Ports to Bay of Bengal Ports, *vice versa.*

CENTRAL GULF STEAMSHIP CORPORATION

Hibernia Building, New Orleans 12, La.

Bombay Agents :—Everett Steamship Corporation, P.O. Box 523, Bombay 1.
Calcutta Agents :—Jardine Henderson Ltd., P.O. Box 51, Calcutta 1.
Service :—U.S.A. East Coast Ports to Bombay and Calcutta.

HINODE KISEN CO. LTD., TOKYO

Agents :—Killick, Nixon & Co. Private Ltd., Home Street, Fort, Bombay.

THE GREAT EASTERN SHIPPING CO. LTD.

Mercantile Bank Building, 60, Mahatma Gandhi Road, Bombay 1.
Telegrams :—'GREATSHIP'.
Telephone :—259226 (8 lines).

Owns a fleet of 15 ships including an oil tanker. Operates regular cargo services on the Indian coast. The main ports of call are Calcutta, Visakhapatnam, Madras, Kakinada, Tuticorin, Cochin, Bombay, Okha, other Saurashtra ports and Rangoon. Fixes ships for carriage of bulk cargoes to all ports of the world according to demand.

Branch Office :—5, Clive Row, Calcutta 1. *Delhi Office :* A. H. Bhiwandiwalla & Co. (Bombay) Private Ltd., 100, Golf Link Area, New Delhi.

Have agents at India, Pakistan, Ceylon and Burma ports. *Indian ports where there are agents :* Alleppey, Port Blair, Bassein, Bedi, Belikiri, Bhavnagar, Bheemunipatnam, Bombay, Calcutta, Calingapatnam, Cochin, Cuddalore O.T., Gandhidham, Jaffarabad, Jakhau, Kakinada, Kandla, Karwar, Koilthottam, Kozhikode, Madras, Mangalore, Marmugao, Masulipatam, Morvi (Navlakhi), Mundra, Negapatam, Okha, Paradip, Pondicherry, Porbandar, Port Redi, Quilon, Salaya, Sikka, Tuticorin, Veraval and Vishakapatnam.

Director-in-Charge : Vasant J. Sheth. *Manager:* K.M. Sheth. *Secretary :* S. N. Sanklecha.

THE GREAT WESTERN SHIPPING CO.

4, Waterloo Mansion, Mayo Road, Bombay 1.

INDIA STEAMSHIP COMPANY, LTD.

Head Office :—India Steamship Co., Ltd., India Steamship House, 21, Old Court House Street, Calcutta 1.

Branch Offices :—(*a*) India Steamship Co., Ltd., Contractor Building, 41, Nicol Road, Bombay 1. (*b*) India Steamship Co., Ltd., Godavari Street, Visakhapatnam 1. (*c*) India Steamship Co., Ltd., Yesuvari Street, Jagannaiekpur, Kakinada.

Agents in India :—(*a*) The Bombay Co. (Private) Ltd., Fort Cochin, Cochin ; (*b*) Krishna & Co., 16, First Line Beach, Madras 1 ; (*c*) Machado Bros., Capt. Machado Bldg., Beach Road, Tuticorin.

Saurashtra Agents :—J. M. Baxi & Co.

Services to :—(*a*) From Bombay to the U.K./Continent ; (*b*) From Calcutta : (1) Calcutta/U.K./Continent; (2) Calcutta/South America ; (*c*) Indo-Soviet Service, *i.e.*, from Calcutta and Bombay to Black Sea Ports.

JAVA BENGAL LINE

Branch Office of N. V. Stoomvaart Maatschappij "Nederland".
5 & 7, Netaji Subhas Road, Calcutta 1. P. O. Box 71. *Telephone :* 23-4442 (4 lines).

In all ports on East and West Coast except Calcutta : Messrs. Volkart Brothers represent their Lines.

The following lines are represented by them in India, with vessels calling at Indian ports :

Java Pacific Line : Sailings between India, East Pakistan, Philippines and USA/Canadian West Coast ports.

Nedlloyd Latin America & Caribbean Service : Sailings from Calcutta and East Pakistan Ports to West Coast of South America and Caribbean Ports *via* Straits and Philippines.

Nedlloyd Line/Atlantic Service : Sailings from Far East *via* Straits, Colombo and Cochin to U.S.A. Atlantic Coast Ports.

Nedlloyd Line/Gulf of Mexico Express : Sailings from Calcutta and East Pakistan to ports in the Gulf of Mexico *via* Panama Canal.

Nedlloyd Line/India Pakistan Express : Sailings from U.S.A. East Coast to Indian East and West Coast ports *via* Suez Canal.

Nedlloyd Line/Bombay Far East Service : Sailings from U.S.A. East Coast Ports to Bombay and Far East *via* Straits Ports.

Nedlloyd Line/Middle East Express : Sailing from Great Lakes to Middle East, Karachi, Bombay and Calcutta.

Holland-Bengal-Burma Line and Holland-Bombay-Karachi Line : Sailings between Indian East and West Coast ports respectively *via* Red Sea and Port Said to North Continental ports accepting through cargo for Mediterranean and Scandinavian ports.

Passenger Service by m.v. "ORANJE" of Nederland Line, Royal Dutch Mail from Amsterdam and Southampton to Colombo, Singapore, Australia, New Zealand *vice versa* and by m.v. "WILLEM RUYS" of Royal Rotterdam Lloyd, from Rotterdam and Southampton to Colombo, Singapore, Australia, New Zealand, Panama Canal, U.S.A., Bermuda, Southampton and Rotterdam.

K.P.M. Lines :—Sailings from Calcutta to Rangoon, Penang, Port Swettenham, Singapore, Bangkok, Phanom Penh (Saigon, Hongkong optional) *vice versa.*

L. Smit & Co.'s International Tug Service, Ocean going tugs stationed all over the world.

JAVA PACIFIC AND HOEGH LINES

Agents :—Volkart Brothers, Shipping Department, Graham Road, Ballard Estate, Bombay 1.
Telegraphic Address :—" ENGADINE." *Telephones :* 26-1531, 262961.

From India to Ceylon, Malayan Union, Philippines and West Coast of U.S.A. and Canada, and *vice versa.*

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LLOYD TRIESTINO

Bazargate Street, Fort, Bombay. Post Box No. 1080

Telephone Nos. 25-2388 and 254124.

Telegraphic Address : " LLOYDIANO ".

De Luxe Passenger Service from Bombay to Naples and Genoa and also to Singapore and Hongkong.

Fast Passenger Service with monthly sailing from Cochin to Naples and Genoa.

Cargo Services from West Coast of India and also East Coast of India and East Pakistan to Mediterranean Ports.

Cargo Services from West Coast of India to the Far East.

HANSA LINE

Agents :

Calcutta :—Hansa Line, Calcutta Branch: Ilaco House, Ground Floor, 1-3, Brabourne Road, P. O. Box 2698. Phone : 22-7855. *Telegraphic Address :* " HANSASTEAM. "

Bombay :—Shaw Wallace & Co., Ltd., 3, Wittet Road, Post Box 203, Bombay 1. *Telegraphic Address :* " HANSALACE ". Phone : 26-4051—59.

Madras :—Shaw Wallace & Co., Ltd., 8-9, Thambu Chetty Street, Madras 1. Phone : 4901. *Telegraphic Address :* "HANSALACE."

Fortnightly sailings from North Continental Ports to India, Pakistan, Ceylon and Burma.

THE MALABAR STEAMSHIP COMPANY LTD.

293, *Dr. Dadabhoy Naoroji Road, Fort, Bombay.*

Telephones :—263625 and 263626.

Branches :—Calicut, Cochin, Alleppey and Calcutta.

From Bombay to Calicut-Cochin-Tuticorin and Colombo as per demand. From Bombay to Saurashtra Ports. From Calcutta to Rangoon. From Calcutta to Madras-Tuticorin-Cochin and also touch Colombo according to demand. From Indian Ports to Overseas.

MAERSK LINE

Agents :—Volkart Brothers, Shipping Dept., Graham Road, Ballard Estate, Bombay 1.

Telegraphic Address :—"MAERSKLINE". *Telephones :*—26-1531.

Japan/India/Pakistan/Persian Gulf and *vice versa.*

MITSUI LINE

Mitsui Steamship Co., Ltd.

Agents :

BOMBAY :—Orient Ship Agency Private Ltd., Marshall's Bldg., Ballard Road, Bombay 1.

CALCUTTA :—International Clearing & Shipping Agency, " Tosh House ", 3rd Floor, P.-31/32, Royal Exchange Place Extension, Calcutta 1.

COCHIN :—Peirce Leslie & Co. Ltd. (Japan Line), Cochin.
F. Collins & Co. (U.S.A. Line), Cochin.

MADRAS, KAKINADA AND VISHAKAPATNAM :—International Clearing and Shipping Agency, 20-B, 2nd Line Beach, Madras.

TUTICORIN :—A. & F. Harvey Ltd., Tuticorin.

JAPAN/INDIA/PAKISTAN LINE

Regular monthly sailings serving: Japanese main ports—Hongkong—Singapore — Port Swettenham — Penang — Colombo — West and East Coast of India—Karachi, Kuwait—Iraq and Iran and *vice versa.*

JAPAN/BENGAL LINE

Regular sailings serving: Japanese main ports—Hongkong—Singapore — Port Swettenham — Penang — Ports at the Bay of Bengal and *vice versa.*

WESTBOUND ROUND-THE-WORLD SERVICE

Regular monthly sailings serving: Japanese main ports—Philippines—Singapore—Port Swettenham—Penang—Colombo—Tuticorin—Cochin—Bombay—Aden—Port Sudan—Port Said—Genoa—Marseilles—Casablanca—Ports in U.S.A. (Atlantic Coast, Gulf and Pacific Coast). Also West African Ports with transhipment at Casablanca.

THE MOGUL LINE LTD.

16, Bank Street, Bombay 1. *Phone :* 25-1321. Tel. Address : 'Mogul', Bombay.

Pilgrim Booking Office :—Nos. 4 & 5, Mahomed Haji Saboo Siddick Musafirkhana, Carnac Road.

Regular Passenger-cum-Cargo service from Bombay and Karachi to Red Sea ports and Mauritius. A special Pilgrim Service is arranged between Bombay and Jedda during Haj season every year.

N. Y. K. LINE

Nippon Yusen Kaisha, Tokyo.

Agents :—Indian Maritime Enterprises Pvt. Ltd., Darabshaw House, Ballard Road, Bombay 1. *Telegram :*—"VENKAPON." *Telephone :* 264177.

The Bombay Co. Private Ltd., P.O. Box 109, Broadway, Madras-1. *Phones :*—2900, 2909, 2056. *Telegrams :* 'GLADIATOR'.

James Finlay & Co., Ltd., 2, Netaji Subhas Chandra Road, Calcutta. *Phone :*—Bank 4061. *Telegrams :*—'MERCATOR'.

(*i*) Japan/India/Pakistan/Persian Gulf. (*ii*) Japan/Calcutta.

ORIENT MID EAST GREAT LAKES SERVICES

Agents :—Indian Maritime Enterprises Pvt. Ltd., Darabshaw House, Ballard Road, Bombay 1.

India/Montreal & Great Lakes Ports of Canada & U.S.A.

ORIENT MID-EAST LINES, NEW YORK

Agents :—Indian Maritime Enterprises Pvt. Ltd., Darabshaw House, Ballard Road, Fort, Bombay.

U.S.A. & Canada.—India.

PAKISTAN SHIPPING LINE LTD.

Agents :—Indian Maritime Enterprises Pvt. Ltd., Darabshaw House, Ballard Road, Bombay 1.

India and Pakistan/U.K. Continent.

POLISH OCEAN LINES

24, 10 *Lutego, Gdynia (Poland).*

South Asia Service—India/Pakistan/Burma.

Bombay Branch :—The Polish Ocean Lines, Bharat Insurance Bldg., 15/A, Horniman Circle, Fort, Bombay 1.

Telegraphic Address :— " POLLINES ", Bombay.

Telephone No. :—255605-6.

Agents :—Khemka & Co. (Agencies) Private Ltd., 202/A, Veer Nariman Road, Churchgate Reclamation, Bombay 1.

Telegraphic Address :—"POLBOUND", Bombay.

Telephone No. :—242244/45.

International Clearing and Shipping Agency, 20/B, Second Line Beach, Madras. *Telegraphic Address :* "CLEARSHIP". *Phones :* 4151-3303.

Khemka & Co. (Agencies) Pr. Ltd., 31/32, India Exchange Place Extn., Calcutta 1. *Telegraphic Address :* "WESTBOUND". *Phones :* 226290 and 221014.

Karachi Office :—The Pak Ocean Shipping Co., Ltd., Qamar House, Bunder Road. *Telegraphic Address :* "TRIDENT". *Phones :* 33287.

ROYAL INTEROCEAN LINES

Interocean House, 191, *Java Road, Hongkong.*

Agents :

Bombay : Forbes, Forbes, Campbell & Co. Private Ltd., Home Street, Fort.

Karachi : Forbes, Forbes, Campbell & Co. Ltd., Corner of Bunder & Dunolly Roads.

Alleppey : Darragh, Smail & Co. Ltd., Alleppey, P.O. Box No. 50.

Cochin : Darragh, Smail & Co. Ltd., Willingdon Island.

Monthly sailings from Bombay, Alleppey and Cochin *via* Colombo Malaya and Indonesia to Australia.

SCINDIA STEAM NAVIGATION CO., LTD.

Scindia House, Dougall Road, Ballard Estate, Bombay.

Telephone No. :— 268161 (12 lines).

Coastal Services :—(*Telegrams :* "JALANATH"). *Cargo Services :* India, Pakistan, Burma, Ceylon.

Cargo-cum-Passenger Services : Bombay—Kutch—Karachi ; Bombay—Saurashtra ; Bombay—Mangalore Ports—Cochin.

Passenger Service : Bombay—Konkan Ports.

Overseas Services :—(*Telegrams :* "SAMUDRAPAR"). Regular services : (*a*) India-Pakistan/U.K. Continent ; (*b*) India/Mauritius/West Africa ; (*c*) India/Levant Ports/U.S.S.R. (Black Sea Ports) ; (*d*) India/U.S.A.

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SOUTH EAST ASIA SHIPPING CO., PVT. LTD.

Himalaya House, Dr. Dadabhai Naoroji Road, Bombay 1.

Agents in India, Pakistan & Ceylon :—Darabshaw B. Cursetjee's Sons, Mahatma Gandhi Road, Bhavnagar; Dilip & Co., Comm. Bldg., Block No. 28, Veraval; Dilip & Co., Bokhira Road, Porbunder; Dilip & Co., P.O. Box No. 22, Morvi; Pestonjee Bhicajee, Okha Port, Saurashtra; Shree Digvijay Cement Co. Ltd., Sikka Port, Saurashtra; Darabshaw B. Cursetjee's Sons, Steamship Cos'. Agents, Stevedores, D.B. Z/S/163, Gandhidham, Kutch; Darabshaw B. Cursetjee's Sons, Bedi Bunder, Jamnagar; Nagar Govindrao Subrao Nayak, Coondapur Port, Ganguli; South India Corp. (Agencies) Pvt. Ltd., P. O. Box No. 113, 6, Armenian Street, Madras 1; South India Corp. (Agencies) Pvt. Ltd., P.O. Box No. 150, Nellikai Road, Mangalore 1; Narandas Mathurdas Narielwala, Cannanore; Narandas Mathuradas Narielwala, Dharmadam (*via* Tellicherry); Narandas Mathurdas Narielwala, Badagara; Narandas Mathurdas Narielwala, Calicut; Narandas Mathurdas Narielwala, Ponani; Mahavir & Co., 2/24, Bazar Road, P.O. Box 152, Cochin 2; Mahavir & Co., Alleppey; M. Linus D'Cruz & Sons, Trivandrum 8; V.N.M.S. Ayyachamy Nadar & Bros., 16-A, South Raja St., Tuticorin; Edaljee Dinshaw, 260, R. A. Lines, Karachi; Narottam & Pereira Pvt. Ltd., Prince Bldg., Prince Street, Colombo (Brigstocke Eduljee & Co., Keamari, Karachi).

Steamers ply on the West Coast Ports of India between Kandla and Tuticorin range and the main ports of call are Alleppey, Cochin, Calicut, Ponani, Badagara, Tellicherry, Mangalore, Bombay, Bhavnagar, Okha, Sikka, Bedi and Kandla.

UNITED LINER AGENCIES OF INDIA (PRIVATE) LTD.

Kaiser-i-Hind Building, Ballard Estate, Bombay 1.

Telegraphic Address :—" ULINERS ". *Telephones* :—26-3542; 26-3697; 26-4596.

Agents for the East Asiatic Co., Ltd., Copenhagen, the Swedish East Asia Co., Ltd., Gothenburg and Wilhelmsen Lines, Oslo. Maintains Joint Services from Scandinavian, Continental, Mediterranean and Red Sea ports to India, Pakistan, Ceylon and Burma and *vice versa*.

There are 2-3 vessels a month bringing import cargo to Karachi and Bombay and an equal number of sailings loading at Karachi, Saurashtra ports and Bombay for Red Sea, Mediterranean, North Continent and Scandinavia.

Another separate Service is maintained to the East Coast of India, Pakistan and Burma, and these vessels normally call at Colombo, Madras, Rangoon, Chittagong and Calcutta and on completion of discharge of import cargo, load at the same ports plus Chalna in East Pakistan and Malabar Coast ports for Red Sea, Mediterranean, North Continent and Scandinavia.

YUGOSLAV LINE

Jugoslavenska Linijska Plovidba Yugoslav Line, Rijeka, Yugoslavia.

Agents :

BOMBAY :—Madhavlal & Co., Private Ltd., Alice Building, Dadabhoy Naoroji Road, Bombay 1. *Telegraphic Address* : ' ABILITY '. *Telephones* : 253851/52, 253270.

CALCUTTA :—Madhavlal & Co. Private Ltd., 13, Brabourne Road, Calcutta 1. *Telegraphic Address* : 'OMAMBAJI'. *Telephone* : 222815.

MADRAS :—Southern Shipping Corporation, 159/160, Moore Street, Madras. *Telegraphic Address* : ' SOUTHSHIP '.

Adriatic to Far East starting from Rijeka to Hongkong and back.

THE MERCHANT STEAM NAVIGATION CO. (PRIVATE), LTD.

289-93, Narsi Natha Street, Bombay 9.

Telephones : 38055 & 38056.

Tel. Address : "OMFLAG."

Branches :

The Merchant Steam Navigation Co. (Private), Ltd., Beach Road, Calicut.

The Merchant Steam Navigation Co. (Private), Ltd., Alleppey.

The Merchant Steam Navigation Co. (Private), Ltd., Tellicherry.

The Merchant Steam Navigation Co. (Private), Ltd., Badagara.

Agents :

MALABAR PORTS :—Messrs. Bhanjee Jevath Khona, Bazar Road, Cochin; M/s. Gordhandas Khimji, Cannanore; M/s. Ramdas Vassanji, Ponnani; The United Shipping Corporation Ltd., Port Road, Mangalore (South Kanara); The Central Commercial Co., 73, Mint Road, Madras; M/s. V. V. Danushkodi Nadar & Sons, Post Box No. 2, Tuticorin.

SAURASHTRA PORTS :—M/s. Pestonjee Bhicajee, Kandla, Veraval, Okha, Navlakhi; M/s. Darabshaw B. Cursetji's Sons, Bhavnagar (Saurashtra); M/s. Prabhulal L. Pandya & Co., Outside Bedi Gate, Jamnagar (Saurashtra); Shri Digvijaya Cement Co., Ltd., Sika Port.

GOA :—M/s. Mehta & Co., Vasco-da-Gama.

KARACHI :—M/s. Brigstocks Edulji & Co., Kemary, Karachi (Pakistan).

COLOMBO :—M/s. M. A. Razak & Co., Ltd., Gaffoor Building, Colombo 1.

From Bombay to Calicut, Cochin and Tuticorin and at the same time touching other minor ports also and *vice versa*.

From Bombay to Saurashtra Ports and *vice versa*.

Also touch Colombo & Karachi according to demand.

COMPAGNIE DES MESSAGERIES MARITIMES

9, Rue de Seze, Paris-9.

Agents :

ALLEPPEY :—C. J. Revel, C/o V. O. Vakkan & Sons, P.O. Box 9, Alleppey.

BOMBAY :—Volkart Brothers, 19, Graham Road, Ballard Estate, P.O. Box No. 199, Bombay-1. *Telegraphic Address* : 'ENGADINE'.

CALCUTTA :—Cruickshank & Co. Private Ltd., 4/5, Bankshall Street, P.O. Box No. 548, Calcutta 1. *Telegraphic Address* : 'COSHANK'.

CALICUT :—C. J. Revel. *Telegraphic Address* : 'REVEL'.

COCHIN :—C. J. Revel, 6/75, Calvethy, Cochin 1. *Telegraphic Address* : 'REVEL'.

COCANADA (Kakinada) :—Gordon Woodroffe & Co. (Madras) Ltd., Kakinada. *Telegraphic Address* : 'WOODROFFE'.

MADRAS :—Messageries Maritimes Co., 6/20, North Beach Road, Madras-1. *Telegraphic Address* : 'MESSAGERIE'.

PONDICHERRY :—Messageries Maritimes Co., 24, Cours Chabrol. *Telegraphic Address* : 'MESSAGERIE'.

TELLICHERRY :—C. J. Revel, Post Box No. 6, Tellicherry. *Telegraphic Address* : 'REVEL'.

O. S. K. LINE

Osaka, Japan.

Agents :

BOMBAY :—Marine Transport Company Private Ltd., Wakefield House, Sprott Road, Ballard Estate, P.O. Box 1721. *Tel.* 264094, 264095. *Telegraphic Address* : ' CHARTERING'.

KARACHI :—M. M. Ispahani Ltd., McLeod Road. *Telephones* : 33771, 33772, 33773. *Tel. Address* : 'OSKISPA'.

MADRAS :—Best & Co., Private Ltd., P.O. Box 63. *Telephone* : 21231. *Tel. Address* : 'BEST'.

CALCUTTA :—F. W. Heilgers & Co., Private Ltd., Chartered Bank Building, P.O. Box 185. *Telephone* : Bank 222351. *Tel. Address* : 'HEILGERS'.

Regular monthly freight Services to and from India:

Karachi, Bombay/Japan Line.

(*Via* Madras, Singapore, Hongkong).

Calcutta/Japan Line.

(*Via* Rangoon, Singapore).

BROCKLEBANKS' CUNARD SERVICES

Thos. & Jno. Brocklebank Ltd., Cunard Building, P.O. Box No. 26, Liverpool 3.

Agents :

Turner Morrison & Co. Private Ltd., 6, Lyons Range, Calcutta 1. *Telegrams* : "TURNERS". *Telephone* : 222381 (13 lines)

Ripley & Co., Ltd., P.O. Box No. 39, Visakhapatnam. *Telegrams* : "RIPLEY". *Telephone* : 71.

Service to Aden, Port Sudan, Port Said, Charleston, Savannah, New Orleans, Houston and Galveston.

INDIA-NATAL LINE

Agents :

CALCUTTA :—Anderson Wright Ltd., P.O. Box 140, 7, Wellesley Place, Calcutta-1. *Telephone* : 23-2572/5. *Telegrams* : 'TALWEIR'.

MADRAS :—Parry & Co., Ltd., P.O. Box 12, Madras-1. *Telephone* : 2983. *Telegrams* : 'WEIRTAL'.

VISHAKAPATNAM :—James Finlay & Co. Ltd. *Telephone* : 80. *Telegrams* : 'MERCATOR'

Trading ports :—Calcutta, Madras, Chalna, Chittagong, Rangoon, Colombo, Mombasa, Tanga, Zanzibar, Dar-es-Salaam, Beira, Lourenco Marques and Durban.

Only cargo service.

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ISTHMIAN LINES, INC.

71, Broadway, New York 6, N.Y., U.S.A.

Agents :

A. V. Thomas & Co., Ltd., Beach Road, Alleppey. *Telegraphic Address :* 'THOM-ALLEPPEY' *Phone :* 625.

Chotalal Premji & Co., P. Box 14, Bedi Bunder. *Telegraphic Address :* 'CHOPREMJI', Bedi Bunder.

Mackinnon Mackenzie & Co., Private Ltd., Post Box 122, Bombay. *Telegraphic Address :* 'MACKINNONS'. *Phone :* 268021.

The Angus Co., Ltd., 3, Clive Row, Post Box 53, Calcutta. *Telegraphic Address :* 'ANGUSPENCE'. *Phone :* 22-1661.

A. V. Thomas & Co., Ltd., Kozhikode. *Telegraphic Address :* 'THOM'.

A. V. Thomas & Co., Ltd., Ballard Road, Post Box 30, Cochin. *Telegraphic Address :* 'AVITHOM COCHIN'. *Phone :* 355.

The Coromandel Co., Ltd., Kakinada. *Telegraphic Address :* 'HALL'.

Hargovind & Co., Cutch Mandvi. *Telegraphic Address :* 'HARGOVIND'.

Binny & Co. (Madras) Ltd., Post Box 66, Madras. *Telegraphic Address :* 'BINNY'. *Phone :* 21271.

Peirce Leslie & Co., Ltd., Post Box 9, Mangalore, South India. *Telegraphic Address :* 'PEIRCE'. *Phone :* 10.

General Agency Ltd., Marmugao (Portuguese India). *Telegraphic Address :* 'GENAGENCY'.

Chotalal Premji & Co., Morvi (Kathiawar), Navalaki. *Telegraphic Address :* 'CHOPREMJI'.

Parry & Co., Ltd., Nagapattinam. *Telegraphic Address :* 'UBIQUITOUS.'

Chotalal Premji & Co., Port Okha. *Telegraphic Address :* 'CHOPREMJI'.

A. V. Thomas & Co., Ltd., Quilon, Kerala. *Telegraphic Address :* 'THOM QUILON'. *Phone :* 414.

A. & F. Harvey Ltd., Tuticorin. *Phone :* 6. *Telegraphic Address :* 'HARVEY'.

James Finlay & Co., Ltd., Vishakapatnam. *Telegraphic Address :* 'MERCATOR'. *Phone :* 680.

The names of the main trading ports in India, Pakistan and Ceylon :

India : Alleppey, Bedi Bunder, Bombay, Calcutta, Kozhikode, Cochin, Kakinada, Cutch Mandvi, Madras, Mangalore, Mormugao, Navalaki, Nagapattinam, Port Okha, Quilon, Tuticorin, Vishakapatnam.

Pakistan : Karachi, Chittagong, Chalna (Khulna).

Ceylon : Colombo, Galle, Trincomalee.

CITY LINE LTD.

75, Bothwell Street, Glasgow C. 2, Scotland.

Agents :

Best & Co., Private Ltd., Madras, P.O. Box 63. *Phone :* 21231. *Telegrams :* 'BEST'.

Gladstone Lyall & Co., Ltd., Vishakapatnam. *Telegrams :* 'GLADSWYLL'. *Phone :* 724.

Gladstone Lyall & Co. Ltd., 4, Fairlie Place, Calcutta 1. *Telegrams :* 'GLADSWYLL'. *Phone :* 222561 (8 lines).

Killick, Nixon & Co., Private Ltd., Post Box 109, Home Street, Bombay. *Telegrams :* 'KILLICK'. *Phones :* 265201-6 (6 lines) (Shipping); 261395 (Clearing).

Aspinwall & Co., Ltd., Fort Cochin, Malabar Coast, South India. *Tel. :* 'ASPINWALCO'. *Phones :* 41207, 397.

Important trading ports are London, Dundee, Avonmouth, Hull, Dunkirk, Boulogne.

CANADIAN PACIFIC RAILWAY CO.'S STEAMSHIP LINES

Montreal, Quebec State, Canada.

European Head Office : Trafalgar Square, London W.C. 2.
Agents :—Mackinnon, Mackenzie & Co. Private Ltd., Calcutta and Bombay.
Telegraphic Address : Mackinnons.
Phone : Calcutta—22-1661 and Bombay—26-8021.
Services :—U.K. to Quebec and Montreal (Summer); U. K. to Saint John N. B. and Halifax N. S. (Winter).

P & O—ORIENT LINES

122, Leadenhall St., London E.C. 3.

Agents :

Mackinnon Mackenzie & Co., Private Ltd., Calcutta and Bombay.
Binny & Co. (Madras) Ltd., 7, Armenian Street, Madras-1.

Services :—U.K.-Gibraltar, Marseilles, Genoa, Malta, Port Said, Suez, Port Sudan, Aden, Karachi, Bombay; Colombo, Straits, China and Japan; Fremantle, Adelaide, Melbourne, Sydney and Brisbane; to Karachi, Bombay, Madras and Calcutta (joint cargo service with B.I.S.N. Co. Ltd.).

THE WESTERN SHIPPING CORPORATION LTD.*

Steelcrete House, Dinshaw Wacha Road, Bombay 1.

Tel. No. 246271-2-3-4. *Telegram :* "WESTSHIP."

The Corporation was set up in the Public Sector in June 1956, with an authorised capital of Rs. 10 crores, under the auspices of the Second Five-Year Plan of the Government of India, to promote India's Overseas trade. Its authorised Capital has now been increased from Rs. 10 crores to Rs. 20 crores.

It has at present the following vessels and is one of the participants in the Indo-Soviet Service :—

TANKERS.

M.T. "Desh Deep"
S.T. "Desh Sewak" } Under charter to Oil Companies.

Cargo Vessels : m.v. "Vishva Jyoti"; m.v. "Vishva Prabha"; m.v. "Vishva Usha".

Under Construction : "Vishwa Nidhi"; "Vishwa Maya"; "Vishwa Prem"; "Vishwa Mangal"; "Vishwa Shanti".

Chairman, Dr. Nagendra Singh, I.C.S., Joint Secretary, Ministry of Transport and Director General of Shipping.

Managing Director, C. P. Srivastava.

* It is reported the Govt. of India had decided to amalgamate this with the Eastern Shipping Corpn. Ltd. to form the Shipping Corporation of India Ltd. from June 1961.

AIRWAY COMPANIES

AIR-CEYLON LTD.

Stadium House, 81-83, Veer Nariman Road (Churchgate), Bombay 1. *Tel. :* 245537 and 245718. *Cable Address :* 'AIRCEYLON', Bombay.

The Company operates Services on the following routes :—

SINGAPORE — COLOMBO — BOMBAY — KARACHI — BAHRAIN — CAIRO — ROME — LONDON — AMSTERDAM AND *vice versa* (Weekly).

COLOMBO—JAFFNA—MADRAS AND *vice versa* (Daily except Tuesdays and Fridays).

COLOMBO—JAFFNA—TRICHINOPOLY AND *vice versa* (Daily).

AIR-FRANCE

Regional Head Office : 74, Golf Links, New Delhi. *Phones :* 42478/48946.

District Offices : Scindia House, Janpath, New Delhi. *Tel. :* 43101/2; Industrial Assurance Bldg., Churchgate, Bombay. *Tel. :* 243212/3/4; 41, Chowringhee Road, Calcutta. *Tel. :* 445308/9; Kivraj Mansion, 150A, Mount Road, Madras. *Tele. :* 83780/86530.

LONDON — PARIS — FRANKFURT — ROME — ATHENS — ISTANBUL — CAIRO — TELEAVIV — TEHERAN — KARACHI — NEW DELHI — CALCUTTA — RANGOON — BANGKOK — PHNOM PENH — SAIGON — HONGKONG — MANILA — TOKYO.

AIR-INDIA INTERNATIONAL CORPORATION

Offices :—AHMEDABAD : Dr. Tankaria Road; *Telephone :* 3100. BANGALORE : Mahatma Gandhi Road; *Telephone :* 4615. BOMBAY : Mahatma Gandhi Road; *Telephone :* 259191. CALCUTTA : 4, Dalhousie Square; *Telephone :* 233314. COIMBATORE : Trichy Road; *Telephone :* 3002. COLOMBO : 34, Y.M.B.A. Bldg., *Telephone :* 6232. NEW DELHI : Scindia House, Janpath; *Telephone :* 44211. JAMSHEDPUR : C/Monument Road; *Telephone :* 2583A. JORHAT : Club Road; *Telephone :* JORHAT : 387. JULLUNDUR : 1, Pucc Bagh Market; *Telephone :* 2669. *Karachi :* Metropole Hotel; *Telephone :* 52474. KANPUR : 4, J. C. Ryon Road; *Telephone :* 4432. MADRAS : Mount Road; *Telephone :* 86196; ROURKELA : C-67, Sector 111.

Cable : "AIRINDIAN" for New York and "AIRINDIA" for other Offices.

The Corporation inaugurated its Boeing operations on April 19, 1960 on the India/UK route. The operation is now built upto six frequencies a week to London, out of which 5 are extended over the North Atlantic to New York. Air-India now operates Boeings to Tokyo twice a week *via* Calcutta, Bangkok and Hongkong and to Nairobi once a week *via* Aden. In addition to these Boeing flights, there are the following Super Constellation flights : One to Sydney *via* Madras, Singapore, Jakarta and Darwin, one more to Jakarta *via* Madras and Singapore, one regional service to Kuwait *via* Karachi and Bahrain and one to Moscow from Delhi *via* Tashkent.

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ALITALIA

Italian Airlines, Churchgate, Bombay 1. *Tels.* : 243211 and 242005.

The Company operates the following lines :

ROME — TEHERAN — KARACHI — BOMBAY :

Flight No. AZ702—DC-7C—First and Economy Class every Tuesday and Saturday.

BOMBAY — KARACHI — TEHERAN — ROME :

Flight No. AZ703—DC-7C—First and Economy Class every Wednesday and Sunday.

Weekly Super DC-8 Jet service from Rome to Sydney *via* Tehran, Karachi, Bombay, Bangkok and Pnom Penh.

From Rome convenient connections are available to the principal cities of Europe, N. America and S. America. World-wide connections arranged from India through the Commercial Pool of Air France, Alitalia, Lufthansa and T.A.I.

BRAATHENS, SOUTH AMERICAN & FAR EAST AIR TRANSPORT A/S.

General Agents :—Tidemand & Co. (India) Private Ltd., India House, Fort Street, Bombay 1.

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(*e*) LONDON — DUSSELDORF — BEIRUT — BAHRAIN — CALCUTTA.

(*f*) LONDON — DUSSELDORF — CAIRO — KARACHI — CALCUTTA — RANGOON — HONG KONG.

(*g*) LONDON — ROME — BEIRUT — KARACHI — CALCUTTA — HONG KONG — TOKYO.

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Bombay—Kandla (Daily).
Bombay—Porbunder—Rajkot (Monday, Wednesday, Friday, Saturday).
Bombay—Keshod—Rajkot (Sunday, Tuesday, Thursday).
Madras — Bangalore — Coimbatore — Cochin — Trivandrum — Madurai—Tiruchirapalli (Daily).
Madras — Bangalore — Coimbatore — Cochin — Trivandrum — Madurai (Monday, Wednesday, Thursday, Saturday).
Calcutta—Rangoon—Port Blair (Thursday).
Calcutta—Chittagong (Monday, Wednesday, Friday).
Calcutta—Dacca (Daily).
Calcutta—Port Blair (Thursday, Saturday).
Calcutta—Bagdogra—Port Blair (Daily).
Calcutta—Along ‡ (Daily).
Calcutta — Gauhati — Tezpur — Jorhat — Lilabari — Mohanbari (Daily).
Calcutta—Gauhati—Mohanbari (Thursday, Saturday).
Calcutta—Gauhati—Mohanbari ‡—Along (Tuesday).
Calcutta—Gauhati—Mohanbari—Passighat (Sunday, Monday, Wednesday, Friday).
Calcutta—Agartala—Gauhati (Daily).
Calcutta—Imphal (Monday, Wednesday, Thursday, Friday, Saturday).
Calcutta—Agartala—Silchar—Imphal (Daily).
Calcutta—Agartala—Khowai—Kamalpur—Kailashahar (Sunday, Tuesday—Economy Class Service).
Calcutta—Ranchi (Monday, Thursday, Saturday).
Calcutta—Jamshedpur (Tuesday, Wednesday, Friday, Sunday).
Delhi—Amritsar—Kabul (Friday).
Delhi—Lahore (Monday, Wednesday, Friday).
Delhi—Chandigarh—Pathankot—Jammu—Srinagar (Friday).
Delhi—Kathmandu—Patna (Sunday, Monday, Tuesday, Wednesday, Thursday, Saturday).
Delhi—Patna (Saturday).
Delhi—Kathmandu (Sunday, Tuesday, Saturday).
Delhi—Lucknow—Banaras—Patna—Calcutta (Monday, Wednesday, Saturday).

* B.O.A.C. are General Sales Agents in India for M.E.A. and E.A.A. on non-schedule basis.

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Delhi—Agra—Banaras—Calcutta (Daily).
Delhi—Gwalior—Bhopal—Indore—Bombay (Sunday, Tuesday, Thursday).
Delhi—Jaipur—Jodhpur—Udaipur—Ahmedabad (Tuesday, Thursday).
Delhi—Jaipur—Udaipur—Ahmedabad—Rajkot (Sunday, Monday, Wednesday, Friday, Saturday).

BOOKING AND RESERVATION OFFICES

Agartala (Khosh Mahal Bldg., Central Road, Passenger Booking Freight Booking).
Agra (Imperial Hotel).
Ahmedabad (Old Bombay Garage, Dr. Tankaria Road, Aerodrome Office, Ahmedabad).
Allahabad (15, Canning Road, Airport Office).
Amritsar (Brij Bhawan, Gandhi Gate).
Aurangabad (Aurangabad Hotel, Julna Road).
Siliguri (Bagdogra), (Hilcart Road, Siliguri).
Bangalore (12-A, Mahatma Gandhi Road, Bangalore Cantt.; Airport Office; H. A. L.).
Belgaum (Hotel Green, Camp.).
Banaras (Clarks Hotel, Banaras Cantt.; Babatpur Airport).
Bhavnagar (Diwanpura Road).
Bhopal (No. 1, Sultania Road, Bhopal.
Bhubaneswar (Unit No. 6, Type 6, Quarter 6, New Capital).
Bhuj (Outside Waniawad Gate, Near Bharat Oil Mills).
Bombay (Airport, Santa Cruz (24 hours Service). Army & Navy Building (24 Hrs. Service), Mahatma Gandhi Road, Fort).
Calcutta (4, Chittaranjan Avenue (Passenger Bookings); (Freight Bookings); Airport: Dum Dum Booking Counter; Traffic).
Chandigarh (Hotel Aroma; Sector 22).
Chittagong (319, Quaid-e-Azam Jinnah Road; Patenga Airport).
Cochin ("Luiz Hall", Broadway, Ernakulam. Airport: Willingdon Island).
Coimbatore (India House, Trichy Road; Airport Pelamedu).
Colombo (City Booking Office: 27, Main Street, Gaffoor Building, Fort; Airport Traffic Office: Colombo Airport, Ratmalana.
Dacca (Noor Chambers, 33, Jinnah Avenue, Ramna Airport).
Darjeeling (Laden La Road).
Delhi (Malhotra Building, Queensway, New Delhi. Airport Safdarjang; Airport Palam).
Mohanbari, (Dibrugarh) Mancotta Road, New Khaliamari.
Gauhati (Pujabari, Pan Bazar; Passenger Booking Office; Freight Booking Office; Airport Traffic Office).
Gwalior (Sanghi Bros. (Indore) Pvt. Ltd., Jayendraganj).
Hyderabad (Bashir Bagh Road; Begumpet Airport).
Imphal (Mahatma Gandhi Avenue).
Indore (Maharani Road, Indore City).
Jaipur (2-B, New Colony).
Jammu (Standard Hotel, Residency Road).
Jamnagar (Indra Mahal, Bhid-Bhanjan Road; Airport Office).
Jorhat (Nehru Park Road).
Kabul (Deh Afghan Shaha Md. Khanwad Road).
Kandla (Kanji Jadhavji & Co., Qr. No. DBZ/S-5, Gandhidham).
Karachi (Karachi House, McLeod Road; Airport Office, Drigh Road Airport; Air Freight unit).
Khatmandu (6/42, Judha Sadak; Airport).
Keshod (Near Railway Station).
Lahore (11, Dayal Singh Mansions, The Mall; Walton Airport).
Lilabari (North Lakhimpur, Assam).
Lucknow (Carlton Hotel).
Madras (5 and 6, Mount Road; Airport: Traffic Officer; Passenger Enquiries Traffic Officer, Airport).
Madurai (Esenkay House, West Marret Street).
Mangalore (Sri Rang Bhawan, K. S. Rao Road; Airport).
Nagpur (Assa House, Kingsway (24 Hours Service), Booking Office Airport Traffic Office).
Passighat (Old Hospital Colony).
Pathankot (Hiralal Buildings, Railway Road).
Patna (Exhibition Road; Airport).
Porbandar (Harish Talkies Buildings, opp. Caltex Petrol Pump).
Rajkot (Hir Mahal, Coronation Gardens, Adjoining Lal Stores; Airport).
Rangoon (Randeria Building, 533, Merchant Street; Airport).
Silchar (Club Road).
Srinagar (Tourist Reception Centre; Airport).
Tezpur (Bhabani Kutir, Opp. Academy School).
Tiruchirapalli (Ashok Bhawan, Junction Road; Airport, Govt. Civil Aerodrome, Pudu Kottah Road, Tiruchirapalli).
Trivandrum (Trivandrum Air Centre, Main Road; Airport Office, Trivandrum).
Udaipur (Tourist Guide Service).
Vishakapatnam (20/133, Thompson Road; Airport).

PAKISTAN INTERNATIONAL AIRLINES CORPN.

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INSTITUTIONS FOR THE BLIND IN INDIA

Andhra Pradesh : Government School for the Blind & Deaf, Malakpet, Hyderabad; United Lutheran Church Mission Blind School, Rentachintala, Guntur District.

Assam : Patna Blind School, C/o Sreemanta Shanker Mission, Nowgong, New Gond District.

Bihar : Blind School (Attached to the Home for the Homeless), Muzaffarpur; Maharani Adhzrani Kameshwari Priya Andh Vidyalaya, Darbhanga; Netarheen Chhatra Vidyalaya, Mundichak, Bhagalpore; Patna Blind School, P.O. Kadam Kuan, Patna; S. P. G. Mission Blind School, Ranchi.

Delhi : Industrial Home for the Blind, Lal Kuan, P.O. Badarpur; Institute for the Blind, Punchkuin Road, New Delhi; Rashtriya Virja-Nand Andh Kanya Vidyalaya, 13-A6, Western Extension Area, Karol Bagh, New Delhi; Workshop for the Blind, Punchkuin Road, New Delhi.

Gujarat : Andh Janashikshan Shala, Nanpura Dhobi Sheri, Surat; Andh Mahila Vikas Grah, Rashtriya Shala, Rajkot; Government School for the Blind, Madan Zapa Road, Baroda; Government School for the Blind, Vandhay, Taluk Bhuj, Kutch; Government School for Blind, Deaf & Mutes, Maliya Bhavan, Rajkot; Government School for Blind & Deaf-Mutes, Rajkot; Krishnakumarshinhji School & Home for the Blind, Bhavnagar, Kathiawar; Light House for the Blind, 57, Shamshet Surkej Road, Ahmedabad; School for the Blind, Ashram Road, Ellis Bridge, Navarangpura, Ahmedabad; Blind Men's Association (Ahmedabad Branch), 13, Amar Society, Kankaria, Ahmedabad; Maganbhai Kendra, Adult Home for the Blind, Kameshwar Poll. Ahmedabad.

Jammu & Kashmir : School for the Blind, Vend Mandir, Jammu Tawi.

Kerala : Blind School, Trivandrum; Government School for the Blind, Kasaragod; Kerala School for the Blind, Mankadapallipuram, Malappuram; School for the Blind, Deaf & Dumb, Kunnamkulam, Thalapally, Trichur District; Kerala Blind Welfare Association, Manakadpallipuram.

Madhya Pradesh : Deaf, Dumb & Blind Vidyalaya, Indore; Madhav Blind School, Nai Sarak, Lashkar, Gawlior; Mission School for the Blind, C/o The Christian Hospital and Dispensaries, Mangeli, Bilaspur District; Madhya Pradesh Blind Welfare Association, Shakati Eye Hospital, Jawahar Marg, Indore.

Madras : Government Blind School, Poonamallee, Chingleput District; Government Blind School, Salem, Madras; School for the Blind & the Deaf, Teynampet, P.O. Cathedral, Madras; T.D.T.A. Blind Boys' School, Palayamkottai, Tirunelveli District; T.D.T.A. Blind Girls' School, Palayamkothai, Tirunelveli District; Tirupathur Blind School, Swedish Mission Hospital Post, Ramnad District.

Maharashtra : Blind Boys' Institute, Ajni Ambazari Road, Nagpur; Blind Home, Chembur, Bombay; Dadar School for the Blind, 160, Dadar Main Road, Bombay; Government School for the Blind, Bhandara; Government School for the Blind, Gangapur Road, Nasik; Happy Home & School for the Blind, 63, Pedder Road, Bombay; Haji Allarakha Andhakshi Ashrama, Bombay; Industrial Institute for the Blind, Deaf & Dumb, Nagpur; Muncherji Nowroji Banajee Industrial Home for the Blind, Jogeshwari, Bombay; N. S. D. Industrial Home for the Blind, D. D. Chawl No. 52, Worli, Bombay; Poona School & Home for the Blind, 14-17, Koregaon Park, Poona; Rambai Mukti Mission, Kedgaon, Poona District; Victoria Memorial School for the Blind, Tardeo, Bombay; Blind Men's Association, 177-79, Lamington Cross Road, Bombay; Blind Men's Association, Poona Branch, 6, Rastapeth, Poona 2; Blind Relief Association, Kalbadevi Road, Bombay 2; National Association for the Blind, 5, Mahatma Gandhi Road, Bombay 1.

Mysore : Blind School, Hubli; Government School for the Blind & Deaf Boys, Mysore; Government School for the Blind Girls, Mysore; Vocational Institute for Women at Mysore City with a Section for Blind Girls, Mysore.

Pondicherry : Industrial Training School for the Blind, C/o Blind Relief Association, 16, Marine Street. Pondicherry; Social Service Home for the Blind, C/o Blind Relief Association, 16, Marine Street, Pondicherry.

Punjab : Andh Vidyalaya, Bazar Kaseian, Amritsar; Chief Khalsa Devan, Central Khalsa Orphanage, Amritsar; Government Institute for the Blind, Panipat; Home for the Blind, Ferozpur; Institute for the Blind, Ambala Cantt., Punjab; Institute for the Blind, Bhiwani; Surma Singh Ashram, Amritsar.

Rajasthan : Government Home and School for the Blind, Adesh Nagar, Ajmer; Seth Anandi-Podar Institute for the Blind, Deaf & Dumb, Jaipur.

Saurashtra : School and Home for the Blind, Visavadar; Shri Andh Sarvoday Mandal (for girls), Military Adviser's Bungalow, Race Course, Rajkot.

Uttar Pradesh : Ahmedi School for the Blind, Civil Lines, Aligarh; Allahabad School and Home for the Blind, P.O. Naini, Allahabad; Andh Vidyalaya, 110-26, Nehru Nagar, Kanpur; Blind School, Bhadaini, Varanasi; Blind School attached to the Eye Hospital, Sitapur; Blind School attached to the Lucknow School for the Deaf & Dumb, Deaf & Dumb School Road, Aligarh, Lucknow; Government Blind, School, Gorakhpur; Kashi Seva Samiti Blind School, Varanasi; Kunwar Lal Singh Industrial School for the Blind, Katchari Road, Mainpuri; Madrasa Nabeena, Nageena, Bijnor; School for the Blind, Deaf & Dumb attached to the Hindu Orphanage, Kanpur; Sharp Memorial School for the Blind, Rajpur Road, Dehra Dun; Training Centre for the Adult Blind, President's Body Guard Lines, Rajpur Road, Dehra Dun.

West Bengal : Calcutta Blind School, P.O. Behala, Calcutta 23; Home for the Blind Students at Rama Krishna Mission, P.O. Narendrapur, 24 Parganas; Institute for the Blind, Kalimpong, Darjeeling; Light House for the Blind, 174, Shayama Prasad Mukerjee Road, Calcutta 26; Association for the Prevention of Blindness, 94, Chittaranjan Avenue, Calcutta.

CHURCHES IN INDIA

CATHOLIC CHURCH

India is divided into Dioceses and Prefectures Apostolic, which are grouped in 16 Ecclesiastical Provinces or Archdioceses, as follows :—Archdiocese of : 1. Agra with the Dioceses of Ajmer, Jaipur, Allahabad, Indore, Jhansi, Lucknow, Meerut and the Prefecture Apostolic of Banaras and Gorakhpur; 2. Bangalore with the Dioceses of Bellary, Mangalore, Mysore, Ootacamund; 3. Bombay with the Dioceses of Ahmedabad, Belgaum, Poona; 4. Calcutta with the Dioceses of Dibrugarh, Jalpaiguri, Krishnagar, Patna, Shillong and the Prefectures Apostolic of Bhagalpur, Haflong, Malda, and Sikkim; 5. Changanacherry (Syro-Malabar) with the Dioceses of Kottayam and Palai; 6. With the Diocese of Simla and the Prefectures Apostolic of Jammu-Kashmir and Jullundur; 7. Ernakulam (Syro-Malabar) with the Dioceses of Kothamangalam, Tellicherry and Trichur; 8. Goa and Damaun; 9. Hyderabad with Dioceses of Guntur, Nellore, Vijayawada, Visakhapatnam and Warangal; 10. Madras-Mylapore with the Dioceses of Coimbatore and Vellore; 11. Madurai with the Dioceses of Tiruchirapalli and Tuticorin; 12. Nagpur with the Dioceses of Amravati, Jabalpur, and Raigarh-Ambikapur; 13. Pondicherry and Cuddalore with the Dioceses of Kumbakonam, Salem, and Tangore; 14. Ranchi with the Dioceses of Cuttack and Sambalpur; 15. Trivandrum (Syro-Malankara) with the Diocese of Tiruvalla; 16. Verapoly with the Dioceses of Alleppey, Calicut, Cochin, Kottar, Quilon, Trivandrum (Latin), and Vijayapuram.

In all there are 16 Archdioceses (Metropolitan Sees), 49 Dioceses (Suffragan Sees) and 7 Prefectures Apostolic. At the head of an Ecclesiastical Province or Archdiocese there is an Archbishop; at the head of a Diocese there is a Bishop; and at the head of a Prefecture Apostolic there is a Prefect Apostolic.

The Apostolic Internuncio : His Excellency The Most Rev. Dr. James R. Knox (Apostolic Internunciature, Chanakya Puri, New Delhi 21).

The Cardinal : His Eminence Valerian Gracias, D.D., M.Agg. (Archbishop's House, Bombay 1).

Statistics : Number of Catholics : 5,932,937; Clergy (Foreign) : 1,412; Clergy (Indian) : 4,448; Colleges : 58; High Schools : 6,178; Technical & Industrial Schools : 137; Students in Colleges : 40,381; Students in Schools : 1,329,722; Hospitals : 132; Dispensaries : 407; Homes for the Aged : 97; Orphanages & Foundling Homes : 422; Leper Asylums : 7; Creches : 64; Rescue Homes : 6; Poor Homes : 20.

PROTESTANT CHURCHES

Below are given particulars about Protestant churches in India which may be of interest.

Places of Worship : 28,533; Ordained Ministers : National : 6,885; Foreign : 1,033; Laymen : National : 24,636; Foreign : 363; Women Foreign Workers : 1,426; Christian Colleges : 46; High Schools : 314; Industrial Schools : 42; Hospitals : 258; Leprosy Institutions : 49; Tuberculosis Sanatoria : 12; Homes for Blind, Deaf, etc. : 8; Homes for Women : 15; Orphanages : 85; Social & Welfare Organisations : 87.

Percentage of literacy for Protestants, 21·5 (1941 Census); Number of languages in which the scriptures (Protestant version) are available either wholly or in part, 86.

Assemblies of God

Assemblies of God in Great Britain and Ireland in India : Ashti P.O., Bhir Dist., *via* Ahmednagar, Gujarat.

Australian Assemblies of God Mission : Mission Bungalow, Khed, Taluka Khed, Poona Dist.

South India Assemblies of God : Bethel Bible School, Punalur P.O., Kerala.

Baptist Churches

Baptist Union of India, Pakistan, Burma and Ceylon : The Baptist Union of India, Pakistan, Burma and Ceylon came into being in 1937 in response to a widespread desire on the part of churches and missions of that order for closer co-operation and fellowships in their task.

The union functions as the representative of the affiliated churches and missions in relation to the National Christian Council, the Baptist World Alliance and in other ways that call for concerted voice and action.

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Address : Canadian Baptist Mission, Kakinada, East Godavari Dist., Andhra Pradesh.

Council of Baptist Churches in Northern India : 44, Lower Circular Road P.O., Park Street, Calcutta-16.

Baptist Union of North India : Collier Memorial Hostel, Bankipore, Patna.

Bengal Baptist Union : 95-A, Elliott Road, Calcutta-16.

South Mizo Presbytery, Assam (Zo Ram Baptist Church) : Baptist Mission, Lungbh, Mizo Dist., Assam.

Utkal Christian Church Central Council : Madhusudhan Road, Cuttack, Orissa.

United Christian Missionary Society : 336, Napier Town, Jabalpur, M.P.

Convention of Telugu Baptist Churches : A.B.M. Secondary Training School, Bapatla, Guntur Dist., Andhra Pradesh.

American Baptist Telugu Mission : C.A.M. High School Compound, Nellore, A.P.

Bengal-Orissa Baptist Yearly Meeting : Bhimpore P.O., Midnapore Dist., West Bengal.

Council of Baptist Churches in Assam and in Manipur : A. B. Mission, Gauhati, Assam.

Garo Baptist Union : Bagpara P.O., Bongaigaon, Goalpara Dist., Assam.

Baptist Union of Sweden : Narasaravupet, Guntur, Andhra Pradesh.

Mid Missions : Makunda, Hatikhira P.O., Cachar Dist., Assam.

North Bank Baptist Association : Biswanathghat, Darrang, Assam.

Baptist General Conference of America : Baptist Mission, Tezpur, Assam.

Convention of the Baptist Churches of the Northern Circars : McLawin High School, Kakinada P.O., E. Godavari, Andhra Pradesh.

Canadian Baptist Mission : Kakinada, Andhra Pradesh.

Goalpara Boro Baptist Church Union : Bengtol P.O., *via* Bongaigaon, Dist. Goalpara, Assam.

North Goalpara Garo Baptist Union : P.O. Bongaigaon, Dist. Goalpara, Assam.

Australian Baptist Foreign Mission Inc. : Bongaigaon, Goalpara Dist., Assam.

Tripura Baptist Christian Union : Arundhatinagar P.O., Agartala, Tripura.

New Zealand Baptist Missionary Society : Arundhatinagar, Agartala, Tripura.

Central India Baptist Mission : Elichpur, P.O., Amravati.

Freewill Baptist Mission : Krishnaganj, Purnea Dist., Bihar.

Strict Baptist Mission: Morupatti, Mettupalayam, Tiruchirapally.

Swedish Baptist Mission : Padrauna, Deoria Dist., U.P.

Christian & Missionary Alliance of India : Akola, Maharashtra.

Church of the Brethren

First District Church of the Brethren : Anklesvar, Broach District.

Second District Church of the Brethren : Ahwa, Dangs District.

The Joint Council Church of the Brethren : J. C. Office, Bulsar, Surat Dist.

General Brotherhood, Church of the Brethren (U.S.A.) : Mission House, Khergam, Surat Dist.

Churches of Christ

Conference of Churches of Christ in Western India : P.O. Box 26, Baramati, Dt. Poona.

Australian Churches of Christ Foreign Mission Board Inc. : Shrigonda, Ahmednagar Dt.

Convention of Churches of Christ : Jabalpur P.O., M.P.

Mandliyon Ki Pratinidhi Kamiti : Nawa Bhandaria, Palamau Dist., Bihar.

United Christian Missionary Society : B. D. 336, Napier Town, Jabalpur P.O., M.P.

Churches of Christ in Great Britain and Ireland, Missionary Committee : Nawa Bhandaria, Palamau District, Bihar.

Kulpahar Church of Christ Mission : Kulpahar, Hamirpur Dist., U.P.

Churches of God

American Churches of God Mission : Ulubaria, Howrah District, W. Bengal.

Church of God Mission (Orissa) : The Shelter, Cuttack, Orissa.

Church of God in South India : Giridupam, Chengannur, Kerala.

Church of God, Autonomous Churches in Assam, W. Bengal and Orissa : Goalapetty, Shillong, Assam.

Church of God in India : Mulakuzha, Chengannur, Kerala.

Church of God : P.B. 60, Coimbatore, Madras State.

Open Bible Church of God : Site No. 141, Tatabad, Coimbatore, Madras State.

The Church of India, Pakistan, Burma & Ceylon

Bishop's House, 51, Chowringhee Road, Calcutta-16.

Dioceses : Andamans and Nicobars (Car Nicobar); Assam (Diocesan Office, Shillong); Amritsar (Taylor Road, Amritsar, Punjab); Barrackpore (86, Middle Road, Barrackpore); Bhagalpur (Bishop's House, Champnagar, Bhagalpur, Bihar); Bombay (C.M.S. Office, Proctor Road, Bombay-7); Calcutta (51, Chowringhee Road, Calcutta-16); Chota Nagpur (Bishop's Lodge, Ranchi, Bihar); Delhi (1, Church Lane, New Delhi); East Bengal (St. Thomas' Church, Victoria Park, Dacca); Lucknow (Bishop's House, Mahatma Gandhi Road, Allahabad, U.P.); Nagpur (Cathedral House, Nagpur); Nasik (Nasik, Maharashtra); Nandyal (Nandyal, Kurnool, Andhra Pradesh).

Bible Churchmen's Missionary Society : Zenana Mission, Sigra, Banaras, U.P.

Cambridge Mission to Delhi : 1, Church Lane, New Delhi.

Christa Prema Seva Sangha : St. John's House, Colaba, Bombay-5.

Christa Seva Sangha : Poona.

Church Army : Bhagalpur, Champnagar, Bihar.

Missionary Society of the Anglican Church in Canada : Taylor Road, Amritsar, East Punjab.

Church Missionary Society : 86, Middle Road, Barrackpore, W. Bengal.

Cowley, Wantage and All Saints Missionary Association : Mission House, Panch Howd, Poona-2.

Dublin University Mission to Chota Nagpur : P.O. Box 5, Hazaribagh, Bihar.

Dublin University Mission, Ladies Auxiliary : Hazaribagh, Bihar.

Gondwana Mission : Patpara, Mandha, M.P.

Old Church Chinese Mission & Old Church Hebrew Mission : 11, Mission Row, Calcutta.

Oxford Mission to Calcutta : 42, Cornwallis St., Calcutta-6.

Scottish Episcopal Church Mission : Chanda M.P.

Society for the Propagation of the Gospel : S.P.G. Diocesan Office, St. John's House, Colaba, Bombay-5.

Bible and Medical Missionary Fellowship : Edgehill, Landour, Mussoorie, U.P.

The Church of South India

Moderator, Most Rev. H. Sumitra, B.A., Bishop in Rayalaseema, Gooty, Anantapur Dist., Andhra Pradesh.

Dioceses : Coimbatore (Diocesan Office, Coimbatore); Dornakal (Dornakal, Warangal Dist.); Kerala-North (Diocesan Office, Bank Road, Kozhikode); Kistna and West Godavari (Bishop's House, Eluru, W. Godavari Dist.); Madras (Diocesan Office, Cathedral P.O., Madras-6); Madurai and Ramnad (Mission Compound, Tirumanglam, Madurai Dist.); Medak (Bishop's House, Medak, Deccan); Mysore (2, Mission Road, Bangalore-2); Rayalaseema (Pulivendla, Cuddapah Dist.); Tirunelveli (Palamcotah, Tirunelveli Dist.); Travancore Central (Cathedral House, Kottayam, Kerala); Travancore South (Diocesan Office, Museum Road, Trivandrum 1, Kerala); Tiruchirapally-Tanjore (Diocesan Office, Puthur, Tiruchirapally).

American Board of Commissioners for Foreign Mission : American Marathi Mission, Sholapur.

Board of Foreign Missions of the Reformed Church in America : American Arcot Mission, Ranipet, N. Arcot Dist.

Basel Evangelical Missionary Society : Mangalore.

Church Missionary Society : C.M.S. College, Kottayam, Kerala State.

Indian Missionary Society of Tirunelveli : Palamcottah, Madras.

London Missionary Society : 18, Levelle Road, Bangalore-1.

Methodist Missionary Society : Mission House, Karim Nagar, Hyderabad-Dn.

Mulag Mission : Mulag, *via* Kazipet, Warangal Dist., Andhra Pradesh.

National Missionary Society of India : 102, Peter's Road, Royapettah, Madras.

Pakhal Mission : Nekonda, Warangal Dist., Andhra Pradesh.

Local Autonomous Churches

Throughout the country there are a large number of local churches, generally of a congregational order, which are fully autonomous

This group consists of hundreds of local independent churches or assemblies on the simple N.T. pattern throughout India, having no common centralised set up but maintaining close fellowship with one another. Most of these were established through the faithful labours of Indian Nationals.

'Elim', Musheerabad Road, Hyderabad, A.P.

Other Groups

Some of the other Independent Churches have been unified under two organisations :

(1) THE ALL INDIA FEDERATION OF NATIONAL CHURCHES with Rev. R. S. Modak as President and Rev. R. S. Williams as General Secretary.

(2) THE FELLOWSHIP OF CHRIST IN INDIA—BHARAT CHRIST SANGH—in Northeast India with the Rev. B. D. Roy, M.A., B.T., Dip. Ed. (Bristol) as President and the Rev. R. C. Das, M.A., as Executive Secretary.

These aim at creating an independent and indigenous church in India. At present there is no formal inter-relation. There is however a fellowship, and sometimes some co-operation.

Lutheran Churches

Federation of Evangelical Lutheran Churches in India : is an expression of the spiritual unity of the Lutheran churches.

The Federation started in July 1953, a Theological College in Madras in which 8 of its constituent bodies now co-operate. This institution is named as *The Gurukul Lutheran Theological College and Research Institute*, and directs its course of study to the B.D. degree. A further aim is graded research in both Christian and non-Christian religions against the Indian background. It has a governing council of 11 members and is established at Gurukul, Madras 10.

Andhra Evangelical Lutheran Church : Guntur, Andhra Pradesh.

United Lutheran Church in America : Chirala, Guntur Dt.

National Missionary Society of India : M.N.S. House, 102, Peter's Road, Royapettah, Madras.

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Arcot Lutheran Church: Pugh's Road, Cuddalore, South Arcot Dist., Madras State.

Danish Missionary Society: Arcot Lutheran Church, Kallakurichi, S. Arcot.

Ebenezer Evangelical Lutheran Church: Benagaria P.O., Santal Parganas, Bihar.

Santal Mission of the Northern Churches: Dumka P.O., Santal Parganas, Bihar.

Evangelical Lutheran Church in Madhya Pradesh: Saugor, M.P.

Evangelical National Missionary Society of Stockholm: Chindwara, M.P.

East Jeypore Evangelical Lutheran Church: Gunupur, Koraput Dist., Orissa.

Gossner Evangelical Lutheran Church: Ranchi, Bihar.

India Evangelical Lutheran Church: Concordia Seminary, Nagercoil, Madras State.

Jeypore Evangelical Lutheran Church including Shelm: Jeypore, Koraput Dist., Orissa.

South Andhra Lutheran Church: Nayudupet, Nellore Dist.

Tamil Evangelical Lutheran Church: C.M.O. Moses Gnanabaranam Eye Hospital, Coimbatore.

Church of Sweden Mission: Margaret Cottage, Avanashi Road, Coimbatore.

Elim Churches

Elim Churches of India: Dudhi, Mirzapur Dist., U.P.

Elim Church (New Zealand): Karmala P.O., Sholapur Dist.

The Evangelical Alliance Mission: Parola, *East Khandesh.

Mennonite Churches

Mennonite Church in India: Dhamtari P.O., Raipur District, M.P.

Telugu Mennonite Brethren Convention and American Mennonite Brethren Mission: Shamshabad, Hyderabad Dist., Andhra.

Mennonite Brethren Churches of North America: Medical Centre, Jadcherla, Andhra Pradesh.

General Conference Mennonite Church: Jagdeeshpur P.O., *via* Mahasamund, Raipur Dist., M.P.

Danish Missionary Society: Gunupur, Koraput Dist., Orissa.

The Methodist Church

The Methodist Church of North India: P.O. Garh-Raipur, Bankura Dist., W. Bengal.

Methodist Missionary Society: Wesley House, 62, The Causeway, Bombay-1.

Methodist Overseas Mission: Azamgarh, U.P.

The Methodist Church in Southern Asia: 3, Wesley Road, Jabalpur.

Wesleyan Methodist Church, India Conference: Pardi, Surat Dist.

Wesleyan Methodist Church of America Missionary Society: Pardi, Surat Dist.

Free Methodist Church of North America, General Missionary Board: Garden Bungalow, Yeotmal.

Pentecostal Churches

Ceylon Pentecostal Mission: 48, Main Road, Royapuram, Madras.

India Christian Assemblies (Finnish Pentecostal Mission): Chilakalapudi, Krishna Dist.

Indian Pentecostal Church of God: The Indian Pentecostal Church of God is a group of indigenous independent churches established since 1924 in several parts of India and having fellowship with one another. It has no foreign mission control. The government of the church rests with the council of ministers elected yearly by the general body. This group sends forth Indian nationals as missionaries even to other lands.

Address: Faith Home, Vijayawada 2, Andhra.

Maisihi Mandli (Autonomous and Indigenous Church): Dehra Dun, U.P.

Pentecostal Holiness Church: Madhupur, Santal Parganas, Bihar.

Swedish Free Mission: 25, New Cantt. Road, Dehra Dun, U.P.

United Pentecostal Church: Box 347, Kanpur, U.P.

The Presbyterian Church

Bible Presbyterian Church of India: Box 347, Kanpur, U.P.

Canadian Presbyterian Mission: Amkhut, *via* Dohad, M.P.

Independent Board for Presbyterian Mission: Box 347, Kanpur, U.P.

Reformed Presbyterian Mission: Roorkee, U.P.

Presbyterian Church of Ireland Foreign Mission: I. P. Mission, Parantij, Sabarkantha Dist.

Presbyterian Church of Wales Foreign Mission: Theological College, Cherrapunji, Assam.

Church of Moravian Brethren: Leh-Ladakh, Kashmir.

Presbyterian Church of New Zealand Mission: Committee, U.N.C.I. Compound, Ferozepur Cantt., Punjab.

Seventh Day Adventist Church
(Salisbury Park, Poona).

See under 'Christian Missions' for detailed note.

Syrian and Armenian Churches

The Apostolic Holy Church of Armenia: The church of the first nation to become Christian. Efforts to evangelise date from A.D. 34 (Thaddeus and Bartholomew). The See of Edgmiatzen (near Eravan) dates from A.D. 300. In Calcutta the oldest church belongs to the Armenians—The Holi Church of Nazareth (1704); there are a college and Girls' High School also. Other churches in India are in Bombay, Surat, Saidabad, Madras, Chinsurah and Agra.

Apostolic Legation of the Holy See of Antioch in Malabar: Omallur, Kaipattur P.O., Kerala.

Chaldean Syrian Church: Church of the East, Trichur, Kerala State.

Mar Thoma Syrian Church: Sabha Office, P.O. Thiruvalla, Kerala State.

Mar Thoma Syrian Christian Evangelic Association of Malabar: Thiruvalla, Kerala.

Orthodox Syrian Church: Old Seminary, Kottayam, Kerala.

The Orthodox Syrian Church of Malabar: Kottayam, Kerala State.

Malabar Independent Syrian Church: Thozhiyoor, Kottapadi, S. Malabar, Kerala State.

Malankara Syrian Knanaya Diocese: Mar Ephraim Seminary, Chingavanam P.O., Kerala.

Malankara Jacobite Syrian Church: Thrikkunnath Seminary, Alwaye, Kerala.

United Basel Mission Church

Address: Balmatta, Mangalore-1.

The United Church of Northern India
16, Boulevard Road, Delhi 8.

This church is the union of the churches formed through the work and witness of the following missions in Northern India.

Missions: American Evangelical Mission of the Evangelical and Reformed Church; American Marathi Mission of the American Board of Commissioners for Foreign Missions; American Presbyterian Mission; Canadian Presbyterian Mission; Church of Scotland Mission; Irish Presbyterian Mission; London Missionary Society; English Presbyterian Mission; New Zealand Presbyterian Mission; United Church of Canada Mission; Welsh Presbyterian Mission; Church of the Unity of the Brethren.

American Evangelical Mission of the Reformed Church: Raipur, M.P.

American Board of Commissions for Foreign Missions: Staveley Road, Poona-1.

Commission on Ecumenical Mission and Relations of the United Presbyterian Church in the U.S.A.: 'Lowriston', Dehra Dun (U.P.).

Board of Christian Institutions: Civil Lines, Raipur, M.P.

London Missionary Society, Calcutta: 136, Dharamtala St., Calcutta-13.

CHRISTIAN MISSIONS IN INDIA

Foreign and national missionaries in India received: July-Dec. 1958: Rs. 484 lakhs; Jan.-June 1959: Rs. 506·3 lakhs.

The number of registered foreign missionaries in India, also, shows a decline over the years 1956 to 1959. The number, which was 5,691 in January, 1956, fell to 5,511 in January, 1957, and 4,844 in January, 1958. In 1959 it was 4,802.

BAPTIST SOCIETIES

Baptist Missionary Society of Great Britain.

India Secretary: Rev. R. C. Cowling, B.A., B.D., 44, Lower Circular Road, Calcutta 16.

The Headquarters of the Mission are at 93-95, Gloucester Place, London, W. 1.

Canadian Baptist Mission.

Secretary: Miss Edith G. Mann, Avanigadda, Krishna Dist.

Telegram: "Mission", Avanigadda.

American Baptist Mission, Gauhati, Assam.

Secretary: Rev. R. G. Beers.

Treasurer: C. C. Jones.

Council of Baptist Churches in Northern India.

Secretary: Rev. B. Pradhan, B.A., B.D., C/o 44, Lower Circular Road, Calcutta 16.

Council of Baptist Churches in North-East India, Gauhati, Assam.

Field Secretary: Edward Singha.

Treasurer: C. C. Jones.

American Baptist Bengal-Orissa Mission.

Secretary: Rev. C. C. Roadarmel, Midnapore, W. Bengal.

American Baptist Telugu Mission.

Secretary: Rev. Edwin Erickson, C. A. M. High School, Nellore, A.P.

The Australian Baptist Missionary Society.

Secretary: Rev. P. N. Ewing, Tukrajhar, Bengal, *via* Bongaigaon, Goalpara, Assam.

Central India Baptist Mission.

Ellichpur, Amravati Dist., Maharashtra.

Chairman: F. G. Kurtz.

Strict Baptist Mission.

Secretary: Rev. George F. Champion, Morupatti, Mettupalayam, Tiruchirapalli Dist. *Treasurer:* Rev. D. A. Thrower, "Lyle Cottage", Kotagiri, Nilgiris.

PRESBYTERIAN SOCIETIES

Board of Christian Institutions.

Chairman: Rev. Wm. Baur, Civil Lines, Raipur, M.P.

* Now called Jalgaon.

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Basel Mission.
Field Secretary: Rev. A. Veigal, Balmatta, Mangalore 1.

Irish Presbyterian Mission, Surat.
Secretary: John Warner, I. P. Mission, Borsad, Kaira Dist., Gujarat.

Canadian Presbyterian Mission.
Secretary: Miss A. B. Scott, Amkhut, Madhya Pradesh, *via* Dohad.
Secretary (Jhansi section): Rev. A. Mackay, C.P. Mission, Jhansi, U.P.

Church of Scotland Mission.
Superintendent: Rev. T. E. Robertson, M.A., B.D., ch. of sc., Seoni, M.P.

Free Church of Scotland Mission.
Field Secretary: Miss M. A. Macdonald, Lakhnadon, Seoni Dt., M.P.

United Presbyterian Church in the U.S.A. in association with the United Church of Northern India.
Commission Representative:—The Rev. Calvin H. Hazlett, 16, Boulevard Road, Delhi S.
Secretary, India Council:—The Rev. Gordon M. Ruff, 51, Rajpur Road, Dehra Dun, U.P.
Secretary, Kolhapur Church Council:—The Rev. R. S. Bhandare, Church Council House, Kolhapur, Maharashtra.
Secretary, North India Synod:—The Rev. B. N. Lall, Church House, Mainpuri, U.P.
Secretary, Punjab Synod:—The Rev. John A. Peters, United Church Compound, Ludhiana, Punjab.

Welsh Presbyterian Mission.
Field Secretaries:—Miss W. A. Thomas, Sylhet, E. Pakistan; Rev. E. Adams, Shillong, Assam.

CONGREGATIONAL SOCIETIES

American Marathi Mission.
C/o Intermission Business Office, 364, Dr. Dadabhoy Naoroji Road, Bombay-1.
Secretary: Rev. E. Loleta Wood.

Diocese of Madura and Ramnad, Church of South India.
Bishop—Rt. Rev. George Devadoss, Madurai.
Secretaries:—Rev. Paulraj Thomas, Pasumalai; B. Ratnaswamy, Mathurai.

The Evangelical Alliance Mission.
Western India Headquarters:—Amalner, Jalgaon District.
Chairman:—Rev. Earl C. Conrad.
Secretary:—Rev. Royal Paddock, Pimpalner, Dhulia District.

London Missionary Society.
The headquarters of the world-wide work of the L.M.S. are at Livingstone House, 11, Carteret St., London, S.W. 1, U.K.
Correspondent in Bengal: Miss M. Cumber, 1, Ballygunge Circular Rd., Calcutta 19.

Mission Covenant Church of Sweden.
Field Secretary: Rev. George O. Roberntz, 29, Souter Street, Bombay-8.

Swedish Hindustani Mission.
Secretary: Rev. George O. Roberntz, 29, Souter St., Bombay-8.

LUTHERAN SOCIETIES

Andhra Lutheran Conference.
President: Rev. C. W. Oberdorfer, D.D., Gudur, Nellore Dist., A.P.

Andhra Evangelical Lutheran Church.
President: Rev. W. P. Peery, Luthergiri, Rajahmundry.
Vice-President: Rev. W. P. Peery, Luthergiri, Rajahmundry.
Secretary: T. John Ratnam, Springfield, Narsapur, W. Godavari Dist.
Treasurer: E. E. Nabert, Guntur.

The Council of the India Mission of the United Lutheran Church in America.
President: Rev. William P. Peery, Luthergiri, Rajahmundry.
Vice-President: Rev. Robert S. Oberly, Riverdale, Rajahmundry.
Secretary: Miss Ruth Sigmon, Krupavaram, Tenali, Guntur Dist.
Treasurer: E. Edwin Nabert, Box 31, Guntur.

Evangelical Lutheran Church, Madhya Pradesh.
President:—Rev. E. Raman, Sagar, Madhya Pradesh.

Federation of Evangelical Lutheran Churches in India.
President:—Dr. A. N. Gopal, P. B. No. 2, Guntur.
Vice-President:—The Rev. E. Raman, Sagar, M.P.
Secretary:—Kondpan, Jeypore, Koraput Dt., Orissa.
Treasurer:—M. D. Solomon, Tranquebar House, Tiruchirapally.

There is a liaison officer between the Federation of Evangelical Lutheran Churches in India and the Lutheran World Federation to distribute financial assistance to Orphanned Missions and Churches coming from abroad.

There is an institution named The Gurukul Lutheran Theological College and Research Institute in Madras; it points its course of study to the granting of B.D. degree.

A further aim is graded research in both Christian and non-Christian religions against the Indian background.

The Theological College has a governing council of 11 members and is established at Gurukul, Purasawalkam High Road, Kilpauk, Madras-10.

Its Officers are:

President:—The Rt. Rev. R. B. Manikam, Ph.D., Bishop of Tranquebar, Tiruchirapalli, S. India.
Secretary and Principal of College:—The Rev. P. David, M.A., Ph.D., 'Gurukul', Kilpauk, Madras-10.

Church of Sweden Mission.
Field Secretary:—Miss E. Nordmark, Usitampatti, Madurai Dist.
Treasurer:—Miss Marie Habak, P.B. No. 92, Arasaradi, Madurai 10.

Tamil Evangelical Lutheran Church.—Organised Churches (Pastorates) 60; Ordained Indian Ministers 64; Other Indian workers 165; Baptized membership 57,404; Schools 174; Teaching staff 1,067; Pupils: Boys 20,212; Girls 11,870.

President:—Rt. Rev. Dr. R. B. Manikam, M.A., B.D., Ph.D., D.D., S.T.D., Bishop of Tranquebar, "Tranquebar House", Tiruchirapalli, S. India.

India Evangelical Lutheran Church.
General Secretary: Rev. B. H. Jackayya, Concordia Seminary, Nagercoil, Kanya Kumari District, S. India.

Missouri Evangelical Lutheran India Mission (M.E.L.I.M.) and Church.
General Secretary:—Rev. Theo. A. Michalk, Krishnagiri, Salem District, S. India.

Santal Mission of the Northern Churches.
Secretary, Rev. A. E. Stronstad, Dumka, Santal Parganas, Bihar.

Arcot Lutheran Church.
President:—Rev. Dorairaj Peter, B.A., LTh., Carmel, Tiruvannamalai, North Arcot Dist.
Secretary:—Dr. R. V. David, L.P.C. & S., Santi Nilayam, Vriddachalam, S. Arcot Dt.
Treasurer:—John Nallathambi, B.A., 14, Rundalls Road, Madras-7.

INTER-DENOMINATIONAL MISSIONS

Bible and Missionary Medical Fellowship.
President:—The Lady Kinnaird.
Secretary:—R. F. S. Hills.
Hon. Treasurer:—Major Mainwaring Burton.
Field Secretary:—A. E. Norrish, Edgehill, Landour P.O., Mussoorie, U.P.

The Mission to Lepers.
The Indian Auxiliary of The Mission to Lepers. Hon. Treasurers are—J. A. W. Thomson, C/o Messrs. Macneill Barry Ltd., 2, Fairlie Place, Calcutta and P. D. C. R. Clark, C/o Messrs. Killick Industries, Ltd., Bombay.

The General Secretary of the Mission is Rev. W. H. Russell, B.A., 7, Bloomsbury Square, London, W.C.1. The Secretary for Southern Asia is William Bailey, M.A., Purulia (S.E. Rly.), West Bengal.

National Missionary Society of India.
The Office-bearers for the present triennium:—

The Rt. Rev. J. W. Sadiq, Nagpur (*President*); Bishop Philipose Mar Chrysostom, Tiruvalla (Kerala); Bishop Mangal Singh (Bombay); Rev. Dr. G. Devasahayam, Guntur; Mrs. M. Krishnayya, Poona; Dr. G. Zachariah, Madras (*Vice-Presidents*); J. B. Masillamani, Madras (*Hon. Treasurer*); Dr. A. C. Abraham (*Hon. Gen. Secretary*); S. Devaprasad, Rev. Paul Das (*Hon. Associate Gen. Secretaries*); Rev. S. Gnanasundaramani (*Office Secretary*); Mark Sunder Rao (*General Secretary*).

Address:—N. M. S. House, Royapettah, Madras.

The Society of Friends (Quakers).—The Society of Friends (Quakers) carries out its overseas work through the Friends Service Council of London. Yearly meeting with headquarters in Euston Road, London, N.W.1. and through the American Friends' Service Committee with headquarters at 160, North 15th Street, Philadelphia, U.S.A.

International Centres at 24, Rajpur Road, Delhi and 21, Noor Fata Lane, Dhakeswari Road, Dacca, E. Pakistan for promoting religious and international understanding and furthering educational and social work. Also Calcutta Office at 211, Park Street, Calcutta-17.

All-India Fellowship Training Ashram (Ashram Training Village Workers).
Chief Worker: Mrs. P. Sircar, Pirumadara P.O., Nainital District, U.P.

Christa Seva Vidyalaya.
(Training College for Women Church Workers of advanced Education).
Secretary: Miss O. M. Valentine, B.A., 7/2, College Road, Nungambakkam, Madras.

Dohnavur Fellowship.
Secretary: V. Thyagaraj Ananda, Dohnavur, Tirunelveli Dt., S. India.

Hospital.
Medical Officers: Miss C. A. Rogan, M.B.Ch.B.; G. B. R. Walkey, F.R.C.S.

India Sunday School Union.
Coonoor, Nilgiris.
President:—Bishop S. K. Mondol, D.D.; *Treasurer:* Rev. F. P. D. Penning; *Adm. Secretary:*—V. M. Koshy.

Nasrapur Spiritual Life Centre Fellowship.
Director: Rev. Bruce K. Munro, Spiritual Life Centre, Nasrapur, Poona Dist.

Old Church Hebrew Mission.
Missioner: Rev. R. W. Bowie; *Hon. Secretary:* Rev. G. H. Howlett, B.D., 11, Mission Row, Calcutta 1.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

Student Christian Movement of India.
S.C.M. House, 2-E, Mission Road, Bangalore 2.
(Affiliated to the World's Student Christian Federation).
Gen. Secretary : G. R. Karat, M.A.
The Student Christian Movement of India works amongst the students in Indian universities and has at present 150 local unions.

Missionary Settlement for University Women.
Warden :—Miss H. D. Hunt, B.A., University Settlement, Reynolds Road, Byculla, Bombay 8.
Staff :—Miss E. D. Mason, B.A., M.A., Ph.D., D.Sc. ; Miss R. Gurupatham ; Miss M. Thomas, B.A., Soc., Sci.Dip.

Ramabai Mukti Mission.
The main departments are : A Girls' Orphanage, School, Home and School for the Blind, Medical, Agricultural and Rescue Home.
Superintendent, Secretary and Treasurer :—Miss G. O. Fletcher, R. M. Mission, Kedgaon, Poona District.

MISCELLANEOUS

Advent Christian Denomination, Woman's House and Foreign Missionary Society.
Chairman: Rev. F. B. Clothey, D.D., American Advent Mission, Velacheri, Madras-16.

American Churches of God Mission.
Mission House, Ulubaria, Howrah District, West Bengal.

American Friends' Mission.
Superintendent : W. E. DeVol, M.D., F.A.C.S., Chhatarpur, Madhya Pradesh.

Apostolic Church.
Secretary : Miss L. Tutt, 4, Viviani Road, Bangalore-5.

Behat Village Mission.
Secretary : Rev. G. C. Massey, Mission House, Behat P.O., Saharanpur Dist., U.P.

Bharat Evangelical Mission.
Superintending Missionary : Hubert Edwards, B.E.M. Mission, 41, Main Road, St. Thomas Mount, Madras-16.

Boys' Christian Home Mission.
Secretary : Rev. L. E. Hartman, Dhond, Poona Dist.

Brethren in Christ Mission.
Superintendent, Secretary-Treasurer : Rev. William R. Hoke, P.O. Saharsa, N.E. Rly., Saharsa Dist., Bihar.

Buchanan Memorial Orphanage
P.O Box 1302, St. Thomas' Mount, Madras-16.
Founder Director : Shakespeare M. Edwards.
Secretary : Mabel Shakespeare.

Central Asian Mission.
Representative : M. H. Mazzoni, The Mission Hospital, Manali, Kulu Valley, Punjab.

Child Evangelism Fellowship
Field Secretary : Edith D. Eastling, C. M. House, Proctor Road, Bombay 7.

Children's Special Service Mission
Secretary : Rev. Paul Das, C/o The N.I.C. Tract and Book Society, 18, Clive Road, Allahabad-1.

Chowpatta Agricultural and Industrial Mission,
Berenag P.O., *Via* Almora, Kumaon, U.P.

Christian and Missionary Alliance.—Dates from the year 1892 under the name of the International Missionary Alliance, but a number of its missionaries were at work in the area of Berar much earlier. Work is carried on in the areas of Berar and Khandesh. There is a staff of 39 missionaries and 22 Indian workers. The number of mission stations is 11, with additional out-stations. There is a Christian community of 5,600. There are 2 boarding schools, one for boys and one for girls, 2 training schools for Indian workers. There are 33 organized congregations, including one English at Bhusawal.
Chairman :—The Rev. A. C. Eicher, Akola, Maharashtra.
Work in the Gujarat field is carried out from Mission House, Mehmedabad, Kaira Dt.—Rev. K. H. Kose.

Church of the Brethren (American).
Secretaries :—E. M. Zigler, 364, Dr. Dadabhai Naoroji Road, Bombay 1 ; S. P. Bhagat, Mission House, Anklesvar, Broach District.

Church of the Nazarene Mission.
Mission Chairman :—Rev. C. Cleve James, Mission House, Chikhli, Buldana Dt., Maharashtra.

Church of the General Board of the Nazarene
Mehkar, Buldana District, Maharashtra.

Church of South India.
Superintendent :—Rev. N. Samuel, Adoni, Kurnool Dist., Andhra Pradesh (Rayalaseema Diocese).

Dipti Mission.
Superintendent : Mrs. Ke. M. Clemence, M.A., B.Ed., Sahibganj, Bihar.

Disciples of Christ India Mission.
Secretary : Rev. K. L. Potee, 336, Napier Town, Jabalpur, M.P.

Evangelical Missionary Society in Mayurbhanj.
Field Secretary : Oswald Lahey, Baripada, Mayurbhanj Dist., Orissa.

Free Church of Finland Mission.
Field Secretary :—Miss Rutta Sikanen, Ghoom, Darjeeling, West Bengal.

Helen Clarke Children's Home.
(Christian Children's Fund Inc.)
Superintendent :—Johnson Edwards, The Orphanage, Near Paper Mills, Rajahmundry, Andhra Pradesh.

Home Missionary Society of India.
This Society is the organized endeavour of the Anglo-Indian Community. A school for underprivileged girls in Coonoor called 'Mountain Home School' is run by the Society.
Secretary and Treasurer :—Mrs. K. Mc. Dermott, 22, Stephens Road, Frazer Town, Bangalore-5.

World Mission to Children
Field Director :—Walter Faszer, House of Praise, Hoskote, Bangalore Dist.

House of Worship
Secretaries :—Miss J. D. Watson; Miss M. Alderson, Bethamangala, Kolar Dt., Mysore State.

India Christian Mission.
Champawat P.O., Almora Dist., U.P.

India Gospel Fellowship Mission.
Secretary :—Rev. J. Darashah, Mount Zion, Ketti, Nilgiris.

India Industrial Mission.
Cossipore, Calcutta-2.

India United Evangelical Mission.
The Mission has four Chapels, five day schools and one dispensary, all in Bangalore area.
Field Secretary :—Miss Isabel L. Pettit, 5, Cline Road, Cooke Town, Bangalore-5.

Interior India Mission.
Field Secretary :—Rev. S. L. Rassmann, Bahraich, U.P.

India Mission.
Trimulgherry, Hyderabad Dist., A.P.

Ladakh Moravian Mission.
(Under the British Mission Board of the Moravian Church).
Field Secretary and Warden :—Standziu Razu, Leh, Ladakh, Kashmir.

Lakher Pioneer Mission.
Field Secretary :—Rev. A. B. Lorrain Foxall, P.O. Sekkawr, South Mizo Dist., Assam.

Metropolitan Church Association.
P.O. Siwait, Allahabad Dist., U.P.

Mission to Indian Villages.
Secretary :—Rev. Mrs. C. Benfield, Latur, Osmanabad, Marathwada.

Missionary Bands in India
Field Secretary :—Rev. J. Hanson, Raj Nandgaon, Drug Dist., M. P.

Nepal Evangelistic Band.
Secretary :—Miss J. H. Raddon, Christian Dispensary, Nautanwa, Gorakhpur, U.P.

Elim Full Gospel Church.
Arthur Bunder Road, Colaba, Bombay-5, and Karmala District, Sholapur.
ELIM Church (Inc. in New Zealand).
Field Director :—H. M. Jenkins, Box No. 13, Ahmednagar.

North East India General Mission.
Compound Superintendent :—Nengzachin, P.O. Mission Compound, Churachandpur, Manipur.

North India Christian Litrature Society.
18, Clive Road, Allahabad.
Secretary :—Rev. Paul Das, B.A., B.T.I. (Glasgow).

Norwegian Free Evangelical Mission.
N.F.E.M., Banda, U.P.

Oriental Missionary Society.
Director for India :—Dr. W. Duewel, 20, Stanley Rd., Allahabad, U.P.

Pilgrims Mission.
Superintendent :—Mrs. M. C. Norton, Pilgrims Mission, Varanasi Cantt., U.P.

Poona and Indian Village Mission.
Mission Headquarters, 10, Napier Road, Poona-1.
Chairman :—Major R. P. D. Snow.
Secretary :—E. K. Pattemore.

Reformed Episcopal Church of America Board of Foreign Mission.
Lalitpur, Jhansi Dist., U.P.

Regions Beyond Missionary Union.
Field Superintendent :—E. W. Oliver, Mission House, Motihari, Champaran Dist., Bihar.

Rural Gospel and Medical Mission of India Inc.
Khardi, Thana Dist.

Swedish Alliance Mission.
Secretary :—Rev. P. H. Oscarsson, Nandurbar, Dhulia District, Maharashtra.

Swedish Women Missionary Society.
E. Pihlquist, Dinhatta P.O., Cooch Behar, *West Bengal.

United Missionary Society.
Field Superintendent :—Rev. John H. Blosser, P.O. Rangadih, Purulia Dist., W. Bengal.

Woman's Union Missionary Society.
Secretary :—Dr. Gertrude J. Smith, M.D., Broadwell Hospital, Fatehpur, U.P.

World Gospel Mission.
Superintendent :—Rev. C. S. Dewey, P.O. Box 20, Bangarapet, Mysore State.

* Rev. C. Hodne, Field Secretary, would return to Cooch Behar in 1961.

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World Mission Prayer League, Inc.

Field Chairman :—Roy P. Hagen, Mission House, Darjeeling, W. Bengal.

Youth for Christ India.

Mherwan Bldg., Sir P. M. Road, Bombay-1.

Free Methodist Mission of North America.

This mission was founded in 1892. It now has 26 Churches, 1,569 members, and 43 workers.

Field Superintendent :—Dr. Frank J. Kline, Union Biblical Seminary, Yeotmal, Maharashtra.

Methodist Missionary Society in Southern Asia.

The India Methodist Missionary Society is an indigenous organisation connected with the Methodist Church in Southern Asia. Its funds are raised in India and carries on missionary work at Sasaram in Shahabad District, Bihar. The Society sent its first Indian Missionary couple to Sarawak in July 1958.

Secretary :—Dr. Geo S. Sahai, Leonard Theological College, Jabalpur, M.P.

Methodist Youth Fellowship.

This is the official organisation of the Methodist Church in Southern Asia for Youth work.

Secretary :—Rev. Elia Peter, Leonard Theological College, Jabalpur, M.P.

SEVENTH-DAY ADVENTIST CHURCH

Southern Asia Division.

Seventh-day Adventist Church—Western India (Pastor G. W. Maywald, President). *Office Address* :—16, Club Road, Byculla, Bombay 8. P.O. Box 4565.

Seventh-day Adventist Church—Burma. (Pastor C. B. Guild, President). *Office Address*: 68, U Wisara Road, Rangoon, Burma, Post Box 977.

Seventh-day Adventist Church—North-east India. (Pastor W. F. Storz, President). *Office Address* : Karmatar, Bihar.

Seventh-day Adventist Church—North-western India (Pastor A. J. Johanson, President). *Office Address* : 27, Barakhamba Road, New Delhi 1.

Seventh-day Adventist Church—South India. (Pastor E. L. Sorensen, President). *Office Address*: 9, Cunningham Road, Bangalore. P.O. Box 20.

Seventh-day Adventist Church—Pakistan. (Pastor C. H. Hamel, President). *Address* : 32, Mozang Road, Lahore, Post Box 32.

Seventh-day. Adventist Church—Ceylon (Pastor E. C. Beck, President). *Office Address* : 15, Alfred House Gardens, Colombo 3. P.O. Box 1253.

The general headquarters for India, Pakistan, Burma and Ceylon are located at Salisbury Park, Poona. O. O. Mattison, President ; D. S. Johnson, Secretary ; M. E. Kemmerer, Treasurer. (Office Address : Post Box 15, Poona.)

SALVATION ARMY

The work of the Salvation Army in India and Ceylon was commenced in 1882 by the late Commissioner Booth-Tucker and was for many years under his control, with Headquarters in India. For some time now, the areas occupied have been divided for administrative purposes into 6 Territories, each under a Territorial Commander ; and one smaller Command. The headquarters for Pakistan are at Lahore.

North-Eastern Territory, with Headquarters at Calcutta.

Western Territory, with Headquarters at Bombay.

Madras and Andhra Territory, with Headquarters at Madras.

Southern Territory, with Headquarters at Trivandrum, in Kerala.

Ceylon Territory, with Headquarters at Colombo.

Burma Command, with Headquarters at Rangoon.

The Audit and Editorial office is at Poona.

The Commanders are directly responsible to the International Headquarters in London.

North-Eastern Territory.—The area in this Territory is the Salvation Army work in the Punjab (India), Uttar Pradesh, Orissa, Bengal. Assam, Bihar, Manipur and Cachar.

Evangelistic work is extensively carried on.

Medical work is carried on in one Hospital which is in Dhariwal, Punjab and also dispensaries.

There are boarding and day schools, Social Service Centre in Calcutta, a Young Women's Hostel, and orphanages for both girls and boys.

Village centres at which the S. A. works	2,112
Officers and Employees	569
Social Institutions	11
Boarding and day schools	11
Hospital	1
Guest House	1

Territorial Headquarters : 37, Dharamtala Street, Calcutta 12.

Territorial Commander :—Lt. Commissioner Joseph Dayha.

Madras and Andhra Territory.—Embraces Madras City, the central and northern districts of Madras, Andhra Pradesh and Madhya Pradesh. 350 fully commissioned officers and 250 workers are fully occupied in evangelical, educational and village uplift work carried on in just over 334 villages, a high school with hostels for boys and girls, a Training Institute for men and women selected for officership ; agricultural settlement of 2,500 men, women and children —many work at Chirala, the others on the land. A Leprosy Hospital, General Hospital, a Social Services Department where wastepaper sorting, etc. is carried on, and a Women's and Children's Home in Madras complete the list of institutions where work is going forward.

Territorial Headquarters :—The Salvation Army, 1C, Ritherdon Road, P.O. Box 453, Vepery, Madras 7.

Territorial Commander :—Colonel Laurence Fletcher.

General Secretary :—Lieut. Col. P. Bhushanam.

Southern India Territory.—The Territorial Headquarters is in Trivandrum in Kerala State.

In 1,165 Corps and Centres of work, the majority of officers labour among the village population. The Army has a membership in South India of 95,401.

This territory is divided, for administrative purposes into 15 divisions, 6 among the Tamil-speaking people and 9 among those who speak Malayalam.

The Catherine Booth Hospital at Nagercoll, is now a fully equipped, modern institution of many departments, dealing with all types of medical and surgical cases. The Hospital is equipped with X-Ray, radium, iron lung and excellent nursing facilities. Branch Hospitals carry the service to some of the most remote regions. 160,050 patients were treated during 1958 in the Catherine Booth Hospital and its several branches and 2,738 major operations and 4,842 minor operations were performed. The Evangeline Booth Leper Hospital at Puthencruz in north Travancore, accommodates 200 patients. These institutions carry on work in accordance with the highest traditions of Christian service.

Staff in the Territory consist of 1,066 officers 400 employees. There are, 407 Officered Corps and 108 societies, 29 primary day schools, 2 boarding schools, 1 middle school, 1 high school, 1 training college, 607 outposts, 1 women's industry.

Territorial Headquarters :—Kowdiyar, Trivandrum 3.

Territorial Commander :—Col. Donal A. Sanjivi.

Chief Secretary :—Lt. Colonel John W. Blake.

Western India Territory.—This territory comprises Corps 242 ; Outposts 760 ; Social Institutions 14 ; Day Schools 76 ; Boarding Schools 2 ; Training Colleges 2.

Besides the evangelical operations there are in this Territory, two large Hospitals, the Emery Hospital at Anand, and the Evangeline Booth Hospital at Ahmednagar and a number of dispensaries. Patients treated at both Hospitals during 1960 were—Out-patients 18,251, In-patients 4,465 ; Major Operations performed 7,571 ; Minor Operations performed 1,037. Both Hospitals are well-equipped and have a Nurses' Training School attached.

Social work in Bombay includes the King George V Memorial Infirmary, and Lady Dhunbai Jehangir Home for Destitutes, Industrial and Rescue Home for Women at Matunga and King Edward Industrial Home for Men at Byculla. A well-equipped Red Shield House, is situated on Merewether Road, Fort, Bombay. Accommodation for visitors to Bombay may be secured there.

Territorial Headquarters :—P.O. Box 4510, Morland Road, Byculla, Bombay 8.

Territorial Commander :—Lieut. Commissioner Stanley Hannam.

Chief Secretary :—Col. Prabhakar S. Das.

NATIONAL CHRISTIAN COUNCIL OF INDIA

Chiefly to help to co-ordinate the activities of member Churches and Regional Councils and to assist them to co-operate with one another where such co-operation is desirable.

President :—Dr. D. G. Moses, Hislop College, Nagpur.

Vice-Presidents :—Rt. Rev. R. B. Manikam, Tranquebar House, Tiruchirappalli, S. India ; Miss Renuka Mukerji, Women's Christian College, Madras-31.

Treasurer :—Mr. Ross Thomas, Inter Mission Business Office, Bombay.

Secretaries :—E. C. Bhatty, M.A., Ph.D. ; Korula Jacob, M.A., M.Ed. ; The Rev. A. E. D. Frederick, M.A., B.D. ; The Rev. T. Essebaggers.

Address :—The National Christian Council, Christian Council Lodge, Nagpur 1, Maharashtra.

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SCHEDULED CASTES, TRIBES AND BACKWARD CLASSES

For population of Scheduled Castes and Scheduled Tribes see under Population in "Late Particulars".

The 1959-60 estimate of the population of Scheduled Castes was 5·53 crores, Tribes 2·25 crores, Denotified Tribes 40 lakhs.

These classes include 779 Scheduled Castes, 245 Scheduled Tribes and 198 nomadic tribes besides a number of unspecified groups.

The Scheduled Tribes live in remote forest regions, chiefly in Bombay*, Madhya Pradesh, Bihar, Orissa, West Bengal and Assam.

The tribes referred to as Notified in this article were once subject to restrictions under the various Criminal Tribes Acts. Their population is about 40 lakhs (U.P. 16·69, Bombay (bilingual) 6·24, Madras 5·95, Mysore 2·10).

The President has defined by means of an order who the Scheduled Castes and Tribes are.

This is the Scheduled Castes and Scheduled Tribes Lists Modification Order, 1956 which itself arises from the Scheduled Castes and Scheduled Tribes (Amendment) Act 1956 relating to the reorganized States.

As regards Backward Classes a Commission was appointed to enquire into their condition.

The functions of the Commission were to determine the criteria on the basis of which any particular section can be described as socially or educationally backward, to prepare a list of such Backward Classes for the whole of India, to examine the condition and difficulties of such classes and make specific recommendations (including financial) for their removal.

The Commission listed 2,399 different classes comprising more than 11 crores of people as socially and educationally backward. The Home Minister in commenting on this stated that this reduced the investigation to an absurdity when the bulk of the country's millions could be counted as coming within the category of backward classes. The criteria fixed by the commission were neither clear-cut nor reliable.

A pilot survey conducted by the Census Commissioner in Madras, Bombay* and West Bengal, showed that occupation could be a suitable basis for classification, an occupation, for instance, in which 50 per cent or more belong to the Scheduled Castes or Tribes, or an occupation in which the literacy percentage is less than half the literacy percentage in the State. An upper limit of Rs. 1,000 per family in the country-side could also be an extra criterion. Caste was yet another criterion.

Three States meanwhile seemed to be in favour of an economic criterion. Bombay* Government declared that all those whose annual income did not exceed Rs. 900 should be treated as Backward Classes. The Madras Government was working on a plan in which the criteria would be economic and social conditions. The Punjab Government drew the line at Rs. 1,000 per year, irrespective of caste or community. A community that is socially looked down would also be a Backward Community except such individuals in the community as have an income of more than Rs. 1,800. The Government of Mysore to start with adopted a classification in which in effect everyone except a Brahmin or a Scheduled Caste or Tribes man was 'Backward Class'. In a test case arising from this the Mysore High Court declared the Government order under question illegal. The Government consequently withdrew the order, appointed a Committee—Nagan Gowda Committee—which after investigation listed only 13 communities as backward as against the original 160.

With regard to the recommendation for the reservation of seats in Central and State services for backward classes, a substantial minority in the Commission (referred to above) itself was opposed to such reservation. Yet another recommendation was that 70 per cent of the seats in technical and technological institutions of higher learning should be reserved for backward classes.

Untouchability is abolished and its practice prohibited by law. The State works for the removal of any disability, liability, restriction or condition with regard to access to shops, public restaurants, hotels and places of public entertainment, the use of wells, tanks, roads and places of public resort maintained wholly or partly out of State funds.

The Untouchability (Offences) Act came into force on June 1, 1955.

The State also works for the throwing open of Hindu religious institutions of a public character to all sections.

NEFA is an administrative area under the Central Government, populated almost wholly by Scheduled Tribes.

A Naga Administrative Unit under Central Administration also came into being in December 1957.

The Tribes Advisory Councils exist in Andhra, Bihar, Bombay,* M.P., Madras, Orissa, Punjab, Rajasthan and W. Bengal.

Of these seven have Scheduled Areas (exceptions are W. Bengal and Madras).

A commission has been appointed with Mr. U. N. Dhebar as chairman to review all the special provisions mentioned above.

WELFARE SCHEMES

First Plan provision: Rs. 39 crores. Actual expenditure: Rs. 26 crores.

Second Plan provision: Rs. 91 crores (Tribes 50·7, Castes 28·8, denotified Tribes 3·12, other backward 8·8). Central Sector: Rs. 32·00 crores. States sector: Rs. 59·29 crores.

Third Plan provision (tentative): Rs. 100 crores (Tribes Rs. 59 crores; castes Rs. 32 crores; others Rs. 9 crores).

The total expenditure incurred during the first four years (with estimated figures for 1959-60) of the 2nd Plan in the Central and State sectors is given below. The first figure denotes Central and the second the State expenditure in Rs. lakhs:—

Tribes: 1,170·079; 1,661·75. Castes: 363·743; 1,486·39. Denotified: 62·908; 114·92. Other backward classes: 129·946; 329·95.

Total for Central, 1,726·676. For States: 3,593·01.

The expenditure incurred on individual items during the three years 1956-59 and the estimated expenditure during 1959-60 are shown below. The first figure shows the actual Central expenditure for 1956-59, the second figure the estimated expenditure during 1959-60, the 3rd figure the actual State expenditure during 1956-59 and the 4th figure the estimated State expenditure during 1959-60. (Rs. lakhs).

Education: Tribes 42·45; 25·50; 286·16; 179·84. Castes 0·14; 6·5; 523·74; 308·27. Denotified 1·1; 2·20; 24·72; 13·22. Backward 5·74; 17·51; 178·77; 72·52.

Agriculture: Tribes 20·87; 75·03; 161·45; 98·01. Castes 51·96; 22·0; 48·64; 17·94. Denotified 7·90; 2·40; 16·97; 11·21. Backward 0·82; 39·48; 18·86; 5·99.

Cottage Industries: Tribes 30·19; 28·04; 38·34; 27·79. Castes 39·41; 27·78; 25·34; 15·29. Denotified 1·53; 1·34; 5·82; 5·5. Backward 3·82; 13·45; 10·49; 3·54.

Medical & Public Health: Tribes 35·43; 48·17; 130·57; 68·62. Castes 31·63; 16·84; 73·9; 28·07. Denotified ·01; ·01; 2·36; 1·74. Backward Nil; 25·41; 2·37; ·77.

Co-operation: Tribes 36·13; 42·89; 20·04; 10·24. Castes 1·05; 2·2; 3·61; 2·76. Denotified Nil; Nil; 0·05; 0·1. Backward Nil; 1·65; 0·64; 0·37.

Housing: Tribes 70·22; 48·89; 23·14; 14·43. Castes 87·47; 44·03; 220·19; 96·78. Denotified 27·45; 13·12; 14·23; 6·68. Backward Nil; 4·85; 8·68; 3·71.

Communication: Tribes 86·56; 53·36; 272·76; 104·54. Castes Nil; Nil; 1·05; 0·13. Denotified Nil; Nil; Nil; 0·10. Backward Nil; 1·55; 0·91; Nil.

Animal Husbandry: Tribes 5·04; 4·9; 16·42; 14·16; Castes —; —; —; 0·5. Denotified —; —; 0·045; 0·1. Backward Nil; 0·48; ·002; —.

Special Multi-purpose Tribal Blocks: Tribes 179·04; 145·16; —; —.

Publicity: Tribes —; —; 2·54; 1·89. Castes Nil; 0·06; 16·30; 7·90. Denotified —; —; 0·012; —. Backward 0·25; 0·17.

Rehabilitation: Tribes 16·34; 10·41; 24 82; 14·50. Castes 15·00; 11·68; 4·32; 0·60. Denotified 4·08; 1·47; 5·32; 1·32. Backward Nil; 1·90; 4·74; 0·99.

Grants to voluntary agencies (only State): Tribes 19·19; 10·52. Castes 28·82; 11·13. Denotified 1·93; 0·85. Backward 1·75; 0·25.

Community Centres: —; —; 1·25; 0·78. Castes 1·71; 0·4; 9·03; 7·72. Denotified —; —; 0·93; 0·66. Backward —; —; 0·87; 0·94.

Miscellaneous: Tribes 122·95; 50·21; 65·66; 46·08. Castes 0·31; 3·58; 22·25; 21·1. Denotified 0·2; 0·08; 0·85; 0·7. Backward —; —; 9·41; 2·97.

Ceiling fixed for 1960-61: The Government of India had sanctioned the following sums of money in Rs. lakhs to be spent during the final year of the Plan. The first figure shows the amount for Central sector and the 2nd for the State Sector: Scheduled tribes 787·425; 624·35. Scheduled castes 192·868; 558·8. Denotified tribes 63·98; 49·26 Other backward classes 187·867; 92·33. Total for Central sector 1,232·14. State Sector 1,324·92.

Estimated expenditure from 1956-57 to 1960-61 in the Central and State sectors respectively (Rs. lakhs): Scheduled tribes 1,957·504; 2,278·10. Scheduled castes 556·611; 2,045·37. Denotified tribes 126·88; 164·18. Other backward classes 317·813; 422·28. Thus the total expenditure would be about Rs. 79 crores including expenditure incurred through non-official agencies.

The estimated expenditure on welfare schemes in the States during 1959-60 (Figures in Rs. lakhs): Bihar 76·12; Bombay (Bilingual) 91·14; Orissa 69·17; West Bengal 33·78; Delhi 2·27; Himachal Pradesh 5·51.

The amount of land allotted to the landless in these three classes was 62 lakh acres in 1958-59. The land came from wasteland and Bhoodan land. Bombay (Bilingual) led all the States with a grant of 39 lakh acres. The total amount spent in development grants under agriculture was Rs. 78 lakhs (Centre Rs. 40 lakhs). Statistical information about acreage of waste land allotted to landless during 1959 is available only about Tripura, namely 10,231. Bhoodan and Khas lands allotted to scheduled caste persons in Tripura were 3,456 acres.

The total number of special multi-purpose tribal blocks in operation in the whole country was 43, covering an area of 23,939 sq. miles

* Bilingual.

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with a total population of 16,87,592 (tribals 12,06,433) in 7,823 villages. The total expenditure during 1959-60 was Rs. 1·95 crores and during 1956-60 was Rs. 5·12 crores.

Statement showing grants released by the Govt. of India to non-official organisations during 1959-60, grants sanctioned for 1960-61 and the expenditure incurred during 1959-60 respectively: *For removal of Untouchability:* Harijan Sevak Sangh, Delhi (Rs. 3,02,000; Rs. 3,02,000; Rs. 2,93,473·80). Bharatiya Depressed Classes League, Delhi (Nil; Nil; Nil). Iswar Saran Ashram, Allahabad (Rs. 62,280; Rs. 6,82,920; Rs. 69,793·42*). Bharat Dalit Sevak Sangh, Poona (Rs. 72,350; Rs. 77,300; N.A.). *For other backward classes:* Bharatiya Adim Jati Sevak Sangh, Delhi (Rs. 3,62,000; Rs. 1,22,500; Rs. 3,55,768·75). Servants of India Society, Poona (Rs. 62,075; Rs. 63,156; Rs. 74,659). Indian Red Cross Society, Delhi (Rs. 79,200; Rs. 51,000; N.A.). All-India Backward Classes Federation, Delhi (Rs. 52,900; Rs. 41,600; N.A.). *Other non-official Organisations:* Tata Institute of Social Sciences, Bombay (Rs. 1,21,000; Rs. 74,100; N.A.). Indian Council for Child Welfare, Chhindwara, M.P. (Rs. 47,000; Rs. 32,500; N.A.). Bharatiya Lok Kala Mandal (Rs. 15,000; Nil; Nil). Andhra Pradesh Adim Jati Sevak Sangh (Continued from 1958-59 grants—Rs. 1,10,800; Nil; Rs. 80,946 in 1958-59 and 1959-60); Ramakrishna Mission, Calcutta (Rs. 10,000 (Kerala Branch) and Rs. 7,10,200 (Assam Branch); Nil; N.A.).

The Goverment of India have reconstituted the Advisory Boards for Harijan and Tribal Welfare, which advise the Centre on all matters relating to the welfare of scheduled castes and scheduled tribes and development of tribal areas. (Feb. 1961).

SAFEGUARDS

The Constitution of India has laid down certain safeguards for Scheduled Castes, Scheduled Tribes and Backward Classes, the weaker sections of the people. (The details are given in the 1960-61 Directory).

REPRESENTATION IN LEGISLATURES

Seats are reserved in the Lok Sabha under Articles 330 and 332 for Scheduled Castes and for Scheduled Tribes including the Tribal areas and autonomous districts of Assam.

The number of seats reserved in any State bears the same proportion to the total number of seats allotted to that State in the Lok Sabha as the population of Scheduled Castes and Scheduled Tribes in the State or the part of the State bears to the total population of the State.

Similarly in the Legislative Assembly of every State seats are reserved.

Provision is also made for the representation of Anglo-Indians by nomination under Art. 333.

Art. 334 however as it originally stood limited the period of reservation for Scheduled Castes and Tribes and representation for Anglo-Indians to ten years from the commencement of the constitution, that is, till Jan. 26, 1960.

At the end of 1959 this Art. however was amended through the Constitution Eighth Amendment Act to extend this period by another ten years. The only difference was in the nature of the representation of Anglo-Indians, Clause 2 of the Amendment Act lays down that the number of Anglo-Indians nominated should not exceed two in the case of West Bengal and one in the case of the other States.

Under these provisions 76 seats in the Lok Sabha and 470 in the States Legislatures have been reserved for the Scheduled Castes, and 31 seats in the Lok Sabha and 221 in the State Legislatures for the Tribes.

In addition to the election of reserved seats in the Lok Sabha, 6 members from the Scheduled Castes and 3 from the Scheduled Tribes were returned to the Lok Sabha in the 1957 general elections. For the State Assemblies the respective figures were 8 and 7.

In the Rajya Sabha there were 9 members belonging to the Scheduled Castes and Tribes and in the Legislative Councils there were 9 from the Scheduled Castes and 4 from the Tribes.

At the end of March 1960, there were in the Rajya Sabha 10 members who belonged to the Scheduled Castes and three to the Scheduled Tribes. In the Legislative Councils there were 16 from the Scheduled Castes and four from the Tribes. The number of Scheduled caste members in the Assemblies elected from unreserved seats was 8 and of Tribes 11.

In the Territorial Councils the number of elected as well as nominated members in the Manipur and Tripura Councils remained unchanged at the end of 1959-60. In the Himachal Pradesh Territorial Council the number of scheduled caste and scheduled tribe members was 14 including one elected against unreserved seats.

REPRESENTATION IN GOVERNMENT

About Ministerial posts the position during 1959-60 was as follows:

In the Central Government there was one Minister and two Deputy Ministers from the Scheduled Castes and one Parliamentary Secretary from the Scheduled Tribes.

Central (Scheduled Castes):

Minister, Jagjivan Ram; Deputy Ministers, Dr. Mono Mohan Das and B. S. Murthy.

Central (Scheduled Tribes):

Parliamentary Secretary, J. N. Hazarika.

In the State Governments there were 14 Ministers, 8 Deputy Ministers and 2 Parliamentary Secretaries belonging to the Scheduled Castes, and 4 Ministers, 4 Deputy Ministers and 5 Parliamentary Secretaries belonging to the Tribes.

In Andhra Pradesh the Chief Minister is a scheduled caste.

Thus the total representation in the Central Government was Scheduled Castes 3, Scheduled Tribes 1. In the State Governments Scheduled Castes 24 and Scheduled Tribes 13.

SERVICES

The claims of members of Scheduled Castes and Scheduled Tribes should be taken into consideration according to Article 335 in the making of appointments to services and posts in connection with the affairs of the Union or of a State consistently with the maintenance of the efficiency of the administration.

The quota reserved for Scheduled Castes and Scheduled Tribes in the Government of India services is as follows:—

Direct Recruitment on all-India Basis:

12½ per cent of vacancies filled by open competition and 16⅔ per cent of the vacancies filled otherwise have been reserved for Scheduled Castes, and five per cent of the vacancies in all cases for the Scheduled Tribes filled through open competition or otherwise.

In cases of promotion, the following orders have been issued:

For Non-Selection Posts:

(*a*) if promotion is made subject to the passing of a qualifying departmental examination, the standard of qualification for Scheduled Castes and Scheduled Tribes need not be so high as prescribed for other candidates;

(*b*) if promotion is made otherwise than by a qualifying examination, Scheduled Caste and Scheduled Tribe candidates should be adjudged sympathetically without applying too rigid a standard, and the candidates belonging to these castes and tribes should not be superseded without their cases being reviewed at high levels.

For Selection Posts:

(*a*) if promotions are to be made on the basis of a competitive examination, the communal orders will apply and any Scheduled Caste and Scheduled Tribe candidates, who are above the minimum standard necessary for efficiency, may be selected for appointment against their reserved quota;

(*b*) if the promotion is made otherwise than through a competitive examination, no relaxed standards of merit are to be applied for Scheduled Caste or Scheduled Tribe candidates.

Liaison Officers have been appointed in each of the Ministries and Departments of the Government of India to see that Government rules and instructions about recruitment of Scheduled Castes and Tribes are complied with. The appointing authorities have been supplied with a Manual containing all relevant regulations and instructions to serve as a hand-book of ready reference.

A ruling given by the Madras High Court is of relevance.

It ruled arising from a case in March 1960 that reservation for Scheduled Castes and Tribes for filling selection posts in the Class III Railway Service was "unconstitutional".

Allowing a writ petition filed by a court inspector included in Class III of the Railway Service, the Court observed: "Neither of the statutory expressions "appointment" or "post" will include within its ambit promotion from one post to another in the same service. While such promotions are within the scope of the ban against discrimination by Article 16(2) of the Constitution, they are outside the protection from that ban secured by Article 16(4)."

The position in regard to permanent posts held by the Scheduled Castes and Tribes in the Central Government in 1957 is as follows: (Latest available):

	Total	Scheduled Castes	Scheduled Tribes
Class I	5,492	45 (0·81%)	14 (0·25%)
Class II	8,495	191 (2·24%)	15 (0·17%)
Class III	5,26,523	32,113 (6·1%)	2,879 (0·54%)
Class IV	6,47,695	1,32,547 (20·46%)	16,044 (2·47%)

The position about the all-India services on 1st Jan. 1960 was as follows:

	Scheduled Castes	Scheduled Tribes	Others
I.C.S./I.A.S. ..	38	10	1.652
I.P.S./I.P. ..	20	6	917
IFS(A)	4	1	192
IFS(B)	30	7	1,796

There is no complete information about the position in the States.

The statistics collected through the Employment Exchanges for 1959 are as follows:

Scheduled Castes

Total registration 3,10,292; Placements under Central Government 11,259; Placements under State Governments 18,108; Other employers 9,595; Number on live register at the end of the year 1,71,295 out of which 1,110 were graduates, 20,666 matriculates and 1,49,519 non-matriculates.

* Includes Institution's Share.

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Scheduled Tribes

Total registration 40,822; Placements under Central Government 1,572; State Governments 1,988; Other employers 1,320; number on live register at the end of the year 19,768 out of which 84 were graduates, 1,373 matriculates and 18,311 non-matriculates.

During 1959-60 the total number of vacancies notified as reserved for Scheduled Castes and Scheduled Tribes under the Central and State Govts. and by other employers was 11,626 and 4,485 respectively. Of these, 5,366 were filled by Scheduled Castes and 1,123 by Scheduled Tribes.

Harijan employees in the country's statutory and semi-Government bodies exceed the quota of twelve and a half per cent reserved for them.

According to a unit-to-unit survey made in February, 1956, over 20,000 Scheduled Caste and 1,300 Scheduled Tribe members were employed in such bodies which numbered 95 having about 1,36,000 employees. The average came roughly to 14·8 per cent, that is, 2 per cent more than the Government reservation.

The representation of Scheduled Castes ranged from 63·3 per cent in the Cantonment Boards to 0·9 per cent in the Central Electro-Chemical Research Institute, Karaikudi, South India. The maximum percentage of Scheduled Tribe employees was 47·7 per cent in the Indian Lac Cess Committee.

Among the employers who engaged the largest number of Scheduled Castes and Scheduled Tribes members were: the Cantonment Boards, Calcutta Port Commissioners, Office of the Commissioner for Scheduled Castes and Scheduled Tribes and Delhi State Electricity Board.

The following States have a certain percentage of jobs reserved for Scheduled Castes and Tribes, the percentage having some relation to the population. In the brackets is shown whether the reservation is for Castes or Tribes or both:

Andhra (C and T), Assam (T), Bihar (C and T), Bombay (C and T), Madras (C and T), Punjab (C and T), Mysore (C and T), Rajasthan (C and T), Kerala (C and T).

LEGAL AID, EDUCATION

The particulars about the cases under the Untouchability Offences Act, 1955 during 1959 were:—cases registered 389; challaned 318; not challaned with reason 71; convicted 81; acquitted 48; compounded 71; pending 121.

The Governments of Andhra, Bihar, Madras, Mysore, Orissa, Punjab, M.P. and Himachal Pradesh have agreed to maintain lists of villages in which untouchability still exists. Bombay (Bilingual) and U.P. preferred to maintain a list of villages in which untouchability has disappeared. Mysore has a list of both classes of village. Assam, Kerala, Tripura and Manipur feel that the problem is not very acute in these States.

Legal aid is provided by some State Governments from their own funds or from grants made by the Central Government.

The total aid sanctioned during 1959-60 was for Scheduled Castes Rs. 1,66,797; for Tribes Rs. 95,750; for Denotified tribes Rs. 6,000. The incurred expenditure was for Scheduled Castes Rs. 45,087; for Tribes Rs. 44,116; for Denotified Tribes Rs. 34.

Statewise the expenditure incurred during 1959-60 was in Rs.: Andhra Pradesh: Castes 6,000; Bihar: Castes 22,500; Tribes 27,200; Bilingual Bombay: Castes 357; Tribes 2,668; Denotified 34; Orissa: Castes 1,600; Punjab: Castes 4,426†; Uttar Pradesh†: Castes 697†; West Bengal: Castes 1,187; Tribes 9,248; Delhi: Castes 1,600; Himachal Pradesh: Castes 5,000; Tribes 5,000.

During 1959-60 the Office of the Commissioner received 1,301 complaints as compared with 942 during the year before. Of these 242 related to land/housing and evacuee properties, 107 to harassment, 75 to financial help, 30 to scholarships, 15 to water facilities, 485 to services and the remaining 347 to other miscellaneous grievances. Assistant Commissioners posted in various other regions received 805 complaints of similar nature. The maximum number of complaints (221) received by the Assistant Commissioners were also connected with land and housing questions.

The expenditure incurred by the Central and State Governments for the educational advancement of Scheduled Castes and Scheduled Tribes came to Rs. 13·87 crores in the First Five Year Plan. This formed 32·6 per cent of the total provision of Rs. 42·54 crores allocated in the First Five Year Plan for the welfare of Backward Communities.

The Second Five Year Plan has a provision of Rs. 32·37 crores for the educational advancement of students belonging to Scheduled Castes and Scheduled Tribes. In addition, there is the allocation of the State Governments outside the Plan.

The total amount spent on education during the first three years of the Second Plan was Rs. 10·63 crores. The Union Government spent Rs. 6·14 crores on the award of post-matric scholarships. The estimated expenditure incurred by the States and Central Govt. for 1959-60 is Rs. 6·255 crores.

The amount spent by the Government of India in 1959-60 for post-matric Scholarships was Rs. 257·82 lakhs.

Out of the Rs. 257·82 lakhs the amount spent on Castes was Rs. 143·84 lakhs, on Tribes Rs. 23·88 lakhs, on Backward Rs. 90·08 lakhs.

The total number of applications received in 1959-60 for post-Matric inland Scholarships was 98,838 (Castes 42,230; Tribes 6,478; Backward Classes 50,130). The total number of Scholarships awarded was 61,962 (Castes 38,657; Tribes 6,112; Backward Classes 17,193).

Grants totalling Rs. 2,22,63,000 were made available to the State Governments and Union Administrations for scholarships to students belonging to the Scheduled Castes, Scheduled Tribes, and other backward classes during 1960-61. The scholarships are for post-matric studies.

The State-wise allocations were: Andhra Pradesh Rs. 20,93,700; Assam Rs. 15,14,800; Bihar Rs. 16,64,700; Maharashtra Rs. 21,47,400; Gujarat Rs. 4,51,000; Jammu and Kashmir Rs. 1,43,200; Kerala Rs. 3,88,900; Madhya Pradesh Rs. 8,47,600; Madras Rs. 23,67,400; Mysore Rs. 12,14,700; Orissa Rs. 6,70,200; Punjab Rs. 15,36,500; Rajasthan Rs. 3,65,400; Uttar Pradesh Rs. 39,95,600; West Bengal (including Sikkim) Rs. 25,41,200; Delhi Rs. 95,800; Himachal Pradesh Rs. 1,13,200; Manipur Rs. 53,000; Tripura Rs. 54,700; and Andaman and Nicobar Islands Rs. 4,000.

The amount spent on pre-matric studies during 1959-60 was Rs. 54·49 lakhs (Castes Rs. 30·68 lakhs; Tribes Rs. 10·38 lakhs; Backward Rs. 13·42 lakhs).

The total number of applications received was 96,011 (Castes 56,442; Tribes 4,065; Backward 35,504).

Total number of scholarship awarded 1,30,256 (Castes 68,113; Tribes 27,273; Backward 34,870).

The subject-wise break-up of the scholarships was as follows: (Figures for 1958-59).

	Applications	Scholarships Awarded
Professional	16,785	9,940
Post-graduate	1,864	1,257
Graduate	14,129	9,056
Under-graduate ..	41,823	29,563
Trade	425	146
Total..	75,026	49,962

About overseas Government of India scholarships the position in 1958-59 was:—

The total number of applications received was 98 (Castes 13, Tribes 16, Backward 69). The total number of scholarships awarded was 12 (Castes 4,** Tribes 4, Backward 4).

In 1959-60 Bombay (bilingual) awarded 12 (Castes 2, Backward 10).

The following States have agreed to grant full exemption from payment of fees to Scheduled Castes and Tribes at all stages of education:

Andhra, Madhya Pradesh, Madras, U.P., Kashmir, Mysore, Rajasthan, Delhi, Kerala, Manipur, Tripura, and the PEPSU area of the Punjab and the Saurashtra and Kutch areas of Gujarat.

The following States have agreed to grant partial exemption:

Assam, Bihar, Bombay (Bilingual), Orissa, Punjab, W. Bengal, Himachal Pradesh.

The following States have agreed to grant full exemption to other backward class students:

Kashmir, Rajasthan, Delhi and Bhopal and Vindhya Pradesh areas of Madhya Pradesh.

The following States have agreed to grant partial exemption:

Andhra, Bombay (Bilingual), M. P., Madras, Punjab, U. P., Tripura.

The percentage of increase in enrolment of backward classes in 1956-57 over the 1955-56 figure was for pre-matric 3·28 and for post-matric 20·40. The percentage of increase in enrolment of all including backward class in 1956-57 over 1955-56 was for pre-matric 6·54 and for post-matric 9·37. The percentage of increase for backward classes for 1957-58 over 1956-57 was for pre-matric 7·52 and for post-matric 14·45. Total enrolment in all types of institutions during 1957-58: 1,14,04,902.

Most of the technical institutions offer preferential treatment to scheduled castes and scheduled tribes students in the matter of admissions by way of reservation of seats upto 20 per cent and relaxation of upper age limits and qualifying marks. These concessions were recommended by the Central Government, but they were not however uniform and varied from institution to institution.

More than 1,000 institutions have been opened in States for the basic education of Scheduled Tribes.

These institutions are of two categories: Ashrams and Sevashrams. Ashram schools are residential institutions where training in different trades or crafts like carpentry, weaving, smithy, tailoring and agriculture is given along with general education. All expenses are borne by the Government. Sevashrams are day schools where training in spinning and gardening is given along with general education. The students are supplied with clothing, books, spinning material, etc., free of charge.

† Expenditure incurred upto Feb. 1960. †† Expenditure without any specific scheme for the purpose.
** The scholarship to one Scheduled Caste candidate has not so far been offered.

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FIVE-YEAR PLANS

The following table shows the expenditure incurred in the First Plan or to be incurred in the Second Plan (Rs.):

Scheme	Scheduled Tribes		Scheduled Castes		Ex-Criminal Tribes (Denotifi d)		Other Backward Classes		Total expenditure	
	First Plan	Second Plan	First Plan	Second Plan	First Plan	Second Plan	First Plan	Second Plan	First Plan	Second Plan
Education	5,10,33,518	8,82,44,845	3,88,38,843	10,76,80,192	16,79,358	77,13,565	1,17,23,687	3,39,13,850	10,32,75,406	23,75,52,452
Agriculture	2,65,98,852	2,22,93,671	6,58,485	76,29,000	30,12,828	44,36,300	93,760	58,85,000	3,03,63,925	4,02,43,971
Cottage Industry ..	47,43,183	2,38,50,580	16,88,992	2,47,54,550	6,82,286	2,01,570	3,02,080	38,22,450	74,16,541	5,50,29,150
Medical and Public Health	1,53,52,601	5,00,32,578	65,20,732	2,84,34,675	6,44,607	4,89,940	18,21,871	15,78,200	2,43,39,811	8,05,35,393
Housing	48,91,024	2,26,43,950	12,24,368	5,46,57,900	11,39,916	32,80,250	4,69,236	18,04,350	77,24,544	8,23,86,450
Communications ..	4,07,99,551	8,78,95,850	2,24,898	3,81,500	23,172	..	1,90,144	4,63,500	4,12,37,765	8,87,41,100
Co-operation	49,75,564	1,39,71,025	1,31,755	66,49,800	29,640	2,59,350	2,22,699	6,62,650	53,59,658	2,15,42,825
Rehabilitation	4,57,021	3,36,43,275	..	50,28,400	17,03,828	89,99,800	4,83,055	12,99,000	26,43,904	4,89,70,475
Forest	57,89,432	1,05,59,415	..	..	..	..	..	..	57,89,432	1,05,59,415
Veterinary	11,53,451	48,24,252	1,982	..	31,700	81,750	..	1,00,000	11,87,133	50,06,002
Publicity	6,62,157	6,61,095	29,27,662	46,44,565	14,959	6,500	20,000	70,500	36,24,778	53,82,660
Community Centres ..	7,17,748	1,14,000	73,651	45,10,775	13,772	2,40,525	..	16,83,200	8,05,171	65,48,560
Aid to Voluntary Agencies	18,62,118	44,76,350	34,51,465	35,30,950	1,89,446	5,90,875	3,61,860	10,68,500	58,64,889	96,66,675
Administration ..	54,57,676	2,02,86,109	9,68,104	26,19,100	4,17,004	1,89,858	4,57,127	33,29,700	72,99,911	2,64,24,767
Intensive Development Blocks	..	6,42,00,000	..	..	..	..	..	..	..	6,42,00,000
Miscellaneous	91,70,688	1,56,61,910	29,48,375	57,63,510	6,60,601	21,64,500	65,420	1,01,53,950	1,28,45,084	3,37,43,870
Total	17,36,64,584	48,33,58,905	5,96,59,312	25,62,85,167	1,02,43,117	3,10,54,783	1,62,10,939	6,58,34,850	25,97,77,952	83,65,33,705

Note.—Includes Rs. 200·00 lakhs to be paid to the Government of Assam under Clause (a) of second proviso to Article 275(1) of the Constitution.

A sum of Rs. 91 crores had been provided in the Second Five Year Plan for the welfare of Scheduled Castes, Scheduled Tribes, etc. In the case of Centrally sponsored schemes, the entire expenditure of about Rs. 32 crores will be borne by the Union Government while the rest of the expenditure of Rs. 59 crores was to be shared between the Union and the States on a 50-50 basis.

Rehabilitation of the backward classes has a high priority in the Plan. Various Schemes have been formulated to expedite the implementation of existing programmes and for the provision of further amenities.

Forty-three special multi-purpose development blocks are being set up all over the country for the rehabilitation of Scheduled Castes and Scheduled Tribes. These are based on the general pattern of the National Extension Service Blocks. Expenditure on each project is estimated at Rs. 27 lakhs. During 1959-60 an estimated expenditure of Rs. 1·95 crores was incurred. During the 1st four years of the 2nd Plan the expenditure was Rs. 5·12 crores.

It was proposed to train about 11,000 persons in various States, establish 825 cottage industries centres, 45 training-cum-production centres and 87 industrial and technical training centres during the Second Plan period.

Five technical institutes for tribal students each costing Rs. 50 lakhs were to be set up during this period. These institutes offer training in mechanical and civil engineering and handicrafts.

64,233 families were displaced due to Construction of dams, industrial plants, etc. 33,865 families were rehabilitated. Area of land from which displaced: 2,27,244·45 lakh acres.

About 27,000 tribal families will be resettled and 208 demonstration centres set up under the shifting cultivation control scheme to put an end to the harmful practice of felling trees. The scheme was started in Assam, Andhra Pradesh, Bihar, Madhya Pradesh, Orissa and Uttar Pradesh during the First Five Year Plan period. It was being considerably extended during the Second Plan period at a cost of Rs. 3 crores

It was proposed to spend Rs. 10·8 crores on the construction of nearly 1½ lakh houses for Scheduled Castes and Scheduled Tribes during the Second Plan period.

The houses constructed will be of simple design. Each house costs between Rs. 500 and Rs. 1,000 depending on local conditions. Government's subsidy is mostly in the form of building material and the balance of the cost is contributed by the beneficiaries in the form of voluntary labour.

As against the construction of 9,000 houses, 8 model villages and 31 colonies in the First Plan, it was proposed to construct about 3,25,000 houses and 20 colonies during the Second Plan period. In addition, aid was to be given to about 160 housing societies.

The Second Plan expenditure upto March 1959 was Rs. 32·20 crores and the estimated expenditure during 1959-60 was Rs. 20·32 crores. The Central Government had sanctioned Rs. 25·57 crores to be spent during 1960-61. The First Plan provision was Rs. 39 crores and the expenditure Rs. 26 crores.

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LAWS OF 1959

THE Indian Parliament placed on the Statute book altogether 61 Acts during the year 1959. The date in the bracket shows the date on which the Bill received the assent of the President.

1. The Indian Income-Tax (Amendment) Act No. 1 of 1959 (12 March, 1959).

2. The Appropriation Act No. 2 of 1959 (12 March, 1959).

3. The Cinematograph (Amendment) Act No. 3 of 1959 (12 March, 1959).

4. The Delhi Land Reforms (Amendment) Act No. 4 of 1959 (12 March, 1959).

5. The Appropriation (Railways) Act No. 5 of 1959 (14 March, 1959).

6. The Appropriation (Railways) (No. 2) Act No. 6 of 1959 (14 March, 1959).

7. The Appropriation (Vote on Account) Act No. 7 of 1959 (14 March 1959).

8. The Workmen's Compensation (Amendment) Act No. 8 of 1959 (20 March, 1959).

This Act removes (1) the distinction between an adult and a minor for the purposes of Workmen's Compensation, (2) reduces the waiting period of seven days to five days for being entitled to compensation, (3) provides penalty for failure to pay compensation when due, etc.

9. The Delhi Panchayat Raj (Amendment) Act No. 9 of 1959 (3 April, 1959).

This Act invests the Panchayats Adalats with criminal jurisdiction in respect of certain minor offences under the Indian Penal Code, etc.

10. The Parliament (Prevention of Disqualification) Act No. 10 of 1959 (4 April, 1959).

This Act declares that certain offices of profit under the Government shall not disqualify the holders thereof for being chosen as, or for being members of Parliament. Section 3 mentions the offices of profit which will not disqualify. Section 5 repeals the Parliament (Prevention of Disqualification) Act, 1950 (19 of 1950), the Parliament Prevention of Disqualification Act, 1951 (68 of 1951), the Prevention of Disqualification Act, 1953 (1 of 1954). The Schedule to the Act contains a long list of bodies, the membership of which will not be a disqualification.

11. The Appropriation (No. 2) Act No. 11 of 1959 (28 April, 1959).

12. The Finance Act No. 12 of 1959 (28 April, 1959).

This Act gives effect to the financial proposals of the Central Government for the financial year and provides for certain connected matters.

13. The Indian Railways (Amendment) Act No. 13 of 1959 (May 1, 1959).

14. The Reserve Bank of India (Amendment) Act No. 14 of 1959 (May 1, 1959).

15. The Chartered Accountants (Amendment) Act No. 15 of 1959 (May 6, 1959).

16. The Indian Light House (Amendment) Act No. 16 of 1959 (May 8, 1959).

17. The Coal Grading Board (Repeal) Act No. 17 of 1959 (May 9, 1959).

18. The Appropriation (No. 3) Act No. 18 of 1959 (May 12, 1959).

19. The Appropriation (Railways) No. 3 Act No. 19 of 1959 (May 12, 1959).

20. The Bengal Finance (Sales Tax) Delhi Amendment Act No. 20 of 1959 (May 12, 1959).

21. The Displaced Persons (Compensation and Rehabilitation) Amendment Act No. 21 of 1959 (May 19, 1959).

22. The Census (Amendment) Act No. 22 of 1959 (May 19, 1959).

23. The Cost and Works Accountants Act No. 23 of 1959 (May 19, 1959).

This Act makes provision for the regulation of the profession of cost and works accountants.

24. The Pharmacy (Amendment) Act No. 24 of 1959 (Aug. 27, 1959).

25. The International Monetary Fund and Bank (Amendment) Act No. 25 of 1959 (Aug. 28, 1959).

26. The State Bank of India (Amendment) Act No. 26 of 1959 (Aug. 28, 1959).

27. The Kerala Local Authorities Laws (Amendment) Act No. 27 of 1959 (Aug. 28, 1959).

28. The Road Transport Corporations (Amendment) Act No. 28 of 1959 (Sept. 1, 1959).

29. The Public Wakf (Extension of Limitation) Act No. 29 of 1959 (Sept. 1, 1959).

30. The Wakf (Amendment) Act No. 30 of 1959 (Sept. 2, 1959).

31. The Employment Exchanges (Compulsory Notification of Vacancies) Act No. 31 of 1959 (Sept. 2, 1959).

This Act provides for compulsory notification of vacancies to employment exchanges. The employer in every establishment is required to notify vacancies to the employment exchange. He has also to furnish information and returns in prescribed forms.

32. The Indian Electricity (Amendment) Act No. 32 of 1959 (Sept. 5, 1959).

33. The Banking Companies (Amendment) Act No. 33 of 1959 (Sept. 5, 1959).

34. The Appropriation (No. 4) Act No. 34 of 1959 (Sept. 8, 1959).

35. The Appropriation (No. 5) Act No. 35 of 1959 (Sept. 8, 1959).

36. The Appropriation (No. 6) Act No. 36 of 1959 (Sept. 8, 1959).

37. The Central Excises and Salt (Amendment) Act No. 37 of 1959 (Sept. 8, 1959).

38. The State Bank of India (Subsidiary Banks) Act No. 38 of 1959 (Sept. 10, 1959).

This Act provides for the function of certain Government or Government associated banks as subsidiaries of the State Bank of India and for the constitution, management and control of the subsidiary banks so formed and for matters connected therewith.

39. The Kerala Appropriation Act No. 39 of 1959 (Sept. 12, 1959).

40. The Appropriation (No. 7) Act No. 40 of 1959 (Sept. 12, 1959).

41. The Criminal Law (Amendment) Act No. 41 of 1959 (Sept. 12, 1959).

42. The Travancore-Cochin Vehicles Taxation (Amendment and Validation) Act No. 42 of 1959 (Sept. 12, 1959).

43. The Oil and Natural Gas Commission Act No. 43 of 1959 (Sept. 18, 1959).

This Act provides for the establishment of a Commission for the development of petroleum resources and the production and sale of petroleum and petroleum products produced by it and for matters connected therewith.

44. The Public Debt (Amendment) Act No. 44 of 1959 (Sept. 18, 1959).

45. The Government Savings Bank (Amendment) Act No. 45 of 1959 (Sept. 18, 1959).

46. The Government Savings Certificates Act No. 46 of 1959 (Sept. 18, 1959).

47. The Rajasthan and Madhya Pradesh (Transfer of Territories) Act No. 47 of 1959 (Sept. 18, 1959).

An area of 3,085 acres is transferred from Rajasthan to Madhya Pradesh for facilitating the completion of the Gandhi Sagar Dam in M.P.

48. The Miscellaneous Personal Laws (Extension) Act No. 48 of 1959 (Dec. 4, 1959).

This Act extends personal laws of certain communities to the territories comprised within the former Part B States with a view to making these laws generally applicable to the whole of India except the State of Jammu and Kashmir.

49. The Securities Contracts (Regulation) Amendment Act No. 49 of 1959 (Dec. 8, 1959).

50. The Kerala State Legislature (Delegation of Powers) Act No. 50 of 1959 (Dec. 17, 1959).

This Act confers on the President of India the power of the Legislature of the State of Kerala to make laws.

51. The Haj Committee Act No. 51 of 1959 (Dec. 17, 1959).

This Act establishes a Committee in the port of Bombay for assisting Muslim pilgrims to Saudi Arabia, Syria, Iraq, Iran and Jordan.

52. The Indian Penal Code (Amendment) Act No. 52 of 1959 (Dec. 17, 1959).

This Act makes kidnapping or obtaining custody of a minor and the maiming of a minor for employing him for begging, specific offences and provides for deterrent punishment.

53. The Kerala Appropriation (No. 2) Act No. 53 of 1959 (Dec. 18, 1959).

54. The Arms Act No. 54 of 1959 (Dec. 23, 1959).

This Act consolidates and amends the law relating to arms and ammunition.

55. The Appropriation (No. 8) Act No. 55 of 1959 (Dec. 23, 1959).

56. The Andhra Pradesh and Madras (Alteration of Boundaries) Act No. 56 of 1959 (Dec. 24, 1959).

This Act gives effect to Pataskar Award for alteration of boundaries of the two States.

57. The Indian Statistical Institute Act No. 57 of 1959 (Dec. 24, 1959).

This Act declares the institution known as the Indian Statistical Institute as an institution of national importance and provides for certain matters connected therewith.

58. The Sugar (Special Excise Duty) Act No. 58 of 1959 (Dec. 24, 1959).

59. The Mineral Oils (Additional Duties of Excise and Customs) Amendment Act No. 59 of 1959 (Dec. 24, 1959).

60. The Indian Tariff (Amendment) Act No. 60 of 1959 (Dec. 24, 1959).

61. The Married Women's Property (Extention) Act No. 61 of 1959 (Dec. 24, 1959).

The Act extends the Married Women's Property Act of 1874 to parts of India in which it was not in force.

62. The Mines (Amendment) Act No. 62 of 1959 (Dec. 27, 1959).

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ANDAMAN AND NICOBAR ISLANDS

Capital : Port Blair.

Area : 3,215 sq. miles. Pop. 63,438 (approx.) (1961). Density : 20. Literacy : 33·6%.

The Andamans are a group of 204 islands of various sizes, large and small, lying between the 6th and 14th Parallels in the Bay of Bengal. The northernmost 'Landfall Island' is 560 miles from the mouth of Hooghly River. The headquarters Port Blair is about 780 and 740 miles from Calcutta and Madras respectively. The main part of the group is composed of five large islands, *viz.*, North Andaman, Middle Andaman, South Andaman, Baratang and Rutland Islands generally known as the Great Andaman. To the south of the Great Andaman is the island of Little Andaman. The extreme length of the Great Andaman Islands is 290 miles and the extreme breadth 32 miles the total land area being approximately 2,580 sq. miles. These Islands consist mostly of a mass of hills covered with dense tropical forests and separated by three straits and several creeks. These Islands have several very good harbours—Port Blair, Port Cornwallis, Mayabander and Port Elphinstone.

The Nicobar Islands numbering 19 from Car Nicobar in the north to Great Nicobar in the south intervene between Little Andaman and Sumatra. The southern island of Great Nicobar is about 100 miles from Pulo Brasse off Achin Head in Sumatra and the northern island of Car Nicobar 75 miles from Little Andaman. The extreme length of the sea-space occupied by the Nicobars is 163 miles and the extreme width is 36 miles. These islands are partly hilly and partly flat. The most important harbour in the area is Nancowry reputed to be the finest harbour in the east.

The climate of the islands can be generally described as tropical; warm but tempered by pleasant sea breezes. The islands are exposed to both monsoons with north-easterly gale from November to January and south-westerly gale from May to October. The weather is smooth only from January to April and to some extent in October. The average rainfall is 123 inches. The temperature varies between 23·9°c to 30·5°c throughout the year. The scenery of the islands is everywhere strikingly beautiful.

POPULATION

About 63,438 (1961 census).

(*a*) *Aboriginals:* The aboriginals of the Andaman are supposed to be the earliest people to inhabit South East Asia. Essentially there are two main species Erimtaga, that is the forest dwellers who comprise the Jarawas and Sentenelese, and *Arvoto* the coast dwellers to which the Onges and the Andamanese belong. The Andamanese were originally the most numerous of all the tribes but their decadence has been the worst. They now number 23 in all. The Onges are estimated at 150 according to the 1951 Census. The information regarding the Jarawas and Sentenelese is wholly scanty as the tribes are hostile and avoid all contact with civilisation. According to the 1951 Census, the estimated total number of Jarawas was 50 only, but this figure is obviously undependable.

(*b*) *Andaman Indians:* From 1858 to October 1945, the Andaman Islands were a Penal Settlement, and except for the steadily increasing number of the aboriginals, almost the entire population consisted of convicts and of people who were in these Islands in connection with these convicts—administrative personnel, merchants catering to them etc. The strength of the population therefore in this period depended entirely on the number of convicts that were sent to these Islands from the mainland. After the issue of the Proclamation abolishing the Penal Settlement, remitting all sentences and offering repatriation at Government expense, the population sunk to a little under 14,000 in 1947. This population has been recorded as "Andaman Indians" during the 1951 census.

(*c*) *Neo Settlers:* With the abolition of convict labour the need for local labour was felt and several families of displaced agriculturists from East Bengal were brought to South Andaman during 1949 for settlement under the Pilot Scheme of Rehabilitation. The process has continued since and will continue throughout the present and Third Five Year Plans period.

(*d*) *Nicobarese:* The Nicobarese belong to a completely different race group from the aboriginals of the Andamans. Their number according to the 1951 census is approximately 12,000 spread all over the Nicobar group of Islands. Within the last century the race has registered a considerable increase in population. It has doubled itself in fifty years.

FORESTS

Forests cover an area of 2,630 sq. miles and 685 sq. miles in Nicobars, *i.e.* nearly 72 per cent of the total area.

The species of timber found in the forest region are mainly padauk, Andaman redwood, Gurjan—a plywood species and Papita—a matchwood species. Annually the Forest department exports approximately 30,000 tons of timber to the mainland worth about Rs. 1 crore.

Since 1954 teak plantations are being raised in the South and Middle Andamans with great success.

The forests are rich in commercial timber and are suppliers of timber to the plywood and matchwood industries.

Agriculture : Rice is the principal crop of Andaman Islands. The estimated area under paddy cultivation is about 17,000 acres.

Plantation : Coconuts, rubber and cashew find unlimited scope in the islands. Development of tea is in an experimental stage.

COLONISATION

Displaced persons including agriculturists from East Pakistan were readily available for settlement and the idea of colonisation of the Islands caught on. Sporadic efforts were made from time to time between 1949 and 1951 to rehabilitate the East Bengal refugees. In 1952-53 a long term plan for colonisation was put into operation. As a Grow More Food measure and with a view to achieving self-sufficiency in the matter of food it became imperative to import manpower into these Islands. It envisaged settlement of 4,000 agriculturist families over 20,000 acres of flat land at the rate of 5 acres of cleared paddy land per family. By the close of the year 1955-56 about 1,406 families had been settled on land and the rest of the programme was incorporated under the Second Five Year Plan for achieving the target. From the commencement of the process in 1949 to date 3,000 families have been settled, who have come from West Bengal, Kerala, Bihar and Madras.

Commercial prospects of coffee cultivation in these Islands are considered to be bright by the experts.

INDUSTRY

Industries include a coconut oil mill, plywood factory and a match splint factory in South Andaman Island and a coir factory in Car Nicobar Island. All the above are in the private sector. Besides, there is the Government Sawmill which has a reputation of being the biggest in the East. There are six other sawmills, all in the private sector. 14 schemes relating to Small Scale Industries and Handicrafts, Khadi and Village Industries are also being implemented by the Administration.

A new plywood factory by a limited company was under construction in South Andamans and was expected to go into production by June 1960.

Power : Port Blair has a 450 kW power station established in 1950. An A.C. power station also has been installed in Car Nicobar.

Transport : Port Blair has a city and rural Transport Service comprising six passenger buses and one school bus. Two more buses were being added to the fleet (Nov. 1959).

EDUCATION

The territory has three Higher Secondary Schools, two Middle Schools, 72 Primary Schools, a Teachers' Training School and the Trade School, catering for over 5,000 students.

BANKS : A branch of the State Bank of India was opened at Port Blair in 1957 and also conducts Government Treasury business. It has two sub-treasuries, one at Mayabunder and the other at Nicobar.

Medical : The Government Hospital at Port Blair has 280 beds. Besides the Port Blair Hospitals, there are hospitals at Car Nicobar, Nancowry, Rangat, Long Island and Mayabunder. The total strength of beds is 418 including the bed strength of the present T.B. Hospital at Gambooflat.

There are 27 dispensaries all over the Islands.

A Malaria and Filaria Survey Control Unit under the National Health Scheme operates in the central group of Nicobar Islands.

A V.D. Unit has been set up in Car Nicobar. The incidence of diseases in these islands is remarkably low compared to that of the mainland.

COMMUNITY DEVELOPMENT

There is scope for installation of altogether five Blocks in the Territory. Today the Community Development scheme has been extended to the South Andaman Island and the Car Nicobar Island, two out of the five inhabited areas of the Territory. The South Andaman Block covers an area occupied predominantly by the Andaman Indian population. The Car Nicobar Block covers an area predominantly occupied by the tribal Nicobarese population. The remaining three blocks namely, the Middle Andaman Block, North Andaman Block and the Central Nicobar Block will come into being before the target date prescribed by the National Development Council. The Middle and North Andaman Blocks will cover the neo-settlers and the Central Nicobar Block will cover the remaining tribal Nicobarese population.

Shipping : The Administration runs its own passenger-cum-cargo service between the island and the mainland with two motor vessels M.V. Andamans and M.V. Nicobar. The former is an 8,000 ton class ship and was built by the Hindustan Shipyard. Between these two vessels, 36 round trips are made to the mainland giving an average of one round voyage every tenth day.

The Administration also possesses a steamship S.S. Cholunga for inter-island coastal communication.

The Hospital Ship M.C. Indaus equipped as a travelling dispensary-cum-hospital was gifted to the Administration by the Australian Government under the Colombo Plan for rendering medical aid for the people of distant islands in Nicobar group, to whom the hospital is not readily approachable.

Steps are being taken to lessen the distance between the mainland and the islands.

There is a bi-weekly air service between Calcutta and Port Blair (Thursday & Saturday).

The weekly courier running between Calcutta and Car Nicobar is to be diverted to Port Blair as well. This would help in flying mails between the mainland and Port Blair.

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FIVE-YEAR PLANS

The development of colonisation and road schemes commenced in 1956. It provided for an expenditure of Rs. 592 lakhs in the public sector, for development of agricultural production, new crafts to ply between the Island and the Mainland and for Inter-island communication improvement and modernisation of forest departmental effort, and improved social services including education, health and housing. The more important Plan allocations briefly are: *Agricultural Programme:* Agricultural Production, Land Development, Minor Irrigation Rs. 32·1 lakhs; Land Resettlement and Colonisation Rs. 130·0 lakhs; Animal Husbandry Rs. 8·8 lakhs; Forests Rs. 30·0 lakhs; Co-operation, Warehousing, Fisheries Rs. 2·5 lakhs (Total Rs. 253·4 lakhs).

National Extension and Community Projects Rs. 10·21 lakhs. Power Rs. 2·5 lakhs. Cottage Industry Rs. 7·0 lakhs.

Transport & Communication: Roads Rs. 85·0 lakhs; Road Transport Rs. 1·0 lakhs; Inland Water Transport Rs. 49·0 lakhs; Shipping Rs. 105·0 lakhs; (Total Rs. 240·0 lakhs).

Social Services: Education Rs. 27·4 lakhs; Health Rs. 25·3 lakhs; Housing Rs. 21·92 lakhs; Tribal Welfare Rs. 1·0 lakhs (Total Rs. 75·62 lakhs).

Miscellaneous Rs. 3·405 lakhs; (Grand Total Rs. 592·135 lakhs).

The area under paddy in 1949-50, which was approximately 4,000 acres has risen to about 17,000 in 1960. The average yield of paddy was 17·7 maunds per acre in 1958-59. Two ships—m.v. "Nicobar" and m.v. "Andamans" perform over 30 round voyages between the Islands and the mainland in a year against the 18 round voyages performed in the past by the chartered ship. The number of schools rose from 24 in 1951-52 to 80 in 1960. Education is free up to Higher Secondary stage.

The health service is non-contributory; all-treatment—medical or surgical, general or special, prophylactic or curative, cheap or expensive, and including the ambulance transport—is completely free. The number of hospitals which in 1953 was 4 has risen to 8 in 1960 and the dispensaries from 14 in 1953 to 28 in 1960. The total bed strength has also similarly risen from 358 in 1953 to 408 in 1959. There is a bed for every 120 of the population. The Plan has done great lot in the matter of housing for Government servants, industrial workers, sweepers and the population included under the Low Income Group.

The Third Five Year Plan of the Islands contemplates an expenditure of Rs. 979·32 lakhs. The main items of expenditure are as under:

Agricultural programmes Rs. 253·79 lakhs; Community Development & Co-operation Rs. 31·98 lakhs; Power Rs. 14·35 lakhs; Industries Rs. 14·76 lakhs; Transport & Communications Rs. 514·00 lakhs; Social Services Rs. 132·89 lakhs; Miscellaneous Rs. 17·55 lakhs.

During this period the colonisation will be continued and is proposed to be extended to the hitherto unoccupied Islands. Electricity will be extended to all the five Tahsil towns. The Agricultural Development Schemes include multiplication and distribution of improved seeds, intensive cultivation of agricultural crops development and extension of plantation crops like coconut and areca, establishment of progeny orchards-cum-nurseries, intensive cultivation of horticultural crops, development of cashew-nut, and pineapple plantations and rubber plantation. The Land Development Schemes include soil conservation and reclamation of saline affected areas for cultivation. The Forestry Schemes include raising of industrial plantations of matchwood and teak, and cultural operations in the hitherto untapped areas. The Transport and Communications schemes relate to completion of the Great Andaman Trunk Road, acquisition of new passenger-cum-cargo ships for both the mainland service and inter-island service. The Social Service Schemes include universal free and compulsory education, promotion of female education and strengthening of the Trade School. Welfare of Backward Classes also receives prominent consideration.

ADMINISTRATION

The Andaman Islands are administered by the President acting through a Chief Commissioner and an Advisory Council of 5 Members. The seat of administration is at Port Blair, which is connected with Calcutta and Madras by a steamer service which calls at Port Blair every tenth day.

The islands are connected to India by wireless telegraphy.

The budget estimates for 1961-62 were: Revenue Rs. 148·57 lakhs; expenditure Rs. 297·97 lakhs.

Chief Commissioner, M. V. Rajwade, I.A.S.

Advisory Council, Lachman Singh, M.P., K. R. Ganesh, Aftab Ali, John Richardson, Rajani, Ranjan Sarkar.

Heads of Departments: Chief Conservator of Forests, M. M. Shrinivasan, I.F.S.; *Principal Engineering Officer*, N. N. Iyengar.

ANDHRA PRADESH

Capital: Hyderabad.

Area: 1,06,041 sq. miles; Population: 3,59,77,999 (Males 1,81,75,349; females 1,78,02,650) (1961) (Provisional).

Sex ratio 97·95 females for every 100 males. Highest sex ratio in Srikakulam—104 females for 100 males. Lowest in Hyderabad—93 females for 100 males.

No. of Districts: 20.

Density 339 per sq. mile. Literacy 20·81 per cent.

No. of talukas: 185.

The number of Municipal Corporations: 1. The number of Town Municipalities in Telangana: 79; Number of Municipalities in Andhra: 47; number of Panchayats in Telangana: 1,232; Total number of Class I Panchayats: 226; Total number of Class II Panchayats: 8,253; number of towns and cities in the State: 293; number of villages in the State: 29,978.

The total national income of the State for 1955-56 is estimated to be Rs. 823·10 crores.

Strength of Legislative Assembly: 302.*

The strength of the Legislative Council: 90.

No. of members from Andhra Pradesh to the Rajya Sabha: 18.

No. of members from Andhra Pradesh to the Lok Sabha: 43.

Government has decided on the recommendation of a Committee that the minimum wage in the State should be Rs. 56 from Nov. 1, 1958, and that of the clerical staff Rs. 80. About 40,000 Class IV Government servants would benefit. The total burden on the State would be Rs. 4 crores annually.

Regional Committee: A Regional Committee for the Telangana area called the Andhra Pradesh Regional Committee was constituted at Hyderabad on March 31, 1958 in accordance with the provisions in the States Reorganization Act by an order of the President of the Indian Union in February 1958. All the 105 members elected from the Telangana region to the State Legislative Assembly are members of the Regional Committee.

The Committee advises the State Government on all matters pertaining to the Telangana region. The Government is normally expected to undertake measures or introduce reforms and other legislative measures in consultation with this committee. The Telangana region comprises nine districts of the former Hyderabad State, namely Adilabad, Nizamabad, Karimnagar, Medak, Warangal, Hyderabad, Nalgonda, Khammam and Mahbubnagar.

There is no regional committee for the Andhra region of the State.

Chairman, Regional Committee, K. Achuta Reddy.

Madras-Andhra Border Dispute: The Pataskar report on the Madras-Andhra border recommended the transfer of parts of Chingleput and Salem Districts to Andhra and a part of Chittoor District including the Taluka of Tiruttani to Madras.

The Andhra-Madras Boundaries Act came into force on 1st April 1960.

Official language: In 14 of the 20 districts of the State, Telugu has been introduced as the language of correspondence with the public in offices at the taluka level and below. These 14 districts are Srikakulam, Visakhapatnam, East Godavari, West Godavari, Krishna, Nellore, Chittoor, Anantapur, Cuddapah, Kurnool, Guntur, Warangal, Khammameth and Nalgonda.

DISTRICTS

Districts with District headquarters in brackets:

Anantapur (Anantapur), Chittoor (Chittoor), Cuddappah (Cuddappah), East Godavari (Kakinada), Guntur (Guntur), Krishna (Masulipatnam), Kurnool (Kurnool), Nellore (Nellore), Srikakulam (Srikakulam), Vishakapatnam (Vishakapatnam), West Godavari (Eluru), Hyderabad (Hyderabad), Mahboobnagar (Mahboobnagar), Warangal (Warangal), Khammam (Khammam), Karimnagar (Karimnagar), Adilabad (Adilabad), Nizamabad (Nizamabad), Medak (Sangareddy), Nalgonda (Nalgonda).

POPULATION

For population of districts and talukas according to 1961 Census see under "Late Particulars."

GEOGRAPHY

The shape of Andhra Pradesh is rather curious. A short neck with protruding belly would be an apt description. It has a chain of mountains, the Eastern Ghats, running over its entire length on the eastern and northern borders.

In the far north too the country is hilly.

There are huge forest areas in Srikakulam, Vishakapatnam, Godavari, Kurnool, Warangal and Adilabad Districts.

The landscape is varied and rich.

The climate is warm and humid or hot and humid according to the season.

* Includes one nominated.

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The average annual rainfall is highest in the north varying between 45 inches and 50 inches. It gradually decreases to the south and south-west down to about 20 inches.

Two-thirds of the rain is from the south-west monsoon.

Srikakulam, Vishakapatnam, parts of Godavari and Nellore suffer from periodic floods and droughts, while the others are more liable to suffer from droughts.

There are hills and table-lands scattered throughout the State. Some of the hills are high and are covered with useful forest, some carry scrub jungle, while many are quite bare.

The soil in the area covered by the former Andhra State consists of the alluvi of the deltas and littoral tracts, red, black and brown soils.

The average yield of rice per acre in Andhra region is 1,293 lbs. while in Telangana area it is 679 lbs. (The all-India average is 729 lbs.).

There are two major rivers in the area of the former Andhra State, the Godavari and the Krishna, three medium rivers with a large number of tributaries, and twenty-nine minor and small rivers. It is estimated that together they carry annually 150 million acre ft. of water into the Bay of Bengal.

The Godavari flows for the major part through the State before it falls into the Bay of Bengal. Its main tributaries are the Manjira, the Pranhita, the Indravati, and the Sabari, some of which flow partly in the Telangana area.

The main tributaries of the Krishna are Tungabhadra, Yerla, Warna and Dudhganga.

The medium rivers are the Pennar, the Nagavalli, the Vamsadhara.

The river system of Telangana consists of two great basins, that of the Godavary and the Krishna. The former with a length of more than 600 miles in the area has a number of tributaries, the chief of which are the Painganga, the Wardha and the Pranhita from the north, and the Manjira and the Maner from the south. Among its tributaries the most important are the Bhima, the Musi on which the capital stands, and the Tungabhadra, which forms the southern boundary of the Raichur-Mudgal Doab. The Telangana region, abounds in tanks and artificial lakes constructed mainly for the purpose of irrigation.

Telangana is the land of rice and jowar. The rivers dry up in hot weather necessitating the storage of water in tanks and artificial lakes for purposes of irrigation.

AGRICULTURE

The total geographical area of the State is 66,680,000 acres (1959-60).

Net area sown was 28,738,000 acres or 43·1 per cent of the total geographical area.

Barren and uncultivable land: 64·52 lakh acres (1957-58).

Land put to non-agricultural uses: 38·19 lakh acres (1957-58).

Cultivable waste: 45·55 lakh acres (1957-58).

Permanent pastures and other grazing lands: 30·54 lakh acres.

Land under miscellaneous crops, trees and groves not included in the net area sown: 7 lakh acres.

Current fallows: 43,35,000 acres (1959-60).

Other fallow lands: 16,09,000 acres (1959-60).

Forests: 15,146,000 acres (1959-60).

Area sown more than once: 24 lakh acres.

Total cropped area: 307·50 lakh acres.

Production figures for 1959-60 of some of the main crops are as follows: Cereals 55,27,030 tons; Rice 36,14,000 tons; Jowar 2,79,000 tons; Maize 1,02,970 tons; Pulses 2,71,610 tons; Tuar 42,100 tons; Green Gram 65,970 tons; Sugarcane 6,27,000 tons; Chillies 1,12,840 tons; Oilseeds 13,95,027 tons; Groundnut 10,02,530 tons; Castor 63,780 tons; Cotton 1,26,890 (bales); Tobacco 1,32,530 tons; Bajra 2,93,980 tons; Ragi 2,86,250 tons; Minor millets 3,94,920 tons; Bengal gram 32,100 tons; Black gram 28,690 tons; Horse gram 88,450 tons; Onions 1,62,600 tons; Sesamum 52,020 tons; Mesta 2,57,860 tons.

Total area under crops in 1957-58: 29·6 million acres.

Area under cereals and millets (1957-58): 18,498,800 acres.

Production of cereals and millets (1957-58): 54,01,600 tons.

Area and production respectively within brackets for 1957-58 of rice and jowar: Rice (6,912,300 acres; 3,293,800 tons); Jowar (6,224,400 acres; 1,064,400 tons).

The production of foodgrains in 1959-60 was 60·16 lakh tons. A fertiliser factory costing Rs. 25 crores is being set up at Kothagudem which will greatly help in raising food production.

The total production of rice is estimated at 36 lakh tons in 1959-60. Out of this five lakh tons may be available for export.

The more useful species of timber produced are Kosum, Toon, Rosewood, Irul, Teak. Bamboo suitable for the manufacture of paper pulp also occur in abundance.

Total Forest area: about 146 lakh acres.

LAND REFORMS

According to the census of land holdings conducted in 1954 in the Telangana region and in 1955 in Andhra region, the total number of holdings in Andhra Pradesh is 42,43,655 comprising an area of 3,41,91,769 acres. The average size of a single holding is 8·1 acres. 39·87 lakh holdings are under the personal cultivation of the owners wholly or partly and the remaining 2·56 lakh holdings are completely leased out. The area leased out is 39·29 lakh acres or 11·5 per cent of the total owned area in the holdings. The remaining 88·5 per cent or 302·63 lakh acres are under the personal cultivation of the owners, and they include lands put to non-agricultural uses.

The Tenancy Acts in force are the Hyderabad Tenancy and Agricultural Lands Act, the Hyderabad Prevention of Fragmentation and Consolidation of Holdings Act, the Estates Land Act, the Rent Reduction Act, the Inams Abolition Act and the Andhra Tenancy Act.

An ordinance was promulgated in 1957 calling upon those owning more than 20 acres of land in the former Andhra region to furnish details of their holdings to the Government.

In 1958 a bill, fixing ceiling on land holdings for the entire State of Andhra Pradesh, was drafted and introduced in the State Assembly. The proposals in it have received the approval of the Planning Commission. This fixes the maximum holding as one fetching an annual income of Rs. 5,400. The Planning Commission recently suggested to reduce the ceiling to Rs. 3,600 for the sake of uniformity in the entire country. The Bill* was passed by the legislature in July 1960.

The definition of 'estate' under the Estates Land Act was enlarged in 1956 so as to include within its scope inam hamlets and inam Khandrigas in inam villages, thereby ensuring the application of the Rent Reduction Act and to some extent the Abolition Act to these Inams. Legislation for the abolition of all 'inams' other than 'estates' and for their conversion into ryotwari tenure, was undertaken. With a view to completing the scheme for the abolition of intermediaries proposals are under Government's consideration for legislation for the abolition of the post-1936 inam estates also. The Andhra Tenancy Act was enacted in 1955 providing mainly for the regulation of grants payable by tenants to landlords and for the prescription of a minimum period for agricultural leases. The Hyderabad Tenancy Act was amended so as to confer the right of protected tenancy on a larger class of tenants than had hitherto enjoyed such benefits.

All those who had cultivated land continuously for six years within a prescribed period were classified as protected tenants. They numbered, according to a census taken in 1953-54, about 620,000 in the entire former State and about 260,743 in the nine districts of Telangana. So long as the tenant paid his rent—which in case of dispute was determined by the Government according to a formula linked with the land revenue—he enjoyed absolute rights of cultivation.

The Government promulgated an ordinance to ban all evictions retrospectively from March 21, 1952. Some 600 suits were stayed and more than 5,000 tenants restored to their lands.

The protected tenants were given special privileges, including the right to purchase land held by them on easy terms. There was a limit to the extent of land they could thus purchase.

The tenant's total extent of land, including his own, should not exceed one family holding, which is defined as the extent of land capable of yielding a gross annual income of Rs. 1,600.

The ceiling on present holdings of a landlord was fixed at 4·5 family holdings, while that on future holdings was scaled down to three acres.

Any protected tenant can notify his desire to purchase the land under his occupation provided the landowner does not own more than two family holdings in all. In case the landowner fails to concede his request, an application is made to a tribunal, which will decide how much of the land should be sold to him and at what price.

The Act fixed the maximum limits of the reasonable price which the tenant should pay. They were computed in multiples of land revenue —for dry, *chalka* lands 60 times the land revenue and for wet lands irrigated under flow water or wells 24 times the land revenue.

The price is payable in 16 instalments spread over not more than eight years.

Of the 260,743 protected tenants in Telangana, only 13,125 exercised their right of purchase and bought 142,417 acres.

Towards the end of 1955, it was decided to apply section 38-E of the Tenancy Act in certain selected areas, by which the protected tenants automatically became the owners of the lands, whether or not they made any application in writing to that effect, and it was up to the landlord to prove that this or that particular plot of land was required by him.

This was applied throughout Khammam district and in the Mulug taluka of Warangal district.

By the end of 1957, 11,426 protected tenants in Khammam and 1,900 in Mulug had become "owners" of their lands.

It was estimated that throughout Telangana, there were about 5,400 substantial landholders, that is, those who owned more than the statutory limit of 4·5 family holdings (that would yield an annual gross income of Rs. 7,200). In terms of acres, though they vary from district to district, it is estimated that on an average, a family holding ranges from six to nine acres of wet land and 21 to 60 acres of dry land.

The substantial landholders in Telangana together own about 3,958 acres of dry land (assuming six acres of dry land as equivalent to one acre of wet land). The surplus land available for distribution among the landless will be in the neighbourhood of 536,000 acres.

Consolidation of land holdings and prevention of fragmentation were being worked out on an experimental basis in 50 selected villages.

LIVESTOCK

The figures (latest available, 1956) for livestock are in thousands.

Total Cattle 11,276

1. Males over 3 years 4,842 including 23·34 breeding bulls.
2. Females over 3 years 3,762·17 including 1,431·34 in milk.

* The ceiling is 4½ times the family holding in a family consisting of not more than five members. The Act was to come into operation from June 1961.

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3. Young Stock under three years 2,671·96. Total males 6,130·57 ; total females 5,145·56.

Total Buffaloes 17,244·18

Total males 8,058·745

Total females 9,185·43

Total Goats 3,693·415

Total Horses and Ponies 31·51

Males 16·11

Females 15·40

Mules 0·382.

Donkeys 76·42

Camels 0·107

Pigs 620·84

Total Poultry 14,737·29

Hens 4,649·63 ; Cocks 1,800·72 ; Chicken 7,956·52 ; Ducks 298·73.

LARGE-SCALE INDUSTRY

The main industries are Sugar, Paper, Cement, Jute, Oil crushing, Ceramic, Coal, Cigarettes and Textiles. There is a big sugar factory at Bodhan in Nizamabad District and there are other factories in different places. Paper mills are at Sirpur in Adilabad District, Andhra Paper Mills, Rajahmundry, a State-owned commercial concern with a 10-ton capacity per day and the Sri Venkateswara Paper and Straw Board Mills, Tirupathi with a 10-ton capacity per day. Cement factories are at Vijayawada and other places. Two cement factories in Adilabad and Guntur districts have gone into production during 1958 and another in Kurnool District in 1959. Cigarette factories are concentrated in Hyderabad City. Textile Mills are in Hyderabad, Warangal and a few other towns. A starch producing unit at Hyderabad started production during 1959. The Gudur Ceramic Factory went into production from April 1, 1959.

In the Telangana area there are eleven textile factories which employ 8,030 persons, 111 tobacco units employing 8,300 persons, two cotton and ginning factories employing 600 persons. There is the ship-building yard at Visakhapatnam.

There are proposals to set up two fertilizer factories at Kothagudem and Visakhapatnam. A cycle parts manufacturing factory has been set up at Vijayawada.

The Andhra Pradesh Government has set up an Industrial Development Corporation for the promotion of large-scale, medium and small-scale industries in the State.

Production figures for 1959 of the various industries are given below : Sugar 125,000 tons ; paper 24,800 tons ; cement 580,000 tons ; cigarettes 628 crores ; cotton piecegoods 314 lakh yds. ; cotton yarn 332 lakh lbs. ; coal 22·6 lakh tons.

MINERALS

The chief minerals produced in the State are coal, iron ore, limestone, manganese and asbestos. The coal industry is situated at Kothagudem, Tandur, Yellandu and Sasti in Telangana region. Other minerals are widely distributed. According to the Geological Survey of India, two large deposits of iron ore containing an estimated reserve of nearly 380 million tons of ore have been located in Guntur and Nellore districts.

Production figures for 1959-60 are as follows:— Manganese 16,000 tons ; Mica 3,000 tons ; Iron Ore 195,000 tons ; Limestone 705,000 tons ; Asbestos 369 tons ; Barytes 6,315* tons.

COTTAGE INDUSTRIES

The number of workers employed in small-scale and cottage industries, according to the 1951 census, was 1,107,368 and these were distributed over 355,010 establishments. The most important industry is that of handloom. There are about 4 lakh handlooms in the State ; besides, there are 14,000 looms for woollen fabrics. The State has thus the largest number of looms in India and this industry provides employment for about 323,000 persons and livelihood for 1,615,000 persons. Assuming that the overall production per month per weaver is 100 yards, the annual output of handloom cloth per annum works out to about 39 crore yards of cloth.

Other important cottage industries are Kambli-weaving which employs about 39,000 persons, coir making employing about 12,000 persons and basket making which employs about 40,000 persons.

Certain handicrafts of Andhra Pradesh are world famous. Notable among these are the silver filigree articles of Karimnagar, the exquisite toys of Nirmal, Kondapalli, Nakkapalli and Tirupathi, the carpets of Warangal and Eluru and the lace goods of Narsapur. Twenty-five schemes were implemented during 1958-59 at a cost of Rs. 5,48,502 under the Handicrafts sector. Nine Handicrafts Co-operative Societies were formed.

During 1958-59, 26 sericultural schemes were implemented expending Rs. 4·15 lakhs.

TRANSPORT

The total railway route mileage open for traffic in Andhra Pradesh as on March 31, 1958 was 2,827 miles out of which 1,660 miles were Broad Gauge, 1,144 miles Metre Gauge and 23 miles Narrow Gauge. The total road mileage including National Highways, State Highways, major district and other district roads is 14,466 miles.

A high level bridge costing Rs. 57 lakhs was being constructed across the Godavari near Bhadrachalam which will be a boon to pilgrims visiting the temple of Sri Rama (1960).

The Andhra Pradesh Road Transport is a nationalised service now largely serving Telangana area. In March 1959 the road mileage covered by it was 3,857 ; its total fleet strength 610 buses. Its total earnings from the Telangana area stood at nearly Rs. 1,74,75,736 in 1954-55 and Rs. 1,77,67,489 in 1955-56 while the expenditure was Rs. 1,65,09,000 and Rs. 1,71,28,000 respectively. The number of passengers carried was 4,802,101 as on March 1958.

After the Government decided to extend the nationalised road transport to the Andhra region also, a Road Transport Corporation was formed which took over certain routes in Krishna District as a first step. This was challenged by the private operators affected and the Supreme Court gave a decision against the Government. The Government after conducting the necessary procedural formalities, reintroduced the scheme of nationalisation in the District of Krishna. The nationalised road transport services will be extended progressively to other Andhra Districts also.

There is a well-developed airport at Begumpet in Hyderabad city ; there are landing grounds near Vijayawada and Visakhapatnam.

Many canals in the Andhra area are used for boat transport.

There are two broadcasting stations in the State—at Hyderabad and Vijayawada. There were 5,465 community listening sets in the State on Aug. 31, 1960.

The City of Secunderabad is the headquarters of the Secunderabad Division of the Central Railway and is the junction of the Broad Gauge and Metre Gauge systems. From here lines radiate east, south, west and north. The total mileage open for traffic which now constitutes the Secunderabad Division of the Central Railway is 1,461 miles.

Hyderabad City is connected by air with Bombay, Nagpur, Madras, Visakhapatnam and Bangalore. Hyderabad City is served by Begumpet aerodrome. Hyderabad is also linked by air to Delhi and Calcutta.

POWER PROJECTS

Installed capacity in State : 192,876 K.W. (1958).

Actual production of State : 246·903 million units (1956-57).

The following table gives particulars about power projects in Andhra Pradesh:

Name.	Location	Installed capacity	Production in million units	Cost Rs.	Commissioning date
HYDRO-STATIONS:					
† Machkund	Machkund (Orissa)	59,500 K.W.	155·149	About 13·75 crores (1st stage)	1955
‡Tungabhadra	Tungabhadra Dam & Hampi (Mysore State)	18,000 K.W.	6·587	7·5 crores (1st stage)	1956–57
Nizamsagar	Nizamabad District	15,000 K.W.	16·578	..	..
THERMAL STATIONS :					
Visakhapatnam	Vizag.	6,750 K.W.	3·198	..	..
Vijayawada	Vijayawada	12,000 K.W.	1·289	..	..
Nellore	Nellore	5,000 K.W.	2·789	..	1950
Hussainsagar	Hyderabad	24,000 K.W.	53·556	About 3·3 crores	1922
Ramagundam	Ramagundam	37,500 K.W.			1956
DIESEL STATIONS**					
Giddalur	Giddalur	52 K.W.	0·034	..	1955
Markapur	Markapur	170 K.W.	0·005	..	1956
Cumbum	Cumbum	170 K.W.	0·001	..	1956

* Figures for 1956.

† This is a joint venture of the Andhra Pradesh and the Orissa States. The cost and power generated are to be shared in the ratio of 70 : 30. This project was started in 1946.

‡ This scheme is under the control of the Tungabhadra Board constituted by the President of the Indian Union consequent on the formation of the Andhra State, from 1-10-1953 and the transfer to the Mysore State from that date of 7 taluks of Bellary District in which the project is located. The expenditure and the benefits of power are to be shared by Andhra and Mysore Governments in the ratio of 80 : 20. This project was started in 1953. The installed capacity is that of two generators.

** A number of stations were progressively stopped with the advent of hydro-power from Tungabhadra Dam.

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The number of villages and towns electrified at the end of October 1959 was expected to be 1,870. The number of villages to be electrified was expected to be raised to 2,400 by the end of the 2nd Plan. The gross revenue on electricity schemes during 1958-59 was of the order of Rs. 4·5 crores.

An Electricity Board has been constituted and started functioning during 1959.

The per capita consumption of electricity in the State was 12 units (November 1959).

Chittoor, Hindupur, Warangal, Yellandu :

For Chittoor and Hindupur, the installed capacity is 6,162 kW. and the production in 1956-57 was 23·653 million units.

Bulk supply of hydro-power is being purchased from (1) Mettur Project at 7 points of supply in Chittoor area. The maximum demand recorded 2,779·4 kW. as against the original agreement of 3,400 kW. (2) Mysore Jog Power at Bellary. Maximum demand recorded 2,830 kW. as against 2,000 kW. (3) Mysore Sivasmudaram Power at Hindupur. Maximum demand recorded 553 kW. as against 700 kW.

For Warangal the installed capacity is 800 kW. and production in 1956-57 was 3·151 million units. For Yellandu the installed capacity is 160 kW. and production in 1956-57 was 0·336 million units.

For Warangal and Yellandu power is being purchased in bulk from the local mills and distributed by Government.

SECOND PLAN

Investigations on the following power projects were being undertaken during the Second Plan period. (1) Nagarjunasagar Hydro-Electric Scheme; (2) Lower Sileru Hydro-Electric Scheme; (3) Nagarjunasagar Canal Power House; (4) Srisailam Hydro-Electric Scheme; (5) Sangareddy Hydro-Electric Scheme; (6) Laxmipuram Hydro-Electric Scheme; (7) Pulichintala Hydro-Electric Scheme; (8) Siddeswaram Hydro-Electric Scheme.

The targets of power production proposed during the Second Plan period were as follows: Installed capacity 1,44,100 kW.; Transmission lines to be constructed, H.T. and L.T. 2,330 miles; Total load to be connected 3,77,100 kW.; Aggregate peak demand 1,27,000 kW.; Consumers that will be served 30,000; Agricultural Services 5,400; Villages and towns to be electrified 340; Per Capita consumption 20 units.

Under the Second Plan, the installed capacity has risen by 122,825 kW.; 1,344 more towns and villages were electrified.

An agreement was signed shortly before Nov. 1959 between Andhra Pradesh and Orissa Governments for working out the Upper Sileru Hydro-Electric project during the 2nd Five-Year Plan. Under this the Government of Andhra Pradesh can go ahead with the project with an estimated capacity of 1·2 lakh kW.

Establishment of Development Areas

Industrial Development Areas are planned with a view to creating the industrial climate with large, medium and small industries.

Plots of land which are linked up with communications will be selected and divided into suitable plots for the establishment of factories. Facilities like water supply, electricity, sewage and roads will also be provided in the Development Areas.

A sum of Rs. 75 lakhs is provided in the Third Five Year Plan programme for the Industrial Development Areas. Two of these areas will be set up in the Andhra region and one in Telangana.

IRRIGATION

Statement showing the net area irrigated by different sources, gross area irrigated and area irrigated more than once in Andhra Pradesh during 1957-58: Govt. canals 3,019,000 acres; Private canals 38,000 acres Tanks 2,746,000 acres; Wells 738,000 acres; Other sources 213,000 acres.

Total net area irrigated 7,068,200 acres.

Total gross area irrigated 8,371,172 acres.

Area irrigated more than once 1,302,972 acres.

A sum of Rs. 14·57 crores was spent on major and medium size irrigation projects in the Andhra region during the First Plan period. Five major irrigation projects, *viz.*, the Tungabhadra, Upper Pennar, Romperu Drainage, Rallapadu (Second stage) and Bhairavani-tippa Projects, were taken up for execution to benefit an area of 303,190 acres in the districts of Krishna, Guntur, Nellore and Anantapur. Krishna regular-cum-bridge was inaugurated on Dec. 24, 1957. On these alone Rs. 11·14 crores were spent during the First Plan period.

In the Rallapad Project (Nellore District) work is completed at a cost of Rs. 85·49 lakhs. An area of 5,000 acres was proposed to be benefited by the end of March 1960.

Under the Romperu Project an ayacut of 8,196 acres was brought under irrigation. A sum of Rs. 225·42 lakhs was spent on Krishna Barrage Scheme till the end of March 1959.

The Bhairavanithippa Project is for irrigating 9,700 acres in drought affected areas of Anantapur District. It costs Rs. 141·932 lakhs. More than 82 per cent of the work had been completed and water let out for irrigation (Nov. 1959).

The Upper Pennar Project costing Rs. 153·65 lakhs is completed and water has been stored and let out for irrigation. Seventeen medium projects to provide irrigation facilities to 385,274 acres of land were taken up for execution and four of them were completed during the First Plan period. On these a sum of Rs. 343·22 lakhs was spent. Four of the medium projects are located in Srikakulam district, three each in Nellore and Chittoor districts, two each in Cuddappah and Anantapur districts and one each in Visakhapatnam, West Godavari and Kurnool districts.

A sum of Rs. 436·27 lakhs was spent during the First Plan period on two major irrigation projects in Telangana, *viz.*, the Rajolibanda Diversion Scheme for providing irrigation facilities to about one lakh acres in the Mahbubnagar district and the Kadam Project benefiting an area of 67,000 acres in the Adilabad district. They were continued as spill-over schemes in the Second Plan and a sum of Rs. 145·35 lakhs was provided for them. The Rajolibunda Diversion Scheme was expected to be completed before June 1960. Also during the First Plan period a sum of Rs. 129·83 lakhs was spent on five medium irrigation projects, *viz.*, Koilsagar and Sarlasagar Projects to benefit 16,000 acres in Mahbubnagar district, the Musi and Bhimanpally Projects benefiting 39,860 acres in Nalgonda district and the Sirala Project benefiting 3,000 acres in Adilabad district. In the Second Plan these schemes got a provision of Rs. 64·86 lakhs. The total area benefited by these major and medium projects is 229,860 acres.

The Kadam dam (in Adilabad district), 5,945 ft. long and estimated to cost Rs. 441 lakhs, was completed by the middle of 1958; but it suffered serious breaches on September 1, 1958 due to heavy floods in the river. The Government appointed a Committee to enquire into the causes of this calamity.

A unique achievement with regard to the Musi project in Nalgonda District is that without damming the river or building a reservoir, irrigation water for 2,000 acres of land has been given already through the right flank canal. The reservoir, when completed, will be an 8 sq. mile sheet of water. Irrigation water for 5,000 acres was given by June 1958 and the complete development of 38,000 acres was to be over in two years.

All the major and medium irrigation projects except the four medium projects completed during the First Plan period were included as continuing schemes in the Second Plan. The Vamsadhara Project was a new major scheme included in the Second Plan. A sum of Rs. 32·30 crores was provided in the Second Plan for the Nagarjunasagar Project which is common to both the regions of Andhra Pradesh.

The major and medium irrigation projects included in the Second Plan for Andhra were expected to bring 4·49 lakh acres more under irrigation during the Second Plan period while the area ultimately expected to benefit from these, amounts to 9·18 lakh acres.

A total provision of Rs. 93·92 lakhs was made for minor irrigation projects in the State. An expenditure of Rs. 168·37 lakhs has been incurred under this programme during the first three years of the Second Plan.

Allocation for major and medium irrigation and power projects for 1960-61: Rs. 1,664·84 lakhs.

Nagarjunasagar Project. The project in its first Stage comprises the construction of a masonry dam 302 feet high above the foundation level, across the Krishna river near Nandikonda about 90 miles below Siddeswaram, and two canals taking off from the reservoir, known as the left and the right bank canals. The dam is situated about ten miles from Macherla railway station in Guntur district. Large areas extending between the Krishna and Godavari in the north and the Krishna and the Pennar in the south can be commanded by the reservoir.

The project will have a gross storage capacity of 5·44 million acre feet and is expected to be completed in 1965.

The right bank canal which will be 135 miles long will carry a discharge of 11,000 cusecs in the first Stage. The left bank canal will be 108 miles long and will lead up to the river Muneru in the first stage, and will flow through Telangana.

The cost of the first Stage of the projects namely, construction of the dam and the two canals is estimated to be about Rs. 93·27 crores.

The present scheme which forms the first Stage of the project will irrigate about 2·06 million acres of land spread over the districts of Guntur, Kurnool, Nellore, Warangal and Nalgonda.

The second stage of the project which will be taken up later, will provide for the generation of electric power.

The Dam has reached a height of 100 ft. in parts and the excavation of the main canals is in progress up to 50 miles on either side.

Besides these, other medium projects taken up during the First Plan are Koilsagar project (Mahbubnagar District), Sarla Sagar project (Mahbubnagar District), Bheemanpally project (Nalgonda District) and Sirala project (Adilabad District).

In the Second Plan the provision made for the execution of major projects was Rs. 897·76 lakhs, for medium (spill over) projects Rs. 360·85 lakhs and new medium schemes Rs. 376·34 lakhs.

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The following tables show particulars about some irrigation projects :

Name of Project	District/Area benefited	Total cost Rs. in lakhs	Development Expenditure Five years 1951–56 Rs. in lakhs	Area to be irrigated on completion in '000 acres
Rallapad, IInd Stage	Nellore	90	58	8
Romperu drain	Guntur	1,28	68	10
Upper Pennar	Anantapur	1,32	1,12	10
Bhairavanitippa	Bellary* and Anantapur	1,29	50	10
Tungabhadra	Kurnool, Anantapur, Cuddappah	12,44	7,27	149
Total	—	17,23	10,15	187

Other projects (the name, irrigation benefit in lakh acres and the probable or actual date of completion) are :

Krishna Barrage, 1·17, 1960-61 ; Godavari First Phase, 0·67, 1960–61 ; Sarla Sagar, 0·048, March 1958 ; Rajolibunda, 1·14, 1960 ; Nagavalli, 0·09, March 1960 ; Vegavathi, 0·064, March 1960 ; Gambiragedda, 0·105, March 1958 ; Seethanagaram, 0·04, March 1960 ; Narayanapuram, 0·368, March 1959 ; Kalangi, 0·043, 1959-60 ; Mallimadugu, 0·040, 1959-60 ; Lower Sagileru, 0·03, March 1958 ; Pancha Nadi, 0·045, March 1958 ; K. C. Canal, 1·959, 1958-59 ; Cheenarayaswami, 0·011, March 1958 ; Musi, 0·38, 1959-60 ; Koil Sagar, 0·12, 1958-59.

Second Plan Schemes : Paleru Bitraganta, 0·048, 1960-61 ; Paidigam, 0·035, 1960-61 ; Jutpally, 0·022, 1960-61 ; Lakkanpur, 0·03, 1960-61.

Total irrigation potential created up to March 1958 : 322,754 acres ; percentage of utilisation at the end of March 1958 : 55.

CO-OPERATION

(See article on *Co-operative Movement*)

COMMUNITY DEVELOPMENT

Total no. of Stage I blocks in the State 1959-60: 156 ; Stage II : 75 ; Panchayat Samitis : 271.

Community development blocks : 445 ; by the end of the Second Plan the programme was to cover 189 blocks.

Accepting the scheme of Democratic Decentralisation, Andhra Pradesh formed 20 *Ad hoc* Panchayat Samitis in 1958 which have produced encouraging results. Following the enactment of the Andhra Pradesh Panchayat Samitis & Zilla Parishads Act, statutory Samitis and Parishads are now being formed. The first such Samiti was inaugurated by the Prime Minister of India at Shadnagar on October 11, 1959.

Achievements under the Community Development Programme upto 1959-60 are as follows :

No. of villages covered : 17,887 ; population covered : 18,731,000 ; Government expenditure : Rs. 7,38,58,665 ; people's contribution : Rs. 4,18,53,921 ; drinking water wells dug : 1,22,000 ; new roads constructed : 6,332 miles ; existing roads improved : 5,003 miles ; no. of culverts constructed : 2,466 ; no. of adult literacy centres opened : 5,000 ; no. of adults made literate : 3,11,900 ; no. of persons provided with additional part-time employment : 63,784 ; no. of persons given additional full-time employment : 32,910 ; no. of co-operative societies functioning : 9,300 ; membership of co-operative societies : 10,15,800.

In 1959-60, there were 282 blocks covering 17,887 villages with a total population of 187 lakhs.

LABOUR

During the period of three years from 1st November 1956 there were 163 strikes and lock-outs in Andhra Pradesh involving 69,108 workers and resulting in a time loss of 4,90,691 man-days. Six hundred and thirty-six conciliations were taken up during the period. Out of these 256 were successful, 47 disputes were referred to the Industrial Tribunal and 112 disputes to the Labour Courts.

During the period, 433 applications were received from different trade unions and 290 were registered with a total membership of 95,356.

Social Welfare Centres have been established at the following places : Vijayawada, Guntur, Visakhapatnam, Musheerabad, Warangal, Nizamabad, Sanatnagar (Secunderabad). Azamabad and Seethaphalmandi.

During the period, workers' education classes were opened in 10 factories. The scheme envisages the appointment of full-time teachers to teach the illiterate workers. Libraries were also opened in 10 factories.

A total sum of Rs. 5,30,333 towards fatal cases and a sum of Rs. 21,002 towards non-fatal cases were deposited with the Commissioner, Workmen's compensation. A sum of Rs. 14,12,584 and a sum of Rs. 27,029 were paid to the beneficiaries in fatal and non-fatal cases respectively during the period.

Under the subsidised Industrial Housing Scheme, the State Government has constructed 600 tenements in various places.

PUBLIC HEALTH

Plague, Cholera, Small-pox, Tuberculosis, Malaria, Filaria, and Yaws are among the common diseases in the State, but Government efforts to fight these have produced remarkable results in the case of some. Plague used to be almost an annual visitation to Hyderabad City but drastic preventive measures taken in recent years have practically eliminated it. Cholera, Small-pox and other seasonal epidemics continue to attack people but Government steps to reduce their incidence are also proving effective. The B.C.G. vaccination campaign against tuberculosis is in full swing and by the close of the First Plan period nearly 18,00,000 persons were tested and 6,23,000 vaccinated in the former Andhra State. In Telangana region also the scheme is being extended.

Organised assault on malaria is going on, regions vulnerable to the disease claiming priority. There are six National Malaria Control Programme Units, four for the Plains areas and two for the Agency areas, each covering one million population. These units are stationed at Visakhapatnam, Vijayawada, Nellore, Anantapur, Dummagudem and Araku valley. In the Telangana region there are three units at Nirmal, Nizamabad and Warangal. Other anti-malaria operations also exist in Tungabhadra Project area, Machkund Hydro-electric Project area and Nagarjunasagar Project area. The malaria laboratories and museum at Hyderabad afford training facilities.

Under the National Filaria Control Programme sponsored by Government of India there are two Filaria Control Units at Mandapeta in East Godavari District and one at Kamareddi in Nizamabad District and one Filaria Survey Unit at Hyderabad in the State.

Indoor residual adulticidal spraying operations form the major part of the work. Regularly persons are contacted for clinical assessment of the disease and efforts are being made to cover the whole population. Entomological observations are being carried out.

The following work was done till June 1957 in the Andhra area in connection with the Anti-Yaws schemes to eradicate Yaws from among the tribes. Population examined 5,05,103 ; coverage 95·9 per cent ; Yaws cases treated 33,598 ; percentages of treated cases to population examined 6·6 per cent ; P. A. M. expended 1,45,546 c.c. The above scheme was completed by September 30, 1957.

Work carried out in the Telangana area during 1957 : Population examined 1,36,512 ; Yaws cases treated 3,517 ; Yaws contact treated 387 ; P. A. M. spent 19,838 c.c.

No. of hospitals and dispensaries in the State : 1,048 ; no. of beds available for general patients : nearly 18,533 ; no. of beds for T.B. patients alone : about 1,400.

Figures for 1959 : Birth rate in the State 17·00 ; death rate 7·60 ; infant mortality rate 82·08 ; maternal mortality rate 4·06.

Second Plan provision for the Medical and Health Development Programme in the State : Rs. 11·01 crores.

EDUCATION†

There are three Universities in the State : The Andhra University at Waltair, the Osmania University at Hyderabad and the Sri Venkateswara University at Tirupati.

Total no. of educational institutions in the State at the end of 1958-59 : 35,287. No. of students in these institutions : 33,15,409, which is 10·7 per cent of the population of the State.

Besides a large number of Colleges offering general education, two Agricultural Colleges, six Medical Colleges, two Science Colleges, two Veterinary Colleges, two Women's Colleges, a Law College, 13 Polytechnics, six Engineering Colleges and two Mining Institutes exist in the State. There are 11 Colleges giving higher education in Sanskrit. One novel experiment is a Janata College in Warangal district where rural youths are given training in better methods of agriculture, rural social service, health and hygiene, rural surveys and crafts.

As for training facilities, there are 4 B.Ed. Colleges, besides a number of Secondary Grade Training Centres and Basic Training Centres. The old type of adult schools are being replaced by Social Education Centres. A College of Nursing with B.Sc. Nursing Course has been instituted at Hyderabad.

Public libraries in the State : 1,418.

(For more statistical information see "Education Tables" under Late Particulars).

To implement the policy of nationalization of text books, a Text Book Press has been established at Hyderabad. The Government have decided to introduce compulsory primary education in the State by the end of the 3rd Plan.

THE THIRD FIVE-YEAR PLAN

(See under Third Five Year Plan in "Late Particulars").

BUDGET FOR 1961-62

(See under "Late Particulars".)

* Now in Mysore.

† There is a small discrepancy between figures here and those given by the Government of India under 'Educational Statistics'.

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ANDHRA UNIVERSITY

(Waltair)

Chancellor : Governor of Andhra Pradesh.

Pro-Chancellor : S. B. P. Pattabhi Rama Rao, B.A., B.L., Minister for Education, Andhra Pradesh.

Vice-Chancellor : Dr. A. L. Narayana.

Registrar : K. V. Gopalaswamy, M.A. (Oxon.), Barrister-at-Law.

Deputy Registrar : V. Simhadri Rao, M.A.

The Professors are as follows :

K. Rangadhama Rao, M.A., D.Sc. (Madras), D.Sc. (Lond.) (*Professor and Head of the Department of Physics*).

Dr. B. Ramachandra Rao, M.Sc., D.Sc. (*Professor of Physics*).

Swami Jnanananda, M.Sc., D.Sc., Ph.D., F.I.P.S. Sigma XI (*Professor and Head of the Department of Nuclear Physics.*)

V. Ramaswamy, B.A. (Cantab.), Ph.D. (Cantab.) (*Professor and Head of the Department of Mathematics*).

G. J. Somayaji, M.A., L.T., Vidwan, P.O.L. (*Professor and Head of the Department of Telugu*).

K. R. Srinivasa Iyengar, M.A., D.Litt. (*Professor and Head of the Department of English*).

Prof. K. K. Das, B.Com. (Lond.), D.Sc. (Harward) (*Professor and Head of the Department of Commerce*).

Prof. K. Subrahmanyam Naidu, M.A., I.A.S. (Retd.) (*Professor of Co-operation*).

S. Meenakshisundaram, M.A., D.Sc. (*Professor and Head of the Department of Mathematical Physics*).

T. Venkatarayudu, M.A., Ph.D. (*Birla Professor, Department of Mathematical Physics*).

Dr. M. S. Krishnan, M.A. (Mad.), Ph.D. (Lond.), D.I.C. (Lond.), A.C.S., F.A.Sc., F.N.I. (*Professor and Head of the Department of Geo-physics*).

Dr. B. Sundararama Rao, M.Sc. (Hons.), D.Sc., D.I.C. (Lond.), Ph.D. (Lond.) (*Professor of Geo-Physics*).

Dr. R. Ramanathan, M.Sc., M.I.R.E., Ph.D. (Lond.), D.I.C. (Lond.) (*Professor of Meteorology*).

G. Gopala Rao, M.Sc., A.I.C. (Lond.), D.Sc. (Allahabad) (*Vikrama Deo Professor and Head of the Department of Chemistry*).

Bh. S. V. Raghava Rao, M.Sc., A.I.C. (Lond.), Ph.D. (Lond.), A.I.I.Sc. (*Vishakapatnam District Board Professor of Chemistry*).

C. Venkata Rao, M.Sc. (Hons.), D.I.C. (Lond.), Ph.D. (Del.), M.I.I.Ch.E., M.Pi.MW. Eppstok (*Professor and Head of the Department of Technology*).

S. Rangaswamy, M.A., Ph.D., D.Phil. (Pharm.) (Basle), F.R.I.C. (Lond.), F.R.S.A., F.A.Sc. (*Professor and Head of the Department of Pharmacy*).

K. Nagabhushanam, M.A., Fil.Lic., D.Fil. (Stockholm) (*Professor and Head of the Department of Statistics*).

C. Mahadevan, M.A., D.Sc., F.A.Sc., M.A.I.M.E., F.N.I. (*Principal, University Colleges and Professor and Head of the Department of Geology*).

Dr. P. N. Ganapathy, M.A., M.Sc., D.Sc., F.A.S.C., F.Z.S.I. (*Professor and Head of the Department of Zoology*).

S. Venkataraman, B.A., M.L. (*Professor and Head of the Department of Law*).

S. T. Krishnaswamy Chetti, M.A., M.Sc. (Lond.), D.I.C. (Lond.), F.R.M.S. (*Professor and Head of the Department of Applied Physics including Manufacturing Section*).

J. Venkateswarlu, M.Sc., D.Sc., Ph.D. (Cantab.), F.A.Sc., F.B.S. (*Professor and Head of the Department of Botany*).

Prof. C. Kunhan Raja, M.A. (Mad.), D.Phill. (Oxon.) (*Professor of Sanskrit*).

B. Sarveswara Rao, M.A., Ph.D.(Lond.) (*Professor and Head of the Department of Economics and Sociology*).

D. Seetapathi Rao, B.A., B.Sc. (Engg.), M.Sc. (Engg.) (Lond.), D.I.C. (Lond.) (*Professor and Head of the Department of Engineering*); K. Krishnamacharyulu, B.E.C.E. (Hons.), M.Sc. (Lond.), D.I.C. (Lond.), A.M.I.C. (*Professor of Civil Engineering*).

K. Sachidanandamurty, B.A. (Hons.) (*Reader and Head of the Department of Philosophy*).

The Heads of Departments who are not professors are as follows :—

S. T. Krishnamachari, B.A., B.L., C.P.F. (Paris), D.I.A. (Berlin) (*Reader and Head of the Department of French and German*).

Dr. O. Ramachandraiya, M.A., Ph.D. (Lond.) (*Reader and Head of the Department of History and Politics*).

List of Colleges in the University Area (51)

(1959-60)

University Colleges (5)

University College of Arts and Commerce, Waltair.

Jeypore Vikramadeo College of Science and Technology, Waltair.

Erskine College of Natural Sciences, Waltair.

University College of Law, Waltair.

University College of Engineering, Waltair.

Professional Colleges (7)

Agricultural College, Bapatla, Guntur Dist.

College of Engineering, Kakinada.

St. Joseph's Training College for Women, Guntur.

Medical College, Guntur.

Sri Rangaraya Memorial Medical College, Kakinada.

Government Training College, Rajahmundry.

Andhra Medical College, Visakhapatnam.

Affiliated Colleges (25)

S. K. B. Ramars College, Amalapuram, East Godavari Dist.

A. M. A. L. College, Anakapalle.

West Godavari Bhimavaram College, Bhimavaram, West Godavari Dist.

V.R.S. College, Chirala, Guntur Dist.

Sir C. Ramalinga Reddy College, Eluru.

Chintalapati Satyavati Devi St. Theresa's College for Women, Eluru

A.N.R. College, Gudivada, Krishna Dist.

Government College for Women, Guntur.

Andhra Christian College, Guntur.

Hindu College, Guntur.

Pithapuram Rajah's Govt. College, Kakinada.

Andhra Jatheeya Kalasala, Masulipatam.

Hindu College, Masulipatam.

S.S.N. College, Narasaraopet, Guntur Dist.

The Narsapur College, Narsapur, West Godavary Dist.

P. B. N. College, Nidubrolu, Guntur Dist.

C. S. R. Sarma College, Ongole, Guntur Dist.

Government Arts College, Rajahmundry.

Government Arts College, Srikakulam.

V.S.R. College, Tenali, Guntur Dist.

Andhra Loyola College, Gunadala Post, Vijayawada.

S.R.R. and C.V.R. Government College, Vijayawada.

Mrs. A.V.N. College, Visakhapatnam.

M.R. College, Vizianagaram.

St. Joseph's College for Women, Waltair R.S.

Oriental Colleges (14)

Sri Markandeya Sanskrit College, Aukiripalli, Kistna Dist.

Oriental College, Bhimavaram.

D. V.K. Sanskrit College, Arundalpet, Guntur.

Sri Sarada Niketanam, Guntur.

S.V.J.V. Sanskrit College. Kovvur, West Godavari Dist.

Narasimha Sanskrit College, Chittigudur, Masulipatam.

Chalapalli Rajeswari Sanskrit College, Modekurru, Kothapet Taluk, E.G. Dist.

Sri Bhavanarayanaswami Sanskrit College, Ponur, Guntur Dist.

Andhra Women's Sanskrit College, Rajahmundry.

Sree Gouthami Vidya Peetham Oriental College, Rajahmundry.

Kota Lakshmiah Naidu Sanskrit College, Tenali, Guntur Dist.

Oriental College, Vijayawada.

Maharajah's Sanskrit College, Vizianagaram.

Maharajah's Music College, Vizianagaram.

1959-60 Budget

Income		Rs. 92,51,391
Expenditure		Rs. 1,12,01,071
Grants :		
(*a*) From State Govt. ..	Recurring.	Rs. 5,31,550
	Non-recurring	Rs. 4,00,000
(*b*) From University Grants Commission ..	Recurring.	Rs. 5,18,380
	Non-recurring.	Rs. 23,00,866

Total No. of students at the University Colleges, in 1959-60 : 2,329.

Total number of Colleges affiliated and oriental colleges : 51.

This university is teaching as well as affiliating. English is the medium of instruction.

OSMANIA UNIVERSITY

Hyderabad 7.

The Osmania University is a residential, teaching and affiliating university. It comprises ten Faculties, namely, Arts, Science, Commerce, Medicine, Engineering, Agriculture, Veterinary Science, Education, Law and Technology. There are 6 University Colleges, 7 constituent Degree Colleges (including one exclusively Women's College and one Evening College for Degree Courses for those in employment), 3 constituent Pre-university Course Colleges including one Evening College for those in employment.

23 Affiliated Colleges including 3 Medical, one Engineering, 2 Training Colleges, 13 Degree Colleges (including 2 meant exclusively for women) and 2 P-U.C. Colleges of which one is exclusively meant for women.

In the Arts and Science Faculties, English and Hindusthani, the latter with Persian and Devanagari Script, are the media of instruction. In all professional courses English is the only medium of instruction. B.Téch. and M.Tech. have been instituted in Technology. B.Tech. is of four years' duration after Pre-Tech. course. The courses of study in Oriental learning in Sanskrit for entrance test, Dip. O. L. and B.O.L., have been framed. Twenty private Oriental Institutions have been recognised to coach students for these courses. There are other courses of study for Diploma in Journalism, and Diploma in Public Administration.

New courses in 1957-58 : Dip. in Russian and Italian, M.D., M.S., D.O., and D.L.O., B.E. (Mining).

New courses instituted in 1958-59 : M.Sc. (Agriculture) ; M. Tech. and in Medicine ; D.C.P. (Clinical Pathology) ; D.C.H. (Child Health) ; M. S. Opthl. M.Sc. (Anatomy, Physiology & Bio-chemistry) ; Dip. in Forensic Medicine.

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New courses introduced in 1959-60: Diploma in Library Science (Certificate course in Library Science); M.A./M.Sc. (Statistics); B.Sc. (Nursing); B.D.S. (Bachelor of Dental Surgery); D.F.M. Diploma in Physical Education.

New courses introduced in 1960-61: Ph.D. in Commerce and Technology. The University has decided to institute Degree in Music (B.Mus), M.E. (Structure & Hydraulics) and separate course in Engineering for Diploma-holders and M.V.Sc. in Faculty of Veterinary Science.

The University is completely autonomous though it is wholly financed by the Government. The University Syndicate, consisting of 16 members is the governing body. The Vice-Chancellor is the chief administrative officer. The other bodies of the University are the Finance Committee, Academic Council, Senate, Library Committee, Committee of Exams., Faculties and Boards of Studies and the Standing Committee.

Budget (1961-62): Receipts: Rs. 98,88,704. Expenditure: Rs. 99,37,142.

Contribution by State Government: Rs. 52,72,000 (1959-60).

Library: 128,491 (English 79,847, Urdu, Persian & Arabic 24,781; Oriental 23,863; included in this are gift 20,304, Salar Jung 30,426). There are 6,351 MSS. and 1,239 palm-leaf.

Admission: The qualification necessary for entrance to the Pre-university Course is the Higher Secondary Certificate or equivalent certificate.

Enrolment (1959-60): 18,964 (Arts and Science: Boys 10,491; Girls 2,554; Professional: Boys 5,430; Girls 489).

The medium of instruction in all the Colleges is English though there is provision for medium of instruction in Hindustani with Devanagri or Persian Script.

CHANCELLOR

Bhim Sen Sachar.

PRO-CHANCELLOR

Prince Mokarram Jah Bahadur, M.A. (Cantab.).

VICE-CHANCELLOR

D. S. Reddy, M.A. (Oxon.).

REGISTRAR

K. N. Acharya, M.A.

DEANS OF FACULTIES

Arts, Prof. M. Abdul Qadir.
Science, Dr. R. Satyanarayana.
Commerce, Dr. V. V. Ramnadhan.
Law, Prof. G. C. V. Subba Rao.
Education, Shrimati Syeda Zohra Begum.
Engineering, Prof. Abed Ali.
Technology, Dr. B. S. Kulkarni.
Medicine, Dr. I. Chalapathi Naidu.
Agriculture, Dr. Husain Ali Razvi.
Veterinary Science & A.H., I/c Dr. M. Ahmed Husain.

UNIVERSITY COLLEGES

University College of Arts & Commerce, Osmania University, Hyderabad 7.
University College of Agriculture, Osmania University, Hyderabad 7.
University College of Education, Osmania University, Hyderabad 7.
University College of Engineering, Osmania University, Hyderabad 7.
University College of Science, Osmania University, Hyderabad 7.
University College of Veterinary Science and Animal Husbandry, Osmania University, Hyderabad 7.
Law College, Osmania University, Hyderabad 7.

CONSTITUENT COLLEGES

Nizam College, Gunfoundry, Hyderabad.
Women's College, Sultan Bazar, Hyderabad.
College of Law, Abid Road, Hyderabad.
City Science College, Hyderabad.
Saifabad Science College, Hyderabad.
Chaderghat Arts College, Hyderabad.
Evening College of Arts & Commerce, Hyderabad.
Evening College of Arts & Commerce, Secunderabad.
Secunderabad College of Arts & Science, Secunderabad.
Arts & Science College, Warangal.

AFFILIATED COLLEGES

Osmania Medical College, Afzal Gunj, Hyderabad.
Gandhi Medical College, Hyderabad.
Vivek Vardhini College, Gauliguda, Hyderabad.
Badruka College of Commerce, Nampalli Station Road, Hyderabad.
Anwarul-Uloom Arts, Science and Commerce College, New Mallapalli, Hyderabad.
Raja Bahadur Venkatrama Reddy Women's College, Narayanguda, Hyderabad.
Nanakram Bhagvandas Mahavidyalaya, Charkamam, Hyderabad.
Govt. Teachers' Training College, Warangal.
Govt. College of Arts and Science, Karimnagar.
Govt. College of Arts and Science, Khammamet.
College of Arts and Science, Siddipet.
New Science College, Narayanguda, Hyderabad.
Girraj Arts and Science College, Nizamabad.
Nagarjuna Govt. Arts and Science College, Nalgonda.
Govt. Arts and Science College, Adilabad.
Mumtaz Science College, Malakpet, Hyderabad.
Regional Engineering College, Warangal.
Regional Medical College, Warangal.
Government Training College, Hyderabad.
Government College of Physical Education, Hyderabad.
St. Francis College for Women, Secunderabad.
Fatima College for Women, Warangal.
Arts & Science College, Gadwal.

Total number of Arts and Science Colleges: Arts Colleges 5; Science Colleges 6; Arts and Science 15 and Professional 13.

Total number of Women's Colleges: Four.

Total enrolment in Arts and Science Colleges: Boys 9,541; Girls 2,272.

Total number of Professors: 55; Lecturers: 1,038.

Total number of Professional Colleges: 9 (Education, three; Agriculture, one; Veterinary Science, one; Engineering, two; Law, one; Medical, three; Commerce, one.) Total enrolment in Professional Colleges: Boys 4,101; Girls 469.

SRI VENKATESWARA UNIVERSITY TIRUPATI

A Residential and Teaching University. It has affiliating functions having jurisdiction extending over the districts of Anantapur, Chittoor, Cuddapah, Kurnool and Nellore in Andhra Pradesh.

Instruction is being provided for Pass, Post-Graduate and Research Degree courses of study in the teaching departments of English, Telugu, Sanskrit, Hindi, Arabic, Persian, Urdu, Philosophy, Psychology, Economics, History, Mathematics, Physics, Chemistry, Botany, Zoology and Geology in the University College (Arts & Sciences).

The University College of Engineering provides instruction for the Five Year Intergrated Course in Engineering.

Pre-University course of study came into operation in the academic year 1957-'58 and was followed by the Three Year Degree courses in the next academic year, 1958-'59. These two ourses replaced the old two year Intermediate and Degree courses of study.

Consequent on the abolition of Three Year Honours courses, two year Masterate courses have been started in the University College with effect from the academic year (1959-'60). Provision has also been made for doing research leading to Ph.D., D.Sc. and D.Litt. degrees.

The medium of instruction and examination in the University is English excepting Modern Indian Languages and the languages for the Oriental Titles.

AFFILIATED COLLEGES

First Grade Arts & Science Colleges (10).

Government Arts College, Cuddappah.
Government Arts College, Anantapur.
Besant Theosophical College, Madanapalle.
Sri Venkateswara College, Tirupati.
Sri Padmavati College for Women, Tirupati.
Sri Venkateswara College for Music and Dance, Tirupati.
Osmania College, Kurnool.
V. R. College, Nellore.
Kavali College, Kavali.
Govt. K. V. Reddy College for Women, Kurnool.

Professional Colleges (6).

College of Engineering, Anantapur.
Government Training College, Kurnool.
Government Training College, Nellore.
Kurnool Medical College, Kurnool.
Sri Venkateswara Medical College, Tirupati.
Andhra Veterinary College, Tirupati.

Oriental Colleges (4).

Sri Venkateswara Oriental College, Tirupati.
Islamia Arabic College, Kurnool.
Jamia Mahammadia Arabic College, Rayadrug, Anantapur District.
Veda & Sanskrit College, Nellore.

Personnel

Chancellor: The Governor of Andhra Pradesh.

Pro-Chancellor: S. B. P. Pattabhi Rama Rao, B.A., B.L., Minister of Education, Andhra Pradesh.

Vice-Chancellor: S. Govindarajulu, M.A., LL.B. (Cantab), B.L., Bar-at-Law.

Registrar: M. Ramanuja Rao Naidu, M.A.

Deputy Registrar: B. Subba Rau, B.A.

Principal, University College: Dr. T. A. Purushottam, M.A., Ph.D. (Lond.).

Special Officer and Professor of Mechanical Engineering, University College of Engineering, Prof. G. Ramakrishnan, B.E. (Hons.), M.Sc. (Mich.), Mem., A.S.T.E.

Heads of Departments: Dr. M. V. Rama Sarma, M.A., Ph.D. (Wales) (*English*); B. Lakshminarayana Rao, M.A., L.T. (*Telugu*); T. K. Gopalaswamy Iyengar, M.A., F.R.A.S. (Lond.) (*Sanskrit*); Dr. Vijay Pal Singh, M.A., Ph.D. (*Hindi*); Dr. Syed Raziuddin Ahmed, M.A., Ph.D. (*Arabic, Persian & Urdu*); Dr. T. A. Purushottam, M.A., Ph.D. (Lond.) (*Philosophy*); Major S. Parthasarathy, M.A., Dip. in Anthropology (*Psychology*); Prof. E. K. Warrier, M.A., M.Sc. (Lond.) (*Economics*); Dr. M. Rama Rao, M.A., Ph.D., B.Ed. (*History*); Dr. D. P. Bannerjee, M.A., D.Sc. (*Mathematics*); Dr. S. Ramachandra Rao, M.A., Ph.D., D.Sc. (Lond.), F.N.I., F.Inst. P., F.A.Sc. (*Physics*); Dr. K. Neelakantam, M.A., Ph.D., D.I.C. (Lond.), F.A.Sc. (*Chemistry*); Dr. I. M. Rao, M.Sc., D.Sc. Dip. in German (*Botany*); Dr. K. Pampapathi Rao, M.A., Ph.D., Dip. in German (*Zoology*); Dr. M. G. Chakrapani Naidu, M.Sc., Ph.D. (*Geology*).

Total number of students in the University College at the beginning of the academic year 1960-61: Boys 623; Girls 86. Total 709.

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The total strength of the University (including University College) in 1959-60 was 8,359.

1961-62 BUDGET

Opening Balance ..	..	Rs. 54,44,587·00
Receipts ..	..	Rs. 82,66,033·00
Expenditure ..	..	Rs. 1,19,46,246·00
Closing Balance ..	..	Rs. 17,64,374·00

HYDERABAD-SECUNDERABAD CORPORATION

A list of members of the newly amalgamated (Aug. 3, 1960) corporation is given below.

Mayor, Ved Prakash Dusaj.

Deputy Mayor, Ram Rao Doke.

K. V. V. Narsimha Charyulu (*Domalguda*); K. Laxminarayan (*Kawadiguda*); Mohd. Obaidullah (*Musheerabad*); T. Venkat Ramiah Joshi (*Zamistanpur*); Abbiah (*Zamistanpur*); S. Yadgiri (*Chikkadpally*); Mirza Jamil Ahmed Baig (*Amberpet*); Balaram (*Amberpet (R)*); Ananth Reddy (*Qutbiguda*); Jagjivan Pershad (*Lingampalli*); Ram Moorthy Naidu (*Narayanguda*); Syed Mohd. Jeelani (*Himayatnagar*); Mahenderji (*Gulbagh*); Pandarinath (*Sultan Bazar*); Erram Ranganayakulu (*Esamian Bazar*); Ishwariah (*Gowliguda*); Budh Ram Gupta (*Jam Bagh*); Syed Sirajuddin (*Gandhi Bhavan*); Ghulam Yazdani (*Gunfoundry*); S. Shankariah (*Khairtabad*); M. R. Sham Rao (*Khairtabad (R)*); Smt. Kunwar Rani (*Somajiguda*); Venkata Ram Reddy (*Ameerpet*); Gokul Chand (*Jubilee Hill*); Mohd. Qamruddin (*Aghapura*); Sultan Salahuddin Owaisi (*Mallapally*); Babu Rao (*Nampalli*); Dwarka Dass (*Asafnagar*); Rajlingiah (*Karwan*); Ranjeet Singh (*Razdarkhanpet*); Ramlingam (*Mustaidpura*); Mir Mahboob Ali (*Sabzimandi*); Mohd. Jaffer (*Mangalhat*); D. Satyanarayan Shastry (*Goshamahal*); Devendar Puri (*Jumerat Bazar*); Laxminarayan (*Chudi Bazar*); Ganesh Singh (*Dhoolpet*); Moyya Hanumanth Rao (*Siddiamber Bazar*); Gandiah (*Afzal Gunj*); Mohd. Baqer Khan (*Sayeeabad*); Mohd. Niamatulla Soofi (*Chanchalguda*); B. M. Raj (*Chanchalguda (R)*); Syed Sabir Hussain (*Azampura*); Syed Basheeruddin (*Yakootpura*); Khaja Ali (*Dabeerpura*); Eashwariah (*Dabeerpura (R)*); Shankar Singh Verma (*Jangammet*); Rajpal (*Bala Gunj*); Mohammed Ahmed (*Idi Bazar*); Bheeshma Dev (*Idi Bazar (R)*); Abu Bakar (*Maisram*); Syed Ahmed (*Umda Bazar*); Kashi Ram (*Dood Bowli*); Smt. Asha Devi (*Dood Bowli (R)*); Mohd. Abdul Quddus (*Hussaini Alam*); Mohammed (*Qazipura*); Banarsilal (*High Court*); Nazeeruddin Ahmed (*Chelapura*); Ghulam Samdani (*Charmahal*); Smt. Anees Fatima (*Darulshafa*); Farkunda Ali Khan (*Pathergatti*); Jehandar Ali Khan Afsar (*Moghalpura*); B. Manikyam (*Shahalibanda*); Smt. Kumudini Devi (*Begumpet*); B. Mahankali (*Sarojinidevi Road*); Pentiah (*Kalasiguda*); Narsimha (*Avulmanda & Rangrez Bazar*); J. Gandiah (*Pan Bazar, Battala Bazar & Kandojibazar*); Y. Venkiah (*Ramgopalpet*); Mohsin Beg (*Paul Doss Maternity Home*); Narsimha (*Old Bhoiguda*); Jagadishwar (*Sathyanarayanpurum*); Veeriah (*Audiahnagar*); G. Achiah (*Bansilalpet*); Smt. Leelavathi S. Nathan (*Bansilalpet (R)*); M. B. Kumar (*Padmaraonga (R)*); Sarviah (*Hisamgunj Monda*); Babu Rao; (*Maruthi Veedhi*); Pentiah (*Machlibowli & Shivajinagar*); D. Padma Rao (*Kummerguda & St. Mary's Church*); Konda Reddy (*Himmatnagar*); Venkatesham M. (*Kotiah Street & Syed Abdullah Street*); M. Swamy (*Secunderabad Railway Station*); Veeresham (*Nehrunagar*); K. R. Abbiah (*Lallapet*); Ranganayakulu (*Tukaramgate*); Anjiah (*Bathkammakunta*); Babiah (*Metluguda*); Bashir (*Chilkalguda*); Ramchander Rao (*Seethaphalmandi*).

The Mayor represents Jeera and the Deputy Mayor Begum Bazar Constituencies.

Principal Officials :

Hyderabad Division

Commissioner, C. N. Shastry, I.A.S.

City Engineer, T. S. Swamy.

Medical Officer of Health, Dr. Ghulam Ahmed.

Executive Engineer, Drainage, Mohd. Hussain Khan.

Mechanical Engineer, Gopalkishen.

Dy. Commissioner, B. Ravindranath, B.Sc.

Assessor and Collector, Thakurlal, L.S.G.D.

Examiner of Accounts, Gopi Kishen, M.A. (Edinburg).

Secretary, R. Mahendra.

Municipal Magistrate, Nav Ratanlal.

Public Relations Officer, M. Narsing Rao, B.Sc. LL.B.

License Officer, C. Ram Reddy, B.A., L.S.G.D.

BUDGET FOR 1961-62

Income ..	..	Rs. 1,13,92,340
Expenditure ..	..	Rs. 1,21,26,127
Deficit ..	..	Rs. 7,33,787

Principal Officials :

Secunderabad Division

Commissioner, M. Dharamraj Mathur, B.A.

Assistant Commissioner, R. Gopalakrishniah, B.A.

City Engineers, Venugopa Rao; Jaffar Moinuddin.

Asstt. Medical Officer of Health, Dr. Govindaram.

Examiner of Accounts, Mohd. Sherfuddin, H.A.S.

Secretary, V. Chandra Reddy, B.A., B.L.

Licence Officer, Maqbool Sultan.

Asstt. Assessor & Collector, N. R. Rao, L.S.G.D.

Conservancy Officer, E. J. Bhaktul, L.S.G.D.

Legal Adviser, K. Ramgopal, B.A., LL.B., Advocate.

Public Relations Officer, T. Rajagopalachari, B.A., LL.B., L.S.G.D.

Budget (1961-62) Secunderabad Division :

Revenue ..	..	Rs. 32,82,672
Expenditure ..	..	Rs. 32,82,672

ASSOCIATIONS, INSTITUTIONS, ETC.

ADMINISTRATIVE STAFF COLLEGE OF INDIA

Bella Vista, Hyderabad 4.

Gives training to senior executives from different spheres of administration and fields of activity—public and private. Provides opportunity to study the skills and techniques of higher management and leadership.

Principal : R. L. Gupta.

ADONI GROUNDNUT SEEDS AND OIL MERCHANTS ASSOCIATION LTD.

Ward No. XIX, Door No. 16, Gosha Hospital Road, Adoni.

President, T. G. Krishna Murthy. *Vice-President* : Ajitsinh Gopaldas.

ALL INDIA CROCHET LACE EXPORTERS ASSOCIATION

Narsapur (W. G. Dist.).

President : A. Venkatraidu, B.Sc., B.L.; *Vice-President* : V. Suryanarayana; *Gen. Secretary* : A. Vykuntam; *Treasurer* : C. Thomas.

ALL-INDIA GRAPHITE, CRUCIBLE MANUFACTURERS ASSOCIATION (Regd.)

Rajahmundry.

President, Nanubhai H. Bhutt, B.Sc.

Secretary : Desari Mallikharjanrao.

ALLADIN TECHNICAL TRAINING INSTITUTE

Bogul Kunta, Hyderabad.

Principal : Syed Moizuddin; *Vice-Principal* : Mohammad Ghalib.

ANDHRA CHAMBER OF COMMERCE

Andhra Chamber Building, 272/73, Angappa Naick Street, Madras 1.

Also at 68-B, Rashtrapati Road, Secunderabad.

President : V. Emberumanar Chetty; *Vice-Presidents* : S. Venkatarangam; Jayantilal P. Sanghrajka; M. Harischandra Prasad, M.L.A.; *Treasurer* : G. Cunniah Chetty; *Secretary* : M. S. Sambasivam; *Asstt. Secretary-in-charge of Secunderabad Office*, K. P. Ramamurthy.

THE ANDHRA FILM CHAMBER OF COMMERCE

Andhraratna Road, Gandhinagar, Vijayawada 2.

ANDHRA HISTORICAL RESEARCH SOCIETY

Rajahmundry.

Publishes yearly journal of historical research. Maintains free reading room, public library and museum. Membership : 200

President, N. Kameswara Rao. *General Secretary*, R. Subba Rao. *Jt. Secretary*, N. Raghavarao.

ANDHRA PRADESH CHEMISTS & DRUGGISTS ASSOCIATION

Metropolitan Club, Hanuman Tekdi, Hyderabad.

ANDHRA PRADESH GRAIN & SEEDS MERCHANTS ASSOCIATION

Pahade Niwas, Osmangunj, Hyderabad.

President : Kothuru Seethaiah Gupta, M.L.A.; *Vice-Presidents* : Mohanlal Vyas, Kalva Suryanarayana; *Honorary General Secretary* : Satyanarayana Gupta; *Treasurer*, Mahabir Pershad.

ANDHRA PRADESH LICENTIATE ENGINEERS ASSOCIATION

Buckinghampet P.O., Vijayavada 2.

President, K. V. Padmanabha Rao; *Vice-President*, C. Venkateswara Rao; *Gen. Secy.*, J. M. Rangarao.

ANDHRA PRADESH PAPER MERCHANTS ASSOCIATION

335, Gowliguda, Hyderabad.

President : Goli Eswariah; *Vice-Pres.* : R. M. Trivedi; *Secretary* : Govind Rao; *Treasurer* : N. L. Gumpa.

ANDHRA PRADESH PRINTERS' ASSOCIATION

3-4-649 (Upstairs), Narayanguda, Hyderabad.

President : S. Krishnarao; *Vice-President* : Munindra; *Secretary* : Harikishan Bajaj.

ANDHRA PRADESH SANGEETA NATAKA AKADEMI

Room No. 3, Special Block 'B', M.L.A Quarters, Hyderabad.

President, R. B. Ramakrishna Raju, M.L.A.; *Hon. Secretary* : Pasala Suryachandra Rao; *Hon. Treasurer* : T. Seshachari, I.A.S.

ANDHRA PRADESH SMALL INDUSTRIES ASSOCIATION

Ramachandra Rao Road, Vijayawada 2.

President, S. Ramakrishna; *Gen. Secretary*, K. V. Padmanabha Rao; *Jt. Secy.*, S. R. Gunti.

ANDHRA SAHITYA PARISHAT

(Estd. 1911)

(Telugu Academy)

Kakinada.

President, Kavisamrat Poet Laureate Sripada Krishnamurthy Sastry. *Secretary*, Dantu Bhaskararao. *Jt. Secretary*, Duvvuri Suryanarayana Sastry.

ANDHRA STATE EXPORTERS' & IMPORTERS' ASSOCIATION

Ellore Bazar, Guntur.

ANDHRA STATE GUNNY TRADERS ASSOCIATION (Regd.)

Pulipativari St., Vijayawada 1.

Secretary : Bayyana Bhimayya.

ANJUMAN KHADIMUL MUSLIMEEN

Amberpet Road, Hyderabad.

Literary, Industrial and Social.

President, Nawab Liaket Jung Bahadur; *Vice-Presidents*, Syed Khader Mohiuddin Khadri, Khan Bahadur Abdus Salam Sayeed; *Hon. Secy.*, Syed Mohiuddin Khadri.

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THE AUTOMOBILE ASSOCIATION OF SOUTHERN INDIA

60, Mahatma Gandhi Road, Secunderabad.

Hon. Secy. : S. B. Kotak.

THE BEZWADA RETAIL CLOTH MERCHANTS' ASSOCIATION (Regd.)

Main Bazaar, Vijayavada 1.

President, Vankayala Veeraraghavulu; *Vice-President*, Sistla Lakshmipathi Sastry; *Secy.*, Majety Ramamohan Rao.

THE BHARAT SCOUTS AND GUIDES

Domalguda, Hyderabad.

State Secy., D. S. Raja Rau; *State Treasurer*, N. Narayan Doss.

THE BHIMAVARAM CHAMBER OF COMMERCE

Bhimavaram (Dt. W. Godavari).

President : B. Bangarraju, B.A., B.Ed.; *General Secy.* : U. A. Raju.

BUILDERS' ASSOCIATION OF INDIA

Red Hills, Hyderabad 4.

Chairman, Yakoob Ali Sajanlal; *Hon. Secy.*, Dhanyakumar K. Shah.

CENTRAL INSTITUTE OF ENGLISH

Hyderabad 7.

Chairman of the Board of Governors : Prof. N. K. Sidhanta, M.A. (Cantab.); *Director* : Prof. V. K. Gokak, M.A. (Bom.) (Oxford); *Director of Studies* : Prof. J. G. Bruton, B.A. (Hons.) (Lond.).

CENTRAL TOBACCO RESEARCH INSTITUTE

Rajahmundry.

Director, Dr. G. S. Murty, M.Sc., Assoc., I.A.R.I., Ph.D. (Minn).

THE CHAMBER OF COMMERCE, ATTILI

Tadepalligudem (Dt. W. Godavari).

President : Dadi Manikyam; *Vice-President* : Mekala Veeranna; *Secretary* : Damisetty Nagabhushanam.

CHAMBER OF SMALL SCALE INDUSTRIES

C/o Deccan Metal Works, Raniganj, Secunderabad.

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Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad.
Gunti & Co.—89, Sarojini Devi Road, Secunderabad.
Industrial Stores Co., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
Rayyat Commercial Corporation Ltd.—141, Kingsway, Secunderabad.
Secunderabad Agricultural Machinery Co.—150, Kingsway, Secunderabad.
Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

AIR-CONDITIONING AND REFRIGERATION

EMSON ENGINEERING CORPORATION.—142, Rashtrapati Road, Post Box 73, Secunderabad 3. Phone: 6232.
VOLTAS LIMITED.—87/D, Rashtrapati Road, Secunderabad.

AROMATIC CHEMICALS

CHUNILAL DAYALDAS.—Post Box No. 5, Hyderabad 2. Importers, Exporters and Stockists for Country Drugs, Aromatic Chemicals, Perfumery Compounds, Essential Oils, Capsules, Empty Glass Bottles and other toilet requisites.

AUTO AND DIESEL FORGINGS

PRAGA TOOLS CORPORATION LTD.—15, Saifabad, Hyderabad (A.P.), Crankshafts—Connecting Rods, Camshafts Nozzle Holders—Governor Levers—Valve Rockets, etc.

AUTOMOBILE, AND AUTOMOBILE PARTS AND ACCESSORIES, DEALERS AND ENGINEERS

HYDERABAD

Afzul Motor Stores.—Afzul Gunj, Hyderabad.
Andhra Automobiles.—Siddiamber Bazar, Hyderabad.
Associated Automobiles.—Siddiamber Bazar, Hyderabad.
Auto Emergency Service.—Opp. Leg. Assembly, Hyderabad.
Auto Service.—Public Garden Road, Hyderabad.
Auto Supplies.—Basheer Bagh Road, Hyderabad.
Azad Motor Transport Co.—Karbala, Maidan Road, Hyderabad.
Bharat Automobiles.—Afzalgunj, Hyderabad.
Bombay Hyderabad Motor Service.—Nizamshahi Road, Hyderabad.
Bombay Motor & Motor Cycle Co.,—Afzul Ganj, Hyderabad.
Dayal Automobiles.—Basheer Bagh Road, Hyderabad.
Deccan Automobiles.—Siddiamber Bazar, Hyderabad.
Hindustan Automobiles.—Afzul Gunj, Hyderabad.
Jayant Automobiles.—Siddiamber Bazar, Hyderabad.
Kishore & Co.—Mozam Jahi Market, Hyderabad.
Madurai Motors.—Bashirbagh,—P. Box 176, Hyderabad.
Motor House (India).—Mozam Jahi Market, Hyderabad.
Mulki Old & New Motor Parts Co.—Afzul Gunj, Hyderabad.
Pioneer Automobiles,—Siddiamber Bazar, Hyderabad.
Prabhat Automobiles.—Siddiamber Bazar, Hyderabad.
Raj Automobiles.—Siddiamber Bazar, Hyderabad.
Reliable Corporation.—Nampalli Road, Hyderabad.
Reliance Automobiles.—Siddiamber Bazar, Hyderabad.
Reliance Automobiles.—Fateh Maidan, Hyderabad.
Saibaba Automobiles.—Putli Bavdi, Hyderabad.
Sevaka Automobiles.—Gouliguda Chaman, Hyderabad.
Sri Ramdas Transport P. Ltd.,—Begum Bazar, Hyderabad.
State Automobiles.—Nizamshahi Road, Hyderabad.
Supreme Automobiles.—Siddiamber Bazar, Hyderabad.
Zenith Automobiles.—Siddiamber Bazar, Hyderabad.

SECUNDERABAD

Afzul Cycle & Motor Stores.—Mahatma Gandhi Road, Secunderabad.
Apex Motor Stores.—Kingsway, Secunderabad.
Arun Automobiles.—103, Sardar Patel Road, Secunderabad.
Associated Trades.—Rashtrapati Road, Secunderabad.
AUTO CHENOY.—62-D, Sarojini Devi Road, Secunderabad (Dn.); Phone: 74836; Grams: "AUTOCHENOY." Sole Distributors in Hyderabad State, STANDARD & TRIUMPH Cars; Repairing of Cars of all makes undertaken.
Automotive Mfrs. P. Ltd.—8571, Rashtrapathi Road, Secunderabad.
Bharat Motor Stores.—Ranigunj, Secunderabad.
Bombay Cycle & Motor Agencies.—Mahatma Gandhi Road, Secunderabad.
Bombay Hyderabad Motor Service.—116, General Bazar, Secunderabad.
Indian Commercial Co. P. Ltd.—Mahatma Gandhi Road, Secunderabad.
Decent Automobiles.—Ranigunj, Secunderabad.
DEFIANCE AUTOMOBILES.—Mehta Mahal, 49, M. G. Road, Secunderabad—A.P.; Phone: 6233; Authorised 'Befdord' Dealers for erstwhile Hyderabad State; Service & Parts.
Hind Auto Engineering Co., Rashtrapati Road, Secunderabad.
HYDERABAD AUTO SERVICE.—Mehta Mahal, 49, M. G. Road, Secunderabad—A.P.; Phone: 6874; Authorised Distributors for 'Bricovmo' piston rings and liners, 'Lockheed' brake oil and parts; 'Brog & Beck' Clutch parts, 'Tranco' Engine Valves, etc.
Lakshmi Automobiles, Ranigunj, Secunderabad.
MADRAS CYCLE & MOTOR MART.—7936, Mahatma Gandhi Road, Secunderabad-3. Phone: 6247. Grams: "TRIUMPH." Authorised "FORD" dealers for Hyderabad State, Service and parts.
Modern Automobiles.—38, Sarojini Devi Road, Secunderabad.
Motor House.—Ranigunj, Secunderabad.
M. S. Kalyan Setti.—Mahatma Gandhi Road, Secunderabad.
National Automobiles.—296, Ranigunj, Secunderabad.
Prabhat Automobiles.—Mahatma Gandhi Road, Secunderabad.
RANE PRIVATE LTD.—Mahatma Gandhi Road, Secunderabad.
Supreme Automobiles.—Ranigunj, Secunderabad.
United Motor Parts Co.—Ranigunj, Secunderabad.

BATTERY DEALERS

HYDERABAD

Balaji Battery Service.—Jambagh, Hyderabad.
Eshwar Battery Service.—Sultan Bazar, Hyderabad.

SECUNDERABAD

Auto Electric Co.—Ranigunj, Secunderabad.
Jagadamba Battery Charging.—Near Karbala Maidan, Secunderabad.
Krishna Electric Works.—Ranigunj, Secunderabad.
Satyanarayana Electric Works.—Rashtrapathi Road, Secunderabad.
Sunrise Electric Works.—Ghasmandi, Secunderabad.
Synchrotric Engineering Works.—Rashtrapathi Road, Secunderabad.

BOOKSELLERS AND PUBLISHERS

HYDERABAD

Andhra Book House.—Sultan Bazaar, Hyderabad.
Dachepalli Kistaiah & Sons.—516, Siddiamber Bazaar, Hyderabad.
Hyderabad Book Depot.—Abid Road, Hyderabad.
Hyderabad Publicity.—Afzal Gunj, Hyderabad.
J. C. Pinto & Co.—Abid Road, Hyderabad.
Joshi Bros.—Gowliguda, Hyderabad.
Kotari Book Depot.—Bashir Bagh, Hyderabad.
MIDLAND BOOK DEPOT.—Premier Dealer in New and Second hand books; 801, Kothi, Sultan Bazar, Hyderabad (A.P.). Phone: 4250.
Nava Hind Publications.—Begum Bazaar, Hyderabad.
Oriental Publishing Co.—Nampally, Hyderabad.
Peoples Book Centre.—Nizamshahi Road, Hyderabad.

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Purohit & Co.—Gunfoundry, Hyderabad.
Venkataramana Publishers.—Sultan Bazaar, Hyderabad.

SECUNDERABAD

Ajanta Publications & Book Sellers.—7112, Mahankali Street, Secunderabad.
Bible House.—Rashtrapathi Road, Secunderabad.
Chanda Narayana Chetty.—General Bazar, Secunderabad.
Christian Book Shop.—Rashtrapathi Road, Secunderabad.
Cosmopolitan Book House.—Rashtrapathi Road, Secunderabad.
Dachepalli Kistaiah & Sons.—General Bazaar, Secunderabad.
Good News Literature Centre.—94E, Sarojini Devi Road, Secunderabad.
Hari, B. L. & Bros.—Trimulgherry, Secunderabad.
Hindustan Diary Publishers.—3997, Market Street, Secunderabad.
J. C. Pinto & Co.—Sarojini Devi Road, Secunderabad.
Kadambi News Agents & Book Sellers.—75, Sarojini Devi Road, Secunderabad.
Kavijara Publishers.—Rashtrapathi Road, Secunderabad.
Konda Veeriah.—Mahankali Street, Secunderabad.
K. V. Ramakrishna.—Market Street, Secunderabad.
Majestic Book Depot.—Sarojini Devi Road, Secunderabad.
Nanda News Agencies.—Secunderabad.
Oxford Book Depot.—Sarojini Devi Road, Secunderabad.
Rashtrapathi Book Depot & News Agents.—Rashtrapathi Road, Secunderabad.
Readers Corner & Co.—Sarojini Devi Road, Secunderabad.
Sree Rama Book Depot.—Market Street, Secunderabad.
Venkatarama & Co.—Rashtrapathi Road, Secunderabad.

BUILDERS & CONTRACTORS

HYDERABAD

Ahmed Ali Sajanlal, Red Hills, Hyderabad 4.
B. Papaiah, A-18-453, Chikkadpalli, Hyderabad.
B. Veeraswamy, 17-1-80, Edi Bazar, Hyderabad.
Dhanya Construction Co., Bharat Bldgs., Kachiguda Station Road, Hyderabad.
D. L. Sriramulu & Co., A-10-690, Himayatnagar, Hyderabad.
Durgaram Prasad, 501, Jubilee Hills, Hyderabad 4.
D. Venkatanarasiya, 807, Gun Foundry, Hyderabad 1.
Ganesh Singh, B-5-832, Sultan Bazar, Hyderabad.
G. S. Bhashyam, 230-10, Chikkapadpalli, Hyderabad.
G. Upendra Reddy, Jubipura, Khammameti, Hyderabad 4.
G. Venkata Reddy, 3-5-926/15, Himayatnagar, Hyderabad 1.
K. Papa Rao, 99, Shaheedyar Jung Lane, Hyderabad.
K. V. Ranga Reddy & Co., 3-6-692, Himayatnagar, Hyderabad.
M. Anantaswamy, 14-6-259, Chudi Bazar, Hyderabad.
M. L. Reddy, 3-5-926, Himayatnagar, Hyderabad.
P. S. Thakore, 15/3/5, Gowliguda, Hyderabad.
Siva Reddy & Sons, Lingampalli Market, Crosslane, Hyderabad.
S. K. Imarti, 3-5-44/1, Eden Garden Road, Hyderabad 1.
S. Rajeswara Rao, Kavadiguda, Hyderabad.
Syed Hussain, A/4-523, Bholukpur, Musheerabad, Hyderabad.
Udani Engineering Co., 3-6-698, Himayatnagar, Hyderabad.
Yadgiriswamy Patel, Musaram Baug, Hyderabad.
Y. Govindoo, New Lane, Chirag Ali Lane, Hyderabad 1.
Y. Parthasarathy, Red Hills, Hyderabad 4.
Y. Ramiah, Mehboob Manzil, Panjagutta, Hyderabad 4.
Y. Sathiyanarayan Yakoob Ali Sajanlal & Co., Hyderabad 4.

SECUNDERABAD

Amarchand Sharma, 18, Jeera, Secunderabad.
B. V. Muthanna & Sons, St. John Road, Secunderabad.
Ch. Yegnaiah & Sons, 1/A, Rashtrapati Road, Secunderabad.
D. S. Rathnaiah, 4893, Musakhana Bazar, Secunderabad.
Hyderabad Deccan Engg. Co., 145/155, Marredpally, Secunderabad.
Jai Narayan Misra, 28-A, Sardar Patel Road, Secunderabad.
K. Anjaiah, Avalamanda, Secunderabad.
K. Ramaswamy, 21/13, St. John Road, Secunderabad.
Manicklal M. Parekh, No. 9, Jeera Compound, Secunderabad.
M. Narayan & Sons, Oxford St., Secunderabad.
Pritamlal Parekh, 4, Jeera Compound, Secunderabad.
S. Krishnaiay, 6549, Rashtrapati Road, Secunderabad.
V. Hanumantha Rao, 32/19, Old Jain Road, Secunderabad.

BUTTON MANUFACTURERS

OZA & CO.—Kasaratta Road, Hyderabad 2. Manufacturers of Buttons, Buckles, Badges etc.; Electroplaters, Govt. Contractors, Importers, Exporters; Dealers in Non-Ferrous Metals, Chemicals, Machinery etc. Grams : "OZA".

CHEMICAL MANUFACTURERS

Hyderabad Chemical & Pharmaceutical Works.—Industrial Area, Hyderabad.
Hyderabad Chemical Supplies Ltd.—Sharah-e-Osmania, Hyderabad, Dn.
HYDERABAD CHEMICALS & FERTILIZERS LTD., THE.—Bashir Bagh, Hyderabad (A.P.-1). Manufacturers of Acids, Super-phosphate and Fertilizer Mixtures.
J. & J. DeChane.—Manufacturing Chemists, Residency Road, Hyderabad.

CHEMISTS AND DRUGGISTS

HYDERABAD

Alembic Distributors, Sultan Bazar.
Ananthagiri Medical Store, Mohzamjai Market.
Andhra Chemical Supplies, Nampalli Station Road.
Andhra Medical Hall, Abid Road.
Arsthu Pharmacy, Red Hill.
Ashok Medical Hall, Chikad Palli.
Ayurdham Medical Hall, Sultan Bazar.
Balaji Medical Hall, Sultan Bazar.
Bharat Medical Hall, Afzul Gunj.
Chemical & Surgical, Bureau, Reddi Hostel Lane.
City Medical Hall, Charkaman.
Deccan Drug Agency, Abid Road.
Desai Chemical Co., Troop Bazar.
Dhootpapeshwar Sales Corporation Private Ltd., Sultan Bazar.
D. J. Parekh & Co., Sultan Bazar.
D. R. Desai & Co., Excelsior Building, Abid Road.
Drug Stores, Nampally Station Road.
Elpee Medical Stores Chikad Palli.
Fair Deal Chemists, Nampalli.
G. Paul & Co., Gulzar House, Char Minar.
G. R. Agencies, Sultan Bazar.
G. Rohit Bros., Sultan Bazar.
Gujrat Stores, Sultan Bazar.
Gupta & Sons, Abid Road.
Gupta Medical Hall, Abid Road.
Hyderabad Chemical & Pharmaceutical Works Ltd., Musheerabad Industrial Area.
Hyderabad Chemical Supplies (Private) Ltd., Sultan Bazar.
Isola Industries, Gaganmahal, Domalguda.
Jagdish Medical Hall, Siddiamber Bazar.
J. Shamdas & Co., Post Office Lane.
Jatan Jain Medical Hall, Siddiamber Bazar.
John & Co., Gunfoundry.
Jyoti Medical Hall, Sultan Bazar.
Kanodias, Afzulganj.
Krishna Medical Hall, Afzul Gunj.
L. Chimanlal & Co., Gowliguda.
L. Fernandez & Co., Abid Road.
Lesliegay & Co., Nampalli Station Road.
Modern Pharmacy, Siddiamber Bazar.
Morinaga Traders, Siddiamber Bazar.
Nagar Medical Hall, Sultan Bazar.
Nath Laboratories, Yusuf Guda.
National General Store, Sultan Bazar.
Nehadi & Co., Afzulgunj.
Om Medical Hall, Gulzar House, Char Minar.
Popular Pharmacy, Narayan Guda.
Prince Pharmacy, Mohjamjai Market.
Reliable Medical Stores, Hyderguda.
Rex & Co., Nampalli Station Road.
Royal Medical Hall, Sultan Bazar.
Royal Medical Hall & Agency, Wholesales Dept., Afzulgunj.
Sanghi Medical Hall, Gulzar House, Char Minar.
Scientific Chemist, Nampalli Station Road.
Shabeer Medical Hall, Afzul Gunj.
Shetty's Pharmaceutical & Biological Ltd., Musheerabad.
Shiv Scientific Co., Station Road, Nampalli.
Sripada Ramayya & Co., Opp. Nampalli Station.
Sultan & Co., Afzul Gunj.
Swamy & Sons, Abid Road.
Swaroop & Sons, Abid Road.
Vijaya Medical Hall, Abid Road.
Vishnu Medical Hall, Charkaman.
Vithal Medical Store, Sultan Bazar.

SECUNDERABAD

Amar Medical Hall.—Station Road.
Amrat Medical Stores.—Mahankali Street.
Ananth Medical Store.—Sarojini Devi Road.
Bhagwan Medical Store.—Station Road.
C. Moolchand & Sons.—Station Road.
D. J. Parekh & Co.—Mahankali Street.
G. Venkat Swamy & Co.—James Street.
Hebbar Pharmacy.—Station Road.
J. Faust & Co.—Oxford Street.
Jyoti Medical Hall.—James Street.
Kathiawar Stores.—Barbars Bridge.
Kings-Way Stores.—Kingsway.
M. Toprani & Sons.—Station Road.
Manik Medical Stores.—Station Road.
P. Laxmi Chand & Co.—Station Road.
Rajeshwar Trading Co.—Mahankali Street.
Republic Stores.—Kingsway Road.
S. Mohan Lal & Sons.—Market Road.
Shanti Agencies.—Kingsway.
Shanti & Co.—Kingsway.
Shivvayya & Sons.—B. Mettuguda.
Sitarama General Stores.—Station Road.
Spencer & Co.—Oxford Street.
V. D. Rajaratnam & Sons.—Kingsway.

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CIGARETTE MANUFACTURERS

Hind Tobacco & Cigarette Co., Ltd.—Sanatnagar, Hyderabad.
Hyderabad Deccan Cigarette Factory, Mushirabad, Hyderabad.
Nizamsagar Tobacco Ltd.—Ameerpet, Hyderabad.
Vazir Sultan Tobacco Co. Ltd.—(Charminar Cigarettes), Azamabad, Hyderabad.

CYCLE DEALERS

HYDERABAD

Bharat Cycle Works.—Goliguda, Hyderabad.
Deccan Motor & Cycle Stores.—Afzalgunj, Hyderabad.

DECCAN SEWING MACHINE & CYCLE CO.—Importers & Wholesalers, Sultan Bazar, Hyderabad (A.P.); Branch: James Street, Secunderabad.
Hyderabad Cycle Stores.—Abid Road, Hyderabad.
Krishna Cycle Stores.—Abid Road, Hyderabad.
Madina Cycle and Motor Stores.—Madina Bldg., Hyderabad.
Prakash Cycle Stores.—Sultan Bazar, Hyderabad.
The Radio Cycles.—Siddiamber Bazar, Hyderabad.

SECUNDERABAD

FRAM & CO.—123, James Street, Secunderabad Dn. Sole Distributors of NSU—MATCHLESS Motor Cycles, Scooters & Autocycles; Distributors of Raleigh, Robinhood, Humber, Rudge, Wearwell, Admiral, Champion, Forward Cycles; Importers of Halex Pingpong balls, Zeal Thermometers, Garage Tools, Specialised Vehicles, etc.; Specialists in Motor-cycle and cycle parts.
Gauam Cycle & Motors.—James Street, Secunderabad.
Gujrat Cycle Stores.—Sanders Road, Secunderabad.
Kathiawar Cycle Co.—Opp. Jumma Masjid, Secunderabad.
Krishna Cycle Stores.—Mahatma Gandhi Road, Secunderabad.
Madras Cycle & Motor Mart.—Rashtrapathi Road, Secunderabad.
Pushp Trading Co.—James Street, Secunderabad.
Royal Agencies.—James Street, Secunderabad.
T. I. Cycles of India Ltd.—Rashtrapathi Road, Secunderabad.
Supreme Cycle Stores.—James Street, Secunderabad.

EARTHEN AND STONEWARE PIPES

Charminar Potteries.—Mettuguda, Secunderabad.
Hyderabad Potteries Ltd.—Bakaram, Hyderabad.

ELECTRICAL ENGINEERS AND CONTRACTORS

Associated Engineering Co.—137, Kingsway, Secunderabad.
Deccan Electric Stores.—10, Sultan Bazar, Hyderabad.
Dominion Engineering Corporation.—P.O. Box No. 37, Rashtrapathi Road, Secunderabad.
M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad.
Nathoo Laljee.—Gunfoundry Road, Hyderabad.
Shanker Electrics.—205, Yousuf Mansion, Abid Road, Hyderabad.
Shanker Electric Stores, The.—Shanker Mahal, 31, Mahatma Gandhi Road, Secunderabad.
Standard Radio Electronics.—Sultan Bazar, Hyderabad.

ELECTRICAL GOODS

Belde Engineering Company.—6549, Rashtrapathi Road, Secunderabad.
Bombay Electric Stores.—121, James Street, Secunderabad.
The Central Trading Co.—Rashtrapathi Road, Secunderabad.
Chandra Electrics.—3121, Kingsway, Secunderabad.
Deccan Electric Stores.—10, Sultan Bazar, Hyderabad.
Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad.

EMSON ENGINEERING CORPORATION.—142, Rashtrapathi Road, Post Box 73, Secunderabad 3. Phone: 6232.
Hindustan Corporation Ltd.—Domalguda, Hyderabad.
Scientific Electricals.—Bank Street, Sultan Bazar, Hyderabad.
Shanker Electrics.—205, Yousuf Building, Abid Road, Hyderabad.
Sun Electric & Motor Stores.—3153, Kingsway, Secunderabad.
Vijay Radio & Electric Service.—King's Corner, Abid Road, Hyderabad.
V-X-L Agency.—138, Rashtrapathi Road, Secunderabad.

FOOTWEAR MANUFACTURERS

HYDERABAD

Ayboob Boot House.—Pathergatti, Hyderabad.
Bata Shoe Co.—Abid Road, Hyderabad.
Bhalla Footwear.—Abid Road, Hyderabad.
Deccan Shoe & Leather Works Ltd.—Bakaram, Hyderabad.
Hollywood Footwear.—Bakaram, Hyderabad.

SECUNDERABAD

Bata Shoe Co.—Mahatma Gandhi Road, Secunderabad.
Flex Footwear Co.—Opp. Chitra Talkies, Secunderabad.
Modern Footwear Mart.—Rashtrapathi Road, Secunderabad.
Western Footwear Mart.—Rashtrapathi Road, Secunderabad.

FURNITURE

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad.
Deccan Safe Co.—Shahrah-e-Osmani, Hyderabad.
Hyderabad Wood Works, The.—Mahatma Gandhi Road, Secunderabad.
Sharda Stores.—3106, Kingsway, Secunderabad.
Siddheshwar & Co.—Abid Road, Hyderabad.
Utility Metal Works.—Industrial Estate, Sanatnagar, Hyderabad.

GENERAL MERCHANTS

Bulchand & Co.—(Silk Palace), Abid Road, Hyderabad.
The Hindustan Corporation (Hyderabad) Ltd.—Domalguda, Post Box No. 121, Hyderabad (A. P.).
John & Co.—Abid Road, Hyderabad.
Motilal Jajir & Co.—Mahatma Gandhi Road, Secunderabad.
Pushp Trading Co.—Rashtrapathi Road, Secunderabad.
Ramsingh Aggarwal & Co.—68, Rashtrapathi Road, Secunderabad.
Trivedi, R. M., & Sons.—3364, Kingsway, Secunderabad.

GLASSWARE DEALERS

HYDERABAD

Deccan Porcelain & Enamel Works Ltd.—Bakaram, Hyderabad.
Kohinoor Glass Factory.—Begumpet, Hyderabad.
Taj Glass Works Ltd.—Sanatnagar, Hyderabad.

SECUNDERABAD

Abdul Hussain.—Rashtrapathi Road, Secunderabad.
Gupta & Co.,—Rashtrapathi Road, Secunderabad.
Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad.

GRAIN AND SEEDS MERCHANTS

Balaji Shivnarayana & Co.—Maharajgunj, Hyderabad.
Bharat Grain Trading Co.—Osmangunj, Hyderabad.
Bhimsee Dungersee Ltd.—Sultan Bazar, Hyderabad.
Chandra Singh Laherchand & Co.—Osmangunj, Hyderabad.
Chunchu Sattaiah & Bros.—Osmangunj, Hyderabad.
Dadwai Ashok Kumar & Co.—Osmangunj, Hyderabad.
Dadwai Narsing Rao & Bros.,—Osmangunj, Hyderabad.
Devata Chandriah & Sons.—Osmangunj, Hyderabad.
G. Murlidhar & Co.—Maharajgunj, Hyderabad.
Heeranand Ramsukh & Co.—Maharajgunj, Hyderabad.
Hyderabad Dal Factory.—Osmangunj, Hyderabad.
Jayanthilal Dhanji & Co.—Nizamshahi Road, Hyderabad.
Jethalal & Co.—Maharajgunj, Hyderabad.
Konijeti Mallaiah & Co.—Osmangunj, Hyderabad.
Mohammadi Co.—Osmangunj, Hyderabad.
Tokarshilalji & Co.—Sultan Bazar, Hyderabad.

HOSIERY MILLS

Fire Hosiery Mills Ltd.—Azamabad, Hyderabad.
Hyderabad Hosiery Ltd.—Industrial Area, Hyderabad.

HOTELS AND RESTAURANTS

PERCEY HOTEL.—Sardar Patel Road, Secunderabad; Phone: 6106 (3 Lines). Grams: "PERCYS". Airconditioned rooms and Suites—Radio and Telephones in all rooms—Fully Licensed Bar—Centrally Situated.

When in Hyderabad Stay at:
THE ROYAL HOTEL
(Estd: 1929)
Opp. Nampalli Rly. Station, Hyderabad (A.P.)
Vegetarian & Non-Vegetarian Sections
Phones: **34462, 34469** Grams: **"PASSENGER"**

ROCK CASTLE HOTEL.—Jubilee Hills, Hyderabad—A.P. 4. Phone: 2902; Grams: "ROCKCASTLE." Situated on a rocky eminence in the aristocratic locality of Hyderabad; The Hotel commands a panoramic view of the Hussain Sagar Lake and the cities of Hyderabad and Secunderabad; Fully Licensed Bar on the premises.

ICE FACTORIES

HYDERABAD

Alladin & Sons.—Ice Factory, Begumpet, Hyderabad.
Dry Ice Depot.—Sultan Bazar, Hyderabad.
Hyderabad Cold Storage Ice & Aerated Water Mfg. Co.—Station Road, Hyderabad.

SECUNDERABAD

Abid's Ice Depot.—Rashtrapathi Road, Secunderabad.
Crystal Ice Factory.—Sardar Patel Road, Secunderabad.
The Ice Factory.—Sarojini Devi Road, Secunderabad.

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INK MANUFACTURERS

Bhide Bros.—Gowliguda, Hyderabad.

MODEL INK MANUFACTURING CO.—706, Sultan Bazar, Hyderabad—A.P.

IRON AND STEEL FURNITURE MANUFACTURERS

Hind Industrial Works.—Maharajgunj, Opp. Telephone Exchange, Hyderabad.

HYDERABAD ALLWYN METAL WORKS LTD.—Sanatnagar, Hyderabad 16; Manufacturers of 'Allwyn' Steel Furniture, 'Allwyn-Prestcold' Refrigerators, 'Allwyn' Allwash washing Machine, 'All-cut' Bandsaw Metal Cutting Machine and Bus Body Builders.

IRON AND STEEL MERCHANTS

HYDERABAD

Baile Lachmiah & Sons.—Siddiamber Bazar.
Darga Tuliah.—Siddiamber Bazar.
Darga Pandurangam Durgiah.—Siddiamber Bazar.
Dhatrika Ramiah.—Afzal Gunj.
D. Eamajee & Sons.—Sardar Patel Road.
Hyderabad Building Material House.—Afzal Gunj.
H. M. Jalal Miya.—Afzal Gunj.
K. Veeriah.—Afzal Gunj.
Lalji Meghji.—Mukramjahi Road.
Mohamed Abdul Gafoor, S/o Mohmed Abdul Lateef.—Afzal Gunj.
Mohamed Nurulla Peddi Sivarajia.—Siddiamber Bazar.
M. Manikyam.—Siddiamber Bazar.
N. Ramakrishniah.—Sardar Patel Road.
Vellore Lingayya Gari Buchayya.—Afzal Gunj.

SECUNDERABAD

Abdul Karim Mohmed Sardargadhwala.—Market, Hissam Gunj.
Baile Lachmiah.—Pan Bazar.
Haji Moosa Mohmed Sardargadhwala.—Hissam Gunj.
Indian Iron & Steel Corporation.—8571, Rashtrapathi Road.
J. V. Suresh.—57-A, Mahatma Gandhi Road.
Lalji Meghji & Sons.—8568, Mahatma Gandhi Road.
Masetty Venkanna Nalla Hanumiah.—Kanchar Bazar.
Pannalal Narayanaswamy.—Tobacco Bazar.
R. M. Trivedi & Sons.—3364, Rashtrapathi Road.
Secunderabad Iron & Steel Co.—60-A, James Street.
Secunderabad Trading Company.—59, Mahatma Gandhi Road.
Trivedi & Co.—149, Rashtrapathi Road.
Vuppalanchi Elliah & Sons.—1672, Mahakali Street.

KIRANA MERCHANTS

Bombay Kirana Store.—Mahankali Street, Hissamgunj, Secunderabad.
Durga Commercial Co.—Begum Bazar, Hyderabad.
Garpalli Chenniah & Sons.—Tobacco Bazar, Secunderabad.
Habeeb & Co.—Begum Bazar, Hyderabad.
Indo Trading Co.—Begum Bazar, Hyderabad.
Laxminarayan & Co.—Begum Bazar, Hyderabad.
N. Noor Ali & Co.—Begum Bazar, Hyderabad.
Neminath Padman & Co.—Begum Bazar, Hyderabad.
Nooruddin Karemali & Co.—Begum Bazar, Hyderabad.
Prakashchander & Co.—Begum Bazar, Hyderabad.
S. Rajappa Basappa & Sons.—Begum Bazar, Hyderabad.
Sardar Company.—Begum Bazar, Hyderabad.
Satyanarayan Trading Co.—Begum Bazar, Hyderabad.
Solanki Kirana Store.—Begum Bazar, Hyderabad.
Srigopal Trading Co.—Begum Bazar, Hyderabad.
Sriram Ramiah & Sons.—Mahankalli Street, Hissamgunj, Secunderabad.
Surinder Trading Co.—Begum Bazar, Hyderabad.

MACHINERY MANUFACTURERS, DEALERS AND IMPORTERS

Batliboi & Co. (Hyderabad) Ltd.—New Mody Building, Rashtrapathi Road, Secunderabad.
Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad.
Commercial Trading Corporation.—Ranigunj, Secunderabad.
Hind Auto Engineering Co.—Rashtrapathi Road, Secunderabad.
Industrial Stores Co. Hyderabad Ltd.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
Praga Tools Corp. Ltd.—Kawadiguda Road, Secunderabad.
Rayyat Commercial Corporation Ltd.—141, Kingsway, Secunderabad.
Standard Engineering Co.—138, Kingsway, Secunderabad.
Textool Co., Ltd.—8668, James Street, Secunderabad.
Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

MACHINE TOOLS MFRS.

PRAGA TOOLS CORPORATION LTD.—15, Saifabad, Hyderabad (A.P.); Milling Machines, Bench Lathes and Drill Presses.

THE PRAGA TOOLS CORPORATION LTD.

Kavadiguda Road, Secunderabad—A.P.

★

Manufacturers of

Grade I Machine Tools, Machine Tools Accessories and Precision Tools

★

PRAGA
FOR PRECISION

MACHINE TOOL ACCESSORIES

PRAGA TOOLS CORPORATION LTD.—15, Saifabad, Hyderabad (A.P.); Lathe chucks, Drill Chucks, Lathe and live Centres, Drill Sleeves, Extension Sockets, Plain & Swivel Machine Vices, Dividing Heads and Vertical Attachments, etc.

MATCH MANUFACTURERS

Abdul Shakur Abdullah Match Factory.—Begum Bazar, Hyderabad.
Asafa Match Factory.—Mushirabad, Hyderabad.
Budruddin Match Factory.—Azamabad, Hyderabad.
Cooperative Match Factory.—Hyderabad.
Hyderabad Match Factory.—Bakaram, Hyderabad.
Krishna Match Factory.—Adikemet, Hyderabad.
Maruthi Match Factory.—Bakaram, Hyderabad.
Nizamiah Match Factory.—Mushirabad, Hyderabad.
Royal Match Factory.—Mushirabad, Hyderabad.
Sri Balaji Match Factory.—Adikemet, Hyderabad.
Standard Match Factory.—Mushirabad, Hyderabad.
Swastik Match Factory.—Mushirabad, Hyderabad.
Vishnu Match Factory.—Azamabad, Hyderabad.
Zinath Match Factory.—Azamabad, Hyderabad.

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MILL GIN STORES SUPPLIERS

Chimanlal T. Shah & Co.,—P. Box 48, Secunderabad.
Commercial Trading Corporation.—Ranigunj, Secunderabad.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad; Nampally, Hyderabad.
Commercial Trading Corporation.—Ranigunj, Secunderabad.
Industrial Stores Co. Hyderabad Ltd., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
Voltas Limited.—87/D, Rashtrapathi Road, Secunderabad.

MOTOR, MOTOR CYCLE & CYCLE DEALERS

Bombay Cycle & Motor Agency Ltd.—Ginwalla Bldgs., Mahatma Gandhi Road, Secunderabad (Dn.).
Defiance Automobiles.—"Mehta Mahal", 49, Mahatma Gandhi Road, Secunderabad.

NEWSPAPER AGENTS

Pinto & Co., J. C.—Agents for *The Times of India* & Allied Publications. Sarojinidevi Road, Secunderabad. Grams: "PINTOCO." Phone: 7372.

PAINTS, ENAMELS AND VARNISHES

Hyderabad National Industries.—Sultan Bazar, Hyderabad.
The Hyderabad Oil & Paint Co., Ltd.—Industrial Area, Azamabad, Hyderabad.
MD. ABDUL JABBAR & SONS.—Troop Bazar, Opp. Masjid, Hyderabad.
ATIONAL PAINT & VARNISH WORKS.—Managing Office: 51, Mahatma Gandhi Road, P.O. Box No. 1, Secunderabad (A.P.).
ATIONAL TRADING AGENCIES.—61, Mahatma Gandhi Road, P.O. Box No. 1, Secunderabad (A.P.).

PAPER MERCHANTS

HYDERABAD

Ashoka Traders.—Abid Road, Hyderabad.
B. Shankerlal & Co.—Abid Road, Hyderabad.
Cheelampalli Narsappa.—Afzalganj, Hyderabad.
City Paper Mart.—Siddiamber Bazar, Hyderabad.
Fidali Mohd. Ali.—22-7-7, Osmania Bazar, Hyderabad.
G. Amritlal & Sons.—Gowliguda, Hyderabad.
G. Balkrishnan—19-1-982, Bhorakirki, Hussaini Alam, Hyderabad.
G. Motilal & Sons.—Gowliguda Chaman, Hyderabad.
GOVIND VENKATESH.—Gowliguda, Hyderabad.
HYDERABAD PAPER SYNDICATE.—1140, Osmania Bazar, Hyderabad 2 (A.P.); Sole Distributors for Rohtas Industries Ltd., for Andhra Pradesh.
Kagaz Ghar.—Abid Road, Hyderabad.
Kushalchand Pvt. Ltd., Singhvee Bhavan, Tilak Road, Hyderabad.
Lucky Paper Mart.—Siddiamber Bazar, Hyderabad.
Rajeswar Trading Co.—Nizamshahi Road, Hyderabad.

SECUNDERABAD

Grams: "NEWSPRINT" Phone: 6997
BATCHU LINGIAH & SONS
6, General Bazar, Secunderabad-3 A.P.
Paper-Boards & Stationery Merchants
Distributors & Stockists for:
The Arvind Boards & Paper Products Ltd., Paper & Pulp Conversions Ltd., Sanyal Lahiri & Co. Private Ltd., Ptg. Inks, Sirpur Paper Mills Ltd., Titaghur Paper Mills Co. Ltd., The West Coast Paper Mills Ltd., Ballarpur Paper & Straw Board Mills Ltd., Rohtas Industries Ltd., Orient Paper Mills Ltd.
Enquiries can also be made to our Branch at B-12-1062 | OSMAN GUNJ, HYDERABAD

B. V. R. Balreddy & Co.—137, Parklane, Secunderabad.
Dachepalli Kistiah & Sons.—General Bazar, Secunderabad.
Goli Eswariah.—General Bazar, Secunderabad.
India Paper Mart.—General Bazar, Secunderabad.
Komma Veeriah & Sons.—Tobacco Bazar, Secunderabad.
Mysore Paper Corporation.—6938/3-A, General Bazar, Secunderabad.
Osmania General Agency.—Rashtrapathi Road, Secunderabad.
Prabath Paper & General Stores.—Rashtrapathi Road, Secunderabad.
R. M. Trivedi & Sons.—3364, Kingsway, Secunderabad 3.
Sardar & Co.—Begum Bazar, Hyderabad.
Shah Brothers.—General Bazar, Secunderabad.
S. E. Uppala Ramulu.—General Bazar, Secunderabad.
T. G. Gangappa & Sons.—143, Kingsway, Secunderabad.

PHARMACEUTICALS

Hyderabad Chemical Supplies, Ltd.—Sharah-e-Osmania, Hyderabad.
Hyderabad Chemical & Pharmaceutical Works Ltd.—Azamabad, Industrial Area, Hyderabad.
J. & J. De Chane.—Residency Road, Hyderabad.
Kathiawar Stores.—Mahatma Gandhi Road, Secunderabad.
L. Fernandez & Co.—Abid Road, Hyderabad.
Nath Laboratories.—Bashir Bagh Road, Hyderabad.
Sai Agencies.—Nampally Station Road, Hyderabad.

PHOTOGRAPHERS

CENTRAL STUDIO.—Bashir Bagh, Hyderabad. Phone: 2355. Grams: "CENTUDIO". "By Appointment to the President of India"; For everything in Photographic and Cinematic.
Deccan Studio.—Kingsway, Secunderabad.
Hanagraph Studio.—Abid Road, Hyderabad.
Liberty Photo Studios.—Liberty Buildings, Hyderabad.
Vijay Studio.—Kingsway, Secunderabad.

PHOTOGRAPHIC MATERIALS

Central Studio.—Bashir Bagh, Hyderabad.
Liberty Photo Studio.—Liberty Buildings, Bashir Bagh, Hyderabad.
Mehta Brothers.—Shahrah-e-Osmania, Hyderabad.
Modern Fotos.—Abid Road, opp. Grammar School, Hyderabad.
New Photo Stores.—6656-4, Kingsway, Secunderabad.
V. G. Chimalgi (Estd. 1924).—Kingsway, Secunderabad.

PIPES AND FITTINGS

Commercial Trading Corporation.—Ranigunj, Secunderabad.
C. P. Shah & Brothers.—Ranigunj, P.O. Box 103, Secunderabad; Nampally, Hyderabad.
Deccan Metal Works.—Mahatma Gandhi Road, Secunderabad.
Industrial Stores Co. Hyderabad Ltd., The.—11, Durga Bhavan, Rashtrapathi Road, Secunderabad.
M. K. Mudliar & Sons.—8059, Rashtrapathi Road, Secunderabad.
National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad.

PRECISION EQUIPMENTS

PRAGA TOOLS CORPORATION LTD.—15, Saifabad, Hyderabad (A.P.). Surface Plates, Steel Squares, Sine Bars, Straight Edges, Angle Plates, Hardened and Ground Parallels, Surface Gauges, Vee Blocks, Plug and Cap Gauges, etc.

PRINTING PRESSES

HYDERABAD

Ajanta Art Press.—Chatta Bazar, Hyderabad.
Anand Power Press.—Gowliguda, Hyderabad.
Andhra Law Times.—Near Kamal Talkies, Hyderabad.
Andhra Printing Press.—Gowliguda, Hyderabad.
Arun Printing Press.—Sultan Bazar, Hyderabad.
Bhagyanagar Press.—Isamiah Bazar, Hyderabad.
Chandragupta Printing Press.—Afzalgunj, Hyderabad.
City Printing Press.—Sultan Bazar, Hyderabad.
Commercial Printing Press.—Begum Bazar, Hyderabad.

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Cooperative Printing Press Ltd.—Gunfoundry, Hyderabad.
Durga Printing Press.—Charminar, Hyderabad.
Gangadhar Press.—Afzalgunj, Hyderabad.
Gita Press.—Near Y.M.C.A., Hyderabad.
Hasham Printing Press.—Chatta Bazar, Hyderabad.
Hindi Prachar Press.—Nampalli, Hyderabad.
Hindusthan Printing Press.—Begum Bazar, Hyderabad.
Hyderabad City Ptg. Press.—Chatta Bazar, Hyderabad.
Hyderabad Printing Works.—Abid Road, Hyderabad.
Jain Printing Press.—Narayanguda, Hyderabad.
J. M. Printing Press.—Abid Chourasta, Hyderabad.
Jyothi Printers.—Sultan Bazar, Hyderabad.
Jyothi Printing Press.—Moazamjahi Road, Hyderabad.
Kashinath Printing Press.—Afzalgunj Road, Hyderabad.
Kisan Press.—Afzalgunj, Hyderabad.
Lok Vijaya Press.—Gowliguda, Hyderabad.
Manohar Press.—Afzalgunj, Hyderabad.
Marwari Printing Press.—Afzalgunj, Hyderabad.
Modern Printing House.—Opp. Ashok Talkies, Hyderabad.
Nagarjun Printing Press.—Kacheguda Road, Hyderabad.
Narendra Printing Press.—Kasargatta, Hyderabad.
National Fine Art Press.—Charminar, Hyderabad.
Sadhana Printery.—Narayanguda, Hyderabad.
Sai Art Press.—Gowliguda, Hyderabad.
Sarojini Printing Press.—Opp. Dilshad Talkies, Hyderabad.
Shanti Printing Press.—Afzalgunj Road, Hyderabad.
Sree Press.—Troop Bazar, Hyderabad.
Sree Ramanuja Press.—Afzalgunj, Hyderabad.
Sri Balaji Press.—Gowliguda, Hyderabad.
Sri Ganesh Press.—Tilak Road, Hyderabad.
Sri Gowd Press.—Afzalgunj, Hyderabad.
Sri Krishna Printing Press.—Afzalgunj, Hyderabad.
Sri Krishna Nivasa International Printing Press.—Kothi Road, Hyderabad.
Sri Kripa Press.—Gowliguda, Hyderabad.
Sri Laxmi Art Press.—Gowliguda, Hyderabad.
Sri Satyanarayana Press.—Gowliguda, Hyderabad.
Sri Sharada Press.—Afzalgunj Road, Hyderabad.
Syam Printing Works.—Gunfoundry, Hyderabad.
Sudarshan Printing Press.—Isamiah Bazar, Hyderabad.
Sunder Printing Works.—Near Ashok Talkies, Hyderabad.
Swadeshi Press.—Afzalgunj, Hyderabad.
Uma Printing Press.—Gowliguda, Hyderabad.
Vani Printing Press.—Sultan Bazar, Hyderabad.
Veer Milap Press.—Mozamjahi Road, Hyderabad.
Yuva Press.—Opp. Public Gardens, Hyderabad.

SECUNDERABAD.

Ajanta Printers.—Mahakali Street, Secunderabad.
Balatripurasundari Press.—General Bazar, Secunderabad.
Bharat Printing Press.—Nala Bazar, Secunderabad.
B. V. R. Balreddy & Co.—Park Lane, Secunderabad.
Chhekoti Veeranna & Sons.—Kalsiguda, Secunderabad.
Citizen Press.—Park Lane, Secunderabad.
Commercial Printing Press.—Rashtrapathi Road, Secunderabad.
Dalton & Co.—Rashtrapathi Road, Secunderabad.
Deccan Literature Printers.—Sarojini Devi Road, Secunderabad.
Excelsior Power Press.—Park Lane, Secunderabad.
Gaurishankar Printing Press.—Tobacco Bazar, Secunderabad.
Hyderabad Bulletin Press.—Bolarum Road, Secunderabad.
Karuna Sree Printers.—Tobacco Bazar, Secunderabad.
Minar Press.—Kanchara Bazar, Secunderabad.
Moses & Co.—Rashtrapathi Road, Secunderabad.
Mulki Press.—Bhoiguda, Secunderabad.
Nagendra Printing Press.—Mahakali Street, Secunderabad.
Omkara Press.—Subhas Road, Secunderabad.
Osmania Printing Works.—Rashtrapathi Road, Secunderabad.
Pearl Press.—Mahakali Street, Secunderabad.
Pioneer Press.—Rashtrapathi Road, Secunderabad.
Prabhakar Press.—Opp. Chitra Talkies, Secunderabad.
Premier Press.—Gunj Bazar, Secunderabad.
Sarvodaya Press.—Hill Street, Secunderabad.
Secunderabad Printers.—General Bazar, Secunderabad.
Shivaji Press.—Gunj Bazar, Secunderabad.
Sree Rama Power Press.—Subhas Road, Secunderabad.
Sri Bharathi Press.—Mahakali Gunj, Secunderabad.
Sri Krishna Printing Works.—Imambavdi, Secunderabad.
Srinivasa Printing Press.—Imambavdi, Secunderabad.
Sri Rajarajeswari Litho Art Press.—Opp. Chitra Talkies, Secunderabad.
Sri Vani Press.—Kanchara Bazar, Secunderabad.
Tharani Press.—Mahakali Street, Secunderabad.
Vahini Press.—Rashtrapathi Road, Secunderabad.
Vedic Press.—Nala Bazar, Secunderabad.
Venkateswara Printers.—General Bazar, Secunderabad.

RADIO DEALERS

HYDERABAD

Bharat Radio Service.—Sultan Bazar, Hyderabad.
Hyderabad Radio House.—Abid Road, Hyderabad.
Kalidas Radios.—Sultan Bazar, Hyderabad.
Modern Radio Electric House Ltd.—Sharah-e-Osmani, Hyderabad.
National Radio Co.—Sultan Bazar, Hyderabad.
S. V. J's Radio and Electrical.—Abid Road, Hyderabad.
UNIVERSAL TRADING & RADIO HOUSE.—1240, Abid Road, Hyderabad. Phone: 4568. Branches: Rashtrapathi Road, Secunderabad; Station Road, Kachiguda. Phone: 34849.

SECUNDERABAD

Bharat Trading & Radio House.—Rashtrapathi Road, Secunderabad.
Cine Traders.—Ghasmandi Road, Secunderabad.
EMSON ENGINEERING CORPORATION.—142, Rashtrapati Road, Post Box 73, Secunderabad 3. Phone: 6232.
General Electrical Co. (India) Ltd.—Ghasmandi Road, Secunderabad.
Eastern Electric & Trading Co., 2538, Rashtrapathi Road, Secunderabad.
Karnatak Music House.—Rashtrapathi Road, Secunderabad.
Radio Corner (Sales & Service).—Rashtrapathi Road, Secunderabad.
Sebastian & Sons.—Sarojini Devi Road, Secunderabad.
Secunderabad General Radio Service.—Rashtrapathi Road, Secunderabad.
Vijaya Electronics, 6549-B, Rashtrapati Road, Secunderabad.

RAILWAY COMPONENTS

PRAGA TOOLS CORPORATION LTD.—15, Saifabad, Hyderabad (A.P.). Screw Couplings, Coupling draw bars, Piston Rods, etc.

RAW MATERIALS DEALERS

ARVIND & CO.—Kasaratta Road, Hyderabad 2. Industrial Equipment and Supplies; Specialists in Electroplating Chemicals; Government & Railway Suppliers.

REFRIGERATORS (DOMESTIC)

Belde Engineering Co.—6549, Rashtrapati Road, Secunderabad.
Deccan Engineering & Refrigeration Co.—133, Kingsway, Secunderabad.
Emson Engineering Corporation.—142, Rashtrapati Road, Secunderabad.
Kalidas Radios.—Sultan Bazar, Hyderabad.
Universal Trading & Radio House.—1240, Abid Road, Hyderabad.

SANITARY ENGINEERS AND DEALERS IN SANITARY GOODS

Aurora Sanitary Engineering Co.—1-D, Rashtrapathi Road, Secunderabad.
Barman Brothers.—Barman Building, Gunfoundry, Hyderabad.
Hyderabad Potteries Ltd.—95, Park Lane, Secunderabad.
D. Balaram & Sons.—Shahrah-e-Osmani, Hyderabad.
Italia Mehta & Co.—Bashir Bagh Road, Hyderabad.
K. KARUNAKAR & Sons.—Reddy Hostel Buildings, Tilak Road, Hyderabad.
M. K. Mudaliar & Sons.—8059, Rashtrapathi Road, Secunderabad.
National Sanitary Engineering Co.—149, United Mansion, Rashtrapathi Road, Secunderabad.

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Pallonjee Eduljee & Sons.—Gunfoundry, Hyderabad.
R. R. & Sons.—Shahrah-e-Osmani, Hyderabad.
UDAY ENGINEERING CO.—Sanitary, Electrical & Constructional Engineers; Contractors & Suppliers; Tilak Road, Hyderabad 1 (A.P.).
Vijay Construction Co.—Bashir Bagh Road, Hyderabad.

SCIENTIFIC INSTRUMENTS

Scientiffc Engineering House Ltd.—A-10-335, Bashir Bagh, Hyderabad.
Scientific Instrument Co.—30, Sultan Bazaar, Hyderabad.
Vijaya Scientific Equipments.—Rashtrapathi Road, Secunderabad.

SOAP MAKERS

HYDERABAD
Akbar Soap Factory.—Mushirabad, Hyderabad.
Godrej Boyce Mfg. Co. Ltd.—Abid Road, Hyderabad.
Hyderabad Soap & Oil Works Ltd.—Mushirabad, Hyderabad.
Kumar Soap Factory.—Chikadpally, Hyderabad.
Moti Soap Factory.—Gowliguda, Hyderabad.
Popular Soap Factory.—Mushirabad, Hyderabad.
Rabbit Soap Factory.—Chaderghat, Hyderabad.
Ramakrishna Soap Factory.—Azamabad, Hyderabad.
Santosh Soap Factory.—Azamabad, Hyderabad.
Sunder Soap Factory.—Chikkadpally, Hyderabad.
Tiger Soap Factory.—Kalikaman, Hyderabad.
Vatan Soap Factory.—Nizamshahi Mohalla, Hyderabad.
Wattan Soap Factory.—Joaphkona Masjid, Hyderabad.

SECUNDERABAD
The Aryan Industries P. Ltd.—108, Walker Town, Secunderabad.
The Hyderabad Vegetable Products Ltd.—Moula Ali, Secunderabad.
National Soap Factory.—Bhoiguda, Secunderabad.
Prabhat Soap Factory.—Gorakshansala, Secunderabad.
Ramakrishna Soap Factory.—3452, Old Bhoiguda, Secunderabad.

SPINNING AND WEAVING MILLS

Azam Jahi Mills, Ltd., Warangal.
Dewan Bahadur Ramgopal Mills, Ltd.—Secunderabad.
Hyderabad Spg. & Wvg. Co. Ltd.—Ellichiguda, Secunderabad.
Mahaboob Shahi Kulburga Mills Co., Ltd., Gulbarga ; Agents : D. S. Lahoti, Begumpet, Hyderabad.
Osmanshahi Mills, Ltd., Nanded. 159, Gunfoundry Road, Hyderabad.

SPORTS GOODS DEALERS

HYDERABAD
Asiad Sports.—Abid Circle, Hyderabad.
Deccan Sports.—Abid Road, Hyderabad.
Janjua Sports. Co.—Jam Bagh, Hyderabad.

SECUNDERABAD
Indiana Sports.—138, Park Lane, Secunderabad.
The Pioneer Sports Ltd.—Mahatma Gandhi Road, Secunderabad.
Regal Sports.—127, Mahatma Gandhi Road, Secunderabad.
Sachdev & Co.—Mahatma Gandhi Road, Secunderabad.

STATIONERS & GOVT. CONTRACTORS

HYDERABAD
Ashok Traders.—Opp. Grammar School, Abid Road, Hyderabad.
Deccan Envelope Mfg. Co.—Jam Bagh Road, Hyderabad.
Bombay Pen Stores.—Gowliguda, Hyderabad.
Deccan Pen Stores.—Sharh-e-Osmani, Hyderabad.
V. Perumal Chetty & Sons.—Abid Road, Hyderabad.

SECUNDERABAD
Burhani Stationery Mart.—1388, General Bazaar, Secunderabad.
Deccan Pen Stores.—Rashtrapathi Road, Secunderabad.
Prakash Pen Stores.—General Bazaar, Secunderabad.

TANNERIES

Abdul Khader Tannery.—Mushirabad, Hyderabad.
Abdul Rale, (A. B.) & Co.—Bakaram, Hyderabad.
Abdul Rahaman (V) Tannery.—Mushirabad, Hyderabad.
A. S. Abdul Rab & Co.—Bakaram, Hyderabad.
Aziz (M. A.) Haji & Co.—Bakaram, Hyderabad.
Azamath Co.—Tannery, Jaiguda, Hyderabad.
Dawood Jung Tannery.—Jaiguda, Hyderabad.
Deccan Leather Tannery.—Jaiguda, Hyderabad.
Hyderabad Tanners Ltd.—Begum Bazaar, Hyderabad.
Ismail (K. M.) & Co.—Mushirabad, Hyderabad.
Khalilur Rahaman (A. E.) Bros.—Tannery, Mushirabad, Hyderabad.
Lakshmanrao Kalooji Tannery.—Jaiguda, Hyderabad.
Veenaiah Dubbaiah Tannery.—Mushirabad, Hyderabad.
Textool Co., Ltd.—8568, James Street, Secunderabad-Dn.

VEGETABLE OILS MANUFACTURERS

Aryan Industries P. Ltd.—108, Walker Town, Secunderabad.
Hyderabad Vegetable Products Ltd.—B-733, Abid Road, Hyderabad.

WATCHES AND CLOCKS DEALERS

HYDERABAD
Asha Watch Co.—Abid Road.
Indo Swiss Watch Co.—Abid Road.
Jalal & Sons.—Abid Road.
Prince Watch Co.—Abid Road.
Rasheed & Co.—Salar Jung Bldg., Hyderabad.

SECUNDERABAD
Asha Watch Co.—Park Lane.
Bombay Watch Co.—Mahatma Gandhi Road.
Edulji Sorabji & Sons.—Park Lane.
Kacharani Stores.—General Bazar.
Nathumal Bros.—Park Lane.
Ramesh Watch Co.—Park Lane.

WELDING EQUIPMENT

Belde Engineering Co.—6549, Rashtrapathi Road, Secunderabad.
Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad.

WIRE PRODUCTS DEALERS

Dominion Engineering Corporation.—P. Box No. 37, Rashtrapathi Road, Secunderabad.
Secunderabad Iron & Steel Co.—60 A, James Street, Secunderabad.

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ASSAM STATE

Area : 47,089* sq. miles.

Population (1961 census) : 11·86 million (Tentative). Density 252; Literacy 25·8 per cent.

Capital : Shillong.

Nearly one half of the area of Assam State is covered by hills. Plains : 23,033 sq. miles ; Hills : 22,734 sq. miles. Besides, a total area of 1,322 sq. miles, mostly hilly, has been transferred to Assam State from N.E.F.A. The hill areas are sparsely populated and inhabited by the hill tribes.

The Assam Panchayat Bill 1958 provides for a three-tier panchayat system.

DISTRICTS

Names of Districts with headquarters in brackets : Goalpara (Dhubri) ; Kamrup (Gauhati) ; Darrang (Tezpur) ; Nowgong (Nowgong) ; Sibsagar (Jorhat) ; Lakhimpur (Dibrugarh) ; Cachar (Silchar) ; Garo Hills (Tura) ; United Khasi-Jaintia Hills (Shillong) which is also the capital of the state ; United North Cachar and Mikir Hills (Diphu) ; Mizo previously called Lushai Hills (Aijal).

The hill districts have been given, under the Constitution of India, a large measure of self-governing rights according to their respective tribal traditions and customs, exercised through Autonomous District Councils under the supervision of the Government of Assam.

For purposes of Autonomous District Councils, United North Cachar and Mikir Hills are two Districts : North Cachar Hills (Haflong) ; Mikir Hills (Diphu).

The administration of land vests in the District Councils. All the District Councils have framed their own laws for the purpose and are now levying and collecting Land Revenue, House tax etc.

Anchalik Panchayats at the anchal level and Gaon Panchayats at the Gaon level have been formed in the place of Mahkuma Parishads at the Subdivisional level, under the Assam Panchayat Act., 1959. Accordingly, there are now, 16 Mahkuma Parishads, 120 Anchalik Panchayats and 2,570 Gaon Panchayats in the Plains Districts of the State. These Panchayats have covered 17,717 villages.

Number of Circles : In Assam Tahsils are termed as Circles : 52.

Number of Local Boards (District Boards) : 15.

Number of Municipalities : 17.

Number of Town Committees : 20.

GEOGRAPHY

Assam has three distinct natural divisions : Brahmaputra or Assam Valley, Surma or Barak Valley and the hills.

The river basins are naturally fertile and present in the main few difficulties to the cultivator. Rainfall being high the problem in general is to dispose of the surplus water and to control the action of floods rather than irrigation in the usual sense.

Rice is the staple food crop. Tea and jute are the most important crops grown for export. Besides, potatoes are also cultivated in Assam. A good deal of short staple cotton and fruits like oranges and pineapples are grown in the hills.

Rainfall is everywhere abundant, and ranges from 50 to 258 inches a year leaving aside the highest recorded rainfall in this part of India with the maximum reached at Cherrapunji in the Khasi Hills 32 miles south of Shillong (905 inches in 1861 : record precipitation for one day is 41 inches). This is reputed to be the wettest place in the world. Temperatures are moderate.

Earthquakes of considerable severity have taken place. By far the worst in recent times was that which occurred on August 15, 1950, one of the world's five biggest recorded tremors. According to old records the Assam earthquake of 1897 is regarded as the severest in human history.

COTTAGE INDUSTRIES

Main cottage industries : Sericulture and Weaving. Principal areas for Sericulture : Sibsagar, Nowgong, Goalpara, United Khasi-Jaintia Hills and United Mikir and North Cachar Hills Districts.

Handloom weaving is done in most of the families in Assam. There are professional weavers in Cachar District and Sualkuchi area in Kamrup District.

Number of fly and throw-shuttle looms in the State : 500,000 (approximately).

Value of total production : Rs. 8,88,00,000.

Value of production of individual industries : Weaving products (Rs. 8,00,00,000) ; Muga raw silk (Rs. 54,00,000) ; Mulberry raw silk (Rs. 9,30,000) ; Open Eri Cocoon (Rs. 15,00,000).

Production of individual industries : Cloth—54,000,000 yards ; Mulberry raw silk—31,000 lb. ; Muga raw silk—180,000 lb. ; Open Eri Cocoon—500,000 lbs.

Total number of workers in Cottage industries : 12,50,000 (inclusive of part-time and whole time workers in sericulture and weaving). Average workers per establishment 2.

Number of workers in individual industries : Handloom Weaving (850,000) ; Sericulture (400,000).

AGRICULTURE

Latest available :

Main food crops of the State : Rice, Rape, Mustard, Sugar-cane, Potato, Pulses, Maize and Oranges.

Main cash crops of the State : Tea, Jute, Cotton and Tobacco.

Production of food crops in tons (figures are for 1957-58 and exclude Naga Hills District) : Autumn Rice : 349,824 ; Winter Rice : 1,204,275 ; Spring Rice : 11,438 ; Rape and Mustard : 56,233 ; Sugar-cane : 86,128 (in terms of gur) ; Potato : 119,882 ; Pulses, Rabi : 26,774 ; Tur (Arhar) : 1,794 ; Maize : 7,689 ; Gram : 926 ; Wheat : 1,438. Other cereals and small millets : 1,990 ; Castor : 762 ; Sesamum : 3,645 ; Linseed : 280.

Production of individual cash crops : Tea : 378,282,731 lb. (Black Tea : 358,733,791 and Green Tea : 19,548,940) (1957) ; Jute : 1,094,116 bales (one bale—400 lb.) ; Cotton : 8,249 bales (1 bale—392 lb.) ; Tobacco : 6,910 tons ; Mesta : 11,588 bales (one bale—400 lb.) (1957-58).

The cultivation of oranges, which is a principal crop, is mainly confined to the Khasi-Jaintia Hills which are a non-cadastrally surveyed area. Hence no data available.

Veterinary : Total number of cattle : 5,145,576 (male—2,630,054 ; female—2,515,522 ; Buffaloes—475,231). Horses and Ponies—15,590. Sheep—32,604, Goats—917,239, Fowls—5,050,724, Other livestock—Pigs 291,920 (1951 livestock census).

PLANTATIONS

Latest available :

Plantation in the State : Tea.

1957 :

Area under Plantation : 1,395,304 acres (1956).

Number of Tea Plantations 806.

Area under Tea : 390,910 acres.

Produce from plantation : Tea : 378,282,731 lb. (Black tea—358,733,791 lb. ; Green tea —19,548,940 lb.).

Average daily number of workers : 673,953.

Fisheries : *Variety of fish produced :* Rahu, Katla, Mrigal, Mali, etc.

Assam State has made the fish seed demands from their own resources. Culture of mirror carps, scale scarps etc. has become popular in the Hill Districts of the State.

FORESTS

Main types of Forest with some species of trees of economic importance occurring in them :

Evergreen forests, mixed deciduous forests, deciduous and dry deciduous forests, riverain forests, Savannah forests, swamp forests, bamboos and temperate forests.

A large area under forests falls in the hill districts which are sparsely populated and covered with vegetation.

Assam possesses one of the richest fauna in Asia and it is claimed that outside Africa, there is no part in the world with so many varieties of animals, birds, reptiles and insects. Rhinoceroses, elephants, wild buffaloes, bisons (called 'Mithuns' by most of the hill tribes in Assam and the N.E.F.A.), swamp deer, Sambhar, spotted deer, barking deer, tiger, leopards, black panther, King Cobra, pink-headed duck and Giant Hornbill are some of the well-known specimens of wild life.

Four sanctuaries and two game reserves with a total area of about 500 sq. miles, are maintained by the Government Forest Department for the protection of the interesting and in some cases the numerically dwindling species. Kaziranga and Manas are the two most famous sanctuaries, both nearly the same size, 166 and 105 sq. miles respectively. Kaziranga, in the heart of Assam and situated on the South Trunk Road, is easily accessible and affords every facility to the visitor to see the famous one-horned rhinoceros from elephant back at close range. The sanctuary at Manas at the foot of Bhutan Hills is the more attractive from the scenic point of view.

Main forest produce : Timber, firewood, bamboo, elephants, cane, lac, elephant tusks, thatch, fishery, stone, sand, drugs, incense and perfumes, fibres and flosses.

(For further particulars see under Forests.)

LAND TENURE SYSTEM

There are two classes of land tenure system in the State—the permanently settled estates and the temporarily settled estates.

Permanently settled estates : These are found in Goalpara District and Karimganj Subdivision of the Cachar District. In Goalpara district the permanently settled estates held by the proprietors and the rights of most of the intermediaries under them have been acquired under the Assam State Acquisition of Zamindaris Act and the tenants holding lands under them have come into direct relationship with the Government. In Karimganj Sub-division of Cachar district there are permanently settled estates and the acquisition of such estates has started. The tenants who hold either directly under the Zamindars or intermediaries pay rent in cash or kind. There are crop-shares too. There is also a small number of people in Karimganj who hold land under landlords on condition of rendering service. An amount of Rs. 5,71,709 as an ad-interim compensation and a sum of Rs. 21,96,691 as final compensation have so far been paid for acquisition of estates and tenures under the Assam State Acquisition Zamindaris Act.

* There is some discrepancy between the figures supplied by the Central Govt. and the State Govt.

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Temporary settlement system : Also known as the Ryotwari system. Prevails in the other plains districts of the State and also in portions of Goalpara District and Karimganj which are not permanently settled. These lands are assessed to full revenue and are called Khiraj lands.

The peculiarity of this system is that generally the cultivators hold lands directly under the Government unlike the lands in permanently settled estates.

The Khiraj lands are again divided into two categories, periodic and annual. The periodic landowner has a heritable and transferable right whereas the annual landowner (technically called "settlement holder") has a right of user only and has no right of transfer or sub-letting. Subject to the payment of the land revenue the owners of annual lands get renewal of the lease from year to year. The owners of annual lease can get their lease converted into periodic after satisfying certain conditions on payment of a priscribed premium.

Besides these, there are some La-Khiraj (full revenue free) and nisf-Khiraj (half revenue free) grants in Assam and also a number of Fee Simple grants. These Fee Simple grants are for cultivation of tea. These grants are initially revenue-free, but subsequently they have been assessed at full rate of revenue under Assam Revenue Free Waste Land Grants Act, 1948. There are other Waste Lands Settlement Rules for special cultivation.

There are three tenancy Acts in Assam, *viz.* The Goalpara Tenancy Act, The Sylhet Tenancy Act and The Assam (Temporarily Settled Districts) Tenancy Act. The former two Acts apply to the Districts of Goalpara and Cachar (those portions of former Sylhet District which have remained in Assam after partition) respectively. The last Act applies to the plains districts of Assam. These Acts confer rights of occupancy, determine the rent payable by the tenants and regulate the relationship between the landlords and the tenants. The Assam Adhiars Protection and Regulation Act, 1948, governs the conditions regarding crop-rent payable by the crop-sharing tenants and prescribe the conditions on which the landlord can resume possession for personal cultivation. Government has also passed a law called the Assam Fixation of Ceiling on Land Holdings Act (1956), whereby the holding of agricultural lands has generally been limited to a maximum of 150 bighas (about 50 acres) per family.

Hill Districts : In the hill districts of Assam, land administration is carried on by the Autonomous District Councils according to local customs and usages. The provisions of revenue regulations and tenancy acts in force for the plains districts do not apply there and even land-revenue as it exists in the plains, is not realised there. In its place, a house tax or hoe tax is levied on the people. In many parts of the hills, land is held in common by entire villages.

MINES, INDUSTRIES

The only minerals in Assam worked on a commercial scale are coal, limestone and petroleum oil. Petroleum output about 100,000,000 gallons ; coal output 4,86,000 tons (1958) ; and limestone output approximately 1,000,000 tons. The most extensive coal measures hitherto worked are in the Naga Hills, Lakhimpur District and Khasi-Jaintia Hills. Important deposits also exist in the Garo Hills ; but those are yet to be exploited. Limestone is quarried in the Khasi-Jaintia Hills. Petroleum is worked only in Lakhimpur and refined there. An oilfield has been found at Nahorkatiya.

An oil refinery is to be set up in the State.

Silk is manufactured in the Assam valley; also cotton weaving prevails as a cottage industry, women playing a predominant part. In this valley there are no caste weavers. In the Surma Valley or Cachar weavers carry on a brisk manufacture on a commercial scale. These handloom products find a ready market on account of the great scarcity of mill made cloth. There is no textile mill in Assam and the entire requirement of mill-made cloth has to be imported from other States.

Tea is the main industry, but there is a large petroleum mining concern with Digboi in Upper Assam as the centre and also some coal-mines. There is a big match manufacturing concern at Dhubri. Boat-building, brass and metal and earthenware, limestone burning, cane and bamboo work, furniture making, sola hat, smithy, brick making, mustard oil pressing, rice and saw mills are other industries. But agriculture employs about 80 per cent of the population. Assam carries on a considerable trade with the adjoining hill tribes and countries.

Power Projects : The only power project the Umtru Hydro-electric Project was started in 1949-50 and completed in 1956-57 at a total cost of Rs. 211·67 lakhs. The project benefits Kamrup and Kand Jhills. The installed capacity is 8,400 kW.

The Assam Government proposes to start another hydro-electric project at Umiam in Khasi-Jaintia Hills. It will be integrated with the Umtru project and their joint installed capacity will be 75,000 kW. During the IIIrd Plan Assam will generate over 45,000 kW from natural gas found around Naharkatia.

The electricity generated at the new project (the Barapani Project) will meet the anticipated demands of about 11,000 kW of industries proposed to be set up in Gauhati, Cherapunji, Tinsukia-Makund areas of Assam. The other districts, which will also receive supply from the project, are Kamrup, Nowgong and Khasi and Jaintia Hills, Dharang and Goalpara in the State.

The capital cost of the scheme is estimated at Rs. 705·98 lakhs.

Provision for the project in the second Plan of Assam was Rs. 89·5 lakhs.

The probable date of completion of the first phase of the project is 1963-64. The construction work was expected to be inaugurated on January 9, 1960.

HANDLOOM INDUSTRY

Handloom industry is an age-old cottage industry of Assam.

It is the largest and the most important cottage industry next to Agriculture, both in hills. Most of the weavers of the State are women and they generally weave cloth for their domestic use in leisure time.

Cess Fund : In order to develop khadi and handloom industries and to promote the sale of khadi and other handloom cloth, the Government of India decided to levy additional excise duty on mill made cloth. Created out of the proceeds of the cess, the Act is known as Cess Fund. Since its creation, financial assistance by way of loans and grants for the development of the industry is forthcoming.

In Assam, the handloom development schemes had been implemented since 1953-54. At the end of 1959-60, the number of co-operative societies had increased from 317 to 1,267 and looms and weavers from 3,541 to 31,060 and from 8,322 to 32,947 respectively. Upto the end of 1959-60 share capital loans amounting to Rs. 45,000 and working capital loans to the tune of Rs. 2 lakhs had been given. Improved looms and other weaving accessories are supplied to the weavers' co-operative societies from the financial assistance received from the All India Handloom Board. In order to relieve the weavers of Assam from the high cost of transport, the Board also grants a subsidy at Rs. 20 per bale of yarn procured.

Powerlooms : So far 150 powerlooms have been purchased. Out of these looms, 30 are being installed at the Industrial Estate, Gauhati, and the remaining 120 powerlooms are proposed to be allotted among powerloom co-operative societies of Silchar, Nowgong, Gauhati and Nalbari. Steps have already been taken to install two preparatory and processing plants in the State, as operation of powerlooms will not be helpful without such plants. Attempts are also being made to install two calendering plants.

The Assam Apex Weavers' Co-operative Society has started functioning from July, 1959 and now sells yarn to the primary weavers' societies at moderate prices.

Out of the total number of handlooms in Assam, only about 7 per cent are now in the co-operative fold. In the Third Five Year Plan, it is aimed to bring a sufficiently large number of looms into the co-operative fold.

TRADE

Assam has to import almost every article of daily necessity. Unlike in previous years the State has now to supplement the local production of rice—the staple food—by imports from the rest of India. The State's requirement of wheat was also met by the Central Government with imported wheat.

Assam's trade for the most part, was with areas now included in East Pakistan, but after partition it has dried up to a great extent and the traffic is maintained only by exports of fruits and vegetables and imports of fish, eggs and poultry.

TRANSPORT

Much of the trade of Assam is carried by river. Steamer companies maintain fleets of vessels which ply to and from Neamati, Disangmukh, Tezpur, Gauhati, Goalpara, Dhubri, Karimganj, Silchar and many other smaller stations.

During the dry season the formation of *chars* and sandbanks restrict the volume of riverine traffic and after the 1950 earthquake, Upper Assam has been forced to rely more on road and rail transport.

From January 1958, the entire railway system in Assam has been made part of a new Zone of the Indian Railways—the North East Frontier Railway. Pandu (Maligaon) near Gauhati has been made the head-quarters of N.E.F. Railway.

The railway system enters Assam by the north bank of the Brahmaputra and continues on the more important south bank after crossing the river by a ferry between Amnigaon and Pandu. From Pandu the line stretches eastward to Tinsukia, 324 miles away. Short branch lines connect the important towns of Dibrugarh, Nowgong, Jorhat, Sibsagar and Tezpur to the main line.

The construction of a road-rail bridge to link the two banks of the Brahmaputra has now been taken in hand. The bridge is expected to be completed in 1962 and the cost is estimated at Rs. 10 crores.

Because of the slender surface link between Assam and the rest of India, air services are of great value to the State. The first direct link by air between Calcutta and Gauhati was established in 1947. This air service was originally on a non-scheduled basis but very soon it became a daily service and now there is more than one service a day. Almost all the big towns—Tezpur Jorhat, Dibrugarh, North Lakhimpur, Silchar, Dhubri and Gauhati are served by daily scheduled flights. Pasighat and Along in N.E.F.A. have also been placed on the airmap.

The total length of motorable roads as on March 31, 1956, stood at 6,627 miles including 797 miles of National Highway. Of these 5,163 miles were in the plains and 1,464 in the hills. Besides, there were on this date 1,641 miles of bridle roads.

Nationalisation of motor transport in the State was started in 1948, and till November 1959, 1,116 miles were covered. The Third Five-Year Plan aims at nationalising 496 miles more.

On November 1, 1959 :

Number of vehicles operated by the Department : 570.

Number of passenger buses : 350.

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Number of 1st Class service cars : 21

Number of Goods Vehicles : 139

Number of other vehicles (ambulance, staff car, etc.) : 60

Number of passengers carried in a day : 20,000

Goods carried in a day : 10,000 maunds.

Service mileage daily operated by the Nationalised Transport : Nearly 25,000.

The State Transport organisation provides employment to 3,000 persons. Capital invested till March 31, 1959 is Rs. 217 lakhs. Profit in 1957-58 stood at Rs. 31·27 lakhs. The State Transport is under the administrative management of a Board, with the Minister for Transport as Chairman.

Shillong is reached by a 63-mile nationalised motor route from Gauhati, the nearest railhead, steamer ghat and air station. Assam Government's State Transport carries both passengers and goods on a monopolistic basis on this National Highway.

The programme of road-making has its special significance in that it is designed to make Assam self-sufficient in ensuring quick transport of its exports to and imports from other parts of the Indian Republic without having to pass through Pakistan. At the same time communications within the State are being improved by provision of necessary feeder roads from and to the arterial road system of the State so that local surplus produce may find good markets.

CIVIL SUPPLIES

State's requirements : Rice—1,693,000 tons (annual) ; Wheat—9,000 tons (Import of 5,000 tons and 4,000 tons by way of allotment by Govt. of India) monthly ; Salt—30,00,000 maunds for the year 1961 (estimated) ; Sugar—5,000 tons (monthly) ; Cloth—5,500 bales per month ; Yarn—3,000 bales per month.

CO-OPERATION

For statistical information see the main article on Co-operation. Some specific types of co-operative societies and their number, not dealt with in the article on Co-operation, are given below.

Small Size Credit Societies (3,048) ; Consumers & Trading (891) ; Weavers' (1,207) ; Urban & Salary Earners' (154) ; Farming (216) ; Industrial Societies (200) ; Multipurpose Societies (175) ; Fishery (143) ; Large Size Credit (231) ; Primary Marketing (78) ; Primary Milk (13) ; Wholesale & Supply (5) ; Subdivisional Co-operative Union (12) ; Milk Union (2) ; Housing (2) ; Better Living (2) ; Cotton Ginning Mill (2) ; Jute Baling (1) ; Sugar Mill (1) ; Apex Weavers' (1) ; Apex Marketing Society (1) ; Apex Bank (1).

Number of Central Banks : 9.

Apex Bank : 1 with 19 branches.

Assam Co-operative Apex Bank (June 30, 1959) :

Working capital	Rs. 6,36,42,000
Deposits	,, 3,06,68,000
Paid-up share capital ..	,, 37,42,000
Profit	,, 8,22,000

Budget allotment for the department for the year 1959-60 : Rs. 84,17,800.

HEALTH SERVICES (1959)

Latest figures available :

Commonest diseases in State and mortality from each disease during 1959 : Malaria 3,937 ; Kala-Azar 99 ; Total all fevers 21,958 ; Small Pox 62; Dysentery and Diarrhoea 3,355 ; Respiratory diseases 3,364 ; Injuries 1,098.

Number of Allopathic hospitals and Dispensaries : 521 (Rural—460 ; Urban—61).*

Total number of Ayurvedic dispensaries : 12.*

Types of special hospitals and the number of each : T.B. Hospitals—20 (546 beds)* ; Mental Hospital—1 (740 beds)* ; Leprosy Hospitals and Clinics—16 (995 beds)* ; Kala-Azar Hospitals—3 (301 beds).*

Total number of Allopathic doctors (Rural and Urban)—3,633 (1960).

Total number of Ayurvedic doctors—1,181 (Rural 281 and Urban 900).

Total number of Nurses—1,243.

Total number of Midwives—1,510 (1960).

Total number of Dhais (Rural and Urban)—1,071 (1960).

Total number of Compounders—3,520 (1960).

Total number of outdoor patients treated in Hospitals—1,921,845.

Total number of Government Hospitals and Dispensaries—616.

Total number of Government doctors : Allopathic—460 (1960).

Total number of Government Nurses : 440 (1960).

Total number of Medical Colleges : Allopathic—1 ; Ayurvedic—1.

Total number of Students : Allopathic—559 ; Ayurvedic—40.

Special Medical Research Institutes—2 (Pasteur Institute, Shillong ; Malaria Institute, Shillong).

Budget allotment (1960-61) : for Public Health : —Rs. 1,50,56,500 ; for Medical : Rs. 1,68,33,300 ; for Plan Development : Rs. 1,30,65,661.

EDUCATION (1957-58)

(For particulars about general education see under Educational Tables in 'Late Particulars'.)

Number of Social Education Centres organised by the State : 972.

In order to cater for the post-literacy courses 716 village libraries were given grants-in-aid.

Adults both male and female are generally admitted into the Social Education Centres.

Total number admitted : 21,501 (men 19,805 ; women : 1,696).

Total budget for the scheme in the State : Rs. 4,62,100.

Number of adults who came out successful : 13,927 (men : 12,908 ; women : 1,019).

Number of teachers in Social Education Centres : 972.

Hindi in the Education System :

Hindi has been introduced as a compulsory subject in selected secondary and special schools of the State.

Total number of schools where Hindi has been introduced as a compulsory subject : 742.

Basic Education :

The Scheme for Basic Education was first introduced in this State only in the year 1949-50 on the lines of the Wardha Education Scheme.

Due attention was paid to the productive side of Basic Education.

It is expected that the existing 8 Government training centres with Basic Schools under them will earn on an average Rs. 1,000 per centre.

LABOUR

Average daily number of workers in registered factories at the end of March 1958 : 68,825 (Men 59,527 ; Women 7,323 ; Adolescents 1,376 ; Children 599).

Names of industries in which a minimum wage is fixed : Tea Plantation, Motor Transport, Rice and Oil Mills, Agriculture, Road Construction, Building Operations and Stone-breaking or crushing.

Average monthly earnings of workers in some of the more important industries (in March 1957) (earnings include basic wage as well as other cash remunerations like dearness allowance and overtime ; basic wages are shown in brackets) :—Plantations : Rs. 45 (Rs. 30-50) ; Tea factories : Rs. 52-12 (Rs. 37-25) ; Rice Mills : Rs. 80-31 (Rs. 61-44) ; Plywood factories and Saw Mills : Rs. 67-56 (Rs. 48-19) ; Match factory : Rs. 114-50 (Rs. 49-12) ; Petroleum : Rs. 194-50 (Rs. 102-37).

Total number of Trade disputes for the year 1956-57 : 6,504.

Total number of Strikes (1958) : 17 (14 in tea plantations).

Total number of workers affected : 7,216 (4,373 in tea plantations).

Number of man-days lost : 18,132.

Number of registered Trade Unions in State (March 31, 1958) : 136.

Total membership of Trade Unions : No reliable figure available ; but on March 31, 1958, the total for 50 Unions stood at 73,072.

Number of Labour Welfare Centres in State : 21 including two training centres.

COMMUNITY PROJECTS

(See under article Community Development Projects.)

HOUSING

Housing authority : Director of Housing, Shillong.

Finance available for housing : Schemes are entirely financed by loans and subsidies from the Government of India, Ministry of Works, Housing and Supply except that for slum clearance schemes a matching subsidy is given by the State Government. Allotment by Government of India for the Second Five-Year Plan period : Rs. 141·50 lakhs excluding staff expenses of the order of Rs. 15 lakhs.

The Schemes are : (1) Subsidised Industrial Housing for industrial workers—Rs. 10,00,000 ; (2) Plantation Labour Housing for tea estate workers—Rs. 30,00,000 ; (3) Low Income Group Housing—Rs. 79,50,000, under which two types of loans are granted : (*a*) for tenements for municipal sweepers at a ceiling loan of Rs. 2,800 per tenement, and for residential houses by private individuals, with a maximum loan of Rs. 8,000 per house ; (4) Rural Housing for improving housing condition in villages—Rs. 10,00,000, and (5) Slum Clearance—Rs. 12,00,000.

Types of houses built : Tenements for municipal sweepers at a ceiling cost of Rs. 2,800 per tenement, and residential houses by private individuals with no prescribed ceiling.

Financial help given to local bodies : To Municipalities for sweepers' tenements, 80 per cent of the estimated cost of construction or Rs. 2,800 per tenement, whichever is less.

The Housing Board advances loans also to private individuals for construction of residential houses at the rate of 80 per cent of the cost of construction or Rs. 8,000, whichever is less, repayable with interest at 5½ per cent per annum in 18 years.

Progress of implementation of the schemes till September 30, 1958 : (1) Construction of 303 tenements under Subsidised Industrial Housing Scheme—Rs. 9,99,000 ; (2) Initial expenses towards implementation of Plantation Labour Housing Scheme—Rs. 67,000 ; (3) Sanctions to local bodies for construction of tenements for sweepers—Rs. 7,00,000, and to private individuals for residential houses—Rs. 60,00,000 ; (4) Preliminaries undertaken for Rural Housing, and (5) Construction of 272 tenements undertaken under the Slum Clearance Scheme at an estimated cost of Rs. 8,98,000.

BUDGET (1961-62)

See under 'Late Particulars'.

* Fig. relates to 1958.

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FIVE-YEAR PLAN

See under 'Late Particulars'.

THE ASSAM FINANCIAL CORPORATION

(See under State Financial Corporations in Late Particulars.)

POPULATION OF DISTRICTS (1961 Census)

(*See "Late Particulars"*)

Names of Districts showing the area in square miles* and population** respectively of each District followed by the names, area in square miles and population respectively of the talukas in that particular District within brackets:

Cachar District: 2,680; 1,115,865 (Hailakandi: 512; 195,650; Karimganj: 709; 378,324; Silchar: 1,459; 541,891).

Darrang District: 2,806; 913,841 (Mangaldai: 1,272; 402,501; Tezpur: 1,534; 511,340).

Garo Hills District: 3,152; 242,075.

Goalpara District: 3,979; 1,108,124 (Dhubri: 2,881; 779,835; Goalpara: 1,098; 328,289).

Kamrup District: 3,844; 1,490,392 (Barpeta: 1,254; 539,423; Gauhati: 2,590; 950,969).

Lakhimpur District: 4,153; 1,078,157 (Dibrugarh: 2,808; 831,968; North Lakhimpur: 1,345; 246,189).

Mizo Hills (Lushai): 8,143; 196,202 (Aijal: 4,861; 135,985; Lungleh: 3,282; 60,217).

Nowgong District: 2, 200; 886,955.

Sibsagar District: 3,476; 1,212,224 (Golaghat: 1,363; 333,553; Jorhat: 1,094; 434,660; Sibsagar: 1,019; 444,011).

United Khasi and Jaintia Hills District: 5,554; 363,599 (Jowai: 1,513; 67,631; Shillong: 4,041; 295,968).

United Mikir and North Cachar Hills District: 5,883; 165,440 (Mikir Hills: 3,995; 125,777; North Cachar: 1,888; 39,663).

* There is a discrepancy between the figure obtained by adding the areas of individual districts and the figure for the area of the State as a whole given at the top of the article.

** 1951 cencus figures.

UNIVERSITY OF GAUHATI

Gauhati, Assam.

VICE-CHANCELLOR

Dr. H. C. Bhuyan, M.Sc. (Col.), Ph.D. (Bristol), D. Litt. (Lond.).

REGISTRAR

P. Datta, M.A., B.L.

Teaching, Affiliating and Residential.

Subjects where provision exists for post-graduate and research:

Assamese, Philosophy, Economics, History, Education, Mathematics, Statistics, Botany, Commerce, English, Physics, Chemistry, Geology, Anthropology, Agricultural Botany, Sanskrit, Political Science, Culture and Civilisation of Assam.

Number of colleges affiliated: 35 (including one constituent college).

Number of students: Affiliated Colleges: 23,393; University Departments: 1,671; Constituent College (Law College): 473.

Grant from State Government:

Annual recurring grant of Rs. 10,00,000 (1959-60).

Receipts: Rs. 48,91,821 (1959-60).

Expenditure: Rs. 46,67,292 (1959-60).

LIST OF COLLEGES †

Abhayapuri College, Abhayapuri.
Assam Agricultural College, Jorhat.
Assam Engineering College, Jalukbar.
Assam Medical College, Dibrugarh.
Assam Veterinary College, Gauhati.
Bajali College, Pathsala.
B. Barooah College, Gauhati.
B.N. College, Dhubri.
Cotton College, Gauhati.
D. C. Baruah Girls' College, Jorhat.
Darrang College, Tezpur.
D.M. College, Imphal (Manipur).
D. R. College, Golaghat.
Dibrugarh H.S. Kanoi College, Dibrugarh.
Goalpara College, Goalpara.
Gurucharan College, Silchar.
Handiqui Girls' College, Gauhati.
J.B. College, Jorhat.
Karimganj College, Karimganj.
Lady Keane Girls' College, Shillong.
Mangaldoi College, Mangaldoi.
M.C. College, Barpeta.
Nalbari College, Nalbari.
North Lakhimpur College, North Lakhimpur.
Nowgong College, Nowgong.
Post-Graduate Training College, Jorhat.
Pragjyotish College, Gauhati.
Sibsagar College, Sibsagar.
S. S. College, Hailakandi.
St. Anthony's College, Shillong.
St. Edmund's College, Shillong.
St. Mary's College, Shillong.
Tinsukia College, Tinsukia.
Union Christian College, Barapani.
University Law College, Jhalukbari.

ASSOCIATIONS, ETC.

ASSAM CHAMBER OF COMMERCE
Keating Road, Shillong.

President, Md. Umaruddin.
Senior Vice-President, P. C. Chaudhuri.
Vice-Presidents, K. L. Bajoria, S. D. Goswami.
Honorary General Secretary, D. P. Agarwala.
Honorary Joint Secretary, Madan Mohan Oberai.

ASSAM CHAMBER OF COMMERCE & INDUSTRY
Morello Bldg., Shillong.

President: A. C. Sen; *Vice-President*: Rameshwar Prosad Goenka; *Hony. Secy.*: S. Sen.

THE ASSAM CO-OPERATIVE TRAINING INSTITUTE
P.O. Joysagar.

Superintendent, Syed Ikram Hussain.

ASSAM ENGINEERING INSTITUTE
Bamuni Maidan, Gauhati.

Principal: H. N. Bhattacharya, B.Sc. (Hons.) (Cal.), B.Sc. (Egg. B.H.U.), A.M.I.E. (Ind.), M.M.E.A. (Ind.).

ASSAM NATIONAL CHAMBER OF COMMERCE
P.O. Ulubari, Gauhati.

Hon. Secretary: S. C. Deb.

ASSAM RESEARCH SOCIETY
Gauhati.

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H.R.H. THE PRINCE OF WALES INSTITUTE OF ENGINEERING AND TECHNOLOGY
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INSTITUTION OF ENGINEERS (INDIA)
C/o Office of the Public Health Engineer,
Lachaumiere, Shillong.

NARAYANI HANDIQUI HISTORICAL INSTITUTE

Department of Historical and Antiquarian Studies in Assam, Gauhati.

Jt. Director & Officer-in-Charge of the Department: Dr. Pratap Chandra Choudhury, M.A. (B.H.U.), Ph.D. (Lond.).

PASTEUR INSTITUTE & MEDICAL RESEARCH INSTITUTE
Shillong.

Director: Dr. R. L. Cunville; *Addl. Director*: Dr. L. M. Kokti; *Biochemist*: Dr. J. K. Barooah.

TOCKLAI EXPERIMENTAL STATION
Cinnamara P.O.

Director: H. Ferguson, B.Sc. (Hons.).
Dy. Director: N. G. Gokhale.

UPPER ASSAM CHAMBER OF COMMERCE
Jorhat.

NORTH-EAST FRONTIER AGENCY

Area: 31,438 sq. miles; 81,425·9 sq. Kilometres.

Headquarters: Shillong, Assam.

The population of N.E.F.A. after the separation of one of its former Frontier Divisions to the Naga Unit is now estimated at 4·5 lakhs (approximately) (1959-60). For 1961 census figures see "Late Particulars."

The North-East Frontier Agency, geographically and constitutionally a part of Assam is situated on the borders of Bhutan, Tibet region and Sikiang province of China and Burma. The Agency's international border is about 800 miles.

Before Independence there was very little direct administration in the interior of the hills and control was exercised by influence and touring. Since August 15, 1947, considerable attention is being devoted to it and it is now administered by the Ministry of External Affairs, with the Governor of Assam acting as the Agent of the President of India under the provisions of the Sixth Schedule (Part B) of the Constitution. The Governor is assisted by an Adviser who is directly in charge of the administration. The N.E.F.A. is completely separate from Assam administratively.

The Agency Secretariat is situated in Shillong, capital of Assam.

Divisions in the Agency with headquarters in brackets: Kameng Frontier Division (Bomdila); Subansiri Frontier Division (Ziro); Siang Frontier Division (Along); Lohit Frontier Division (Tezu); Tirap Frontier Division (Khonsa).

† Besides the list below, there are several other colleges which are not yet affiliated to the University.

‡ There is some discrepancy between the figures given by the Central Govt. and the State Govt.

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Each Division is under the charge of a Political Officer. In addition four territorial areas are entrusted to Additional Political Officers with headquarters at Sepla, Dapo Rijo, Pasighat and Roing. Within these jurisdictions Sub-Divisions are in charge of Assistant Political Officers, and Circles, of Base or Area Superintendents. The system of administration has been organised on a single line. At the Secretariat in Shillong the heads of various departments are integrated and function as ex-officio Secretaries of their Departments, while in the Divisions the Political Officers are assisted by technical advisers like District Medical and Agricultural Officers and Inspectors of Schools. Senior officers of the Agency are drawn from a newly created special cadre—the Indian Frontier Administrative Service (I.F.A.S.).

GEOGRAPHY

The North-East Frontier Agency is a wild mountainous country and presents a remarkable topographical variety. The northern regions bounded by the Himalayas are snowbound in the winter. On the east, the hill ranges bordering on Burma also present a formidable barrier. Near Assam State areas the Agency has some plains.

The entire area is intersected by rivers. The main river artery of Assam, the Brahmaputra, known during its course in Tibet as the Tsangpo enters the Siang Frontier Division of the North-East Frontier Agency cutting the main Himalayas southwards near Gelling. It is known by the Adis as the Siang and receives many tributaries the most important being the Syom before debouching into the plains at Pasighat.

Other major rivers are the Subansiri and the Kameng (Bhoreli), the first of which also breaks through the main Himalayan range and takes its source from the table lands of Tibet. Similarly the Lohit river enters the N.E.F.A. as one of the main tributaries of the Brahmaputra between Rima and Kibithoo and after flowing through Lohit Frontier Division joins the other main river of the Division, the Dibang and later the Siang at a major confluence above Dibrugarh.

FORESTS (1959)

The reserve forests constitute 204 sq. miles (approximately) of the Agency and 3,512 sq. miles are proposed to be under reserve forest. In the year 1958-59, 17 lakhs (approximately) c. ft. timber was extracted and a total revenue of Rs. 22·03 lakhs earned. Forest revenue has increased nearly ten fold since 1951-52

The fauna and flora of the Agency are rich. Wild elephants, buffaloes, tigers, various kinds of deer, leopards, bisons, mithuns, bears, pigs, wild goats, and many kinds of cats are found. To the people of the Agency the mithun is most important as it serves apart from its religious and sacrificial significance as a barter currency and medium of exchange.

The monsoon sets in from the month of May and continues till the end of September. The average annual rainfall at Bomdila is 40·12″; Tawang—63·83″; Ziro—49·42″; Along—92·72″; Pasighat—229·05″; Tezu—160·03″ and Changlang—78·22″.

TRIBES

The Agency is inhabited exclusively by Hill Tribes. A broad list of the division-wise tribes (with sub-tribes in brackets) is given below :—

Kameng Frontier Division :—Monpa (Tawang or Brahmi Monpa, Dirang Monpa or Sherchokpa, Lish Monpa), Sherdukpen, Aka (Aka, Hrusso), Khowa or Khoa, Miji, Bangni or Dafla, Sulung.

Subansiri Frontier Division :—Tagin or Moya, Dafla or Nissi, Hill Miri, Apatani, Mikir, Sulung.

Siang Frontier Division :—Memba, Khampa, Mishmi Idu, Miri, Adi (Gallong, Minyong, Padam, Pasi, Pangi, Milan, Shimong, Tagin, Karko, Ashing, Bori, Bokar, Pailibo, Ramo, Tangam).

Lohit Frontier Division :—Memba, Padam (Adi) Idu Mishmi or Chulikata, Miju or Kaman Mishmi, Taraon or Digaru Mishmi, Khampti, Singpho.

Tirap Frontier Division :—Singpho, Nocte (Nocte proper, Laju, Laphan, Wakka, Ninu or Nianu), Wancho (Wancho proper, Banfera, Wakka, Ninu or Nianu), Tangsa (Longphi, Lungri, Rungrang, Ponthai, Lungchang, Mosang, Moglum or Havi, Morang, Taipi, Tikhak, Jongkak, Yoggli).

Just as a large variety of tribes is found in the Agency, so also a large number of distinct languages and dialects are spoken. The number of languages is about 30 and the dialects about 42.

Very few of these languages have a script and it is one of the objectives of the Agency Administration in the sphere of education, to provide the people with the Devanagri script for writing in their languages.

EDUCATION

Education in the Agency is of the Basic type with due emphasis on crafts and agriculture. Seven schools (1959-60) have already been converted to Basic pattern, and 100 schools were in the process of conversion in 1960-61.

Upto the end of the primary stage, the mother tongue of the students is the medium of instruction in schools, and text books in various tribal languages have already been prepared upto Class I. Assamese will be the medium of instruction from Class IV onwards and it will also be introduced as a subject of study early in the primary stage. Hindi and English are also taught as compulsory languages from Class III and IV respectively.

In 1947, when the Department of Education was set up, there were only two lower primary schools in the entire Agency. At the end of 1959-60 the situation was :—Number of Institutions : Lower Primary 120, Middle English 12, High English 4, Technical Institutions 3, Total Institutions 139.

The Buniadi Shiksha Bhawan (Teachers Training Basic and non-Basic) at Changlang (Tirap Frontier Division) runs re-orientation courses for the Teachers

There were 328 Teachers in 126 Educational Institutions and approximately 5,566 students in 1958-59.

COTTAGE INDUSTRIES (1959-60)

The people of the Agency have a great tradition of artistic and cultural self-reliance. The Administration aims at assisting them to develop their capabilities and to improve their standard of living by adopting better technique without interference in the pattern of native art.

Cottage Industries Training and Production Centres have been opened at 10 places to impart training in weaving, spinning, tailoring, carpet-making, carpentry, wood-carving, cane and bamboo work, smithy, painting, sawing, soap-making and pottery. Rearing of silk and *endi* is demonstrated at sericultural farms at Pasighat, Bordumsa and Namsang.

The 10 Cottage Industries Training-cum-Production Centres trained 270 trainees. About 60 instructors impart training. Expenditure during 1958-59 : Rs. 4,27,350 and upto February 1960 (for 1959-60) Rs. 3,00,000.

PUBLIC HEALTH

Main types of disease with number of patients treated within brackets (1959):

Respiratory (36,30,000), Malaria (10,38,000), Diarrhoea and Dysentery (17,23,000), Other stomach and intestinal diseases (19,02,000), Scabies (10,12,000), total indoor patients treated (4,12,000), total outdoor patients treated (219,07,000). Total patients treated (223,22,000).

Number of Hospitals, Dispensaries and Mobile Health Units (78), number of Leprosy Colonies (3), number of Leprosy patients treated (106 in 1958), number of Doctors (88), number of compounders (92), number of Nurses (11), number of midwives (17).

B.C.G. teams are touring the Agency area specially in Siang Frontier Division where the incidence of tuberculosis has given rise to concern.

A Health Training and Research Centre has started to train Junior Nurses and Rural Health Workers drawn from the tribal people themselves.

AGRICULTURE

Agriculture is the mainstay of the people of the Agency. Generally, the *jhum* system (shifting) of cultivation is followed as in the hills of Assam and the yield is not enough to meet the requirements.

A radical change from *jhumming* to permanent-cultivation is not considered possible or even desirable in the peculiar conditions of N.E.F.A. and the objective to introduce permanent cultivation wherever possible while simultaneously improving *jhumming* on scientific lines.

State help towards agriculturists consists of:

(*i*) Subsidy towards land reclamation, minor irrigation, purchase of tools, purchase of seeds, purchase of plough bullock, agricultural education and training and purchase of improved cattle, pigs and poultry;

(*ii*) Technical advice and guidance along with free services with necessary equipment for plant protection, organisation of marketing facilities, organisation of exhibitions, organisation of study tours, organisation of crop competitions, organisation of demonstration of improved crops, veterinary aid and livestock upgrading.

There is no regular land settlement system in N.E.F.A. as in other settled areas and no cadastral survey has been conducted. The ownership of land in N.E.F.A. varies from tribe to tribe, though generally speaking, it can be considered under the three categories, (1) land owned by individuals, (2) land owned by the clan and (3) common village land. Government attitude to land in N.E.F.A. is formulated in the three Jhum Land Regulations which were promulgated in 1947-48. These regulations give the tribal population absolute rights over their Jhum Land which is defined as all lands which any member or members of a village or a community have a customary right to cultivate by means of shifting cultivation or to utilize by clearing jungle or grazing livestock provided, that such village or community is in permanent location. In actual practice, however, the local customs and traditions are respected, and take precedence over these regulations.

CO-OPERATIVE MOVEMENT

Most of N.E.F.A. tribes have a very strong social sense, and every village is in its own way a Co-operative Society. The first Co-operative Society was started at Pasighat in December, 1955. There are now (as on 31st March 1960) 27 Primary Co-operative Societies which include 4 Multi-purpose Societies, one Industrial Co-operative Society, one Dairy Farm and 22 Consumers' Stores. There is also a Central Co-operative Store and Union Limited, at Mohanbari performing the functions of a supervising union with a working capital of Rs. 59·30 thousands. The success of the movement so far has been quite satisfactory. All the 28 Primary Societies are Members of the Central Society. The total working capital of all the 27 Societies is estimated to be nearly Rs. 8 lakhs. The N.E.F.A. Administration has been specially exempted by the working group constituted by the Reserve Bank of India, from the purview of the national policy, as co-operation is inherent in tribal life and culture and in spirit, although the individual land tenure system is very strong, co-operative farming in N.E.F.A. has been in existence from time immemorial.

COMMUNITY PROJECTS

Community Development and National Extension Service Blocks in the Agency cover 8,400 (1959-60) sq. miles with a total population of

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1,58,000. A special N.E.F.A. type block has been evolved by the Administration with the approval of the Government of India to meet the specific needs of the tribal people. The main emphasis is laid, on self-sufficiency in food, better roads, water supply and sanitation.

COMMUNICATIONS

First priority in the Second Five Year Plan N.E.F.A. has been assigned to communications. Rapid progress has been made in the building of roads. A road now connects Bomdi La, the headquarters of Kameng Frontier Division at a height of 9,000 feet above sea level; Ziro the headquarters of Subansiri Frontier Division; Along, the head quarters of Siang Frontier Division; Tezu, the headquarters of Lohit Frontier Division and Khonsa, the headquarters of Tirap Frontier Division, and Pasighat and Roing, the Sub-Divisional headquarters of Siang Frontier Division and the Lohit Frontier Division respectively.

Physical achievements from 1951 to 1960 consist of roads (jeepable) 448 miles, bridle paths 131·00 miles, Mule paths 404 miles, Porter tracks 1,556 miles. Total 2,539 miles.

For the development of the interior, carriage of mail and cash and the evacuation of casualties the Administration depends greatly on Otter aircraft, while Dakotas are used for landing or dropping supplies all over the Agency.

A wireless net-work has been set up to provide quick connection among the various administrative centres and outposts.

SUPPLY

Air supply in the interior areas of N.E.F.A. commenced in January 1951. The chartered companies fly regular sorties to land or air-drop supplies. The total tonnage air-lifted during the calendar year 1959 was 4,957·35 metric tonnes.

Under a State Trading Scheme, ration and stores for the interior localities depend on air supply and are procured centrally at Jorhat, N.E.F.A.'s air base and dropped or air-landed in the interior.

SECOND PLAN

The Planning Commission earmarked a sum of Rs. 950·50 lakhs for the Second Five Year Plan but subsequently it was revised and a sum of Rs. 509·56 lakhs (excluding 344·00 lakhs for approach roads by Army Engineers) was provided for with a view to making the Plan a very realistic one and also to afford greater scope in speedy fulfilment of the various targets.

Out of the total Plan provision of Rs. 509·56 lakhs the progress of expenditure upto the end of 1958-59 was Rs. 175·70 lakhs against the phased Plan provision of Rs. 257·75 lakhs.

For the year 1959-60 the revised estimates were Rs. 120·56 lakhs as against Rs. 120·08 lakhs Plan outlay. For 1960-61 the budget estimates are Rs. 164·18 lakhs as against Rs. 164·94 lakhs of Plan outlay.

BIHAR STATE

Area : 67,113 sq. miles.*

Total Population: 46·46 million (1961 census). Density 691; Literacy 18·1 per cent.

Capital : Patna.

Administrative Divisions :—Patna, Bhagalpur, Tirhut and Chota Nagpur.

Districts with names of District Headquarters in brackets in each Division :

Patna Division : Patna (Patna); Gaya (Gaya); Shahabad (Arrah).

Tirhut Division : Muzaffarpur (Muzaffarpur); Saran (Chapra); Champaran (Motihari); Darbhanga (Laheriasarai).

Bhagalpur Division : Bhagalpur (Bhagalpur); Monghyr (Monghyr); Purnea (Purnea); Santal Parganas (Dumka); Saharsa (Saharsa).

Chota Nagpur Division : Ranchi (Ranchi); Hazaribagh (Hazaribagh); Palamau (Daltonganj); Singhbhum (Chaibassa); Dhanbad (Dhanbad).

Number of Districts : 17; Number of District Boards : 17; Number of Municipalities (including Patna Municipal Corporation) : 49.

Number of Notified Area Committees : 28; Number of notified Panchayats : 10,555 (1960); Names of towns with a population of over 50,000 : Patna, Monghyr, Jamshedpur, Muzaffarpur, Gaya, Chapra, Bhagalpur, Arrah, Ranchi, Darbhanga and Gaya.

(*For names, area and population of taluks see under Population in 'Late Particulars'.*)

Complete switch-over to Hindi in all Govt. departments was to take effect from June 1, 1960.

Separation of judiciary from the executive has been implemented in 12 out of 17 districts (April 1961).

GEOGRAPHY

Bihar is more thickly populated than Germany. Hindus form an overwhelming majority of the population. Though Muslims form about one-tenth of the total population they constitute more than one-fifth of the urban population of the State. The scheduled tribes account for 10·6 per cent before the enactment of the Bihar and West Bengal Transfer of Territories Act, 1956. These are inhabitants of the Chota Nagpur plateau and the Santal Parganas, the latter district being a continuation of the plateau in a north-easterly direction.

Although there is a great deal of mineral wealth in Chota Nagpur and important industries are developing in connection with it, still for the bulk of the population of the State agriculture continues to be the basic occupation. Over 80 per cent of the population depends wholly on agriculture, while only 7·8 per cent depends on industries.

The soil throughout the whole of that portion of the Indo-Gangetic plain lying within the State boundaries is extremely fertile, particularly in North Bihar, in parts of which the density of the population is more than 900 people to the square mile. The State occupies a transitional position between Ganges delta with its damp climate so suitable for the paddy crop and the States to the north and west where large irrigation schemes have had to be provided to enable the soil to produce its bounty. As in the delta of the Ganga, rice is by far the most important crop as it occupies normally an area of approximately 12 million acres or over 50 per cent of the net cropped area of the State. In the circumstances, the importance of the south-west monsoon to the State of Bihar cannot be overestimated.

In addition to the rice crop, however, other grain crops are grown on a tolerably large scale. Of the monsoon cereals, maize, wheat and barley are extensively grown. The cultivation of oilseeds like castor, mustard and linseed forms a large and important part of the agriculture of Bihar.

After Uttar Pradesh, Bihar is the most important white sugar area in India, some one-sixth of the total production of white sugar in the country being turned out in Bihar factories.

Jute has been an important crop and is confined almost entirely to the Purnea District part of which has gone to West Bengal after reorganization.

Tobacco is a crop of increasing importance in the State and one which is likely to expand in importance.

LARGE-SCALE INDUSTRY

The large-scale industries are :

Iron and Steel, Aluminium, Lead, Foundry, General and electrical engineering, Bicycles, Tanning, Leather goods and foot-wear making, Sulphate of ammonia, Hume pipe and R.C.C. products, Asbestos products, Glass and glass-wares, Ceramics, Cement, Heavy chemicals, Woollen textiles, Cotton textiles, Jute textiles, Silk and Art silk, Tobacco, Distilleries, Benzol, Sugar, Food industries, Roller flour mills, Mica, Shellac and Superphosphate.

The figures below are for 1960. They are the latest available. The first figure shows the number of units and the second the workers.

Iron and steel (8 ; 38,023); Sugar (32 ; 22,314); Cement (7 ; 5,463); Mica (104 ; 10,186); Bidi (78 ; 2,083); Coke ovens (5 ; 1,586); Jute mills (3 ; 4,792); Cotton mills (4 ; 1,228); Woollen mills (1 ; 588); Cigarettes (1 ; 2,194); Pulp and paper (3 ; 3,787); Shoe (1 ; 606); Tannery (1 ; 297); Rice mills (110 ; 3,619); Oil mills (32 ; 911); Shellac (28 ; 974).

Bihar will spend about Rs. 21 Crores on industrial development in the Third Plan period. Two of the major expansion schemes include the superphosphate factory at Sindri and the insulator factory at Ranchi and the aim is to increase their output from 25 tons to 50 tons per day and the annual production capacity of 2,400 tons to 4,800 tons respectively.

MINERALS (1959)

(Later figures are not available)

Chief Minerals	Quantity in Metric Tons
Iron ore	..
Coal	3,234,200
Mica	22,730,300
Manganese	16,338
Kyanite	27,432
Asbestos	16,012
Copper ore	403,711
Chromite	3,492
Steatite	4,375
Slate	665†
Limestone	1,735,815
Igneous rocks	508,274†
Fireclay	77,316
China clay	139,300
Silica and Quartz	4,526
Bauxite	76,953

The distribution of the minerals is as follows : Coal in Jharia, Bokaro, Kurnapura, Ramgarh, Jainti, Rajmahal, parts of Raniganj; iron ore in Noamundi, Gua, Buda Bune in Singhbhum District and Gere in Palamau District; mica in a 90-mile long and 20-mile broad belt extending from Gaya District to Monghyr through Hazaribagh to Monghyr and Bhagalpur Districts.

* After transfer of territory to W. Bengal.

† Figures are for 1956 in tons.

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copper at Rakha, Mosaboni, Dhobani and Badia in Singhbhum; bauxite at Pakripat, Serendag in Ranchi District and at Netarhat in Palamau District; limestone at Banjari, Rohtas, Banlia in the districts of Shahabad, Palamau, Hazaribagh and Singhbhum; China clay in Singhbhum, Ranchi, Dhanbad, Bhagalpur and Santhal Parganas; Fire clay at Jharia and Daltonganj in Monghyr and Hazaribagh Districts; Manganese in Singhbhum District; Kyanite at Lapsa Buru, Ghagdih, Kanyaluka in Singhbhum; steatite at Belaipahari, Digha, Bhitardari and Nurda in Singhbhum District and Pukhukata in Dhanbad District; Chromite near Chaibasa; pyrites in Shahabad and Ranchi District; graphite in Palamau District; apatite at Nandup Pathargara, Badia, Sunrgi in Singhbhum District; asbestos at Barabana and Sarangposi in Seraikella State and in Monghyr District; ochre in Singhbhum District and in Rajmahal hills in Santhal Parganas; tungsten at Tatanagar; uranium deposits have also been located in Bihar.

Work is in progress for the establishment of a sulphuric acid plant in Shahbad and an Uranium Ore mill in Singhbhum Districts. The search for petroleum in North Bihar is also in progress.

AGRICULTURE

The following statement shows the figures of out-turn of principal crops obtained by crop cutting and eye-estimation during 1959-60 (in thousand tons):—

Rice (autumn and winter) 3,825; Wheat 347; Gram 239; Barley 188; Maize 552; Masoor 64; Arhar 108; Khesari 345; Peas 36; Sugarcane 6,643; Potato 466; Tobacco 14; Jute 957 (in bales); Chillies 18.

The following figures show areas under principal crops in 1959-60 (in thousand acres):—

Rice 12,121; Wheat 1,612; Gram 1,301; Barley 1,077; Maize 1,727; Masoor 353; Arhar 504; Khesari 2,202; Peas 175; Sugarcane 443; Tobacco 42; Potato 171; Jute 400; Chillies 104; Marua 500.

During 1957-58 Bihar, one of the five top producers of rice among the States, produced 2,287,000 tons of rice.

There are about 4 lakh cane-growers in Champaran, Saran, Darbhanga and Muzaffarpur. Tobacco is grown in Muzaffarpur, Monghyr, Purnea, Darbhanga; and jute in Purnea part of which has gone to West Bengal after reorganization.

Variety of fish produced (inland): Carps, Catfishes, feather backs, Murrells and miscellaneous.

Estimated production of fish: 10 lakh maunds valued at Rs. 7 crores approximately.

Estimated fishing population: nearly 22 lakhs.

There were 356 Blocks in June 1960. Of these 286 were C. D. Blocks of stage I, 46 of stage II and 24 C. D. Blocks of the old pattern.

They covered 42,000 villages with an area of approximately 43,000 square miles and a population of 23·5 millions.

As at end of June 1960, the money value of the peoples' contribution was estimated at Rs. 13·15 crores as against Government expenditure of Rs. 8·94 crores.

FORESTS (1956-57)

The following is the latest information available, 1956-57:

Main forest produce	Quantity
Timber	3,248,000 c.ft.
Fuel	4,036,000 „
Bamboo	9,173,000 Nos.
Sabaigrass	22,255 mds.

(see also under 'Forests' for other particulars).

TRANSPORT

Total mileage of roads: 13,430 miles; metalled roads: 10,020 miles; unmetalled roads: 3,410 miles.

Total mileage of waterways: Length open to navigation: 900 miles.

State transport run by the Bihar State Road Transport Corporation from May 1, 1959, operates services on different routes in South Bihar.

It had a fleet of 669 buses. The fare is 7½ pies per passenger mile exclusive of a tax.

The area is divided into four Divisions: Patna, Gaya, Bhagalpur and Jamshedpur. Every Division has its own workshop and stores. The Central Workshop and Stores are at Phulwarisharif Camp Jail in Patna.

IRRIGATION

Area irrigated by Government irrigation works in acres: 948,458; private canals: 566,393; tanks: 595,288; wells: 524,741; other sources: 1,748,979 (1956-57).

The area under assured irrigation before the inception of the First Plan was 8·98 lakh acres in South Bihar and 1·39 lakh acres in North Bihar. Area added during First Plan was 2·41 lakh acres in South Bihar and 0·75 lakh acres in North Bihar. Target for the Second Plan was 6·38 lakh acres in South Bihar and 1·16 lakh acres in North Bihar.

Expenditure under assured irrigation before the First Plan was Rs. 343·44 lakhs in South Bihar and Rs. 106·56 lakhs in North Bihar. Expenditure during the First Plan was Rs. 753·03 lakhs in South Bihar and Rs. 454·26 lakhs in North Bihar. Expenditure during the Second Plan will be 1,570·28 lakhs in South Bihar and Rs. 1,786·00 lakhs in North Bihar.

The larger Irrigation works are Sone Canal System in Shahabad, Patna and Gaya districts; Tribeni Canal (recently expanded and extended) and Dhaka and Teur Canals in Champaran District; Sakri Canal in Gaya, Patna and Monghyr Districts; Saran Canal (recently renovated) in Saran District; Kamala Trisula and Balan Irrigation Schemes in Darbhanga District; Kao and Durgawati Bharari Dam and Suara Irrigation Schemes (completed); Kohira Reservoir (under execution) in Shahabad District; Jamini Kola, Semaria-Gurgawah Embankment-cum-Irrigation Sheme, Mayurakshi Left Bank Canal Karantola and Dhabuajore Irrigation Schemes in Santhal Parganas; Sirnawa Lokain, Bhartua-Nandan Kulti Irrigation Schemes (Completed) and Panchane Phase II Scheme (completed) and Panchane Phase II Scheme (under execution), in Patna District, Batane, Chariari, Mahugain, Nitane, Hullia, Keshwar River Scheme, Jamunia Irrigation Scheme and Upper Morhar Lilajan, Adri, Dhawa Irrigation Scheme (completed) and Lower Morhar Irrigation Scheme (under execution) in Gaya District; Ajan, Gidheshwari, Ganaili, Kundghat, Kharagpur Lake, Kaurihari, Nagi and Lower Kiul and Tati (completed) and Moorwe Reservoir Bijan and Phirangibigha Irrigation Scheme (under execution) in Monghyr District; Sonhula Tarar, Gebua Weir, Khajia Danr (Phase 1), Mahmuda, Chandan Bilasi, Khalkhalia Embankment and Khajia Phase II scheme (completed) and Chandan Phase I and Badua Scheme (partly in Monghyr district) under execution in Bhagalpur District; Aradih, Buchaopa, Kita and Raisa Irrigation Scheme (completed) and Kanchi Weir and Hatia Water Supply Schemes (under execution) in Ranchi District; Charwa, Gonda, Jurga, Jamunia, Ghaghra, Lotia Irrigation Scheme (completed) and Kuti-Pisi Irrigation Scheme (under execution) in Hazaribagh District; Sadabah, Kararbar, Batre and Chordanda Jinjoy and Adra Schemes (completed); Chako Birha, Phulwaria Nala, Utmahi and Sonre (Karar) Irrigation Scheme (under exeution) in Palamau District; and Kaida, Brahmini and Sonua Irrgation Scheme (completed) and Torlow, Roro and Putungara Irrigation Scheme (under execution) in Singhbhum District.

The Sone Canal System is being remodelled. Besides, Kosi Project which will benifit Saharsa, Purnea and Darbhanga Districts is under execution and Gandak Project which will benefit Champaran, Saran, Musaffarpur and Darbhanga, District has also been taken up.

Besides this, the Irrigation Department have constructed 946 State Tubewells in all, 496 of which are located in South Bihar and 450 in North Bihar. 15 more tubewells are being sunk in South Bihar.

The total water resources available in the South Bihar Plains & Chotanagpur Plateau are 26·99 million acre ft. of which 9·57 million acre ft. can be utilised for assured irrigation of 40 lakh acres at an estimated cost of Rs. 86 crores.

North Bihar abounds in snow-fed rivers and the problem there is primarily that of flood control. Irrigation is provided only in pockets, where the rainfall is erratic and where the area is made partially or wholly flood free. For tackling these problems, North Bihar has been divided into three main river valley zones, *viz.*, (1) Gandak Valley Zone, (2) Adwara Valley Zone and (3) Kosi Valley Zone.

Most of the important rivers of North Bihar have already been embanked or are scheduled to be embanked in the near future with provision of Irrigation-cum-Drainage sluices in the embankments.

This problem of floods is being tackled on a systematic line. Irrigation Schemes have been planned for utilising 13·24 million acre ft. of the water resources available in North Bihar (including the Kosi and Gandak Projects) which will bring under assured irrigation 64 lakh acres of culturable land at an approximate cost of Rs. 98 crores.

The Master plan for irrigation in Bihar envisages assured irrigation facilities for 104 lakh acres of the total 255·60 lakh acres of culturable land in the State at an estimated cost of Rs. 184 crores.

During the First and Second Plan periods Flood Control Schemes including Kosi Flood Control had been undertaken by the State Government at a cost of Rs. 2,329 lakhs and 2,000 miles of additional embankment is nearing completion from which 31·00 lakh acres of land will be protected by the end of the Second Plan.

Flood control is mainly confined to North Bihar. An area of 24·87 lakh acres was protected from flood before the inception of the First Plan. An additional area of 5·75 lakh acres was protected from floods during the First Plan. During the 2nd Plan an additional area of 25 lakh acres will be protected from floods.

Under the drainage scheme 0·37 lakh acres were reclaimed in North Bihar before the First Plan and 0·43 lakh acres during the First Plan.

Upto the end of the 2nd Five Year Plan period for area to be covered by the Minor Irrigation schemes costing less than Rs. 1·00 lakh in Bihar would be 17·71 lakh acres total (inclusive of potential created during the first five year plan period). The total provision on Minor Irrigation works during the 2nd Five Year Plan period was Rs. 399·91 lakhs (minus Community Development).

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Power Projects

Continuing Schemes

Scheme	Scope	Date of beginning	Date of completion	Amount provided in 2nd Plan (Rs. lakhs)
Utilisation of D.V.C. Power in Patna-Gaya areas ..	Patna & Gaya Districts ..	1954	1959	11·29
Utilisation of D.V.C. Power in Dehri-Aurangabad, Bhabua & Buxar area	Gaya, Palamau & Shahabad Districts	1954	1958	50·87
Extension of supply to Cement Works at Khelari & Coal Mines in Bokaro area	Hazaribagh District	1954	1960	25·77
Electrification of Sini-Chakradharpur-Chaibasa and Gua area	Singhbhum District	1954	1961	29·96
Extension from Maithon to Jamalpur-Monghyr-Bhagalpur-Sahebganj	Monghyr, Bhagalpur and Santhal Parganas	1954	1963	196·67
Electrification of Dumka and adjoining area	Santhal Parganas	1954	1960	1·57
Extension of supply to Katihar, Kishunganj, Saharsa and Bairgania in North Bihar	Purnea, Saharsa and Muzaffarpur Districts	1954	1959	45·57

NEW SCHEMES

Scheme	Scope	Date of beginning	Date of completion	Amount provided in 2nd Plan (Rs. lakhs)
Electrification of towns, villages in mining areas of Singhbhum district	Singhbhum District	1956	1961	64·60
Extension of power supply to Mica Mines area	Hazaribagh and Monghyr Dists.	1956	1961	54·15
Power Development in Coal Mines area of Manbhum, Ranchi, Hazaribagh and Palamau districts	Dhanbad, Hazaribagh, Ranchi and Palamau Districts ..	1956	1960	133·62
Electrification of Jamtara, Karmataur and extension to Madhupur, Deoghar & Giridih area	Santhal Parganas District ..	1956	1961	53·20
Extension of Elec. Supply to Shahabad District for utilising D.V.C. Power	Shahabad District	1956	1961	117·80
Extension to Patna and part of Monghyr District for utilising D.V.C. Power	Patna and Monghyr	1956	1961	74·10
Electrification of Pakur and extension to Dumka and surrounding area	Santhal Parganas District ..	1956	1961	21·85
Power Development in rural and urban areas of Bhagalpur, Santhal Parganas and Monghyr districts	Bhagalpur, Santhal Parganas and Monghyr	1956	1961	126·35
Utilisation of D.V.C. Power in Gaya District	Gaya	1956	1961	120·70
Steam Station in North Bihar	Monghyr, Darbhanga, Muzaffarpur, Saran	1956	..	293·55
Distribution extension under Steam Station in North Bihar	Monghyr, Darbhanga, Muzaffarpur, Saran	1956	1961	192·12
Taking over of derelict supply undertakings, their development and loans to licensees	Entire State	1956	1961	53·01
Rural Electrification in Bihar	Entire State	1956	1961	158·70

Hydroelectric Investigation	1959	26·92
Reorganisation of mines in coalfield areas ..	1959	50·00
Railway Electrification scheme	1958	400·00
Patratu Steam Station	1960	100·00

Progress of Electrification as for 1960-61 :

	Achievement by 1960 March	Anticipated achievement by 1961 March
Total expenditure (Progressive) (rupees in lakhs) ..	21,48·75	26,59·68
Miles of H.T. lines ..	7,684	8,500
Miles of L.T. lines ..	3,288	3,800
Number of sub-stations	3,176	3,500
Number of consumers	94,144	1,20,000
Number of villages and towns	1,61[illegible]	2,118
Number of tube-wells and surface wells ..	3,447	4,600
Demand in kW ..	76,600	1,25,000
Number of units sold (million KWH × 106)	350	500
Gross revenue collected (rupees in lakhs)	3,22·75	519

The foundation of Bihar's first thermal power plant was laid at the village of Chakia near the proposed Barauni oil refinery on January 26, 1960.

The plant will consist of two sets of 15,000 kW. each and cost Rs. 309 lakhs with a foreign exchange component of Rs. 108 lakhs.

The plant will be installed with Yugoslav assistance.

Besides the Barauni Thermal Power Station, construction work of Pathratu Thermal Power Station has been taken up which will supply power mainly to the Hatia Heavy Engineering Project. A total sum of Rs. 1·00 crore has been allotted to Patratu Station this year. Initially this plant will consist of two sets each of 50,000 kW generating capacity. There is a provision for increasing its generating capacity by 250,000 kW during the 3rd Plan period. This scheme is estimated to cost Rs. 12·82 crores of which Rupees one crore were expected to be spent during the Second Plan period and a sum of Rs. 11·82 crores is likely to be spent during the 3rd Plan period. For extension, a sum of Rs. 23·00 crores has been provided out of which Rs. 9 crores are likely to be carried over to the Fourth Plan.

In the beginning two generating sets each of 15,000 kW capacity will be installed in the Barauni Steam Power Station. It is proposed to increase this capacity by 75,000 kW during the 3rd Plan. This scheme is estimated to cost Rs. 3·09 crores. During the 3rd Plan Rs. 0·50 crore has been provided. Rs. 6·50 crores have been provided for extension.

During the Third Plan, work on Gandak Project (10,000 kW) and Kosi Project (20,000 kW) will be taken up. For these Rs. 2·02 crores and Rs. 1·00 crore, respectively, have been provided during the Plan period.

The Government of India is considering a scheme for the extension of the Pathratu Thermal Power Station at Hatiya.

The generating capacity of 100,000 kW. of the thermal station will be increased to 250,000 kW. to meet the demands for power from a number of industrial units, including the Heavy Engineering Corporation, Ranchi. The project, to be implemented by the Bihar State Electricity Board, will be completed during the Third Plan period at an estimated cost of Rs. 12·82 crores.

For Rural Electrification in Bihar, a sum of Rs. 3·00 crores have been provided for the Third Plan.

New construction and extension works of 132,000 volts grid will be taken up during the Third Plan.

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LAND TENURE

The land tenure system in Bihar is governed by the following Tenancy Acts: The Bihar Tenancy Act, 1855, The Chota Nagpur Tenancy Act, 1908; the Santal Parganas Tenancy (Supplementary Provision) Act, 1949; The Kosi Area (Land Restoration to Raiyats) Act, 1957; The Bihar Privileged Persons Homestead Tenancy Act, 1947; The Bihar Bakast Dispute Settlement Act, 1947; and the Ranchi District Tana Bhagat Raiyats Agricultural Land Restoration Act, 1947. The above Acts protect all types of raiyats against eviction and ensure special privileges to scheduled castes and scheduled tribes against alienation.

The Raiyats in Bihar may be classified into the following classes:—(*i*) Occupancy raiyats (*i.e.* raiyats having right of occupancy in the land held by them); (*ii*) Non-occupancy raiyats (*i.e.* raiyats not having the right of occupancy); (*iii*) Under raiyats (*i.e.* tenants holding immediately or mediately under raiyats). In the Chota Nagpur Division there are two more classes of raiyats *viz.* (*i*) Raiyats having Khuntkatti Rights; (*ii*) Mundari Khurtkattidaris.

The Government of Bihar enacted the Bihar Land Reforms Act, 1950 which provides for the liquidation of Zamindari system in the State.

The Bihar Land Reforms Act, 1950 was put into force with effect from 25th September 1950, and now all intermediary interests have been acquired by the Government. Actually the vesting of the estates started from May 1952. The Zamindari system in Bihar now stands completely abolished.

The Government has laid down a sliding scale for the assessment of compensation. Where the net income does not exceed Rs. 500, the compensation payable is twenty times the net income, and where the net income computed exceeds Rs. 1,00,000 it is payable at three times the amount subject to a minimum of Rs. 4 lakhs.

The total compensation is estimated at about Rs. 160 crores except the interest payable on bonds. Provision has been made for the payment of ad interim compensation.

The assessment of compensation for mines and minerals has either to be fixed by agreement or by a tribunal appointed for the purpose.

As for funds to finance compensation, the proposal for Zamindari abolition in Bihar has been drawn up as a self-liquidating scheme.

The gross rental from the agricultural land, forests, royalty from mines and other miscellaneous sources in the State is about Rs. 10 crores, which is likely to increase further as a result of reclamation of waste lands, the development as well as expansion of the forests, mines, sairats, etc.

The amount of compensation will be paid in cash or in bonds or partly in cash and partly in bonds. The bonds will be either negotiable and transferable, and will be payable in forty equal instalments, and carry interest at two and a half per cent per annum with effect from the date of issue.

The tenant in Bihar has the option to pay rent in cash or kind.

Official statistics show that agricultural production has increased because of the new systems of tenure, the increase being estimated at 722,000 tons at the end of the First Plan.

Legislation for imposing a ceiling on existing or future agricultural holding has not been enacted in the State. The matter is under active consideration of the State legislative since 1959, which has been referred to a joint Select committee. The Select Committee has submitted its report.

The Bihar Consolidation and Prevention of Fragmentation Act, 1956, provides for the consolidation of holdings and prevention of fragmentation. Actually some pilot projects have been taken up and it was expected that at the end of the Second Plan, about 20 lakh acres of land would have been consolidated.

Waste Land Reclamation

The land reclamation scheme for stepping up food production can be divided into the following, (1) Reclamation of waste land by manual labour, (2) Reclamation of waste land by tractors and soil conservation methods and (3) Land settlement and colonisation.

A pilot project for reclamation of 30,000 acres of heavily eroded areas in the plateau region through heavy unit of tractors at a total cost of Rs. 120 lakhs, had been sanctioned during the 2nd Five Year Plan and the scheme is being executed in the tribal areas of the State. The Central Government have sanctioned subsidy to the extent of 75 per cent of the cost and the balance of 25 per cent is borne by the State Government.

So far 13,500 acres have been reclaimed under this scheme. During 1959-60 a total ceiling of Rs. 31·67 lakhs was provided for the execution of W. L. R. Schemes. During 1959–60, a total area of 6,000 acres of heavily eroded land was reclaimed by tractors of the Central Tractor Organization, D.V.C. and of private contractor. During the same period 6,000 acres were reclaimed by manual labour through the assistance of L. I. Loans and subsidy in the lateritic regions of South Bihar.

A pilot scheme for resettlement of 600 landless agricultural families at a total cost of Rs. 17·75 lakhs has been approved. A colonisation Block has been selected at Burhakurwa in Deoghar Subdivision, in which construction of office, School-cum-Panchayat Ghar and roads, etc. have been completed. Another block at Village Shikandara has been selected for the 2nd colony.

For 1960-61, a sum of Rs. 27·67 lakhs had been proposed and with that ceiling it was expected to reclaim about 15,000 acres of waste land both by tractors and manual labour. At the instance of the Government of India, the Railway Administration concerned with this state, sponsored a scheme for settlement and cultivation of all railway side cutting lands under G.M.F. Programme. These lands are made over to the Collectors by the Railway Authorities who use to settle these lands temporarily with local tenants in giving preference to the members of the scheduled tribes, scheduled castes and backward classes.

Bhoodan

About 23 lakh acres of land have been donated to the Bhoodan Yagna in this State and legislation known as Bihar Bhoodan Yagna Act, 1954, was passed which regulates the transfer of Bhoodan lands to the Committee and also the administration of these lands. A Committee known as the Bihar Bhoodan Yagna Committee has been set up under the Act.

The Chairman and Secretary of the Committee are Shri Gauri Shankar Saran Sinha and Shri Baidya Nath Prasad Choudhary. The Chief Minister, Shri Binodanand Jha is also a member in the Committee.

An amount of Rs. 6,69,000 has been given so far to the committee as grant in aid till 31st March, 1960. The amount given during 1959-60 is Rs.2,00,000 and 1960-61 is Rs.22,000.

Out of 21,06,955 acres of land donated till 30th June, 1960, 2,52,172 acres were distributed among 1,46,662 landless persons and 2½ lakh acres are likely to be distributed early.

The execution of ten pilot projects for the resettlement of 250 families of landless agricultural workers on Bhoodan lands in Bihar had been sanctioned during 1957-58 at a total cost of Rs. 2,50,000 out of which Rs. 96,875 as subsidy and Rs. 56,250 as loan, have been sanctioned by the Government of India and the balance of Rs. 96,875 has been given by the State Government as their share of subsidy. The scheme has been taken up for execution through Co-operative Societies, also known as Sarvodaya Sahyog Samities which have been constituted by the Bihar Bhoodan Yagna Committee. One Assistant Registrar, Co-operative Societies has been placed in charge of each project under the general control and supervision of the Registrar of Co-operative Societies, Bihar and necessary funds have been allotted to each of them. Under this scheme a sum of Rs. 1,33,216 towards subsidy and Rs. 30,562 towards loan have already been spent, and 164 Bhoodan families have been resettled and 626 acres of land have been reclaimed.

A scheme for resettlement of 10,000 landless agricultural workers on Bhoodan lands had been sanctioned by the Government of India during 1957-58 at a cost of Rs. 30 lakhs, 75 per cent of which was given as subsidy and the balance of 25 per cent as loan. The entire expenditure has been borne by the Government of India and accordingly they have sanctioned Rs. 22,50,000 as subsidy and Rs. 7,50,000 as loan.

This scheme is being executed through the Bihar Bhoodan Yagna Committee. In each district, where the landless agricultural workers are to be resettled on Bhoodan lands, a District Bhoodan Land Resettlement Committee has been set up with the District Officer as the Chairman, the District Agriculture Officer as a member and representative of the Bihar Bhoodan Yagna Committee as a member Convener. Necessary funds out of the subsidy have also been placed at the disposal of the District Committees. Till the 31st of July 1960 a sum of Rs. 7,69,943 for subsidy and Rs. 2,47,015 for loan have already been spent. 8,331 families have either been resettled or are under process of being re-settled and 10,713 acres of land have been reclaimed.

Scarcity and Relief Operations: The State suffered in 1957-58 drought due to heavy damage to rabi and kharif crops. The total short-fall in production was over 18·6 lakh tons as compared to the average annual production of the five years ending 1956-57.

The amount of expenditure incurred by the State Government on various relief operations came to Rs. 3,00,50,526 during 1957-58 and Rs. 7,88,44,291 during 1958-59.

Due to good harvest, the relief measures during 1959-60 were taken up on a very limited scale and the total amount spent on relief measures during the whole financial year was Rs. 96,61,514.

The yield of kharif crop during 1959-60 was satisfactory except in the districts of Darbhanga, Muzaffarpur and Saharsa where the yield of both *ruby* and *kharif* was poor. This necessitated the taking up of relief measures in the above three districts. The total amount spent on relief measures in the whole State till 28th September 1960, was Rs. 46,07,441.

CO-OPERATION

Figures as on 30-6-1959:

Number of Co-operative Societies: 26,565; Membership: 13,33,786; Working capital: Rs. 20,34,68,000; Share capital: Rs.3,76,54,000; Reserve Fund: Rs. 1,41,47,000.

Types of Co-operative Societies and number of each type:

Provincial and Central Cooperative Banks 48; Other Central Societies 79; Cooperative Farming Societies 53; Primary Credit Societies with unlimited liability 1,569; Multipurpose Co-operative Societies 14,197; Weavers' Cooperative Societies, 1,021; Sales Emporia 145; Vishwakarma 48; Oilmen's Cooperative Societies 206; Fishermen's C.S. 116; Primary Co-operative Stores and Teachers' Cooperative Stores 218; Cane Marketing Unions 71; Cane Growers' Cooperative Societies 8,124; Milk Societies 44; Industrial Societies other than Vishwakarma Industrial Societies 313; Palmgur Producers' Societies 8; other types of societies 450.

Position about multipurpose societies as on 30th June 1959:

Members:—5,70,000; paid-up share capital Rs. 74,35,000; reserves Rs. 20,58,000; loans due to financing banks and others Rs. 2,78,81,000.

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Bihar State Cooperative Bank: Paid-up share capital Rs. 44,34,000; deposits Rs. 2,42,65,000; loans from other sources Rs. 59,15,000; reserves Rs. 17,13,000; working capital Rs. 3,63,27,000; loans advanced to central cooperative banks and others Rs. 1,38,19,000.

Weavers' Societies: No. of societies as on 30th June 1959—1,021; value of goods marketed Rs. 4,22,55,000.

Consumers' Cooperative Stores including teachers' 218. The apex organisation co-ordinating the activities of various types of cooperatives is the Bihar Cooperative Federation, the annual government grant for which is about Rs. 1,22,000.

ANIMAL HUSBANDRY

At the end of the year 1959-60 there were 512 veterinary hospitals and dispensaries including 18 mobile veterinary dispensaries in the State.

HEALTH SERVICES

The following particulars are for 1959:

Allopathic hospitals 115; Allopathic dispensaries 733; Primary health Centres 255; Beds in allopathic hospitals 10,161; Ayurvedic and Unani dispensaries 64; T.B. Hospitals 6; Mental Hospitals 2; Beds in T.B. hospitals 1,200 and in Mental hospitals 1,380.

Allopathic doctors 6,939; Nurses 494; Student Nurses 229; Trained dais in urban and rural areas 846; Compounders 4,575; Ayurvedic and Unani doctors 75; Compounders in Government employment 692.

Number of Medical Colleges (Allopathic) 3: Government Ayurvedic 1; Private 3; Government Unani 1.

There is one sanatorium at Itki, two at Ranchi, one at Koilwar and two T.B. Demonstration Centres one at Patna and the other at Darbhanga.

There is a leprosarium at Brahmbe near Ranchi with a provision of beds.

A separate infectious diseases hospital has been opened in Patna city.

42 malaria control units each covering a population of one million were working at an estimated cost of Rs. 161·32 lakhs during 1960-61.

450 vaccinators are working in a mass vaccination scheme to re-vaccinate the entire population.

LABOUR

Average daily number of workers in registered factories in 1959: 1,87,259; number of factories: 6,117 (1959).

Number of women employed in registered factories in 1959: 9,474.

Industries in which minimum wage is fixed: Agricultural employment; Woollen carpet making and shawl making; Rice, flour, dal and oil milling; Bidi making; Lac manufactories; Road construction and building operation; Stone breaking and stone crushing; Employment in public motor transport; Tanneries and leather manufactories; Mica works; Tea plantations; Employment in local bodies.

Important State laws affecting industrial labour: Bihar Maternity Benefit Act, 1947; Bihar Workmen's Protection Act, 1948.

Number of registered trade unions (upto March 31, 1960): 614.

Total membership of trade unions (1959-60): 377,435.

Housing Scheme

The State Govt. construct houses for the industrial workers under the Subsidised Housing Scheme. It gives financial assistance in the shape of loans and subsidy to those employers who are constructing houses for their employees. The ceiling is fixed at Rs. 3,300 for two-small room tenements and Rs. 3,850 for two-room tenements in a single storeyed building. The cost is raised by Rs. 200 in the case of a town having more than 3 lakhs of population.

The following projects had been sanctioned during the Second Five Year Plan.

1. Katihar—1st phase 100 tenements: Rs. 3,58,600.
2. Katihar—2nd phase 100 tenements: Rs. 3,58,600.
3. Jamshedpur—1,140 tenements: Rs. 43,97,000.
4. Adityapur—2,012 tenements: Rs. 77,87,800.
5. Mugma—100 tenements: Rs. 3,58,000.
6. Kumar Dhubi—575 tenements: Rs. 21,17,500.

The construction at Adityapur is facing some difficulty as the lands for the completion of the target could not be made available so far.

16 Employers have sought the assistance from the Government so far.

EDUCATION (1958-59)

On March 31, 1959 there were 32,041 primary and junior basic schools (including 3,502 for girls) with 52,282 teachers and 21,80,607 pupils (including 5,04,615 girls). The State Government provides free education up to class V *i.e.* up to primary stage, as before. Free and compulsory primary education (which was confined to 16 towns in urban areas and 19 villages in rural areas) has been extended to 57 development block in the State.

The percentage of pupils of the age-group 6-11 would be about 40·80 in 1958-59 and age-group 11-14, 17·47 per cent.

There were 3,868 middle and senior basic schools (including 193 for girls) with 20,833 teachers and 6,24,295 pupils (including 91,705 girls). The number of high and post-basic schools stood at 1,289 (including 66 for girls) with 14,922 teachers and 4,30,030 pupils (including 14,922 girls). There were ten nursery schools imparting pre-primary and prebasic education with 28 teachers and 627 pupils (including 262 girls). Besides, there were 190 schools for professional education (including 32 for girls) with 1,105 teachers and 18,874 pupils (including 1,882 girls), 7,121 schools for special education with 2,012 teachers and 2,57,790 pupils (including 28,505 girls) and 703 unrecognised schools with 2,451 teachers and 47,274 pupils (including 4,872 girls).

Since its inception in 1938, the scheme of basic education has made rapid strides. There are 22 post-basic schools, 729 senior basic schools, 2,259 junior basic-schools, 62 basic training schools, and 3 basic training colleges. The Rural Institute of Higher Studies, Sundernagar Birauli (Darbhanga) continues to impart high rural education at the University stage.

During the year under report there were 73 colleges for general education (including 6 for women) with 2,131 teachers and 64,769 pupils (including 3,936 women), 27 colleges for professional education (including 1 for women) with 733 teachers and 9,823 pupils (including 309 women), 6 colleges for special education with 64 teachers and 456 pupils (including 2 women).

During 1958-59, there were four post-graduate research institutes *viz.* (1) the Mithila Institute of Post-Graduate Studies and Research in Sanskrit Learning at Darbhanga, (2) Nava Nalanda Mahavihara at Nalanda for research and post-graduate studies in Pali and Buddhistic learning, (3) the Institute of Post-Graduate Studies and Research in Arabic and Persian at Patna and (4) the Prakrit and Jain Research Institute at Vaishali, Muzaffarpur, for research and post-graduate studies in Prakrit and Ardhmagadhi. The number of research scholars and teachers in research institutes in 1958-59 was 122 and 26 respectively.

There are five universities, namely (1) the Patna University, a purely teaching university, its jurisdiction comprising the area of the Patna Municipal Corporation, (2) the Bihar University, a teaching-cum-affiliating university for the Tirhut division having its headquarters at Muzaffarpur, (3) Bhagalpur University, a teaching-cum-affiliating University for the Bhagalpur division, having its headquarters at Bhagalpur, (4) Ranchi University, a teaching-cum-affiliating University for Chotanagpur division, having its headquarters at Ranchi and (5) Kameshwar Sanskrit University, having its headquarters at Darbhanga.

On March 31, 1959, there were 3,889 students (including 291 women) in the post-graduate classes in the University Departments of both the Universities.

The total direct and indirect expenditure on all recognized institutions (including expenditure on direction and inspection from all sources) amounted to Rs. 16,47,02,884 during 1958-59.

The control over High Schools is exercised through the Board of Secondary Education which accords recognition to schools and also distributes the grants sanctioned by Government.

The conduct of the Secondary School Examination (the final public examination after the completion of secondary stage) as a qualifying examination for admission to the college course, is in the hands of an independent body, namely the Bihar Secondary School Examination Board.

Students are taught through their mother-tongue upto Class VII. Hindi is the medium of instruction from class VIII to XI. Teaching of Hindi as compulsory subject begins from Class IV. From January 1959, English is being taught as an optional subject from Class VII.

The percentage of literacy in the State as a whole is 18·2.

(*For more details like number of institutions, etc. see the main article on Education.*)

Law and Order

The police force is under an Inspector General of Police. There is a policeman to every 1,852 of the population.

The High Court at Patna consists of one Chief Justice and 13 puisne Judges with one additional Judge. On the Criminal side of the subordinate Judiciary there are Session Judges and Additional Session Judges, Stipendiary and honorary magistrates. For the administration of civil justice there are District Judges and Subordinate Judges and Munsiffs.

BUDGET 1961-62

See under 'Late Particulars'.

POPULATION

The population figures of 1961 census were not available at the time of writing. See *Late Particulars.*

BHAGALPUR UNIVERSITY

Bhagalpur.

(Founded—1960.)

Chancellor: Dr. Zakir Husain, M.A., Ph.D.

Vice-Chancellor: B. P. Jamuar, M.A. (Oxon.); Bar-at-Law.

Treasurer: Mukteshwar Prasad, B.A., B.L.

Registrar: Amrendra Narayan, M.Sc.

Budget Accounts Officer: Pandey Shrikant Sharma, M.A., Dip-in-Ed.

Assistant Registrar: H. N. Rai, B.Com.

Bhagalpur University is a teaching and affiliating University.

The medium of instruction in all the non-language subjects for the Pre-University, 3 year Degree Course, I.A., I.Sc., I.Com., B.A., B.Sc., B.Com., Examinations in Arts, Science and Commerce is Hindi provided that technical terms in English may be used for the present. The medium of instruction in non-language subjects for all other examinations is English.

Provision for teaching upto the Post-Graduate Standard exists in the following departments:—(*a*) Hindi. (*b*) Commerce. (*c*) Rural Economics & Cooperation. (*d*) Sociology. (*e*) Labour and Social

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Welfare. (*f*) Statistics. There is also provision for Research work by Scholars for higher degrees under the University.

Number of Colleges:—Affiliated—32 and constituent—one.

Number of Students:—28,609.

Constituent College:—Tej Narain Banaili College, Bhagalpur 7.

Technical & Professional Colleges (affiliated):—Bihar Agriculture College, Sabour (Bhagalpur); Tej Narain Banaili Law College, Bhagalpur.

Affiliated Colleges:

Jai Prakash College, Narainpur; Murarka College, Sultanganj; Marwari College, Bhagalpur; Gajadhar Bhagat College, Naugachhia; Pandit Bali Ram Sharma College, Banka; Sundarvati Mahila Mahavidyalaya, Bhagalpur; B. M. S. College, Barahiya; Balmiki Rajniti Mahila Mahavidyalaya, Monghyr; Ganesh Dutta College, Begusarai; Jagjiwan Ram Shramik Mahavidyalaya, Jamalpur; K. M. D. College, Parbatta; Kosi College, Khagaria; K. K. Memorial College, Jamui; R.D. & D.J. College, Monghyr; Ramswarath College, Tarapur; Sri Krishna Ramruchi College, Barbigha; Srikrishna Mahila College, Begusarai; A.P.S.M. College, Barauni; Deoghar College, Deoghar; Goada College, Goada; Sahibganj College, Sahibganj; Santhal Pargannas College, Dumka; Forbesganj College, Forbesganj; Gorelal Mahta College, Banmankhi; Purnea College, Purnea; Darshan Sah College, Katihar, Harihar Saha College, Kishunganj; Saharsa College, Saharsa; B. S. S. College, Supaul (Saharsa); Thakur Prasad College, Madhepura.

BUDGET ESTIMATES (1960-61)

Income	Rs. 41,64,615
Expenditure	Rs. 41,61,847

GRANT FROM THE STATE GOVERNMENT

Recurring	Rs. 31,30,224
Non-Recurring	Rs. 10,34,391

UNIVERSITY OF BIHAR

Muzaffarpur.

Founded 1952, Remodelled in July 1960.

Chancellor, Dr. Zakir Hussain, M.A., Ph.D.

Vice-Chancellor, K. K. Banerji, M.A., B.L.

Treasurer, T. D. Narayan Singh.

Registrar, Vacant.

Controller of Examinations, Amarendra Narayan, M.Sc.

Inspectors of Colleges, Sudhendu Kumar Basu, M.Sc.; Vacant.

Deputy Controller of Examinations, Dinesh Prasad Verma, M.A.

Deputy Registrar: Pinak Paru Roy Chowdhury, B.Sc.

Planning Officer: H. P. Roy, M.A., B.L.

The Bihar University is a teaching-cum-affiliating University.

Medium of instruction: Hindi upto Bachelor's degree in the Faculties of Arts, Science and Commerce.

Provision for teaching up to the Post-graduate standard has been made in the following subjects: English, Hindi, History, Economics, Political Science, Physics, Chemistry, Psychology, Philosophy, Sanskrit, Botany, Zoology, Mathematics. Scholars work under Professors and submit their theses for research degrees.

Number of colleges affiliated: Constituent College: 1; Technical and Professional Colleges: 4; Affiliated Colleges: 31.

Number of students: 56,696 (1957-58).

Income (1959-60 budget estimates): Rs. 1,13,68,081

Expenditure: Rs. 1,18,64,450.

Grant from the State Government: Recurring Rs. 44,62,554; Non-recurring Rs. 24,50,000.

Colleges: (*A*) *Constituent Colleges:* Langat Singh College, Muzaffarpur; (*B*) *Technical & Professional Colleges:* Darbhanga Medical College, Darbhanga; Muzaffarpur Institute of Technology, Muzaffarpur; Shri Krishna Jubilee Law College, Muzaffarpur; Tirhut College of Agriculture, Muzaffarpur. *Affiliated Colleges:* Anant College, Pandaul (Darbhanga); Chandradhari Mithila College, Darbhanga; D. A. V. College, Siwan; D. B. College, Jainagar (Darbhanga); Dr. S. K. Sinha Women's College, Motihari; Gopalganj College, Gopalganj; Gopeshwar College, Hathwa; G. M. R. D. College, Mohanpur (Darbhanga); J. S. College, Chandauli (Belsand); Jagdam College, Chapra; Jagdish Nandan College, Babubarhi (Darbhanga); Jai Prakash Mahila Mahavidyalaya, Chapra; Janta College, Jhajiharpur (Darbhanga); Janta College, Parsa (Saran); Lakshmi Narayan College, Bhagwanpur (Muzaffarpur); Mahanth Darshan Das Mahila College, Muzaffarpur; Maharani Janki Kunwar College, Bettaih (Champaran); M. L. S. College, Sarisabpahi (Darbhanga); Marwari Mahavidyalaya, Darbhanga; Millat College, Laheriasarai (Darbhanga); Munshi Singh College, Motihari; Pandaul College, Pandaul (Darbhanga); Purnea College, Purnea; R. B. College, Dalsingsarai (Darbhanga); Ragho Prasad Sinha College, Jaintpur (Muzaffarpur); Rajendra College, Chapra; Raj Narain College, Hajipur; Ram Dayalusingh College, Muzaffarpur; Ram Krishna College, Madhubani; Rosara College, Rosara (Darbhanga); S. R. K. Goenka College, Sitamarhi (Muzaffarpur); Sahpur Patoree College, Sahpur Patoree (Darbhanga); Samastipur College, Samastipur.

PATNA UNIVERSITY

Patna 5.

Chancellor: Dr. Zakir Hussain, M.A., Ph.D. Governor of Bihar.

Vice-Chancellor: Bashishtha Narayan Rai.

Treasurer: Syed Akbar Hussain.

Registrar: Dr. B. Thakur, Ph.D. (Bir.)

Deans of the Faculties: Arts, P. S. Muhar; *Science*, Dr. R. P. Roy; *Law*, V. V. Deshpande; *Education*, Rameshwar Prasad; *Medicine*, Dr. V. N. Singh; *Engineering*, Dr. D. N. Singh; *Commerce*, Dr. B. R. Misra; *Vet. Science*, H. R. Kapur.

Constitutent Colleges: Patna College; Science College; Bihar National College; Bihar College of Engineering; Prince of Wales Medical College; Patna Law College; Patna Training College; Patna Women's College; Magadh Mahila College; Women's Training College.

Affiliated Colleges: Bihar Veterinary College, Patna; A. N. S. College, Barh, Patna; B. S. College, Dinapur, Patna; College of Commerce, Kankerbagh Road, Patna; Kishan College, Sohsarai, Patna; Maltidhari College, Naubatpur, Patna; Nalanda College, Biharshariff, Patna; Ram Ratan Singh College, Mokamah, Patna; Sri Chanda Udasin College, Hilsa, Patna; Somewati Mahtab College, Poonpoon, Patna; G. J. College, Rabagh, Bihta (Patna); Guru Gobind Singh College, Patna 8; A. N. S. College, Anisabad, Patna; J. N. College, Khagaul, Patna; T. P. S. College, Patna; Gaya College, Gaya; Gautam Budha Mahila College, Gaya; K. L. S. College, Nawadah, Gaya; S. Sinha College, Aurangabad, Gaya; S. S. College, Jehanabad, Gaya; Jagjiwan Mahavidyalaya, Gaya; Anjabit Singh College, Bikramaganj (Shahabad); Dharichhana Kueri College, Dumri (Shahabad); H. D. Jain College, Arrah; Mahadeva Nand Giri Mahila Mahavidyalaya, Arrah; Maharaja Ram Ranvijoy Prasad Singh College, Arrah; Maharsi Vishawamitra Mahavidyalaya, Buxar; S. V. P. College, Bhabua (Shahabad); S. P. Jain College, Sasaram; Jagjiwan Ram College, Arrah.

University Departments: Ancient Indian History and Archaeology; Bengali; Botany; Chemistry; Applied Economics and Commerce; Economics; Educations; English; Psychology; Geography; Geology; Hindi; History; Labour and Social Welfare; Mathematics; Philosophy; Physics; Political Science; Sanskrit; Sociology; Statistics; Urdu; Arabic; Persian; Zoology; Maithili; Anatomy; Physiology; Pharmacology; Pathology; Medicine; Surgery; Obstetrics and Gynaecology; Ophthalmology and Otorhinolaryngology.

Institutes: Institute of Psychological Research & Services; Institute of Public Administration; Institute of Music.

Number of teachers in the University: 561.

Number of students in the University: 10,692 (Men 8,728; Women 1,964).

Hindi has been the medium of instruction and examination progressively starting with the year 1959. The change-over will be complete in 1964. English medium will continue for English, French, German, Italian, Greek and Latin.

BUDGET 1960-61

Income: Rs. 1,93,76,680·00. (This includes income from Government.) Recurring Rs. 91,72,344·00 and non-recurring Rs. 1,02,04,336·00.

Expenditure: Rs. 2,04,97,231·00.

KAMESHWARA SINGH DARBHANGA SANSKRIT UNIVERSITY

Darbhanga.

(Founded in 1961.)

Chancellor: Dr. Zakir Hussain, M.A. Ph.D. Governor of Bihar.

Pro-Chancellor: Maharajadhiraja Dr. Sir Kameshwara Singh, K.C.I.E., D.Litt.

Vice - Chancellor: Mahamahopadhyaya Dr. Umesha Mishra, M.A., D.Litt.

Pro-Vice-Chancellor: Priya Nath Mitra, M.A., B.L.

The other officers of the University have not been appointed so far.

Kameshwara Singh Darbhanga Sanskrit University is a teaching-cum-affiliating University established on 26th January 1961.

The University provides teaching in all branches of Sanskrit learning from Prathma up to Acharya Examinations, which is the highest standard of teaching. Sanskrit is the official language of the University.

The subjects taught are:—Veda Darshan, Vyakaran, Jyotish, Dharmashastra, Puran, Arthashastra, Sahitya and Ayurveda etc., etc. along with a comparative study of these with the advancement of modern allied subjects.

It provides higher researches in all the abovementioned branches of Sanskrit learning.

Number of Colleges: Government Colleges 4, Affiliated Colleges 12. Besides, 400 Sanskrit Institutions teaching up to the highest standard from the beginning are affiliated to the University.

Number of Students 6,200 (1960-61).

University Colleges: M. R. L. Vidyalaya, Darbhanga; Mithila Sanskrit College, Deep (Darbhanga); Government Colleges at Muzaffarpur, Patna, Bhagalpur and Ranchi; R. N. D. M. Sanskrit Mahavidyalaya, Patna City; Shri N. K. B. Sanskrit Mahavidyalaya, Dhanamath; Batho Sanskrit College, Shivaram, Darbhanga; Raghuvendra Sanskrit Mahavidyalaya, Tarailapali; Mahantha Keshav Sanskrit Mahavidyalaya, Fatuha; Braj Bhushan Sanskrit Mahavidyalaya, Kharakhura; Sidheshwari Sanskrit Mahavidyalaya, Pacharukhia; M. M. Lata Sanskrit Vidyapitha, Lohana; P. N. S. Mahavidyalaya, Lakshmipur; Awadha Bihar Sanskrit Mahavidyalaya, Rahimpur; Balanand Sanskrit Mahavidyalaya, Karambad Ashram.

The authorities of the University:—Senate, Syndicate and Academic Council.

Grant from the State Government:—Provisional Budget for 1961-62—Rs. 12,93,224.

It awards degrees of Shastri, Acharyas, which is equivalant to post graduate degrees of B.A. and M.A. in modern University, Ph.D., D.Litt.

Ranchi University, Ranchi. *Vice Chancellor;* Bishnudeo Narain Singh, B.A.; *Registrar:* Jagatnandan Sahay.

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ASSOCIATIONS, INSTITUTIONS

AGRICULTURAL RESEARCH INSTITUTE
Sabour (Bhagalpur).

Regional Director : R. S. Roy, M.Sc. (Calif.), M.M.S. (U.S.A.).

ALL INDIA ADIBASI MAHASABHA
Ranchi.

President ; Jaipal Singh, M.P.

BHARTIYA NRITYA KALA MANDIR
(College of Indian Traditional Dances).
Chajjubagh, Patna 1.

THE BIHAR CHAMBER OF COMMERCE
(Estd. 1926).
Judges' Court Road, P.O. Box No. 71, Patna 1.

Representative organisation of the industries, trade and commerce of Bihar—stands to promote and safeguard the industrial and commercial interests of the State. Membership open to commercial and industrial companies and persons interested in trade, commerce and industry—given seats in University Senate, Railway and other Advisory Committees and other local bodies.

President : Chand Mull Rajgarhia Giridih ; *Hon. Secretary :* M. M. Jayaswal.

BIHAR INDUSTRIES ASSOCIATION
Sinha Library Road, Patna-1.

President : Shanti Prasad Jain ; *Chairman :* Sitaram Rungta ; *Dy. Chairmen :* Krishna Nandan Sahaya, Hanumanwal Periwal.

BIHAR PAPER MERCHANTS' ASSOCIATION
D Block, New Area, Kadamkuan, Patna 3.

President : Om Prakash Bahri ; *Gen. Secretary :* Krishna Chandra Bhargava ; *Treasurer :* A. K. Sarkar.

BIHAR RASHTRA BHASHA PARISHAD
Kadamkuan, Patna 6.
Research Institute for Hindi Literature and Language.

President : Kumar Ganga Nand Sinha ; *Director :* Dr. Bhuvneshwar Nath Mishra "Madhav", M.A., Ph.D.

BIHAR RESEARCH SOCIETY
Museum Buildings, Patna.

President : Kumar Ganga Nand Sinha ; *Vice-Presidents :* Justice S. C. Misra. S. V. Sohoni, I.C.S. ; *Hon. Gen. Secys. :* Dr. B. P. Sinha, *Editor of the Journal of the Indian Numismatic Chronicle ;* S. V. Sohoni, I.C.S.

BIHAR STATE CANE GROWERS' CO-OPERATIVE ASSOCIATION LTD.
Co-operative Federation Bldg., Budh Marg, Patna.

President : Nandkishore Narain. *Gen. Secy. :* Mathura Prasad Sinha, M.L.C. *Secretaries :* B. P. Rai, B. B. Sinha.

CO-OPERATIVE TRAINING INSTITUTE
Pusa, District Darbhanga.

Principal : K. P. Sinha, B.Sc., Dip-in-Ed., C.H.D. (Manchester).

EASTERN ZONE MINING ASSOCIATION
Chaibasa, Singhbhum Dist.

GOVERNMENT SILK INSTITUTE
Bhagalpur.

Supdt. : K. D. Bose.

GOVERNMENT VACCINE INSTITUTE AND PASTEUR INSTITUTE
Namkum (Ranchi).

Superintendent : Dr. N. K. Prasad.

HINDI NIRMAN PARISHAD
P.O. Mandar Vidyapith (Dt. Bhagalpur).

INDIAN COAL MERCHANTS' ASSOCIATION
P. Box 113, Jharia.

President : Malikchand Manektalla ; *Vice-President :* D. N. Kakar.

INDIAN COLLIERY OWNERS ASSOCIATION
I.C.O. Association Road, P.O. Box No. 70, P. O. Dhanbad, Dist. Dhanbad.

INDIAN CONFERENCE OF SOCIAL WORK
Bihar State Branch, Annie Besant Road, Patna 4.

President : Pandit Binodanand Jha ; *Secretary :* Nagendra Narayan Sinha.

THE INDIAN INSTITUTE FOR CULTURAL STUDIES
P.O. Mandar Vidyapith (Dt. Bhagalpur).

INDIAN SCHOOL OF MINES & APPLIED GEOLOGY.
Dhanbad.

Estd. in 1926. Is a high grade technical institution imparting training in : Mining Engineering leading to the award of B.Sc. (Hons.) in Mining, Applied Geology leading to the award of M.Sc. Applied Geology, Petroleum Technology leading to the award of B.Sc. (Hons.) in Petroleum Technology and Applied Geophysics leading to the award of M.Sc. Applied Geophysics.

Director : Prof. D. N. Prasad.

INDIAN SUGAR MILLS ASSOCIATION, BIHAR BRANCH
Exhibition Road, Patna 1.

President : M. N. Pittie ; *Vice-President :* T. D. Kanoria ; *Secretary :* C. J. Mehta.

INDUSTRIAL TRAINING INSTITUTE
Bhuli, Dhanbad.

INDUSTRIAL TRAINING INSTITUTE
P.O. Dighagat, Patna.

Principal : L. N. Prasad.

INDUSTRIAL TRAINING INSTITUTE
Gaya.

INDUSTRIAL TRAINING INSTITUTE
Berhampur, Dt. Ganjam.

Principal : S. M. Vijayam, B.A., B.Sc. (Eng.)

INDUSTRIAL TRAINING INSTITUTE
Katihar (Dt. Purnea).

Superintendent : Vishwa Nath Prasad Sah.

INSTITUTION OF ENGINEERS (INDIA)
Huda House, Gandhi Maidan Road, Patna 1.

THE JAMSHEDPUR CHAMBER OF COMMERCE
35, Laxmi Mansion, Jamshedpur.

President : Rameswarlal Agarwal ; *Hony. Secretary :* Shyamji N. Taunk ; *Hony. Treasurer :* Shaligram Agarwalla.

THE JAMSHEDPUR TECHNICAL INSTITUTE
Tata Iron & Steel Company Limited, Jamshedpur.

Superintendent of Training : K. A. Shenoy.

K. P. JAYASWAL RESEARCH INSTITUTE
Museum Buildings, Patna-1.

Research in Indian History, Archaeology and Tibetan Sanskrit Works.

Director : Dr. K. K. Datta. *Hony. Joint Director :* Vacant.

LEELA DIPNARAIN INDUSTRIAL TRAINING INSTITUTE
Barari, Bhagalpur.

Principal : R. Prasad.

MANDAR VIDYAPITH
P.O. Mandar Vidyapith, Via Barahat, Dist. Bhagalpur.

Kulapati : Anand Shankar Madhavan ; *Principal :* Kaishna Kinkar Sinha.

MITHILA INSTITUTE OF POST-GRADUATE STUDIES AND RESEARCH IN SANSKRIT LEARNING
Darbhanga.

Director : Dr. J. Misra.

NAVA NALANDA MAHAVIHARA
(Nalanda Institute of Post Graduate & Research in Buddhist Learning and Pali).
Nalanda (Dt. Patna).

Director : Prof. Satkari Mookerjee ; *Registrar :* Dr. C. S. Upasak.

PATNA POLYTECHNIC
Gulzarbagh, Patna-7.

RABINDRA PARISHAD
Rabindra Bhawan, Gardiner Road, Patna 1.

Chief Patron : Vacant.
Chairman : Dr. Sachin Sen, Editor, 'Indian Nation' ; *Hon. Jt. Secretaries :* Dipendra N. Sircar, Nirode Choudhuri.

RESEARCH INSTITUTE OF PRAKRIT, JAINOLOGY & AHIMSA
Muzaffarpur.

Director : Dr. H. L. Jain, M.A., LL.B., D. Litt.

RURAL INSTITUTE
Birouli (Dt. Darbhanga).

SHILPA KALA PARISHAD
C/o Govt. School of Arts & Crafts, Patna 1.

President : Mr. Justice S. C. Mishra, Judge, Patna High Court ; *Secretary :* Radha Mohan (Principal, Govt. School of Arts & Crafts, Patna 1).

SOIL CONSERVATION SOCIETY OF INDIA
15, Bayley Road, Patna.

Chairman of the Society and Editor of the 'Journal of Soil and Water Conservation in India', K. S. V. Raman, I.C.S. (Retd.) ; *Secretary :* N. C. Bole ; *Treasurer :* S. N. Kaul ; *Asstt. Editor :* P. G. Sinha.

VINDHYA KALA MANDIR
Kazipur, Patna 4.

Affiliated to Bhatkhande Sangeet Vidyapeeth, Lucknow and recognised by the Sangeet Natak Akadami, New Delhi.

YOGODA SAT-SANGA VIDYALAYA
Ranchi.

Follows the syllabus of the Board of Secondary Education, West Bengal.

Imparts academical and spiritual education. Medium—English and Bengali. Is conducted by Yogoda Sat-Sanga Society of India and Self-Realization Fellowship of America. Yogoda Sat-Sangha Seva Ashram at Ranchi is a subsidiary institution of the Society.

Secretary : Swami Bidyananda Giri.

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DELHI

Area: 578 sq. miles; Pop. 2·64 million (1961 census).

Under the Constitution of India, Delhi is a Union Territory.

Parliament administers the areas directly through the Union Home Minister. The chief executive official of the Territory is the Chief Commissioner.

Delhi has an Advisory Council which is associated with the Home Minister.

The Council comprises (1) all members of Parliament representing Delhi, (2) the Mayor, (3) the Vice-Chancellor of Delhi University, (4) the President of the New Delhi Municipal Committee, (5) the Inspector-General of Police, (6) Local M.P.'s and (7) two Advisers (Chairman, Public Relations Committee and Chairman, Industrial Advisory Board, Delhi Administration).

The Council is consulted in regard to the (1) general question of policy relating to the administration of the Territory, (2) all legislative proposals concerning the Territory, including proposals to extend any State Acts, (3) general matters relating to the annual financial statement of the Union in so far as it concerns the Territory and such other financial questions as may be specified by the President and (4) any other matter about which it may be considered necessary or desirable by the Home Minister that the Committee should be consulted.

Subject to the discretion of the Home Minister, members of the Council have the right in regard to interpellations analogous to and under similar limitations as those of members of a State legislature.

The meetings of the Council are presided over by the Home Minister.

Besides, there are two Advisory Boards to advise the Chief Commissioner in regard to industrial matters and public relations. They are presided over by non-officials.

The Highest Court of Appeal in Delhi is the Punjab High Court—a circuit bench sits in Delhi.

GREATER DELHI

Delhi is really the size of a district. The majority of its population lives in the urban areas of Delhi.

Development work is being carried out under the supervision of the Development Department which is assisted by a Rural Development Committee.

The Master Plan, for the entire Greater Delhi area drafted after requisite surveys and investigations, has been approved by the Delhi Development Authority. The Plan makes proposals for Delhi's development upto 1981.

The main railway station is the junction at Old Delhi, from where radiate the railway lines to the Punjab, U.P., Bombay, Calcutta and Madras. The headquarters of the Northern Railway are located here.

The following are the estimated quantities of certain selected commodities imported into the Municipalities of Delhi (monthly average in metric tons) for the calendar year 1959:

Wheat 22,780; Gram 15,601; Rice 3,540; Pulses 1,551; Refined sugar 6,748; Tea 274; Ghee cream and butter 1,061; Dried fruits and nuts 2,045; Provisions 901; Spices 3,012; Steam coal, soft coke and hard coke 53,648; Kerosene oil 4,577 (litres); Hides and skins 511; Agra stones 16,957; Cement 15,234; Chemicals 4,601; Face-cream, powder and tooth paste 77; Hair oil and perfumed oil 39; English medicine 891; Indian medicine 846; Soaps, 2,806; Shoes and apparel 266; Hardware and cutlery 6,414; Photo goods 146; Betel leaf 1,043.

According to 1959 figures there were 8,491 registrations (monthly averages) at the Regional Employment Exchange and 617 placings against 1,102 vacancies notified. The number of registrations on the live register at the close of 1959 was 65,225. The number of registrations for March '60 was 5,231 and placement during the same period 372.

The average number of workers employed latest available (quarter ending Dec. 1959) in processes allied to Agriculture 40; Textile Industry 19,205; Printing, Publishing and allied industries 4,897; Chemical and chemical products industries 1,729; Non-metallic mineral products industries 2,027; Manufacture of metal 4,197; Manufacture of machinery 4,104; Electrical machinery 2,608.

INDUSTRY

Second Plan provision for industries: Rs. 45·87 lakhs. Third Plan provision is likely to be in the neighbourhood of Rs. 3·5 crores.

The main industries are: cotton mills; hand and powerloom weaving; hosiery; pottery; flour mills; vegetable oil mills and expellers; paints and varnishes; rubber goods; imitation jewellery; copper and brass utensils; wire netting; sola hats; leather goods, tanning and fibre industry.

The total number of registered factories at the end of December 1959 was 961.

The number of registered trade unions at the end of 1959 was 375.

Delhi was a great centre of artistic textile fabrics till the end of the Moghul era, and retained some importance till the advent of the modern textile mills. A revival is, however, now taking place under the Handicrafts and Handloom Promotion programmes.

In recent years the handloom industry has grown rapidly owing chiefly to the efforts of the Industries and Co-operative Societies Department, which helped in the promotion of weavers' co-operatives.

In 1959 there were 56 societies and 529 looms. There were 533 weavers and the production in 1959 was estimated at 6,21,500 yards. The target for the Second Plan was 4 lakh yds. a year.

The total number (registered) of handlooms in Delhi by 31st March 1959 was 777. By the end of 1959 there were 846 handlooms in Delhi out of which 589 were in working order. The actual number may be in the neighbourhood of 1,000. The capital invested was between Rs. 3 and 4 lakhs. The industry provides livelihood for about 3,000 persons, and the total production is estimated at 5 lakh yds.

The prototype production-cum-training centre at Okhla Industrial Estate, about 5 miles from Delhi was inaurgurated on March 2, 1961. This is an Indo-German venture which will manufacture prototypes of machines and machine tools and train about 500 workers every year.

The Co-operative Department has opened emporia in Delhi to help marketing. A dye-house has been set up under the control of the Indian Co-operative Union with an expert dyer-cum-printer attached. The Handloom Sales Depot at Jan Path, New Delhi is a centre of all varieties of handloom cloth.

There is also a very flourishing grain market, serving local needs.

As in all towns, different parts of Delhi specialize in different trades. The area round about Chandni Chowk for instance is the centre for textiles and general merchandise. The trade in copper and brass utensils is located in Chawri Bazar, which in addition has a market for hardware. Khari Bawli is the granary of Delhi with the adjoining streets specializing in condiments, spices, pickles, dry fruit, etc. Lal-Kuan Bazar is noted for building material, while Sadar Bazar deals in wholesale hosiery, glass and china-ware and general merchandise. Silver-ware is retailed in Dariba Kalan, while the bullion market is localized in Chandni Chowk.

Almost all the banks have their branches in Connaught Place and Chandni Chowk which are the Chief shopping centres of New Delhi and Delhi respectively.

Tourist traffic has grown into a regular new trade. Almost all the Indian and foreign air companies and travel agencies have offices in New Delhi.

INDUSTRIAL ESTATES

The Okhla Industrial Estate, seven miles south of Delhi and one of the biggest of its kind in India, was built by the National Small Industries Corporation. It was declared open by the Prime Minister in April 1958.

There are 35 factories in the Estate all humming with activity. Forty more units are under construction.

The items manufactured by the units in the Estate include amplifiers, radio parts, electric motors, room coolers, power presses, automobile accessories, bicycle parts, lathes, drilling machines, machine tools, safety razor blades, insulated wires and household and utility articles.

The Regional Small Industries Service Institute has set up a technical guidance and training centre in the Estate.

Nearly Rs. 8 lakh worth of goods are produced by these units every month. There are now over 1,500 workers in the various factories in the Estate.

The Estate was handed over to the Delhi Administration in April 1959.

At the instance of the Government of India it has been proposed to construct a small industrial estate in the Pilot Project Area of Alipur. A site near Badli Railway Station has been acquired and construction work started. Besides, five more Rural Estates are proposed to be set up in various rural areas of Delhi costing about Rs. 150 lakhs.

AGRICULTURE

Figures given below are for 1959-60:

Total land: 365,598 acres; area under forests: 3,497 acres; area not available for cultivation: 84,930 acres; other uncultivated land excluding fallow land: 48,441 acres; fallow land: 11,740 acres; net area sown; 2,71,376 acres; total irrigated area: 89,674 acres.

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The following is a crop-wise break up of the area under food and cash crops (1959-60):

Wheat 66,464 acres; Bajra 53,695 acres; Jowar 32,835 acres; Maize 3,244 acres; Barley 9,089 acres; Gram 33,833 acres; Sugarcane 12,479 acres; Oilseeds 3,166 acres; Cotton 873 acres; Rice 2,954 acres. Total area under crops 3·65 lakh acres.

The following is the production of major crops (1959-60): Wheat 17,089 tons; Gram 848 tons; Jowar 4,077 tons; Bajra 10,018 tons; Sugarcane 7,920 tons; Cotton 142 tons; Oil seeds 189 tons; Maize 652 tons; Barley 473 tons; Rice 876 tons.

The scheme for desilting of Najafgarh drain has been completed and an area of 6,000 acres, previously blocked, has been made available for cultivation.

Important fruits grown in Delhi are bananas, pears, mangoes, pomegranate, lokats, figs, papais, castor-fruit and plums. Efforts are now being made to promote the growing of orchards. A separate Horticultural Department has been set up for this purpose in the Delhi Administration.

The total area under fruits and vegetables during 1958-59 was 20,000 acres and 17,000 acres respectively. Important vegetables grown in Delhi are cauliflower, tomato, peas, potato, radish, brinjal and bhindi.

Delhi now imports most of its fruits. But on large areas—a total of 3,106 acres—in and around the city vegetables are grown.

It is estimated that there is one milch animal for every three or four persons. The average yield of a cow and buffalo comes to 2 seers and 4·2 seers respectively.

The annual average daily production of milk is estimated at 7,000 maunds.

Delhi milk supply: The Central Dairy at Delhi started functioning on November 1959. About 400 mds. of milk are collected from surrounding villages where milk collection, processing and storage arrangements are set up and automatically bottled and sealed.

When in full operation, the dairy will handle about 12,000 mds. of milk daily. To meet the present requirement 7,000 mds. of milk are needed. Pasteurised whole buffalo and cows' milk in sealed half litre bottles at As. 10 per litre and toned milk, at about half this cost are supplied through 200 booths. It is a State Trading Scheme. The outlay on this during 1959-60 was Rs. 4·39 million and 1960-61: Rs. 29·5 million. The profits are expected to go up from Rs. 65,000 in 1959-60 to 3·26 million rupees in 1960-61.

There are about 120 commercial poultry farms. It is believed about 140,000 eggs are daily imported into Delhi at an annual cost of Rs. 45 lakhs. A five-year scheme is in operation which aims at making Delhi self-sufficient in eggs. During 1956-59, 90,355 chicks were hatched. 30,328 chicks are expected to be produced during 1960-61.

The local consumption of fish is estimated at 150 maunds a day. Fish is at present mostly imported, some caught in the Jamuna. The income realised by auction of fishing rights of various portions of Jumuna etc. during 1958-59 was Rs. 28,170. Twenty tanks have been improved in the rural areas of Delhi for stocking fish.

The village development scheme covers all the 309 villages. A sum of Rs. 31 lakhs has been allocated for a period of 5 years. A portion of this will be contributed by the Local Administration and the rest by the Centre towards recurring and non-recurring expenditure.

The Delhi Land Reforms Act, 1954 came into effect on July 20, 1954. The Land Revenue Act provides for a uniform system of Land Revenue administration. Previously, part of the land was under the Punjab laws and part under the U.P. laws.

The Act provides for the abolition of proprietary rights and conferment of ownership on all tenants and sub-tenants from whom compensation would be recovered and paid to owners. The rate of compensation varies from 4 to 40 times the land revenue, according to the nature of tenancy. A stay order passed by the High Court was vacated in April 1956 and implementation of the law is now in progress.

The Delhi Land Reforms Act was amended in October 1956 to exclude areas controlled, notified, held, occupied or owned by the Delhi Improvement Trust from the purview of the Act.

The Delhi Land Reforms (Amendment) Act, 1959 removes some difficulties in the working of the Act and includes Improvement Trust areas excluded by the 1956 Act out of 306 villages, the work of consolidation has been done in 268 villages. Under the Delhi Panchayat Raj (Amendment) Act, 1959, 205 Gaon Panchayats and 22 Circle Panchayats covering all the 305 villages in Delhi, have been established.

The Delhi Landholders (ceiling) Bill passed in Aug. 1960, fixes the ceiling on land holdings at 30 standard acres for a family of five.

Leases in future have been prohibited except by small owners holding less than eight standard acres and persons suffering from a disability. Future tenants will have a minimum term of five years.

The maximum rent has been fixed at one-fifth of the gross produce.

A ceiling has been placed on future acquisition of land holdings at 30 standard acres.

TRANSPORT

Delhi occupies a pivotal point in the net-work of national railways, highways and airways.

It is one of the biggest railway junctions in the country handling about 23 mail, 30 express trains besides several goods and passenger trains every day.

All the principal inter-State roads of significance converge on Delhi.

It is also linked with important cities and foreign countries by air through its two air ports, Willingdon and Palam.

These are in Delhi 7,824 motor cycles, 3,934 motor rickshaws, taxis and hire cars, 11,614 cars, 1,206 buses and 3,406 goods vehicles (figures are for the quarter ending March 1960). The following figures are for the quarter ending September 1959. Cycle rickshaws 844, bicycles over 2,00,000, tum tum 13, Kharkharas 1,200, handcarts 2,100, animal driven carts 1,500 and tongas 3,300.

Bus transport in the urban area is provided by the Delhi Transport Undertaking of the Delhi Municipal Corporation, which also operates the tramway service. There are a few private buses operating in suburban areas. The Transport Service has 516 buses operating on 37 routes. Total mileage covered per day: 70,000.

General Manager, P. K. J. Menon; *Asstt. Genl. Mgrs.:* P. D. Mehta (*Adm.*), Khushi Ram (*Traffic*); *Traffic Manager*, Khurshid Alam Khan.

HEALTH, EDUCATION

Birth rate 31·8; death rate 9·0; infant mortality per thousand live births 81·5. Year ending December 1959—Deaths, 11,375.

There are 35 hospitals and 87 dispensaries of the modern system of medicine, two Ayurvedic and Unani hospitals and 15 dispensaries and six Homœopathic dispensaries. The total bed strength is about 5,000.

Some leading hospitals are:

Mrs. Girdhari Lal Maternity Hospital, Circular Road, outside Ajmeri Gate; Hindu Rao Civil Hospital, The Ridge, Sabzi Mandi; Infectious Diseases Hospital, Kingsway; Irwin Hospital, Circular Road; Jeewan General Hospital, Panchkuin Road; Lady Hardinge Hospital, Panchkuin Road; St. Stephen's Missionary Maternity Hospital, Tis Hazari; Safdarjang Annexe Hospital, New Delhi; Shroff Charity Eye Hospital, Daryaganj; Silver Jubilee T. B. Hospital Kingsway; Victoria Zenana Hospital, Machhliwalan, Daryaganj; Willingdon Hospital, Irwin Road.

Money allotted under the Second Five-Year Plan for medical development schemes: Rs. 1·8 crores.

Mortality from individual diseases during the calendar year 1959 (monthly averages): small-pox 8; dysentery and diarrhoea 97; respiratory diseases 386; injuries and suicides 68; live births 75,649; still births 51.

The statistics of educational institutions for 1958-59 were: Higher Secondary schools 108 (boys), 60 (girls); High Schools 38 (boys), 22 (girls); Middle schools (non-basic) 36 (boys), 37 (girls); Primary schools (non-basic) 210 (boys), 172 (girls); Senior Basic schools 39 (boys), 10 (girls); Junior Basic schools 162 (boys), 60 (girls); Nursery schools 7 (boys).

Total enrolment 2,41,907 (boys), 1,51,447 (girls).

Schools for professional education 6 (boys), 2 (girls); Schools for special education 117 (boys) (excluding social education centre, 88 (girls); Schools for social education 1 (boys), 1 (girls).

The grand total of all types of institutions is 1,277 of which 281 are Government, 201 private aided and 723 local bodies.

There are two Universities: the Delhi University and Jamia Millia Islamia. Two novel types of institutions called Janata Colleges one for men and the other for women are being run in Delhi's rural areas to impart community training to the villagers. Literacy percentage in Delhi: 51 (1961).

Community Development

Five development blocks are being run under the Community Development Programme covering the entire rural area of Delhi. The blocks are—Alipur, Najafgarh, Mehrauli, Shahdara and Kanjhawla. The villagers have contributed more than Rs. 40 lakhs in cash, kind and labour towards local works such as construction of village schools, panchayat ghars, community centres and pavement of streets.

The entire rural area of Delhi is now covered by the Panchayat Raj system. There are about 205 Gaon Sabhas with equal number of Gaon Panchayats. In all 2,444 representatives of the people were elected as members of Gaon Panchayats and Circle Panchayats in Oct. 1959. Panchayat Raj in rural Delhi was inaugurated by the Union Home Minister on November 8, 1959.

The Community Development Blocks comprise 305 villages a population of 328,968, a total area of 3,166,300 acres.

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The total expenditure on the Co-operative Department during 1958-59 was Rs. 4·04 lakhs including the loan and subsidy of Rs. 0·99 lakhs to co-operatives.

Figures for 1958-59: No. of societies 1,800; no. of members 1,35,000; working capital Rs. 578·54 lakhs; share capital Rs. 55·78 lakhs; deposits held Rs. 380·14 lakhs; purchases Rs. 236·38 lakhs; sales Rs. 251·12 lakhs; loan advances Rs. 128·95 lakhs.

The Govt. of India has approved the scheme for remodelling of Dujana House near Jama Masjid in Delhi. The estimated cost of the Scheme is about Rs. 10·90 lakhs of which 6 lakhs are for construction of two room multistoreyed tenements. This scheme is part of a programme for slum clearance in Delhi.

DELHI MUNICIPAL CORPORATION

The Delhi Municipal Corporation, replacing all local bodies, except the New Delhi Municipal Committee and the Delhi Cantonment Board and constituted under the Delhi Municipal Corporation Act, 1957, came into being on April 7, 1958. The Corporation is patterned on the Bombay model. It has 86 members, including six aldermen.

The Corporation assumed charge of the responsibilities in regard to medical and public health, primary and basic education, roads, water supply, transport, electric supply, fire services, etc. which were hitherto being discharged by the Delhi Administration. About 4,000 officials who were dealing with these matters in the Delhi Administration were transferred to the Corporation.

An estimate of the party position including the six aldermen is as follows: Congress 43, Jan Sangh 28, Communists 6, Independents 9.

Members

The following are the members of the Corporation. The number in the brackets shows the number of the ward the member represents.

Mayor, Sham Nath.

Deputy Mayor, Ram Charan Aggarwal.

Members: Kirpa Narain (1), Prahlad Sharan (1), Gian Chand (2), Tilak Raj (2), Moti Ram Aggarwal (3), Parmeshwari Dass (3), Smt. Prakash Vati (4), Roop Narain (4), Janardhan (5), S. D. Malhotra (5), Madan Lal (6), Vidya Rattan (6), Smt. Sarla Devi (7), Sham Nath (7), Ram Charan Aggarwal (8), Shri Krishna (8), Kashmeri Lal (9), Mohd. Sayeed (9), Daroga Mal (10), L. Hari Chand (10), Shiv Charan Gupta (11), Vasu Dev (11), Des Raj (12), Smt. Kartar Devi (12), Des Raj (13), Hans Raj (13), Ram Singh (13), Baldev Singh (14), Mittar Sain (14), Trilok Chand Sharma (14), Dev Prakash (15), Kharak Singh (15), Vashishth Kumar (15), Hakumat Rai (16), Tilak Raj (16), Balraj Khanna (17), Vijay Kumar (17), Dhani Ram (18), Prem Sagar Gupta (18), Sher Singh (18), Khub Ram Jajoria (19), Rattan Lal (19), Santokh Singh (19), Roop Lal Batra (20), Smt. Savita Behan (20), Devki Nandan (20), Harish Chandra (21), Rattan Lal (21), Amar Nath Chawla (22), Devi Dass (22), Gobind Ram (22), Abdul Aziz (23), Bansi Lal (23), Dhanpat Rai (23), Bhikuram Jain (24), Om Parkash (24), Makhan Lal (25), Ram Krishan (25), Hari Datt (26), Radha Kishan (26), Dhyan Singh (27), Narain Datt (27), Ram Murti (28), Kanwar Lal Gupta (28), Bhagwan Datt (29), Sikander Lal (29), Fateh Singh (30), Ganpat Ram (30), Kishan Lal (30), Diwan Singh (31), Karan Singh (31), Ram Dev (31), Raghbir Singh (32), Tara Chand (32), Chander Singh (33), Kure Mal (33), Prem Sukh (33), Harbans (34), Narain Singh (34), Prem Singh (34).

Aldermen: Smt. Habiba Begum Kidwai; Kidar Nath Sahni; C. L. Joseph; Smt. Kaushalia Devi; Bachittar Singh Bawa; Bal Krishan.

Officials

Commissioner, R. R. Bahl, I.C.S.
Deputy Commissioners, N. L Rau, I.A.S.; B. N. Seth.
Health Officer, Col. M. S. Boparai.
Chief Engineer and Drainage Engineer, R. S. Mehta.
Municipal Engineer, D. Dutt.
Education Officer, R. K. Bountra.
Chief Accountant, D. D. Bhatia.
Chief Fire Officer, A. B. Advani.
Chief Auditor, P. K. Sen.
Director, Urban Community Development, B. Chatterji.
Liaison Officer, Moti Ram.
Gen. Manager, Electricity Undertaking, K. C. Mittal, I.C.S.
Gen. Manager, Transport Undertaking, P. K. J. Menon, I.C.S.
Secretary, S. C. Ramtri.

Chairmen of Committees

Standing Committee, Shivcharan Gupta.
Transport Committee, Vasu Dev.
Electricity Supply Committee, Kirpa Narain.
Water Supply and Sewage Disposal Committee, Fateh Singh.
Education Committee, Daroga Mal.
Rural Areas Committee, Raghbir Singh.

New Delhi Municipal Committee: A whole-time president for the New Delhi Municipal Committee was appointed in 1959.

Apart from its normal functions, the New Delhi Municipal Committee serves as the electricity distributing agency in its area. There are now 15,200 street lighting points in New Delhi area. Automatic traffic control signals have been installed at the junctions of Janpath, Connaught Circus, Parliament Street which were formerly hand operated.

DELHI UNIVERSITY

The University of Delhi was established at Delhi in May 1922, to function as unitary teaching and residential university, but it became a Federal University by an Amendment Act No. XXIV of 1943, to the Delhi University Act VIII of 1922. The University Act was further amended by Act V of 1952. The University has now been made a teaching and affiliating University.

The University confers the following Degrees and Diplomas on students on passing the appropriate examinations:

Degrees: Ph.D. (Arts, Science, Law, Education, Medical Sciences and Social Sciences), M.A., M. Lib. Sc., M.Com., M.Sc., LL.M., B.C.L., LL.B., M.Ed., B.A. (Hons.), B.Ed., B.A. (Pass), B.Sc. (Hons.), B.Sc. (Pass), B.Com., B.Sc. (Home Science), B.Sc. (Nursing) Hons.; B.Sc. (Agriculture) Hons., B.E. (Electrical, Mechanical & Civil), B.Ch.E., B. Text., B.Arch., M.B.B.S., M.Sc. (Physiology, Pharmacology and Anatomy), M.S., and M.D. (Medicine, Obstetrics and Gynaecology and Pathology), M.Sc. (Bacteriology).

Diplomas: D.T.D., Dip. Lib. Sc., Diploma in Russian Language, Diploma in Hindi, Urdu and Panjabi, Diploma in Economic Administration & Diploma in Business Management, Diploma in Anaesthesia, Diploma in Child Health.

Certificates: Certificate of Proficiency (Law), Special Subjects Certificate in Law, Certificate of Proficiency (Russian), Certificate in French, Certificate in German, Certificate in Italian, Certificate in Swahili, Certificate in Hausa.

Medium of instruction: English.

No. of students (Aug. 1960): 21,022 (including 6,588 women): Income (1959-60): Rs. 48,20,124; Expenditure (1959-60): Rs. 48,20,124.

Chancellor, Dr. S. Radhakrishnan.
Pro-Chancellor, Mr. Justice B. P. Sinha.
Vice-Chancellor, Dr. N. K. Sidhanta.
Registrar, T. P. S. Iyer.
Information Officer: T. V. Raghavan.

CENTRAL INSTITUTE OF EDUCATION
(33, Chhatra Marg, Delhi 6.)

Principal, Dr. E. A. Pires, M.A. (Lond.), Ph.D.

COLLEGE OF NURSING
(Jaswant Singh Road, New Delhi.)

Principal, Miss A. Mathews, M.Sc., R.N., R.M.

DELHI COLLEGE
(Ajmeri Gate, Delhi.)

Principal, M. M. Begg, M.A.

DELHI POLYTECHNIC
(Kashmere Gate, Delhi 6.)

There are five senior departments, *viz.* Engineering (Elect., Mech., Civil), Applied Science (Chem. Eng. & Tech.), Textiles, Commerce, Art, where courses leading to Delhi University degrees or diplomas or Certificates of the All India Council for Technical Education and pre-Engineering Certificate (equivalent to I.Sc.) of the Government of India are offered. The degree courses are of four years' duration inclusive of practical training and the diploma-certificate courses are of 3–7 years' duration.

Attached to the Polytechnic is a Technical Higher Secondary School in which, in addition to the usual subjects, Elementary Engineering Science, Drawing and Workshop Practice are taught in the last 3 years.

Principal, S. C. Sen, B.Sc. (Engg.) (Glasgow).

DELHI SCHOOL OF ECONOMICS
(Malkaganj Road, Delhi 8.)

Director: Dr. B. N. Ganguli, M.A., P.R.S., Ph.D.

DELHI SCHOOL OF SOCIAL WORK
(3, University Road, Delhi 6.)

Delhi School of Social Work is a Constituent College of the University of Delhi and a post-graduate institution training students for M.A. in Social work.

The College imparts training in Social Work to young men and women who are graduates and have the aptitude for Social Work. The College occasionally offers courses of Orientation and In-Service training for specific fields of Social Work.

Limited hostel accommodation is available for both men and women.

Principal, M. S. Gore, M.A., Dip. S.S.A.

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DELHI UNIVERSITY FACULTY OF LAW
(Old Viceregal Lodge, Civil Lines, Delhi.)

Dean, Prof. L. R. Sivasubramanian, B.A., M.L.

DESHBANDHU COLLEGE
(Kalkaji, New Delhi.)

Principal : Dr. A. N. Banerji, M.A., Ph.D. (Econ.) (Lond.).

HANS RAJ COLLEGE
(University of Delhi.)

Principal : Shanti Narayan, M.A.

HINDU COLLEGE
(Imperial Avenue, Vidya Marg, Delhi 8.)

Principal : Raj Narain Mathur.

INDIAN SCHOOL OF INTERNATIONAL STUDIES
(Sapru House, Barakhamba Road, New Delhi.)

Director and Professor of International Relations, Dr. A. Appadorai; *Visiting Professor of International Law*, Professor E. Lauterpacht; *Head of the Department of American History and Institutions*, Dr. M. S. Venkataramani; *Head of the Department of East Asian History and Institutions*, V. P. Dutt; *Head of the Department of Commonwealth History and Institutions*, Professor Norman Harper; *Head of the Department of International Finance*, Dr. A. K. Dasgupta; *Head of the Department of Southeast Asian History and Institutions*, Dr. B. R. Chatterji; *Head of the Department of South Asian History and Institutions*, Dr. Tara Chand; *Head of the Department of West Asian History and Institutions*, Dr. M. S. Agwani; *Honorary Administrative Officer*, Rai Bahadur A. P. Dube; *Assistant Administrative Officer*, R. S. Batra.

THE INDIAN SCHOOL OF PUBLIC ADMINISTRATION
(Indraprastha Estate, Ring Road, New Delhi 1.)

Director of the Institute and Principal of the School : Prof. V. K. N. Menon, M.A. (Oxon.).

The courses of instruction given by the School are of two types:—

(1) A sessional course, extending over two academic years, leading to the Master's Diploma in Public Administration meant for those who desire to enter public services, university teaching, or public life. The duration of the course is one year for those who hold a Masters' degree in Political Science, Public Administration, Economics, or Sociology and those who hold a Bachelor's degree and have been in the service of the Government, or a Public Enterprise or Local Authority for a minimum period of five years.

(2) Short-term courses on specific aspects of public administration for public servants, university teachers, and others engaged in or interested in public administration.

INDRAPRASTHA COLLEGE FOR WOMEN
(Alipur Road, Delhi.)

Principal : B. Das Gupta.

LADY HARDINGE MEDICAL COLLEGE FOR WOMEN
(Lady Hardinge Road, New Delhi 1.)

Principal : Dr. M. Chaudhari, F.R.C.S. (Eng.).

LADY IRWIN COLLEGE FOR WOMEN
(Sikandra Road, New Delhi.)

Directress : Mrs. B. Tara Bai.

MIRANDA HOUSE (UNIVERSITY COLLEGE FOR WOMEN)
(Central Avenue Road, Delhi 6.)

This College was founded by the University of Delhi on 26th July 1948. It imparts university education to women students in Arts and Science.

Principal, Mrs. S. Krishnasami.

RAMJAS COLLEGE
(Univ. Enclave, Delhi 6.)

Principal: B. B. Gupta, M.A.

SHRI RAM COLLEGE OF COMMERCE
(Patel Marg, Delhi 8.)

Principal : Jai Narayan Vaish, M.A., G.D.A., F.C.A.

SRI GURU TEGH BAHADUR KHALSA COLLEGE
(Karol Bagh, New Delhi 5.)

Principal, S. Gurbachan Singh Bal, M.Sc.

ST. STEPHEN'S COLLEGE
(Delhi 8.)

Principal, S. C. Sirkar.

ASSOCIATIONS, SOCIETIES, ETC.

AERONAUTICAL SOCIETY OF INDIA
Talkatora Road, New Delhi.

President : P. Nilakantan; *Hon. Secretary :* S. Ramamritham; *Hon. Treasurer :* A. H. Mehta.

AGRICULTURE MACHINERY DEALERS & MANUFACTURERS ASSOCIATION OF INDIA
(Pratap Building, Connaught Circus, New Delhi 1.)

Chairman : H. P. Nanda; *Secretary :* Rana Jang Bahadur Singh.

ALL DELHI SARRAFA ASSOCIATION
C/o Messrs. Mahtab Singh Jain & Sons, Dariba Kalan, Delhi.

Patron : Krishna Kahuna; *Pres. :* Kishan Chand Jain; *Gen. Secy. :* Mahatab Singh Jain, B.A., LL.B.

THE ALL-INDIA ANGLO-INDIAN ASSOCIATION
Bombay Life Building, New Delhi.

ALL INDIA BLIND RELIEF SOCIETY
2F, Lajpatnagar, New Delhi 14.

Director & Secretary : Dr. Kumar Pal Agrawal, M.A., Ph.D.

ALL-INDIA BOY SCOUTS ASSOCIATION
(General Headquarters.)
7, Jangpura B Extension, Mathura Road, New Delhi 14.

OFFICE-BEARERS.—*Chief Scout for India*, Col. Nawab Sir Muhammad Ahmad Said Khan of Chhatari, M.P., G.B.E., K.C.S.I., K.C.I.E., M.B.E., LL.D.

Chief Commissioner for India, Vyas Dev Misra, M.A. (Eng.), M.A. (Econ.), B.Sc., LL.B., Barrister-at-Law.

Deputy Chief Commissioner for India, Nawab Syed Kaiser Hussain Rizvi, B.A. (Hons.), M.A., LL.B.

International Commissioner, H. H. Raja Sir Lachhman Singh of Chamba State.

National Commissioner, Dr. P. D. Dhameja, M.B.B.S., L.R.C.P. (Lond.), M.R.C.S. (Eng.), D.A.

Camp Chief for India, A. S. Virlley, B.A., M.B.E.

General Secretary for India, S. H. A. Jaffri, B.Com., D.C.C., Ak.L.

Editor (Indian Scouter) : Prof. V. M. Misra, M.Sc., B.Sc. (Hons.).

National Secretary, Prof. Om Prakash, M.A.

ALL INDIA CO-OPERATIVE UNION
72, Jorbagh Nursery, New Delhi 3.

President: A. Q. Ansari; *Vice-Presidents :* Kumbharam Arya, M.P., M. P. Kolhe, A. V. Narasimha Reddy, M.L.A.; *General Secretary :* V. C. Parashar, M.L.A.

ALL INDIA COUNCIL OF SPORTS
C/o Ministry of Education, New Delhi 2.

The All India Council of Sports which was reconstituted by the Government of India with effect from March 2, 1959, consists of 15 members including the President nominated by the Government of India for a period of two years. The Council is entirely nominated in their personal capacity.

The Council is an Advisory Body.

Council : H.H. the Maharaja of Patiala (*President*); Rajkumari Amrit Kaur; General K. S. Thimayya; M. K. Kaul; G. D. Sondhi; M. N. Kapur; N. N. Wanchoo; Jaipal Singh; P. N. Kirpal; H. H. Maharana Bhagwat Singh of Mewar; A. A. A. Fyzee; C. R. Pattabhiraman; Prem Bhatia; Vijay Merchant; Dilib Bose.

ALL INDIA DISTILLERS' ASSOCIATION
H-37, Connaught Circus, New Delhi.

President : K. C. Pant; *Secretary :* O. N. Chandoke.

ALL INDIA FINE ARTS AND CRAFTS SOCIETY
Old Mill Road (Rafi Marg), New Delhi.

President : Dr. M. S. Randhawa; *Chairman :* Barada Ukil; *Secretary :* B. K. Bhowmik; *Jt. Hon. Secretaries :* K. K. Nair, Biswanath Mukerji.

Publishes—Illustrated biannual art journal "Roopa-Lekha" and monthly bulletin "Art News".

ALL INDIA GLASS DEALERS SYNDICATE
Below Coronation Hotel, Chandni Chowk, Delhi.

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ALL-INDIA GLASS MANUFACTURERS' FEDERATION
Gobind Mansion, Connaught Circus, New Delhi.

President : O. M. Somany.
Hony. General Secretary, B. B. Sarkar.
Secretary, S. Jaswant Singh Sodhi.

ALL INDIA HARIJAN SEVAK SANGH
Kingsway, Delhi 9.

Founded by Mahatma Gandhi after his fast in Yeravda Jail in 1932 over the Communal Award.

The object is the eradication, by truthful and non-violent means of untouchability. In furtherance of its object, the Sangh seeks to establish contact with caste Hindus and show them that untouchability as it is practised, is repugnant to the fundamental principles of Hinduism. It also seeks to serve Harijans so as to promote their moral, social and material welfare.

President : Shrimati Rameshwari Nehru ; *Vice-Presidents :* Viyogi Hari, R. S. Dhotre ; *Secretaries :* K. V. Datey, K. S. Shivam ; *Treasurer :* L. N. Gopalswamy.

The Sangh spent during the year 1959-60 Rs. 25,36,252·32 on the removal of untouchability and other welfare activities through its 22 state branches and 167 District committees which employed 350 intensive workers. It conducted 119 hostels with 5,560 Harijan and 765 non-Harijan boys and girls besides 3 industrial training centres, 167 co-operative societies and 147 balwadis and sanskar kendras. During 1959-60 it secured the opening of 1,846 temples, 2,376 wells and tanks, 756 barbar saloons, 1,593 hotels and restaurants to Harijans. Where there was opposition it reported to the police 250 cases under the Untouchability (Offences) Act, out of which 56 were convicted, 122 were compromised through the courts and the remaining 72 are still pending (Feb. 1961).

ALL INDIA KISAN CONGRESS
2, Ferozeshah Road, New Delhi.

ALL INDIA MANUFACTURERS' ORGANISATION
(Delhi State Board),
30, Ferozeshah Road, New Delhi.

President : G. M. Chamanlal ; *Hon. Gen. Secy. :* Padam Chand ; *Secy. :* Sachidanand Hassijay.

ALL INDIA MOTOR UNIONS CONGRESS
16-A, Asaf Ali Road, New Delhi.

ALL-INDIA NEWSPAPER EDITORS' CONFERENCE*
50, Theatre Communication Bldgs., New Delhi.

ALL-INDIA ORGANISATION OF INDUSTRIAL EMPLOYERS
Federation House, New Delhi 1.

Established in 1933. The objects of the Organisation are to promote and protect the industrial development of India by studying various problems relating to trade, industry and labour and advising the Central and State Governments suitably ; to study questions coming up at the International Labour Organisation and other international and national conferences from the point of view of Indian industry and to enable the Indian representatives at these conferences to take an appropriate stand ; and to promote harmonious relations between the management and labour.

President, S. P. Hutheesing.
Secretary-General, G. L. Bansal.
Secretary, P. Chentsal Rao.

ALL-INDIA PEACE COUNCIL
14, Munshi Niketan, Kamala Market, New Delhi.

Chairman, Presidential Committee : Pandit Sundarlal ; *Gen. Secretaries :* Romesh Chandra, C. N. Malviya.

ALL INDIA RADIO MERCHANTS' ASSOCIATION
(Delhi Zone)

C/o Bhatnagar's Agencies, 60-M, Connaught Circus, New Delhi 1.

ALL INDIA RAMGARHIA YOUTH ASSOCIATION
122, Double Storey, New Rajinder Nagar, New Delhi 5.

President : Dr. Harbhajan Singh ; *Vice-Presidents :* S. Tarlochan Singh, S. Swaran Singh ; *Secretary-General :* S. Harjit Singh.

ALL-INDIA REFUGEE ASSOCIATION
Room No. 30, Lakshmi Insurance Bldg., Asaf Ali Road, New Delhi.
President : Feroz Chand ; *Gen. Secretary :* Ishar Singh Grover.

ALL INDIA TRADE UNION CONGRESS
4, Ashok Road, New Delhi.

President : S. S. Mirajkar ; *General Secretary :* S. A. Dange, M.P.

ALL-INDIA WOMEN'S CONFERENCE
(See under some Women's Associations).

ALL INDIA WOMEN HOCKEY ASSOCIATION
57, Kaka Nagar, New Delhi.

President : Begam Aizaz Rasul ; *Vice-Presidents :* Miss K. Sapra, Mrs. Meenakshi Bhakle, Mrs. Rina Mukerjee ; *Hon. Secy. :* Mrs. G. N. Singh ; *Hon. Treasurer :* S. Kartar Singh.

AMATEUR ATHLETIC FEDERATION OF INDIA
National Stadium, New Delhi.

President : Raja Bhalinder Singh ; *Hon. Secretary :* M. C. Dhawan ; *Hon. Treasurer :* P. K. Mathur.

ASOKA MISSION
C/o Asoka Vihara, Mehrauli, P.O. New Delhi.

ASSOCIATION FOR MORAL AND SOCIAL HYGIENE IN INDIA
C/o 211A, 'P' Block, Raisina Road, New Delhi.

Aims and Objects :—The eradication of commercialised vice and kindred evils and the securing of condemnation of all forms of State regulation of this vice.

President : Dr. Sushila Nayar, M.P. ; *Vice-Presidents :* Smt. Jaishri Raiji, Mrs. Zohra Ahmed, Sardar Balwant Singh Puri ; *Hon. Gen. Secretary :* Smt. Shakuntala Lall, B.Sc., LL.B. ; *Hon. Treasurer :* Sardar Mohan Singh.

ASSOCIATION OF ELECTRICAL CONTRACTORS
H-35/10, Connaught Place, New Delhi.

AUTOMOBILE ASSOCIATION OF UPPER INDIA
Lilaram Bldgs., 14 F, Connaught Place,
P.O. Box No. 28, New Delhi.

President : P. L. Mehta, J.P., I.P. ; *Vice-Presidents :* Bhai Mohan Singh, S. L. Puri ; *Hony. Genl. Secretary :* P. L. Vohra.

BANASPATI MERCHANTS' ASSOCIATION
C/o Messrs. The Delhi Vanaspati Syndicate, Khari Baoli, Delhi 6.

BAR ASSOCIATION
Vigyan Bhavan, New Delhi.

BHARAT KRISHAK SAMAJ (FARMERS' FORUM)
1-A, Nizammudin West, New Delhi 13.

President : Dr. Panjabrao S. Deshmukh ; *Vice-Presidents :* Brahm Prakash, A. M. Thomas ; *Secretary :* K. D. Sharma.

BHARAT SADHU SAMAJ
Hqrs., Kitchner Road, New Delhi.
Office : L-26, Connaught Circus, New Delhi.

Chairman, Central Advisory Committee : G. L. Nanda ; *President :* Swami Akhandanand Saraswati ; *Working President :* Swami Sarvanandji Mahamandleshwar.

BHARAT SCOUTS AND GUIDES
Regal Buildings, Parliament Street, New Delhi.

President, Smt. Ammu Swaminadhan.
Chief Commissioner for Scouts, Madan Mohan.
Chief Commissioner, Guides, Mrs. Lakshmi Mazumdar.
National Organizing Commissioner, D. P. Joshi.
Jt. National Organizing Commissioner, Guides, Mrs. C. Mohini ; *National Secretary,* Saroj Ghosh ; *Jt. National Secretary,* Mrs. Sneha Patwardhan.
Jt. National Organizing Commissioner, Scouts, T. V. Nilakantham.

BHARAT SEWAK SAMAJ
47, Theatre Communications Bldg., New Delhi 1.

A national organization, non-political, non-official in character, devoted to the task of economic and social reconstruction of India by mobilising public participation in the Five Year Plans.

Sponsored by the Planning Commission in 1952, as a result of a recommendation of the National Advisory Committee on Public Cooperation, the Bharat Sevak Samaj has, within a period of nine years, grown into a country-wide organisation with branches in 31 Pradeshes and in about 300 Districts.

The Samaj has carried the message of the Plan to the people through about 200 district information committees and 3,800 village committees. It publishes a monthly bulletin in 15 regional languages.

* For names of office bearers see under article "Press".

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The Samaj runs 20 Welfare Extension Projects (Urban) in big industrial towns and cities allotted by the Central Social Welfare Board. The Central Social Welfare Board have further allotted 100 Night Shelters to be run all over the country. Out of these 30 have already started working. Besides, the Samaj runs a large number of Pre-primary & Nursery Schools, Women's Craft Centres, Maternity and Child Health Centres, Harijan Welfare Centres, Adult Education Centres for both men and women, ante-natal and post-natal centres, Ambar Charkha Centres, Milk Centres, Ladies and Children's Clubs, Libraries, Medical-aid Centres or dispensaries and Co-operative Societies.

The Samaj holds work camps as part of its programme of youth activity. It has held 5,076 labour and social service camps in all parts of the country. Nearly 3,00,000 boys and girls have participated in these camps. Special Training Camps and Seminars have also been held to train teachers, Bharat Sevak Samaj workers and youth Leaders.

Construction work has been very important in the Samaj programme. Work costing Rs. 2 crores was done on the Kosi. The Samaj paid higher wages to the workers at the same time bringing down the costs to the public exchequer. Similarly, work costing Rs. 16 lakhs was done on Nagarjunasagar, about Rs. 6 lakhs on the Chambal, and about Rs. 16 lakhs on various other flow protections and drainage works in Delhi.

The Lok Karya Kshetra Scheme is the latest project evolved by the Bharat Sevak Samaj. Each Kshetra is co-terminus with a Community Development block and generally covers about 100 villages. The specific programmes in the Kshetras are generally implemented through the process of self-help and self-financing. An All India Lok Karya Training Centre has been set up to train workers for the Samaj.

President: Jawaharlal Nehru; *Chairman:* Gulzarilal Nanda; *Secretaries:* Krishna Prasada; Jugal Kishore Khanna.

BHARATIYA ADIMJATI SEVAK SANGH

Kingsway, Delhi 9.

Aims and Objects:—To work for the primitive and the aboriginal tribes in India.

Office-Bearers:—*President*, Dr. Rajendra Prasad; *Vice-Presidents*, U. N. Dhebar, Dr. H. N. Kunzru, L. M. Shrikant; *Secretaries*, Dharamdev Shastri, N. M. Wadia and D. J. Naik; *Treasurer*, Bhagirath Kanoria.

BHARATIYA KALA KENDRA

35/25, Ferozeshah Road Hutments, New Delhi.

Chairman: S. K. Patil; *General Secy.:* Smt. S. Charatram; *Administrative Secy.:* H. N. Singh.

BHARATIYA NATYA SANGH

(Theatre Centre, India—Affiliated to the International Theatre Institute of the UNESCO)

Flat No. 34, New Central Market, Connaught Circus, New Delhi.

An All-India organisation set up in 1950. It reaches more than 300 groups through 22 centres in Delhi, Calcutta, Simla, Saurashtra, Bombay, Andhra Pradesh, Cuttack, Jubbulpore, Ahmedabad, Belgaum, Mysore State, Madras, Meerut, Gwalior, Assam, Poona, Manipur, Nagpur, Patna, Baroda, Coondapur and Kanpur.

Its main purpose is to stimulate drama, music, and art and build an integral national theatre movement without detriment to local traditions.

The projects undertaken in 1959 for collecting Traditional Theatre Properties, and allied arts, documentation of dramatic forms, survey of theatre organisations, bibliography of actable plays in all Indian languages, are being continued this year as well.

It had organised successfully a Symposium on Theatre Architecture in March 1960, and was planning to hold another symposium of playwrights and producers in March 1961. The Sangh has also started a scheme of setting up a theatre museum in one of the pavilions at the exhibition grounds displaying the theatre properties collected.

President: Smt. Bharatidevi Sarabhai; *Sr. Vice-President:* Prof. M. M. Bhalla; *Hon. Gen. Secretary:* Dr. Suresh Awasthi.

BHARATIYA SANGEET VIDYALAYA

165, D. Kamala Nagar, Delhi.

A full fledged Degree College for the culture of classical music and dance.

President: Dr. S. N. Ratanjanker, Padma Bhushan; *Acharya and Founder Secretary:* Shripada Vandyopadhyaya.

BHARTIYA ORPHANAGE TRUST SOCIETY

Bazaar Sita Ram, Delhi.

THE BLIND RELIEF ASSOCIATION, DELHI

65, Babar Road, New Delhi 1.

President, Ananthasayanam Ayyangar; *Honorary General Secretary*, P. M. Sundaram; *Hon. Jt. Secy.* Dr. (Miss) Durga Deulkar; *Honorary Treasurer*, D. R. Bery.

BRIHAN MAHARASHTRA MANDAL

5/20, W. E. A., New Delhi 5.

President: N. V. Gadgil; *Working President:* B. W. Gadgil; *General Secretary:* N. R. Tikekar.

CENTRAL BUILDERS' ASSOCIATION

44, Regal Building, Connaught Place, New Delhi.

President, L. Hazari Lal Marwah; *Hon. Secy.*, L. Sardar Chand; *Hon. Treasurer*, L. Dewan Chand.

CENTRAL COUNCIL OF REFRIGERATION & AIR CONDITIONING TRADERS' ASSOCIATION OF INDIA

Post Box 563, Delhi.

CENTRE FOR INTERNATIONAL STUDIES

(Massachusetts Institute of Technology),
101/48, Chanakyapuri, New Delhi 21.

CHILDREN'S FILM SOCIETY

Sapru House, Barakhamba Rd., New Delhi.

The following States are members: Punjab, Rajasthan, Maharashtra, M.P., U.P., Bihar, W. Bengal, Madras, Mysore.

CHILDREN'S LITTLE THEATRE

1, Sonehri Bagh Road, New Delhi.

Patron: Smt. Indira Gandhi; *President:* Smt. Kamala Devi Chattopadhyay; *Chairman, Governing Body*, Smt. Lakshmi Mazumdar.

COMMITTEE ON RELIEF AND GIFT SUPPLIES, NATIONAL CHRISTIAN COUNCIL OF INDIA

17-B, Gangaram Hospital Marg, New Delhi 5.

Chairman: Samuel Mathai; *Director:* J. S. S. Malelu; *Associate Director & Representative, Church World Service:* H. D. Swartzendruber.

CONVENTION OF THE TEACHERS OF THE DEAF IN INDIA

C/o Govt. Lady Noyce School for Deaf & Dumb, New Delhi.

Publications: *The Deaf in India.*

President: T. N. Singh; *Hony. Treasurer:* Seth Govindram Hassaram; *Hony. General Secretaries:* Smt. Subhadra Joshi, M.P., A. C. Sen; *Editor:* T. R. Kuppuswamy.

CO-OPERATIVE FOR AMERICAN RELIEF EVERYWHERE INC.

18, Friends Colony, New Delhi 14.

Telephone: 73681 Telegrams: "CAREIND."

Director of CARE in India: Allan Kline.

Regional Offices: 1. 51 Chowringhee Road, Calcutta 16. Telephone: 441558. Telegrams: Carebengal. Assistant Chief of CARE in India: Frederick T. Davis; 2. 361 D. Naoroji Road, Bombay 1. Telephone: 254959. Telegrams: Careind. Regional Representative: Paul G. Rusby; 3. 8 Westcott Road, Madras 14. Telephone: 84894. Telegrams: "Careind." Regional Representative: Robert S. McClusky.

CULTURAL FILM SOCIETY

(Sapru House, Barakhamba Road, New Delhi.)

DELHI BUILDING MATERIAL MERCHANTS' ASSOCIATION

C/o Buildwell Stores, Outside Ajmeri Gate, Delhi.

DELHI CHAMBER OF COMMERCE

Dilbar Building, Paharganj, Desh Bandhu Gupta Road, Delhi 1.

President: Bhagwan Das Chopra.

Senior Vice-President: R. L. Tuli.

Junior Vice-President: Seth Gobind Ram Hari Ram.

Honorary Secretary: Sirdar P. S. Sodhbans, F.C.A., F.A.C.C.A. (Lond.).

DELHI CHEMICAL IMPORTERS & DEALERS' ASSOCIATION

2133, Tilak Bazar, Hari Baoli, Delhi 6.

President: Madan Lal; *Hon. Gen. Secy.:* R. M. Dass; *Hon. Secy.:* Ram S. Rastogi.

DELHI CLOTH RETAILERS' ASSOCIATION

Punjab Cloth House, Near Kucha Ghasi Ram, Delhi.

President: Gauri Shankar Sud; *Sr. Vice-President:* Munna Lal Sarin; *Gen. Secy.:* Rameswar Dass Aggarwal.

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DELHI CYCLE DEALERS' ASSOCIATION
487, Esplanade Road, Delhi 6.
President: Nand Lal; *Vice-President:* Moti Lal Gupta; *Hon. Secy.:* Narottam Das Mehra.

DELHI DYES DEALERS ASSOCIATION
Tobacco Katra, Delhi 6.
President: L. Panna Lal Ji; *Secretary:* Balkishan Gani; *Treasurer:* Jagannath Rangwala.

DELHI ELECTRICAL TRADERS ASSOCIATION
Behind State Bank of India, Chandni Chowk, Delhi.
President: Banarsi Dass; *Secretary:* Khushi Ram Sehgal.

DELHI FACTORY OWNERS FEDERATION
Phelps Bldg., 9-A, Connaught Place, New Delhi 1.
President: Bhiku Ram Jain; *Vice-President:* B. N. Bhaskar; *Secretary:* Santosh Nath.

DELHI FOOTWEAR RETAILERS' ASSOCIATION
C/o Central Chappel Co., Ballimaran, Delhi.

DELHI GENERAL MERCHANTS' ASSOCIATION
C/o Hiralal & Brothers, Outside Haiderkuli, Chandni Chowk, Delhi.

DELHI GLASS SYNDICATE
C/o Bawa Glass Co., Fatehpuri, Delhi.

DELHI GLASSWARE MERCHANTS' ASSOCIATION
C/o Bawa Glass & Crockeries Pvt. Ltd., Chandni Chowk, Delhi.

DELHI GRAIN MERCHANTS' ASSOCIATION
Swamy Shradhananda Road, Naya Bazar, Delhi.

DELHI GRAMOPHONE DEALERS' ASSOCIATION
C/o Jai Hind Radio & Electrical Corpn., Fatehpuri, Delhi.

DELHI HINDUSTANI MERCANTILE ASSOCIATION
641/1213, Chandni Chowk, Delhi 6.
OFFICE-BEARERS: R. S. Gur Pershad Kapoor (*President*); M. L. Maheshwari (*Senior Vice-President*); Murli Dhar Singhania (*Jr. Vice-President*); Ganpat Rai, M.A. (*Hon. Secretary*).

DELHI HOSIERY MANUFACTURERS' ASSOCIATION
88, Model Basti, New Delhi 5.
President: N. C. Jaswanta; *Secretary:* Ishwar Chand Gupta; *Treasurer:* Nand Lal Goel.

DELHI IRON & HARDWARE MERCHANTS' ASSOCIATION
Phatak Basanwala, Bazar Sirkiwalan, Delhi 6.

DELHI JEWELLERS ASSOCIATION
19-E, Connaught Place, New Delhi.
President: Kapoor Chand Godha; *Vice-President:* Bhola Nath; *Hon. Secy.:* Sultansingh Backliwal.

DELHI LIBRARY ASSOCIATION
Marwari Public Library, Chandni Chowk, Delhi 6.

DELHI METAL MERCHANTS' ASSOCIATION
Sadar Bazar, Delhi.
President: L. Maneh Mal Jain; *Vice-President:* Govind Pershad; *Gen. Secy.:* Shyama Charan.

DELHI MOTOR TRADERS' ASSOCIATION
Post Box 1098, Kashmere Gate, Delhi 6.
President: S. Sajjan Singh Sethi; *Vice-President:* Pran Nath Chopra; *Hony. Secy.:* Rattan Lal Kohli.

DELHI OPTICIANS' ASSOCIATION
C/o Imperial Optical Works, Katra Barien, Delhi.

DELHI PAINT MERCHANTS' ASSOCIATION
C/o Lalit & Co.
Fatehpuri, Delhi.
President: Bawa Bachittra Singh; *Secretary:* Lalit Mohan Sharma; *Treasurer:* Ram Parkash Mehra.

DELHI PAPER MERCHANTS' ASSOCIATION
Chawri Bazar, Delhi 6.

DELHI PAPER MILL DISTRIBUTORS' ASSOCIATION
C/o Raghubardayal Pannalal, Chawri Bazar, Delhi 6.

DELHI PRINTERS' ASSOCIATION
26-A, New Central (Shankar) Market, Connaught Circus, New Delhi.
President: Vedvarata; *Vice-Presidents:* Vishwanath, Shivanath; *Hony. Gen. Secy.:* D. P. Sinha; *Treasurer:* Lachhmi Narain.

THE DELHI PROVINCIAL TEXTILE RETAILERS ASSOCIATION
'Vastrilok", 1, Queen's Garden, Delhi 6.
President, B. M. Ahuja; *Hony. General Secretary,* Trilokinath Garg.

DELHI PUBLIC LIBRARY
(Queen's Road, Delhi 6.)
On January 1, 1961 there were in all 44,549 members. The number of books in stock was 178,453 (Hindi 105,643; English 36,265; Urdu 30,987; Punjabi 5,563).
Director, M. M. L. Tandon.

DELHI PUBLISHERS' ASSOCIATION
Chawri Bazar, Delhi 6.

DELHI SILPI CHAKRA ART GALLERY
Flat No. 19, New Central Market, Connaught Circus, New Delhi 1.
Assocn. of Working Artists.
Chairman: K. S. Kulkarni; *Hon. Secy.:* D. R. Kowshik; *Hon. Treasurer:* M. L. Oberoi.

DELHI STATE CHEMISTS ASSOCIATION
Surgical & Medicine Market, Bhagirath Palace, Chandni Chowk, Delhi 6.

DELHI STATE COUNCIL FOR CHILD WELFARE
Qudsia Garden, Alipur Road, Delhi 8.
President: Dr. Sushila Nayar; *Vice-President:* Radha Raman; *Hony. Secy.:* Mrs. S. Krishna.

DELHI STATIONERS ASSOCIATION
C/o Birdhichand Jain & Sons, Charkhewalan, Delhi.

DELHI STATIONERY MANUFACTURERS' ASSOCIATION
C/o Royal Khalsa Stationery Mart, Nai Sarak, Delhi.

DELHI TEXTILE & ZARI MANUFACTURERS' ASSOCIATION
C/o Pannalal Girdharlal, Sadar Bazar, Delhi.

DELHI THREAD BALL MANUFACTURERS' ASSOCIATION
C/o Punjab Soot Gola Factory, Barry Market, Sadar Bazar, Delhi.

DELHI TUBERCULOSIS ASSOCIATION
Room No. 56, Old Secretariat, Delhi 8.
President: Dr. Yudhvir Singh; *Hon. Secretary:* Dr. M. M. Singh; *Hon. Treasurer:* K. L. Rathee.

THE DELHI WATCH TRADERS SYNDICATE
Post Box No. 1751, Delhi.
President: Lala Kahan Chand of Kahan Chand Satya Pal; *Vice-President:* Hardayal of Swastik Watch Co.; *Hony. General Secretary:* Kailash Chand Jain of Jayna Watch Co.

DENTAL COUNCIL OF INDIA
Temple Lane, Kotla Road, New Delhi 1.
President: Col. N. N. Bery, D.D.S., D.E.D.P., Z.D.S., F.D.S.R.C.S., F.I.C.D.; *Vice-President:* Dr. S. K. Majumdar, D.M.D., F.I.C.D.; *Secretary:* Capt. S. Bratt, L.D.Sc., F.I.C.D.

DR. BHAGVAN DAS MEMORIAL TRUST
2-F, Lajpatnagar, New Delhi 14.
Hony. Gen. Secy.: Dr. Kumar Pal Agarwal, M.A., Ph.D.

ENGINEERING ASSOCIATION OF INDIA
(Delhi Regional Office)
184, Golf Links Area, New Delhi 3.
Regional Secretary: P. B. Lall.

ENTOMOLOGICAL SOCIETY OF INDIA
Indian Agricultural Research Institute, New Delhi.
President: Dr. S. Pradhan; *Chief Editor:* Dr. M. G. Ramdas Menon; *General Secretary:* Dr. T. V. Venkatraman.

THE FAMILY PLANNING ASSOCIATION
18, Alipur Road, Delhi 8.
President: Mrs. Manmohini Sehgal; *Hon. Secretary:* Mrs. Vimla Virmani; *Hon. Treasurer:* Dr. B. D. Sharma.

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FEDERATION OF ALL INDIA FOOD GRAIN DEALERS' ASSOCIATIONS OF INDIA
3979, Naya Bazar, Delhi 6.

FEDERATION OF BISCUIT MANUFACTURERS OF INDIA
17, Alipur Road, Delhi 6.

President : A. C. Khanna ; *Vice-President :* G. R. Sathe.

FEDERATION OF HOTEL AND RESTAURANT ASSOCIATIONS OF INDIA
Maiden's Hotel, Delhi.

President of Honour : M. S. Oberoi ; *President :* K. Heuer, F.H.C.I. ; *Vice-Presidents :* C. Green, Ram Pershad, M.H.C.I. ; *Hon. Secretary :* L. C. Nirula ; *Hon. Jt. Secretary :* M. L. Lamba.

FEDERATION OF INDIAN CHAMBERS OF COMMERCE AND INDUSTRY
(Estd. 1927)
Federation House, Bazar Road, New Delhi.

The Federation is recognised by the Central Government as the premier organisation representing commercial and industrial interests in the country. The headquarters of the Federation are situated in New Delhi.

The Federation has on its roll 137 Chambers of Commerce and Trade and Industrial Associations and 285 Associate Members, comprising leading business houses in the country. The Federation, through its constituents, covers almost the whole of the organized Indian industry and trade. It is represented on almost all important Consultative Bodies of Government. The Central Advisory Council of Industries, the Import and Export Advisory Councils, Capital Issues Advisory Committee, are some of the important Bodies on which the Federation is represented.

The membership of the Federation is of four classes Ordinary, Honorary, Overseas and Associate.

The Federation issues a bulletin *Fortnightly Review* containing information and comments on current economic events in India and abroad.

The Federation has been instrumental in the establishment of two allied organisations—All India Organization of Industrial Employers and the Indian National Committee of the International Chamber of Commerce.

President : Lala Karam Chand Thapar ; *Vice-President and Treasurer :* Shriyans Prasad Jain ; *Secretary-General :* G. L. Bansal ; *Secretary :* P. Chentsal Rao.

FEDERATION OF RURAL PEOPLE'S ORGANISATION
13, Barakhamba Road, New Delhi.

THE FORD FOUNDATION
32, Ferozeshah Road, New Delhi.

Representative in India : Dr. Douglas Ensminger.

FOREIGN RELATIONS SOCIETY
2, Ferozeshah Road, New Delhi.

FURNITURE MERCHANTS' ASSOCIATION
C/o Oriental Furnishing & Bldg. Co., Connaught Circus, New Delhi.

GANDHARVA MAHAVIDYALAYA
42-C, Prem House, Connaught Place, New Delhi.

President : S. K. Patil ; *Secretary :* B. N. Gupta ; *Principal :* Vinaya Chandra Maudgalya.

GANDHI SMARAK HARIJAN SHIKSHA SAMITI
179, Bhangi Colony, Reading Road, New Delhi.

President : Dr. Sushila Nayyar, M.P. ; *Treasurer :* K. S. Shivam (*Secretary, Harijan Sewak Sangh*).

GANDHI SMARAK NIDHI
Rajghat, New Delhi 1.

Aims and objects of the Nidhi (Gandhi National Memorial Trust) are to conduct and promote constructive activities associated with Mahatma Gandhi ; collection and preservation of places associated with his work and life.

Total money collected : Rs. 10·97 crores ; Spent till end of 1960 : about Rs. 5·98 crores ; Budget for 1961 : Rs. 1·1 crores.

OFFICE-BEARERS :—*Chairman,* R. R. Diwakar ; *Vice-Chairman,* Smt. Sucheta Kripalani ; *Secretary,* G. Ramachandran.

Office Secretary : Nandlal Parekh.

GENERAL MACHINERY MERCHANTS' ASSOCIATION
5388, Light Bldg., G. B. Road, Delhi 6.

President : T. R. Handa ; *Hon. Gen. Secy. :* Mohan Lal Duggal ; *Treasurer :* Gowardhan Lal Trehan.

GERMAN CULTURAL INSTITUTE
(Max Mueller Bhavan)
Mercantile Bank Bldg., 'E' Block, Connaught Place, New Delhi.

Director : H. Rau ; *Dy. Director :* Dr. W. Buesgen ; *Secretary :* S. S. Dikshit.

GOVERNMENT CO-EDUCATIONAL TEACHERS' TRAINING INSTITUTE
Daryaganj, Delhi.

Principal : Miss B. Sharma.

HANDICRAFTS EXPORTERS ASSOCIATION
32, Park Area, Karol Bagh, New Delhi 5.

Chairman : Sri Nath ; *Hon. Gen. Secy. :* Radhey Lall ; *Hon. Treasurer :* T. N. Pahwa.

HAPPY SCHOOLS' SOCIETY
Daryaganj Road, Delhi 7.

Founder & Hony. Director : Padam Chand.

HIDE MERCHANTS' ASSOCIATION
C/o Swadeshi Boot House, Ballimaran, Delhi.

THE HIMALAYAN SOCIETY
Regal Hotel, Delhi.

Chairman, Lal Bahadur Shastri ; *Offg. Organising Secretary :* Naren B. Joshi.

Bombay Address : Shreeniwas House, Waudby Road, Fort, Bombay.

Training Camp : Badalu (Kumaon Hills).

THE INDIAN ACADEMY OF PHOTOGRAPHY
AIFACS Bldg., Old Mill Road, New Delhi.

INDIAN ADULT EDUCATION ASSOCIATION
17B, Indraprastha Marg, New Delhi.

It is the only national organisation of adult education workers and agencies in this country, having 108 affiliated institutions spread all over India in addition to a large number of individual members.

The Association publishes a monthly journal called *The Indian Journal of Adult Education,* and a two-monthly magazine in Hindi called *Praudh Shiksha,* and publishes pamphlets and tracts on adult education techniques and methods as well as on important experiments in India and other countries. It also organises annual conferences and seminars for adult education workers. It undertakes research and evaluation and organises pilot training courses and institutes for professional as well as voluntary workers.

OFFICE BEARERS :—*President :* Dr. Mohan Singh Mehta, Jaipur ; *General Secretary :* S. C. Dutta, Delhi ; *Treasurer :* M. Mujeeb, New Delhi.

INDIAN ASSOCIATION FOR AFRO-ASIAN SOLIDARITY
14B, Janpath Barracks, New Delhi. (Tel. No. 43650).

President : Mrs. Rameshwari Nehru ; *Secy. Generals :* Dr. Anup Singh, Govinda Reddy, M.P.

INDIAN AND EASTERN NEWSPAPER SOCIETY
Address : P. O. Box 69, I.E.N.S. Building, Old Mill Road, New Delhi 1.

Formed in February 1939 to act as a Central Organisation of the Newspaper Press of India and of other countries in Asia and to promote the common business interests of its members numbering 144 at the end of 1960.

President : Dr. N. B. Parulekar (*Sakal*) ; *Dy. President :* A. B. Nair (*Free Press Journal*) ; *Vice-President :* R. R. Diwakar (*Samyukta Karnatak*) ; *Hony. Treasurer :* K. Narendra (*Daily Pratap*) ; *Secretary :* R. D. Seth.

INDIAN ASSOCIATION FOR CHEST DISEASES
Vallabhbhai Patel Chest Institute, University Campus, Delhi 8.

INDIAN BOARD FOR WILD LIFE
Ministry of Food & Agriculture, Department of Agriculture, New Delhi.

Chairman : H. H. the Maharaja of Mysore ; *Vice-Chairman :* G. G. Takle, I.F.S. ; *Vice-Chairman (Non-Official):* K. S. Dharamkumarsinhji ; *Secretary :* K. A. Ansari.

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INDIAN BUDDHIST SOCIETY

7, Ferozshah Road, New Delhi.

(*Branch :* 207, Ghorpadepeth, Poona 2)

Aims : The propagation of the Doctrine of the Blessed Buddha throughout the world ; removal of the bitter inequalities among men due to colour or caste and the feudal structure of society ; translating and publishing in Indian languages the Buddhist teachings and books in Pali literature ; foundation of Buddhist monasteries specialising in different phases of the Buddhist culture.

THE INDIAN BUREAU OF PARLIAMENTARY STUDIES

16, Golf Link Road, New Delhi.

Aims : To promote the objective assessment of such political trends and events in India and abroad as have a bearing on democracy and democratic institutions in general. Organizes Seminars, Symposia, group discussions etc. Publishes a monthly journal "Parliamentary Studies". Membership includes M.Ps. and leading public men.

President : Sohan Lal ; *Vice-Presidents :* Sardar Hukam Singh, Nawab of Chhatari, M.P. and M. S. Gurupadaswami ; *Secretary-General :* Naushir Bharucha, M.P.

INDIAN CONFERENCE OF SOCIAL WORK, DELHI STATE BRANCH

C/o Indian Co-operative Union, 'A' Barracks, Janpath, New Delhi.

President : Smt. Man Mohini Schagal ; *Hon. General Secretary :* Mrs. Indira Renu.

INDIAN CO-OPERATIVE UNION LTD.

'A' Barracks, Jan Path, New Delhi.

President : Shrimati Kamaladevi Chattopadhyay ; *General Secretary :* L. C. Jain.

INDIAN COUNCIL FOR CHILD WELFARE

14 & 15, Block A, Barracks B, Janpath, New Delhi.

Patron-in-Chief : Dr. Rajendra Prasad ; *Hon. Patrons :* Rajkumari Amrit Kaur ; Sir Gangaram Kaula ; *President :* Smt. Indira Gandhi.

Hony. Genl. Secretary, Smt. Tara Ali Baig.

INDIAN COUNCIL FOR CULTURAL RELATIONS

Azad Bhavan, Indraprastha Estate, New Delhi 1.

President : Prof. Humayun Kabir.

THE INDIAN COUNCIL OF MEDICAL RESEARCH

Medical Enclave, Near Safdarjung Hospital, P.B. 494, New Delhi.

The Indian Council of Medical Research was formerly known as the Indian Research Fund Association and was constituted in 1911 by the Government of India with a sum of Rs. 5,00,000 set aside as an endowment.

The control and management of the Council is vested in a Governing Body, the President of which is the Health Minister of the Government of India. This body is assisted in scientific and technical matters by a Scientific Advisory Board of which the Chairman is the Director-General of Health Services. The Board in its turn is advised by a number of committees on specific subjects.

The Council annually publishes a technical report describing the research done by the various enquiries carried out under the auspices of the Council during each calendar year. This report is obtainable from the office of the Director, Indian Council of Medical Research, New Delhi. The Council publishes the *Indian Journal of Medical Research* and its *Memoirs* and the *Indian Journal of Malariology*. In addition, a number of special reports dealing with important subjects of medical research are also published from time to time. So far, thirty-five such reports have been published.

The Council maintains the Nutrition Research Laboratories at Hyderabad, which is the premier institution in India entirely devoted to research in nutrition and allied sciences.

Besides financing a large number of enquiries, the Council has set up nutrition research unit at the University College of Science and Technology, Calcutta, a Neuropathological Unit at the Tata Memorial Hospital, Bombay, a Clinical Research Unit and a Haematological Research Unit at the School of Tropical Medicine, Calcutta, a Polio Research Unit at the Grant Medical College, Bombay, a Liver Research Unit at the S. N. Medical College, Agra, and an Industrial Health Research Unit and a Public Health Engineering Research Unit at the All-India Institute of Hygiene and Public Health, Calcutta. A Virus Research Centre has also been set up by the Council at Poona in collaboration with the Rockefeller Foundation of the U.S.A. A Blood Group Reference Centre has been set up in Bombay.

Besides, the Council maintains two Chairs, the Chair of the Professor of Bacteriology and Pathology and the Chair of the Professor of Protozoology at the School of Tropical Medicine, Calcutta.

The Council awards a number of research fellowships to deserving medical and science graduates with a view to training teachers and research workers for medical college staffs and aiding the development of certain departments in medical colleges as post-graduate training centres.

The Council maintains a library at the Central Research Institute, Kasauli. The Council has also established Micro-film Service and Photo-copy Service Units at the Central Research Institute, Kasauli, and at the Tata Memorial Hospital, Bombay.

President, D. P. Karmarkar ; *Chairman, Scientific Advisory Board,* Lt.-Col. V. Srinivasan ; *Director :* Dr. C. G. Pandit.

INDIAN COUNCIL OF WORLD AFFAIRS

Sapru House, Barakhamba Road, New Delhi 1.

President : Hriday Nath Kunzru ; *Treasurer :* Shri Ram ; *Chairman, Research Board :* Prof. D. R. Gadgil ; *Secretary General :* S. L. Poplai ; *Asstt. Secretary :* N. N. Pichai ; *Librarian :* Girja Kumar.

The Council enjoys consultative status with the United Nations Economic and Social Council and Unesco.

A Research Board plans and supervises the Council's research programmes. The Council publishes *India Quarterly* and *Foreign Affairs Reports.*

The Council has so far published about 43 monographs and a large number of pamphlets. Apart from occasional publications, the Council publishes two series of biennial volumes entitled *India in World Affairs* and *Select Documents on Asian Affairs.*

The Council maintains a research library on international affairs, containing about 65,000 volumes and 1,000 periodicals.

It is rapidly building up special collections in foreign languages like Russian, Japanese, etc. Current acquisitions lay special stress upon the countries of Asia.

As on 31st December 1960, the Council had 23 branches in most of the leading cities of India and 1,600 members.

INDIAN INSTITUTE OF PUBLIC ADMINISTRATION

(Indraprastha Estate, Ring Road, New Delhi.)

President : Jawaharlal Nehru.

Vice-Presidents : K. Kamaraj, Gurmukh Nihal Singh, H. N. Kunzru, Dr. G. S. Mahajani, Shri Ram.

Chairman : V. T. Krishnamachari ; *Director :* V. K. N. Menon ; *Hony. Treasurer :* S. Ranganathan.

INDIAN INVESTMENT CENTRE

National Insurance Building, Parliament Street, New Delhi 1.

Main Objects : To advise and assist Indian industrialists including those engaged in medium and small-scale industries on matters necessary to attract foreign private capital and to advise and assist foreign business men on matters pertaining to investments in India.

To assist Indian industrialists in collecting data for a specific investment project and in building it up to a prospectus stage to meet the investment requirements of foreign investors.

To render assistance whereby specific schemes may materialise quickly.

Under the Project Agreement of June 1960 between the Governments of U.S.A. and India, the U.S. Technical Co-operation Mission will make available $780,000 to cover the foreign exchange expenditure on contract services, training facilities and equipment and Rs. 22 lakhs from P. L. 480 Funds to meet the local expenses during the first two years of the Centre's operations.

Governing Body : G. L. Mehta (*Chairman*), Sir A. Ramaswami Mudaliar, Kasturbhai Lalbhai, George David Woods, William George Pullen, P. C. Bhattacharya, K. R. K. Menon, S. Ranganathan, Dr. B. K. Madan, G. L. Bansal, R. S. Bhatt (*Executive Director*).

THE INDIAN LAW INSTITUTE

Supreme Court Bldg., Tilak Marg, New Delhi.

Founded in December, 1956 with the object of promoting advanced studies and research in law and its administration, reform of administration of justice and improvement of legal education.

President : B. P. Sinha, Chief Justice of India ; *Hon. Executive Chairman :* B. Jagannadhadas ; *Research Director :* Prof. A. T. Markose.

INDIAN MANUFACTURERS' EXPORT ASSOCIATION

C/o Nath Brothers, Kashi House, Connaught Place, New Delhi.

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THE INDIAN MEDICAL ASSOCIATION
"Central Office"
Hanging Bridge, Daryaganj, Delhi 6.
Established in 1928.

Objects: To promote and advance medical and allied sciences for improvement of public health and medical education in India; To uphold the interests of the medical profession and to promote co-operation amongst the members thereof; To work for the abolition of compartmentalism in medical education, medical services and registration in the country.

President: Dr. H. N. Shivapuri, Lucknow; *Vice-Presidents:* Dr. B. P. Tribedi, Calcutta-16; Dr. Shantilal C. Sheth, Bombay-1; Dr. S. N. Acharya, Puri; *Hon. General Secretary:* Dr. A. P. Mittra, New Delhi; *Hon. Treasurer:* Dr. R. C. Goulatia, New Delhi; *Hon. Editor, Journal, I.M.A.:* Dr. P. K. Guha, Calcutta-13; *Executive Officer:* V. M. Kulkarni, Delhi.

INDIAN NATIONAL TRADE UNION CONGRESS
17, Janpath, New Delhi 1.

Founded in May 1947, the INTUC today is the biggest and most representative trade union organisation in the country. More than 1,200 trade unions with a membership of over 15,00,000 workers from all trades and industries throughout the country are affiliated to it. It has 21 Pradesh Branches and 14 Industrial Federations to co-ordinate the work of trade unions. The INTUC aims at eliminating social, political or economic exploitation of workers, organising the workers under trade unions, for securing speedy improvement of conditions of work and life and raising the status of workers in industry and society. The INTUC believes in adopting constitutional and peaceful methods for securing the redressal of grievances of workers according to the Gandhian Ideology.

The INTUC is a founder-member of the International Confederation of Free Trade Unions, which was formed in 1949, at a World Labour Congress held in London. The INTUC also participates in Conferences and Committees convened by the I.L.O.

If there are Congressmen in the INTUC this is because the ideals of the Congress and the INTUC are identical and not because the INTUC is a Congress body. The INTUC can serve the cause of labour well because members of the INTUC occasionally become Ministers.

President: Michael John, M.P.; *General Secretary:* S. R. Vasavada; *Treasurer:* G. D. Ambekar; *Assistant Secretary:* N. K. Bhatt.

Weekly Journal (English) *The Indian Worker. Managing Editor:* S. R. Vasavada; *Editor:* H. D. Mukerji; *Manager:* J. C. Pathak. (See also under 'Labour').

INDIAN NURSING COUNCIL
C/o Directorate General of Health Services, New Delhi.

Statutory body constituted in order to establish a uniform standard of training for nurses, midwives and health visitors.

President: Lt.-Col. V. Srinivasan, Director-General of Health Services; *Vice-President:* Miss M. Doctor; *Member-Secretary:* Miss T. K. Adranvala.

INDIAN PEOPLE'S THEATRE ASSOCIATION
Flat 33, Shanker Market, Connaught Circus, New Delhi 1.

President: Sachin Sen Gupta; *Vice-Presidents:* Balraj Sahni, K. Subramanyam, Vishwa Prasad Rava, Rajinder Singh Raghubansi; *Gen. Secy.:* Niranjan Sen.

INDIAN PHYTOPATHOLOGICAL SOCIETY
Indian Agricultural Research Institute, New Delhi 12.

President: Dr. R. P. Asthana; *Secretary-Treasurer:* Dr. B. L. Chona; *Editor:* Dr. R. S. Vasudeva.

INDIAN RED CROSS SOCIETY
Red Cross Road, New Delhi 2.

President: Dr. Rajendra Prasad (President of the Republic of India).

Chairman, Managing Body: Rajkumari Amrit Kaur; *Hon. Treasurer:* P. C. Padhi; *Secretary-General:* Maj. Gen. C. K. Lakshmanan.

Constitution.—The Managing Body consists of a Chairman and 26 members, of whom 15 are the Vice-Presidents, elected by the Branch Committees, 6 elected by the Managing Body at its meeting preceding the Annual General Meeting from among the members of the Society, and 5 nominated by the President.

Junior Red Cross.—Junior Red Cross which was started in 1926 is an integral part of the Indian Red Cross Society and is its youth section. The movement functions all over India in over 30,000 schools and colleges with a membership of about 2¼ million and aims at inculcating the ideals of health, service and international fellowship in the younger generation.

Medical After-Care Fund.—Assistance from the Fund is invoked by an increasing number of deserving cases. The total number of applications dealt with till the end of 1960 was 7,520. During 1960, 679 fresh applications were received from ex-servicemen suffering from tuberculosis, leprosy and other diseases, and from those requiring artificial limbs, dentures and spectacles. A sum of Rs. 79,004 was given in grants to 427 new and 252 old cases raising the total of disbursements from the Fund during the last 19 years to Rs. 16,48,294.

Bureau of Maternity and Child Welfare.—The Maternity and Child Welfare Bureau of the Society was established in 1931.

The Bureau administers the Lady Chelmsford League Fund for maternity and child welfare, the Victoria Memorial Scholarships Fund for the training of dais, and the Army Child Welfare Funds. The Bureau also acts as a Central office for information and offers technical assistance.

Under the Five Year Plans its activity has also been extended to the hilly and backward areas of Tehri-Garhwal District where a few multipurpose welfare centres are being run with the aid given by the Government.

Relief Activities.—Emergency relief forms an important aspect of Red Cross work in India and it comprises two categories: assistance with cash grants, medical and other supplies and provision of trained field workers for first aid, ambulance service, nursing and incidental duties for sudden emergencies.

Two quarterly Journals are published, namely, the *Indian Red Cross Journal* and the *Indian Junior.*

Hospitals.—The Society runs a Red Cross Home in Bangalore well-equipped for 75 patients for giving expert medical aid and nursing care to permanently disabled ex-servicemen. It provides various amenities and comforts including newspapers, magazines and books to patients in all military hospitals.

Finances.—The investments of the Society at the end of 1960 stood at Rs. 1,56,07,200 and the floating and fixed deposits at Rs. 6,90,544. From the total income of Rs. 5,17,875 derived from investments of the Society, a sum of Rs. 1,58,160 is distributed under the Act to the State Branches in proportion to their contributions to the Central "OUR DAY" Fund raised in the First World War.

INDIAN ROADS CONGRESS
Jamnagar House, Mansingh Road, New Delhi 2.

President: K. Barua; *Vice-Presidents:* P. D. Shivdasani, G. C. Khanna, S. N. Tripathi; *Hon. Secy.:* N. Sen; *Hon. Treasurer:* H. P. Sinha, I.S.E.

INDIAN SOCIETY FOR PROMOTING CHRISTIAN KNOWLEDGE
I.S.P.C.K., Post Box 1585, Kashmere Gate, Delhi 6.

Agents for South India, C.L.S., Post Box 501, Madras 3.

INDIAN SOCIETY OF ANAESTHETISTS
29, Rajpur Road, Delhi 8.

INDIAN SOCIETY OF GENETICS & PLANT BREEDING
Botany Dn., Indian Agricultural Research Institute, New Delhi 12.

Editor: Dr. B. P. Pal; *President:* Dr. E. K. Janaki Ammal; *Secretary:* Dr. M. S. Swaminathan.

INDIAN SOCIETY OF GASTROENTEROLOGY
D/3, Ansari Nagar, New Delhi 16.

President: Dr. P. Raghavan; *Secretary:* Dr. H. K. Chuttani.

INDIAN SOCIETY OF HAEMATOLOGY
1/25, Prince Golam Mohammad Road, Calcutta 26.

INDIAN SOCIETY OF SOIL SCIENCE
Indian Agricultural Research Institute, New Delhi 12.

President: Dr. S. P. Raychaudhuri; *Hon. Secretary:* Dr. T. D. Biswas; *Hon. Jt. Secy.:* A. B. Ghosh.

INDO-GERMAN CHAMBER OF COMMERCE
"E" Block, Sixth Radial Road, Connaught Place, New Delhi.

Secretary: R. Popp.

INSTITUTE OF CHARTERED ACCOUNTANTS OF INDIA
Post Box 268, Mathura Road, New Delhi 1.

The Institute of Chartered Accountants of India which is an autonomous body with perpetual succession was established on the 1st of July, 1949.

The Institute had on its Register 1,431 Fellows and 3,315 Associate members as on 1st April 1959. Out of this 1,325 Fellow members and 1,907 Associate members are in practice.

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The Institute is governed by a Council consisting of 25 members, 20 of whom are elected from the various regions and five nominated by the Government of India.

Council of the Institute :—President : C. P. Mukherjee ; *Vice-President :* S. N. Desai ; *Secretary to the Council :* E. V. Srinivasan ; *Registrar :* N. Subramanian.

INSTITUTE OF ECONOMIC GROWTH

University Enclave, Delhi 6.

Chairman, Board of Governors, Delhi School of Economics Society : V. T. Krishnamachari ; *Director :* Dr. V. K. R. V. Rao ; *Fellow :* Prof. P. N. Dhar.

INSTITUTION FOR THE BLIND

Panchkuin Road, New Delhi.

President : Dr. B. K. Siddhu ; *Secretary :* M. M. Agarwal ; *Jt. Secretaries :* R. G. Sharma, L. S. Bhalla, R. P. Kohli.

INSTITUTE FOR SOCIAL GUIDANCE

2-F, Lajpatnagar, New Delhi 14.

Chairman & Director : Dr. Kumar Pal Agrawal ; *Secretary :* Smt. Dayawati Agrawal.

INSTITUTION OF ENGINEERS (INDIA)

(Delhi Centre)

Mathura Road, Near Hardinge Bridge, New Delhi.

Chairman : S. S. Kumar, M.I.E. ; *Hon. Secy. :* Dr. S. P. Luthra, M.I.E. ; *Hon. Jt. Secretary :* Dr. H. C. Visvesvaraya, A.M.I.E.

INSTITUTE OF FOREIGN LANGUAGES INTERNATIONAL CULTURAL CENTRE

44/3, Regal Buildings, Connaught Circus, New Delhi.

President : Prof. G. M. Le Fleurier ; *Secretary :* Surjit Singh ; *Treasurer :* K. B. Mathur.

INSTITUTE OF INDOLOGY

(Bhartiya Vidya Samsthana)

88, Lucknow Road, Delhi.

Objects : To promote, organise and facilitate study of and research in Indology in all its branches including history, religion, philosophy, art, literature and culture.

President : Mehar Chand Mahajan (Retd. Chief Justice of India) ; *Secretary :* Prof. Vedvyas, M.A., LL.B. ; *Director :* Dr. D. N. Shahstri, M.A., M.O.L., D.Litt.

THE INSTITUTION OF SURVEYORS

Kashmir House, King George's Avenue, New Delhi.

President : P. N. Gadi, B.A., C.E. (Hons.) M.I.S. ; *Vice-Presidents :* Krishnaram T. Divecha, B.E., M.I.E., M.I.S., A.I.A.A. (Lond.), A.I., A.R.B., Col. R. S. Kalha, M.I.S.

THE INSTITUTION OF TELECOMMUNICATION ENGINEERS

9/B, Bazar Marg, opp. Pusa Road, Taxi Stand, New Delhi 5.

President : Dr. Lal C. Verman.

INTERNATIONAL ACADEMY OF INDIAN CULTURE

J-22, Hauzkhas Enclave, New Delhi 16.

President : R. K. Jain ; *Hon. Director :* Prof. Dr. Raghu Vira, M.P. ; *Secretary :* Dr. Lokesh Chandra.

INTERNATIONAL CHAMBER OF COMMERCE, INDIAN NATIONAL COMMITTEE

Federation House, New Delhi 1.

The Indian National Committee of the International Chamber of Commerce was established for the following purposes in the year 1929 :—

(i) To facilitate the commercial intercourse of countries.

(ii) To encourage progress and to promote peace and cordial relations among countries and their citizens by the co-operation of business men and organisations devoted to the development of commerce and industry.

President : Madanmohan R. Ruia ; *Vice-President :* Karamchand Thapar ; *Treasurer :* P. N. Talukdar ; *Secretary-General :* G. L. Bansal ; *Secretary :* P. Chentsal Rao.

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE

184, Golf Links Area, New Delhi 3.

President : N. D. Gulhati (*India*) ; *Vice-Presidents :* E. A. G. Johnson (*Great Britain*), L. R. East (*Australia*) ; A. Pena Boeuf (*Spain*), A. N. Askochensky (*U.S.S.R.*), Dr. K. W. Hill (*Canada*) ; *Secretary : General :* Yadava Mohan (*India*).

INTERNATIONAL CONFEDERATION OF FREE TRADE UNIONS—ASIAN REGIONAL ORGANISATION (ICFTU-ARO)

1/23, Asaf Ali Road, New Delhi 1.

International workers' organisation composed of free and democratic trade unions, independent of all external domination and pledged to the task of promoting the interests of the working people throughout the free world and assuring the dignity of labour, has its Asian headquarters in Delhi. Twenty-seven trade union organisations in fifteen Asian countries with more than 6 million members are affiliated to it.

An Asian Trade Union College was established in November 1952 in Calcutta by the organisation to train the Asian workers on the lines of democratic trade unionism.

Chairman : P. P. Narayanan ; *Asian Regional Secretary :* G. Mapara.

INTERNATIONAL CULTURAL CENTRE

16, Hailey Road, New Delhi.

(Estd. 1957)

The Centre works in co-operation with non-governmental and semi-governmental groups to serve as a channel of communication between India and other countries in the field of arts and humanities. Its main objective is to help understanding and appreciation of the world's art forms and movements through cultural exchange and thus enrich and influence the development of the arts in India itself.

The main activities include holding of exhibitions of Indian painters in India and abroad, giving assistance to organise one-man exhibitions, assisting Indian dancers to tour abroad and foreign dancers to tour in India, maintaining a library, etc.

Chairman : P. A. Narielwala ; *Executive Secretary :* Mrs. Rekha Menon ; *Administrative Secretary :* Miss Mani Mann.

INTERNATIONAL CULTURAL FORUM

2653, Roshanpura, Naisarak, Delhi 6.

President : J. N. Sahani ; *Secretary-General :* S. P. Jain Nasim.

INTERNATIONAL SOCIETY OF PLANT MORPHOLOGISTS

Deptt. of Botany, Delhi Univ., Delhi 16.

President : Prof. I. W. Bailey ; *Vice-Presidents :* Prof. P. Maheshwari, Prof. K. Esau ; *Secretary-Treasurer :* Dr. B. M. Johri.

IRON HARDWARE MERCHANTS' & MANUFACTURERS' ASSOCIATION

Bazar Sirkiwalan, Delhi 6.

President : L. Sarab Dayal ; *Sr. Vice-President :* L. Behari Lal ; *Gen. Secy. :* Bharat Bhushan Sethi.

JAIN SOCIETY FOR THE PROTECTION OF ORPHANS FOR INDIA

Daryaganj, Delhi.

President : Rajendra Kumar Jain ; *General Secretary :* Raghubir Singh Jain Kothriwale ; *Secretary :* Bimal Pershad Jain.

JAMIA MILLIA ISLAMIA

P.O. Jamia Nagar, New Delhi.

Chancellor : A. M. Khwaja ; *Vice-Chancellor :* Prof. M. Mujeeb.

JAMIA RURAL INSTITUTE

Jamia Millia, New Delhi 20.

Director : Dr. H. Amir Ali.

KALAKENDRA RESEARCH AND INFORMATION ORGANIZATION

25E/6, East Patel Nagar, New Delhi 12.

Originally established in 1950, the Organization, as reorganised, is devoted to furthering research in Indian dance, drama and music, architecture, sculpture and painting, and to dissemination of news and views concerning these arts. It gives research guidance free.

KASTURBA GANDHI NATIONAL MEMORIAL TRUST

8, Lodi Road, New Delhi.

KIRANA COMMITTEE

372, Khari Baoli, Delhi 6.

President : Durga Pershad Berry ; *S. V. President :* Madan Lal ; *Vice-President :* Moti Lal Goel ; *Secretary :* Devki Nandan.

LALIT KALA AKADAMI

(National Academy of Art, New Delhi.)

The Lalit Kala Akadami was set up in August 1954 by the Govt. of India. Its aim is to promote the study of and research in painting, sculpture, architecture and applied arts. There are a General Council and Executive Board, a Finance Committee and other Standing Committees.

Chairman, Executive Board : Mehdi Nawaz Jung ; *Vice-Chairman :* Karl J. Khandalavala ; *Secretary :* B. C. Sanyal.

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THE LITTLE THEATRE GROUP
C/o Flat 10, Shanker Market, Connaught Circus, New Delhi.

MACHINERY MERCHANTS' ASSOCIATION
Burn Bastion Road, Delhi.

MEDICAL COUNCIL OF INDIA
Temple Lane, Kotla Road, New Delhi.

Is a Statutory Body constituted under the Indian Medical Council Act, 1933. The main functions of the Council are :—(*a*) establishment of a uniform standard of higher qualifications in medicine for all States; (*b*) furtherance of the recognition of Indian medical qualifications in States and countries outside India with its corollary the recognition in this country of approved qualifications of such States and countries; (*c*) to prescribe standards of Post-graduate Medical Education for the guidance of Universities; (*d*) maintenance of a Medical Register for India and matters connected therewith.

President : Dr. C. S. Patel, F.R.C.S. (Eng.); *Vice-President :* Dr. B. Narayana, M.Sc., M.B., Ph.D., F.R.S., F.N.I.; *Secretary :* Dr. V. V. Puri, M.B., D.P.H., D.T.M.

MOTION PICTURES ASSOCIATION
52/55, Mangal Market, Chandni Chowk, Delhi.

President : Seth Jagat Narain; *Senior Vice-President :* C. V. Desai: *Junior Vice-President :* Jagannath Prasad; *Hony. General Secretary :* D. N. Pancholi.

MUSEUM OF ARCHAEOLOGY
Red Fort, Delhi.

Curator : Narindar Nath.

NATIONAL AGRICULTURAL CO-OPERATIVE MARKETING FEDERATION LTD.
248-A, Krishi Bhavan, New Delhi.

AIMS : To provide the co-operative sector with an outlet for entering into export and import markets.

NATIONAL BOOK TRUST, INDIA
Old Mill Road, New Delhi 1.

To publish, or assist publishers, universities, learned societies etc. in the publication of large editions, at low cost, of books in Hindi and other Indian languages, and of the following categories : Indian classics, translation of famous books in foreign languages and all standard books from one Indian language into another, reproduction of Indian paintings, sculptures and other art treasures etc. Lists of short-term and long-term publications are drawn up for implementation. The funds of the society will consist of lump sum and recurring grants made by the Government of India for the furtherance of the objects of the Society and income from its publications and other sources.

Chairman : G. C. Chatterji; *Secretary :* Manjeri S. Isvaran.

NATIONAL COUNCIL OF APPLIED ECONOMIC RESEARCH
Bombay Mutual Bldg., Parliament Street, New Delhi 1.

The National Council started functioning from 1st August 1956, as an independent research organisation to study current important economic problems on an objective basis on its own initiative or at the instance of Government, business concerns, associations or individuals and to help in analysing and finding solutions to specific problems in the planning and management of industrial and other undertakings. The Council has been established with the active support and encouragement of the Government of India and the business community and on its Governing Body are represented Ministers of the Central Government, leading business men and other eminent persons. The organisation provides for a broad base of membership including Life, Ordinary and Corporate Members.

The Council has already completed a number of studies, on behalf of the Ministries of the Government of India, the State Governments, and the business community, some of which have also been published.

The Council is currently engaged in a number of studies *e.g.* Techno-Economic Surveys of Orissa, Assam, Andhra Pradesh, W. Bengal, Punjab, Union Territories, Rajasthan, Maharashtra and Gujarat, Kerala, Mysore and Transport and Economic Development, Taxation and Private Investment, Urban Saving Survey, Pilot Survey of Rural Household Savings, Long-Term Supply; Demand for Selected Agricultural Products and a number of Demand Forecast Studies.

Publications : Taxation and Foreign Investment; Foreign Exchange Crisis and the Plan; Some Aspects of Road Transport in the Delhi Region; Prospects for a Mica Grinding Plant in India; Utilization of Primary Energy in India; Export Markets for Indian Lac and Lac Products; Criteria for Fixation of Water Rates; Commodity Disposition Survey; Demand forecast for consumer goods; Techno-Economic Survey of Bihar; Rehabilitation and Development of Basti District; Traffic Survey of Tuticorin Port; Survey of Handloom Industry in Karnataka; Managing Agency System; Domestic Fuels in India; Techno-Economic Survey of Madhya Pradesh and Problems of Energy in India 1960-75; Traffic Survey of Ganges, Delhi Saving Survey; A Pilot Study and Dieselisation and Diesel oil Taxation.

President, V. T. Krishnamachari.

Director-General, Dr. P. S. Lokanathan.

Secretary and Registrar : N. G. Mitra.

NATIONAL CULTURAL ORGANISATION
C-2/169, Lodi Road, New Delhi-3.

An All India Cultural Body inaugurated by the Prime Minister of India in 1950 in the Capital of India.

Chairman : B. N. Datar (Union Minister of State for Home Affairs); *Gen. Secy. and Treasurer :* N. P. Sheshadri; *Joint Secy. :* N. P. Jagannathan; *Members :* S. Shakuntala, Chandra Dhar, I. S. Duggal and Tarlok Singh.

Subscription : Patrons: Rs. 1,000; Life members: Rs. 500; Members: Rs. 24 per annum plus an admission fee of Re. 1.

Telephone No. 72681.

Chief Patron : G. D. Birla.

THE NATIONAL FEDERATION OF P & T EMPLOYEES
9, Pusa Road, New Delhi.

President : V. G. Dalvi, Bar-at-Law; *Secretary-General :* P. S. R. Anjaneyulu; *Secretary :* V. S. Menon.

NATIONAL GALLERY OF MODERN ART
(Jaipur House, New Delhi.)

Curator : Prof. Prodosh Das Gupta.

NATIONAL INSTITUTE OF SCIENCES OF INDIA
Mathura Road, New Delhi 1.

Objects :—Founded in 1935 for the promotion of natural knowledge in the country including its practical application to problems of national welfare. Recognised by Government as the premier scientific organisation representing all branches of Science in India. Has three co-operating Academies, *viz.*, Asiatic Society (Calcutta), Indian Academy of Sciences (Bangalore) and National Academy of Sciences, India (Allahabad). Annual Subscription Rs. 36.

Publications : *Proceedings, Transactions, Bulletin, Progress of Science in India, Monographs.*

President : Dr. A. N. Khosla; *Treasurer :* S. Basu; *Foreign Secretary :* Prof. P. S. Gill; *Secretaries :* Prof. R. C. Majumdar, *Prof.* B. R. Seshachar; *Editor of Publications :* Prof. D. S. Kothari.

NATIONAL LIVESTOCK COMMITTEE
3-Ansari Road, Daryaganj, Delhi-7.

Secretary : M. R. Sharma; *Assistant Secretary :* R. N. Pandey; *Sales Intelligence Officer :* O. P. Tejpal; *Public Relations Officer :* S. K. Sharma.

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38, Golf Links, New Delhi.

Aims and Objects : Launching productivity movement in the country by rousing productivity consciousness and to generate productivity services.

This is an autonomous body representative of Government, employers, labour, technicians, consumers, consultants, scholars and small industries. The number of members is limited to 75. The size of the Governing Body is limited to 25 members.

The Services of NPC to Industry include: Developing and Presenting Training Programmes on Productivity Techniques, such as, Work Study, Quality Control, Production Planning, Management Development, Industrial Relations, etc., Sending Productivity Teams abroad, Sending individuals on Fellowships abroad, Organising In-country Productivity Teams, Producing the NPC Journal 'Productivity', Presenting Audio-Visual Programmes, Providing Library and Technical Inquiry Services, and Providing Management Advisory Service.

The activities of NPC are presented through Local Productivity Councils numbering 42 and situated throughout the country. The NPC contributes to the finances of LPCs an amount equivalent to their membership subscription. The NPC has on its staff about 40 national and 15 foreign specialists in the fields of Industrial Engineering, Industrial Management and Industrial Relations.

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NATIONAL SCHOOL OF DRAMA & ASIAN THEATRE INSTITUTE
15-A, Kailash Colony, New Delhi -14.

The School, set up by the Sangeet Natak Akademi, New Delhi, started its work in July 1959. It conducts a two-year diploma course in dramatics in all its aspects.

The Admission to the School is open to all men and women of at least 25 years of age with previous experience of drama and theatre. The total number of seats is 25. The admissions are held through interview in April-May every year and the classes start on 15th July. The School awards 10 scholarships each of Rs. 200 p.m. to deserving candidates. There is a staff of 11 teachers for different subjects, including Dramatic Literature, Acting, Set and Costume Designing, Stage Lighting, Make-up and Craft etc. It is a full time course consisting of classes in both theory and practice, lasting from morning till evening.

The first two batches were under training and the first batch was to complete the training in May 1961.

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Janpath, (Connaught Circus), New Delhi.

The Akademi is a national organization to work for the development and co-ordination of Indian letters, and to set high literary standards. It was inaugurated on March 12, 1954.

There is a General Council of 69 members and an Executive Board of 17.

Among the more concrete projects that are before the Akademi are a national bibliography of Indian literature, a Who's Who of Indian writers, standard works in English and Indian languages on the history of modern Indian literatures, anthologies covering poetry, drama and short stories in Indian languages, translation of select classics from one Indian language into another, translation of foreign classics into Indian languages, etc.

Every year since its inauguration in 1954, the Sahitya Akademi has been awarding prizes of Rs. 5,000 each to some outstanding books published in Indian languages. Books are eligible for prizes in 16 languages : the 14 major languages enumerated in the Indian Constitution and Sindhi and English (as written by Indian authors). Seven books in Bengali, Hindi, Kannada, Marathi, Punjabi, Sindhi and Urdu respectively were adjudged worthy of award in 1959. The academy publishes two half-yearly journals, *Indian Literature* (in English) and *Sanskrita Pratibha* (in Sanskrit).

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(National Academy of Dance, Drama & Music)
4-A, Mathura Road, Jangpura, New Delhi 14.

The Akadami was inaugurated on January 28, 1953. The purpose is to foster Indian Dance, Drama, Music and Film and promote through them the cultural unity of the country.

The organizational set up consists of a General Council, an Executive Board, a Finance Committee. The General Council consists of representatives among others of Central and State Governments and leading cultural organizations.

It promotes research, encourages setting up of theatre centres and training institutions, organizes seminars and festivals, awards prizes and distinctions, publishes literature, grants financial assistance and promotes cultural exchange.

The Akadami conducts a survey of art-forms in the country ; it is also building libraries of musical records, books and films.

It has some 260 recognized institutions and affiliated state Regional Academies all over the country. The work of survey of art-forms and other regional activities are carried on with the help of Regional Academies.

In 1959 it conducted a Hindi Drama competition and gave awards for the best Hindi play and the best Hindi play production.

The Akadami also annually awards trophies to the winners of the Folk Dancing parties which take part in the National Folk-Dance Festival during the Republic Day Celebrations at New Delhi, and also presents awards annually to outstanding artists of the country in the field of dance, music, drama and films.

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(For activities before 1959 see the *Directory* for 1959–60.)

It has two training institutions, National School of Drama and Asian Theatres Institute at Delhi and the Manipur Dance College at Imphal, for training in dramatics and Manipur dancing, respectively.

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(Estd. 1910)

Red Cross Road, New Delhi 2.

Objects : Instruction in First Aid, Home Nursing and allied subjects and relief of suffering of the sick and injured in peace and war.

The association has five grades of members, namely, patrons, honorary councillors, life members, annual members and annual associates. Their respective subscriptions are Rs. 1,000, Rs. 500, Rs. 100, Rs. 5 and Re. one.

The President of the Republic of India is the President of the Association. Its general business is conducted by an executive committee.

The St. John Ambulance Brigade is a uniformed, disciplined body of men with first aid Certificates and women with Home Nursing Certificates. They meet together regularly for practice, are inspected and re-examined annually and undertake to turn out for public duty whenever required.

The Brigade in India is commanded by Rajkumari Amrit Kaur as Chief Commissioner. Under her are 20 Districts covering almost all the States and major railways in India with headquarters at Bangalore, Bhubaneshwar, Bombay, Calcutta, Chandigarh, Delhi, Gorakhpur, Hyderabad, Indore, Jaipur, Lucknow, Madras, Patna and Shillong.

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32, Alipur Road, Delhi 8.

The Association has an associate consisting of Student Nurses' Association, Health Visitors' League, and Midwives' Association. The number of registered members is 5,566 and student members 9,578 totalling 15,144. The official organ of the Association is *The Nursing Journal of India.*

President : Miss E. H. Paull ; *Vice-Presidents :* Miss G. Kapadia ; Miss B. G. Dawson ; Mrs. M. A. Ahad ; *General Secretary :* Kumari Lakshmi Devi ; *Secretary, Student Nurses Assocn. :* Miss I. Dorabji ; *Hon. Treasurer :* Miss M. P. Masih ; *Editor :* Kumari Lakshmi Devi.

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Office :—3, Red Cross Road, New Delhi 2.

Sixteen State Tuberculosis Associations are affiliated to this Association. It runs model T.B. institutions, namely, the Lady Linlithgow Sanatorium, Kasauli (Simla Hills) with which is annexed the King Edward Sanatorium, Dharampore ; the New Delhi Tuberculosis Centre, New Delhi and Tuberculosis Hospital, Mehrauli (Delhi). Publishes the *Indian Journal of Tuberculosis* quarterly and brings out *Directory of Tuberculosis Institutions in India.* Conducts annually the T.B. Seal Sale Campaign, trains doctors and health visitors and organises every year conferences of T.B. workers in Tuberculosis and Chest Disease.

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A National Women's Organisation with over 60 branches all over India. Membership open to all women and girls of all communities and creeds. Welfare work, vocational training classes, employment bureaus as well as recreation.

There are hostels in a large number of towns.

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Rajasthan Trading Co., Katra Nawab, Chandni Chowk, Delhi.

Rajendra & Co., 16-E, Connaught Place, New Delhi.

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Rajpal Brothers, Chandni Chowk, Delhi 6.

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Sahni Bros. P. Ltd., Odeon Cinema, Connaught Place, New Delhi.

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Santosh & Co., 69, Najafgarh Road, New Delhi 15.

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Inderaprastha Ice & Cold Storage.—Katra Chhajju Pandit, Shaidipura, Delhi.
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Khanna Ice Factory.—Jhandewala, Near Durga Temple, Delhi.
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Pure Drinks.—Connaught Lane, New Delhi.
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Friends & Co.—959, Kucha Ruhalla Khan, Daryaganj, Delhi 6.
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Indian Refrigeration Industries.—51, Najafgarh Road, New Delhi 15.
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Virmani Refrigeration & Cold Storage P. Ltd.—Rani Jhansi Road, New Delhi 1.
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AIR COMPRESSORS

Brady, W. H. & Co., Ltd.—Indra Palace, Connaught Place, New Delhi.

Consolidated Pneumatic Tool Co. Ltd.—8-A/29, W.E.A., New Delhi.

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Air Compressors for Spray Painting Jobs, Tyres Inflation and for all compressed air-operated equipment.

DGL PRIVATE LTD.—Connaught Circus, New Delhi-1. Air Compressors for spray painting Jobs, Tyres inflation and for all Compressed air-operated equipment.

East Asiatic Co., India (Private) Ltd.—Delite Cinema Bldg., D.A.G. Extension, New Delhi.

EASTERN COMMODITIES PRIVATE LTD.—5-A/8, Ansari Road, Daryaganj, Delhi 6; Complete Spray Painting Automobile Service Equipment including Air Compressors, Spray painting guns, Air Filters and Regulators and Car lifts.

F. J. Dillon Engineering Co.—D.A.G. Extension, New Delhi.

KHOSLA, K. G. & CO. PRIVATE LTD.—1, Deshbandhu Gupta Road, New Delhi.

Marshall Sons & Co. (India) Ltd.—Marshall House, Connaught Circus, New Delhi.

Tecalemit (India) Ltd.—L/13, Connaught Circus, New Delhi.

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SAIGAL RADIOS, 1681/6, Jogdhian Building, Chandni Chowk, Delhi 6.

AUTOMOBILE AND AUTOMOBILE PARTS AND ACCESSORIES DEALERS

ACME BATTERIES PRIVATE LTD.—G. T. Road, Delhi-Shahdara; Leading Manufacturers of Automobile Batteries and Electric Horns.

Aggarwal Motor Co.—Gandhi Motor Market, Kashmere Gate, Delhi.

AGGARWALA AUTOMOBILES.—Queen's Road, Delhi.

Aggarwal Motor Stores.—12/1, M. Connaught Circus, New Delhi 1.
Allied Auto Agencies.—28/M, Connaught Circus, New Delhi.
Allied Auto Stores.—Gandhi Motor Market, Kashmere Gate, Delhi.
Allied Engg. & Trading Co. Ltd.—Kashmere Gate, Delhi.
American Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.
American Radio & Automobile Co.—Queen's Road, Delhi.

ANAND MOTORS.—Opp. Minerva Cinema, Kashmere Gate, Delhi.

Anand Automobiles.—Queen's Road, Delhi.
Anand Traders.—15, Hamilton Road, Kashmere Gate, Delhi.
Aryavarta Auto Supply Co.—698, Hamilton Road, Kashmere Gate, Delhi.
Asiatic Automobiles.—859, Queen's Road, Delhi.
Asiatic Automotive Engg. Co.—23, Najafgarh Road, New Delhi 15.
Asiatic Traders.—Peareylal Motor Market, Kashmere Gate, Delhi.
Asoka Traders.—Peareylal Motor Market, Kashmere Gate, Delhi.
Associated Engg. Works.—Kashmere Gate, Delhi.
Asu Traders Pvt. Ltd.—P. Box No. 1130, Kashmere Gate, Delhi.
Attock Motors (India).—55, Gokhale Market, Delhi.
Auto Diesel Agency.—Hamilton Road, Kashmere Gate, Delhi 6.
Autodeals.—33H, Connaught Circus, New Delhi 1.
Auto Diesel House.—Nehru Motor Market, Kashmere Gate, Delhi.
Auto Distributors (India).—Gandhi Motor Market, Kashmere Gate, Delhi.
Auto Electric Agency.—33, Gokhale Market, Delhi.
Auto Friends (India).—Kashmere Gate, Delhi.
Auto Importers.—Hamilton Road, Kashmere Gate, Delhi.

AUTO LINES (INDIA), Pearey Lal Market, Kashmere Gate, Delhi 6; Ball & Roller Bearings, Jeep, Dodge and Mercedes Parts.

Auto Pins (India) Regd.—Kashmere Gate, Delhi.
Auto Spares (India).—Kashmere Gate, Delhi.
Auto Spring Mfg. Co.—2781, Hamilton Road, Kashmere Gate, Delhi.

AUTO SUPPLY CO.—S. P. Mukherjee Marg, Delhi 6; Distributors for 'Bramce' Brake & Clutch linings for Automobile and Industrial.

Auto Trading Co.—Kashmere Gate, Delhi.
Auto Trading Co.—of Lahore, Sardari Mal Mansion, Chandni Chowk, Delhi.
Auto & Tractor Traders.—Kashmere Gate, Delhi.
Autolines (India).—8, Peareylal Motor Market, Kashmere Gate, Delhi.
Automachines & Spare Co.—2707, Lothian Road, Nehru Motor Market, Kashmere Gate, Delhi.
Automobile Traders.—3263, D. B. Gupta Road, Paharganj, New Delhi 1.
Azad Motor Stores.—Ram Singh Motor Market, Kashmere Gate, Delhi.
Bahl Motor Stores.—Queen's Road, Delhi.
Bajaj Motors (India).—Kashmere Gate, Delhi.
Bansal & Co.—Hamilton Road, Kashmere Gate, Delhi.
Basant Trading Co.—13, Gokhale Market, Delhi.
Bat-Bro Engineering & General Manufacturers.—69, Najafgarh Road, Delhi.
B. C. Aggarwal & Co.—Queen's Road, Delhi.
B. Asa Singh & Sons.—33, Motia Khan, New Delhi 1.
Bedi Engineering Works.—G.T. Road, Near Partap Bagh, Delhi 6.

BENZ SPARES (INDIA).—2659, Gandhi Motor Market, Kashmere Gate, Delhi 6. Direct Importers; Specialists in Tata Mercedes & Diesel Auto Spares.

Beri Motors.—Peareylal Motor Market, Kashmere Gate, Delhi.
Bharat Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.
Bharat Auto Stores.—P.B. No. 1492, Kashmere Gate, Delhi.
Bharat Motor Co.—Queen's Road, Delhi.
Bharat Sales Corporation.—Kashmere Gate, Delhi.
Bhasin Motor Stores.—28, Gokhale Market, Delhi.
Bir Brothers.—1/2639, Hamilton Road, Kashmere Gate, Delhi.
Blue Star Auto Stores.—Gandhi Motor Market, Kashmere Gate, Delhi.
B. N. Dheer & Sons.—Peareylal Motor Market, P. B. No. 1686, Delhi.

BOMBAY MOTORS.—750, Church Mission Road, Delhi 6.

Bombay Sales Corporation.—Peareylal Motor Market, Kashmere Gate, Delhi.
British Motor Car Co. P. Ltd.—Connaught Circus, New Delhi.

BRITISH SPRINGS CO.—41, U.A. Bungalow Road, Kashmere Gate, Delhi. Manufacturers of Leaf Springs for Automobiles.

Capital Motor Stores.—1633, Queen's Road, Delhi.
Car Lines (India).—Peareylal Motor Market, Kashmere Gate, Delhi 6.
Central Automobiles.—2638, Hamilton Road, Kashmere Gate, Delhi.
Central Sales Agency.—617/2, Hamilton Road, Kashmere Gate, Delhi 6.
Chimanlal Desai & Co.—72, Queensway, Delhi.
Chopra Auto Stores.—Gandhi Motor Market, Kashmere Gate, Delhi.
Civil Engineering Co.—Arya Samaj Road, K. Bagh, New Delhi.
Combined Traders.—Gandhi Motor Market, Kashmere Gate, Delhi.
Commercial Auto Stores.—Kashmere Gate, Delhi.
Continental Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.

CONTINENTAL & EASTERN AGENCIES.—Principal Distributors for Engine reconditioning Equipments, Service Station Equipments. 965, Hamilton Road, Delhi 6.

Conwest Private Ltd.—Lothian Road, Kashmere Gate, Delhi.

DOABA MOTOR STORES.—14, Gokhale Market, Delhi 6; Distributors, 14 Ply Bridgestone Tyres and Standard Vacuum Oil Co.

Daryaganj Auto-Master.—3478, Faiz Bazar, Delhi 7.
D. B. Dass & Sons.—Gandhi Motor Market, Kashmere Gate, Delhi.
Delhi Automobiles.—Queen's Road, Delhi.
Delhi Garage Pvt. Ltd.—M Block, Connaught Circus, New Delhi.
Delhi Motor Co.—Kashmere Gate, Delhi.
Development Industrial Corpn.—73, Ansari Market, Daryaganj, Delhi 7.
Diamond Industries.—2254, Fountain Road, Delhi.
Diesel Spares (India).—Patel M. Market, Kashmere Gate, Delhi 6.
Doaba Motor Stores.—14, Gokhale Market, Delhi.
Elofic Industries (India).—Queen's Road, Delhi.
Empire Automobiles.—27, Gokhale Market, Delhi.
Evergreen Automobiles.—2841, Hamilton Road, Kashmere Gate, Delhi.
Express Vulcanizing Works.—Queen's Road, Delhi.

FEDERAL AUTO STORES.—Kashmere Gate, Delhi. Leading Importers and Stockists of quality parts for European Vehicles.

Fine Auto Stores.—4719, Cloth Market, Queen's Road, Delhi.

FORWARD AUTOMOBILES.—Gandhi Motor Market, Kashmere Gate, Delhi 6; Specialists in Tata Mercedes Benz Parts and Accessories.

Friends Auto Corpn.—Nehru Motor Market, Kashmere Gate, Delhi.
Friends (M. & T.) Parts Supply Co.—Peareylal Motor Market, Kashmere Gate, Delhi.
Friends United Co.—11-12-12A, Bhagirath Place, Chandni Chowk, Delhi.
General Auto Parts Co.—2708/1, Lothian Road, Kashmere Gate, Delhi 6.
General Automobiles.—D 14, A/1, Model Town, Kashmere Gate, Delhi.
General Marketing Co.—984, Hamilton Road, Kashmere Gate, Delhi.
General Motor Stores.—Queen's Road, Delhi.
George Vint Bhalla (I) Ltd.—9/2, Delhi Ajmere Gate, Delhi.

GLOBE AUTO INDUSTRIES.—1500/1, Aziz Ganj, Bahadurgarh Road, Delhi 6. Manufacturers of Tail lights, Roof Lamps, Head Light Glasses, Rubber goods for Automobiles and oil Seals.

Globe Automobiles.—Queen's Road, Delhi.

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GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.
Globe Sales Corpn.—Gandhi Motor Market, Kashmere Gate, Delhi.
Goodwill Automobiles.—Ghandhi Motor Market, Kashmere Gate, Delhi.
Gosain Bros.—969, Hamilton Road, Kashmere Gate, Delhi.
Goyal Automobiles.—Queen's Road, Delhi.
Grand Motors.—Opp. Minerva Cinema, Kashmere Gate, Delhi.
Gupta Bros.—Church Road, P.B. No. 1163, Kashmere Gate, Delhi.
Gurbachan Singh & Sons.—43, Gokhale Market, Delhi 6.
Guru Nanak Motor Accessories.—Peareylal Motor Market, Delhi.
Hans Motors.—Gandhi Motor Market, Kashmere Gate, Delhi.
Hardayal Motor Stores.—Kashmere Gate, Delhi.

HARRISON MOTOR CO.—Kashmere Gate, Delhi-6, Specialist in Fiat, Hindustan & Morris Car Parts.
Hazari Motor Spring Corpn.—761, Queen's Road, Delhi.
Himalaya Auto Store.—Kashmere Gate, Delhi.
Himco (India) Pvt. Ltd.—1412, Nicholson Road, Delhi.
Hind Automobiles.—Kashmere Gate, Delhi.
Hindusthan Automobiles.—22, Gokhale Market, Delhi.

HONEST AUTO TRADERS.—Ram Singh Motor Market, Kashmere Gate, Delhi.

HOWRAH MOTOR CO. PRIVATE LTD.—P.B. No. 1319, Kashmere Gate, Delhi.
H.R. Sangar & Sons.—Peareylal Motor Market, Kashmere Gate, Delhi 6.
India Automobiles.—2710, Lothian Road, Kashmere Gate, Delhi.
Indian Auto Mfg. Co.—Hamilton Road, Delhi.
Indian Auto Supply Co.—73-B, Gokhale Market, Delhi 6.
Indian General Corpn.—Gandhi Motor Market, Kashmere Gate, Delhi.
Indo Trading Co.—Kashmere Gate, Delhi.
Indraprastha Traders.—Kashmere Gate, Delhi.

INTERNATIONAL AGENCIES.—1/1278, Sultan Singh Bldg., Kashmere Gate, Opp. Bus Stand, Delhi 6. Phone: 27759. Grams: "AGENCIES." Proprietor: Mr. K. L. Jain.
International Industries.—Opp. Gandhi Motor Market, Kashmere Gate, Delhi.
International Trades & Agencies.—(I) Mahalaxmi Market, Flat No. 6, Chandni Chowk, Delhi.
Jain Automobiles.—Kashmere Gate, Delhi.
Jain Motor Car Co.—Queen's Road, Delhi.
Jangpura Motor Stores.—131, Saman Bazar, Jangpura, New Delhi 14.
J. N. Motor Stores.—1630, Queen's Road, Delhi.
Jolly Auto Industries.—82, Gokhale Market, Delhi 6.
Jolly Automobiles Co.—2603, Hamilton Road, Kashmere Gate, Delhi.
J. S. Harlkishan Singh & Co.—2855-D, Hamilton Road, Kashmere Gate, Delhi.
Jullundur Motor Agency (Delhi) Pvt. Ltd.—Kashmere Gate, Delhi.

JUPITER MOTORS.—Kashmere Gate, Delhi 6. Garage Tools & Service Equipments.
Kamal & Co.(Jaipur) Pvt. Ltd.—Gandhi Motor Market, Kashmere Gate, Delhi.
Kapoor Motor Co.—Kashmere Gate, Delhi.
Kartar Automobiles.—Kashmere Gate, Delhi.
Kartar Singh & Co.—78, Church Road, Jangpura, New Delhi 14.
Kashmir Motors.—Queen's Road, Delhi.
Kashyap & Co.—12, Scindia House, New Delhi.
Katyal Auto & Gasket Corpn.—Queen's Road, Delhi.
Kaycee Motors.—Kashmere Gate, Delhi.

K. C. UPPAL & Co.—Direct Importers of Motor Parts & Accessories; Gandhi Motor Market, Kashmere Gate, Delhi.
Khalsa Auto Stores.—26-A.R.P. Motia Khan, Delhi.
Khalsa Traders.—7, Nasceem Bldg., Doriwalan, Shidipura, Delhi.
Khosla Automobiles Co.—14, Ramsingh Motor Market, Kashmere Gate, Delhi.
Kohinoor Motors.—Gandhi Motor Market, Kashmere Gate, Delhi.
Kohli Motor Store.—Hamilton Road, Kashmere Gate, Delhi.
Krishna Motor Cycle Co.—Kashmere Gate, Delhi 6.
K. S. Sahni & Co.—Gandhi Motor Market, Kashmere Gate, Delhi.
Kumar Motors.—1648, Queen's Road, Delhi 6.
Kundan Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.
Lakshmi Motor Co.—Queen's Road, Delhi.
Lakshmi Trading Agency.—Queen's Road, Delhi.
Leading Automobiles.—Kashmere Gate, Delhi.
Liberty Auto Stores.—1/998, Hamilton Road, Kashmere Gate, Delhi.
London Automobiles.—Kashmere Gate, Delhi.
Machine Tools Corpn.—Kashmere Gate, Delhi.
Mahabir Auto Agency.—Ram Singh Motor Market, Delhi.

MANOHAR MOTORS.—Kashmere Gate, Delhi.
Metro Auto Supply Co.—18, Gokhale Market, Delhi.
Midland Traders.—Kashmere Gate, Delhi.
Modern Automobiles.—Kashmere Gate, Delhi.
Modern Auto Stores.—Queen's Road, Delhi.
Modern Ball Bearing Co.—5, Ram Singh Motor Market, Delhi.

MODERN METAL WORKS.—Bhagat Singh Street, No. 1, opp. Police Station, Pahar Ganj, New Delhi 1; Manufacturers of Full Circle Tyre Resoling and Retreading Machines.
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Mohindra Motor Agency.—Kashmere Gate, Delhi.

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Motor Replacement Co.—Kashmere Gate, Delhi.
Motor Sales Co.—Gandhi Motor Market, Kashmere Gate, Delhi.
Narankari Automobiles.—Peareylal Motor Market, Kashmere Gate, Delhi.
Narula Motor Works.—Queen's Road, Delhi.
National Automobiles.—Kashmere Gate, Delhi.
National Motor Stores.—Queen's Road, Delhi.
Naveen Bharat Motor Stores.—Kashmere Gate, Delhi.
New Central Automobiles.—2600, Hamilton Road, Kashmere Gate, Delhi.
New India Motors P. Ltd.—Scindia House, New Delhi.
New Lakshmi Automobiles.—Kashmere Gate, Delhi.
New Standard Automobiles.—Queen's Road, Delhi.
Northern India Motor Co.—M/10, Connaught Circus, New Delhi.
O. K. Corporation.—Kashmere Gate, Delhi.
Onkar Automobiles.—Hamilton Road, Kashmere Gate, Delhi.
Orient General Agencies.—Hamilton Road, Kashmere Gate, Delhi.
Oriental Stores.—Kashmere Gate, Delhi.
Overseas Manufacturers Sales Co.—23, Rohtak Road, New Delhi.
Overseas Trading Corpn. P. Ltd.—Church Mission Road, Delhi 6.
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Parkash Automobiles.—Hamilton Road, Kashmere Gate, Delhi 6.
Parmodh Kumar Brothers P. Ltd.—106-108, Bhogal Road, Jangpura, New Delhi 14.
P. D. Gupta Pvt. Ltd.—Church Road, Kashmere Gate, Delhi.
Pearl Automobiles.—1801, Wazir Singh Street, Paharganj, New Delhi.
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Pioneer Motors.—35, Gokhale Market, Delhi.
Popular Automobiles.—995, Hamilton Road, Kashmere Gate, Delhi.
Power Tools & Appliances Co.—Kashmere Gate, Delhi.
Prabhat Motor Store.—Hamilton Road, Kashmere Gate, Delhi.
Prefect Motor Stores.—Nehru Motor Market, Kashmere Gate, Delhi 6.
Prem Motor Store.—Queen's Road, Delhi.
Premier Automobile Co.—Peareylal Market, Kashmere Gate, Delhi 6.
Premnath Motors P. Ltd.—Scindia House, New Delhi.
Prominent Motors (India).—708, Chhota Bazar, Kashmere Gate, Delhi.
P. R. Bhalla & Co.—16/1605, Hardhian Singh Road, Karol Bagh, Delhi.
P. S. Jain Motor Co. Pvt. Ltd.—Queen's Road, Delhi.
P. Sharan & Co.—Kashmere Gate, Delhi 6.
Punjab Auto Stores.—856, Queen's Road, Delhi.
Punjab Motor Store.—Queen's Road, Delhi.
Raghbir Singh Anokh Singh.—Motia Khan, New Delhi.
Raj Motors.—Gandhi Motor Market, Kashmere Gate, Delhi.

RAJDHANI MOTORS PRIVATE LTD.—Post Box No. 1567, Delhi 6.
Rajindar Nath Sekhri & Sons.—Church Road, Kashmere Gate, Delhi.
Rama Motor Stores.—Queen's Road, Delhi.
Raman Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.
Ramjidas & Sons.—Queen's Road, Delhi 6.
Rane Private Ltd.—Kashmere Gate, Delhi.
Rattan Motor Store.—Peareylal Motor Market, Kashmere Gate, Delhi.

RAVI MOTORS.—Gandhi Motor Market, Kashmere Gate, Delhi 6. Specialists in Jeep Military & Civilian Parts; Phone: 28057; Grams: "JEEPARTS."
Rawalpindi Automobiles.—1156, Bara Bazar, Kashmere Gate, Delhi 6.
Reliable Auto Stores.—24, Gokhale Market, Delhi.
Republic Auto Traders.—51, Gokhale Market, Delhi.
Rex Automobiles.—Peareylal Motor Market, Kashmere Gate, Delhi.
Royal Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.
Ruby Automobiles.—617, Hamilton Road, Kashmere Gate, Delhi 6.
Sabharwal Brothers.—992, Hamilton Road, Kashmere Gate, Delhi.
Sachdeva Brothers.—10-L, Connaught Circus, New Delhi.
Sahney Automobiles.—Gandhi Motor Market, Kashmere Gate, Delhi.
Saini Motor Co.—Ram Singh Motor Market, Kashmere Gate, Delhi.

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Sanghi Brothers P. Ltd.—52, Janpath, New Delhi.
Saran Motors P. Ltd.—Peareylal Bldg., Keeling Road, New Delhi.
Seth & Sons Pvt. Ltd.—Queen's Road, Delhi.
Sethi & Co.—Queen's Road, Delhi 6.
Sethi Rubber Co.—709, Chhota Bazar, Kashmere Gate, Delhi.
Sethi Welding & Radiator Works.—2762-64, Hamilton Road, Delhi.
Shiv Dayal Soin & Sons Pvt. Ltd.—Queen's Road, Delhi.
Sikand & Co.—50, Janpath, New Delhi.
Silverline Motors.—Nicholson Road, Delhi 6.

SIYARAM BROS.—Kashmere Gate, Delhi.

S. Krishna & Co.—Peareylal Motor Market, Kashmere Gate, Delhi.
S. N. Kohli & Co., Pvt. Ltd.—Kashmere Gate, Delhi.
S. Narinder Singh & Co.—18-B, Ansari Road, Delhi 7.
Sondhi Motors Pvt. Ltd.—Connaught Place, New Delhi.

SPEED & POWER CORPORATION.—25, Gokhale Market, Mori Gate, Delhi 6.

S. R. Auto Industries.—824/1, Chota Bazar, Kashmere Gate, Delhi 6.
S. Ranjit Singh Sahni.—4/32, Western Extn., Delhi.
Standard Auto Traders.—62, Back Side, Gokhale Market, Delhi 6.
Standard Automobiles.—Kashmere Gate, Delhi.
Standard Garage.—Ram Singh Motor Market, Kashmere Gate, Delhi.
Standard Sales Corporation.—Gandhi Motor Market, Kashmere Gate, Delhi.
Subash Motors.—Gandhi Motor Market, Kashmere Gate, Delhi 6.
Subash Spare Parts.—10, Faiz Bazar, Delhi 7.
Suraj Auto Stores.—Kashmere Gate, Delhi.
Supreme Auto Agency.—5, Gokhale Market, Delhi.
Supreme Motors P. Ltd.—Asaf Ali Road, New Delhi.
Swadesh Automobiles.—Kashmere Gate, Delhi.
Talwar Bearing Co.—1/633, Hamilton Road, Kashmere Gate, Delhi.
Tirath Singh Kohli & Sons.—1632, Queen's Road, Delhi.
Unique Automobiles.—30-Gokhale Market, Kashmere Gate, Delhi.
United Automobiles.—Queen's Road, Delhi.
United Trading Co.—Kashmere Gate, Delhi.
Universal Auto Traders.—Gandhi Motor Market, Kashmere Gate, Delhi.
Upper India Trading Co., Pvt. Ltd.—Kashmere Gate, Delhi.
Usa Steel Casting Industries.—21, Gokhale Market, Delhi.
Varma Trading Co.—Queen's Road, Delhi.
Vidya Parkash & Sons.—Kashmere Gate, Delhi.
Vir India Motor Co.—Kashmere Gate, Delhi.
Virendra & Co.—70, Todarmal Road, New Delhi.
Vohra Automobiles.—Patel Motor Market, Kashmere Gate, Delhi 6.
Wazir Singh & Sons.—Faiz Bazar, Delhi.
Western Automobiles (India).—Gandhi Motor Market, Kashmere Gate, Delhi.
Young India Auto Stores.—Queen's Road, Delhi.

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Banarsi Dass Ram Niwas.—Khari Baoli, Delhi.
Baru Mal & Co.—West Patel Nagar, Delhi.
Bharat Supply Co.—Khari Baoli, Delhi.
Bishan Swarup & Sons.—Naya Bans, Delhi.
Delhi Vanaspati Syndicate.—Khari Baoli, Delhi.
Harbans Lal Sanwar Lal.—Lahori Gate, Delhi.
Jattu Mal Kundan Lal.—Bhogal, Delhi.
Jugal Kishore Rameshwar Dass.—Khari Baoli, Delhi.
Kashmiri Lal Kapoor.—Gandhi Nagar, Delhi.
Kedar Nath Brij Mohan.—Lahori Gate, Delhi.
Lajji Mal Onkar Nath.—Naya Bans, Delhi.
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Ram Dayal Bhagwandas.—Khari Baoli, Delhi.
Ramdhan Ram Kishan.—G. B. Road, Delhi.
Rameshwar Dass Gopi Ram.—Khari Baoli, Delhi.
Ravinder Kumar & Co.—Khari Baoli, Delhi.
Sardari Mal Kundan Lal.—Naya Bans, Delhi.
Shri Ram Basheshar Nath.—Naya Bans, Delhi.
Sindh Oil Co.—Khari Baoli, Delhi.
Sita Ram Gupta & Co.—Ananj Mandi, Paharganj, Delhi.
Sukh Deo & Co.—Sadar Bazar, Delhi.

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Battery Separators P. Ltd.—Kashmere Gate, Delhi 6.
Battery Supplying Co.—20, Gokhale Market, Delhi 6.

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Amir Book Depot.—Nai Sarak, Delhi.
Amrit Book Depot.—Bombay Life Building, Connaught Circus, New Delhi.

ASIA PUBLISHING HOUSE.—Indra Palace, Connaught Circus, New Delhi 1.

Atma Ram & Sons.—Kashmere Gate, Delhi 6.

BAHRI BROTHERS.—Government Book-Sellers and Publishers, 243, Lajpat Rai Market, Delhi 6. Phone: 20797.

Beecham's Press Ltd.—M Block, M-6, Connaught Circus, New Delhi 1.
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Bhatia Book Depot.—Pahargunj, New Delhi.

BHAWNANI & SONS.—F. Block, Connaught Place, New Delhi 1. Booksellers, Stationers, Printers, Toys & Games. Phone: 47036.

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Dutt & Co.—A. Samaj Road, Kashmere Bagh, Delhi 5.
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Hindustan Kitab Ghar.—Esplanade Road, Delhi.
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Hindustan Chemical & Industrial Corpn.—Bajaj Bldg., D. B. Gupta Road, Paharganj, Delhi 1.
Hindustan Trust (P) Ltd.—68, Daryaganj, Delhi.
Indra Trade Agencies.—Connaught Circus, New Delhi.
Industrial Research Laboratories.—14, Mangal Bldg., Bhagirath Palace, Chandni Chowk, Delhi.
Jagjit Brothers.—Salam Bldg., Sadar Bazar, Delhi.
Jagson Pal (P) Ltd.—Raja Akbar Ali Bldg., B-Block, Con. Place, Delhi.
Jamna Das & Co.—Chandni Chowk, Delhi.
J. Mittra & Bros.—Bhagirath Palace, Chandni Chowk, Delhi.
Kaisons.—Chandni Chowk, Delhi.
Kanhyalal Ratan Lal.—Tilak Bazar, Khari Baoli, Delhi.
Kantilal R. Parekh.—Chandni Chowk, Delhi.
Kanwar Bhan & Sons.—Chandni Chowk, Delhi.
Kemp & Co. Ltd.—Kashmere Gate, Delhi.
K. Lall & Co.—Mangal Bldg., Bhagirath Palace, Chandni Chowk, Delhi.
K. Tirath & Co.—Behind State Bank of India, Chandni Chowk, Delhi.
Kumar Brothers.—Bhagirath Palace, Chandni Chowk, Delhi.
Medical Bureau.—Chandni Chowk, Delhi.
Medicine Traders.—Chandni Chowk, Delhi.
Medicura.—Bank St., Karol Bagh, Delhi 5.
Mittra Pharmacy.—Billimaran, Chandni Chowk, Delhi.
M. L. Chopra & Co.—10/B, Bhagirath Palace, Chandni Chowk, Delhi.
M. S. Lakshmi & Sons.—Chandni Chowk, Delhi.
Mohanco Homoeo Optical & Scientific Stores.—D. B. Gupta Road, Delhi 5.

MOTIHAR & CO. (AGENCY) (Sole Selling Agents—Kee Pharma—Bombay).—Bhagirath Palace, Jai Hind Bldg., Delhi 6.

Nand Lal Kohli & Sons.—Karol Bagh, New Delhi.
Narang Medicine Co.—Bhagirath Palace, Chandni Chowk, Delhi.
Narain Dass Bhagwan Dass.—Bhagirath Palace, Delhi.
National Pharmacy.—Bhagirath Palace, Chandni Chowk, Delhi.
National Trade Agency, 5.—Old Hudson Lines, Kingsway, Delhi.
Nayyar & Co.—16, Faiz Bazar, Delhi.
Nectrine Pharmacy.—Bhagirath Palace, Chandni Chowk, Delhi.
Northern Pharmaceutical Agencies.—Asaf Ali Road, New Delhi.
Oberoi Med. & Gen. Stores.—14A/22, W. E. A. Channa Market, Karol Bagh, Delhi 5.
Oriental Surgical Works.—Behind Bhagirath Palace, Chandni Chowk, Delhi.
Pesco.—2962, Gandanala, Mori Gate, Delhi.
Pharmaceutical Agencies.—Behind State Bank of India, Chandni Chowk, Delhi.
Pharmed (P) Ltd.—Mehta Bldg., Asaf Ali Road, New Delhi.

PIONEER CHEMICAL & BIOLOGICAL AGENCY.—Behind Bhagirath Palace, Chandni Chowk, Delhi 6.

Plomer & Co.—Kashmere, Gate, Delhi 6.
Popular Chemists.—2-3, Bengali Market, New Delhi.
Pritam & Co.—Bhagirath Palace, Chandni Chowk, Delhi.
Public Medical Stores.—Bank Street, Karol Bagh, New Delhi.
Punjab Drug House.—62, Punchkuin Road, New Delhi.
R. Chandra & Co.,—Mahalaxmi Market, Bhagirath Place, Delhi.
Radicura & Co.—Fatehpuri, Chandni Chowk, Delhi.
Rajaram & Co.—22A, Khan Market, Delhi 11.
Rama Medical Stores.—Shankar Market, Con. Place, New Delhi.
Reliance Surgical Emporium Mangal Bldg.—Bhagirath Palace, Delhi.
Ram Nath & Sons.—Tilak Bazar, Khari Baoli, Delhi.
Rameshwar Das Rattan Lal.—Bajaj Bldg., D. B. Gupta Road, Delhi 1.
Ratan Lal & Co.—Chandni Chowk, Delhi.
Ravison Pharmaceutical (I) Pvt. Ltd.—Asaf Ali Road, New Delhi.
Rose & Co.—Mori Gate, Delhi.
Sabharwal Medical Stores.—Bhagirath Place, Delhi.
Sandersons.—17-A, Khan Mkt., New Delhi.
Sales Promoters.—2190, Masjid Khajur, Delhi.
Satish & Co.—Chawri Bazar, Delhi.
Sawhney Brothers.—5-East Patel Nagar, New Delhi.
S. L. Bali & Sons.—Fatehpuri, Chandni Chowk, Delhi.
Sohan Lal & Sons.—Bhagirath Palace, Delhi.
Standard Pharmacy.—Bhagirath Palace, Delhi.
Subhash Trading Co.—Bhagirath Palace, Delhi.
Sukh Dayal Hanam Das.—Subzi Mandi, Delhi.
Swastik Pharmacy.—13/18, Afzal Khan Road, Delhi 5.
Twin Brothers.—Bhagirath Palace, Delhi.
Union Products Corporation.—Behind Bhagirath Palace, Delhi.
United Pharmacy.—55, P. Kuin Road, Delhi 1.
Universal Medicine Co.—Hauz Qazi, Delhi.

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V. Sharma & Co.—Bhagirath Palace, Delhi.
Vohra Medicines.—Mahalaxmi Mkt., Bhagirath Palace, Delhi.
Wadhawan Brothers.—Bhagirath Palace, Delhi.
Western Health Stores.—7A/5, Kanshiram Market, Delhi 5.
Yamuna Chemists.—Lodi Road, New Delhi.
Young Friends & Co.—Con. Place, New Delhi.

COLOUR MERCHANTS

DHINGRA BROTHERS.—Colours & Distempers Manufacturers, 154, Amrit Kaur Market, New Delhi.

CONCRETE VIBRATORS AND MIXERS

UNIVERSAL ENGINEERING CORPORATION.—Najafgarh Road, New Delhi 15; Manufacturers of Concrete Vibrators of all types e.g., Needle type, Screed board type, Pan type, Pneumatic type and Concrete Mixers of all sizes.

CONDUIT PIPES

G. F. R. Co.—Bara Hindu Rao Road, Delhi.

HINDUSTAN INDUSTRIES.—4031, Charkhewalan, Chawri Bazar, Delhi.

Kumar Bros., Sheet & Metal Works.—13, Hathi Khanna, Bahadurgarh Road, Delhi.
National Conduits Ltd.—Kashmere Gate, Delhi.

CONFECTIONERY MFRS. & DEALERS

Ahuja Brothers.—Gondhi Wali Gate, Fatehpuri Masjid, Delhi.
B. R. Prakash Confectionery Works.—Katra Bariyan, Delhi.
Calcutta Confectionery Works.—Mohalla Dhotram, Farash Khana, Delhi.
Cheap Biscuit Manufacturing Co.—Lajpat Rai Market, Delhi.
Delhi Biscuit Co., Ltd.—Ram Bagh Road, Delhi.
Fancy Biscuit Co.—Subzi Mandi, Delhi.
Gupta Biscuit Factory.—Kingsway Camp, Delhi.
Hindustan Confectionery Works.—Lal Kuan, Delhi.
National Peppermint Products.—Original Road, Paharganj, New Delhi.
Punjab Biscuit Factory.—Bahadurgarh Road, Delhi.
Punjab Confectionery Works.—Motia Khan, Delhi.
Reliance Confectionery Works.—Bazar Churiwalan, Delhi.
Shakti Confectionery Works.—Phatak Habash Khan, Delhi.
Sunlight Confectionery Works.—Roshanara Road, Delhi.

CONVEYOR BELTS

WESTERN MANUFACTURING CO. (DELHI) PRIVATE LTD.—57, Jor Bagh, New Delhi 3; Manufacturers of Belt Conveyors and Conveyor accessories; Sole Agent for the Indian Union of: BTR Industries Ltd., Herga House, Vincent Square, London S.W. 1.

COSMETIC MANUFACTURERS

Calcutta Perfumery Works.—Chandni Chowk, Delhi.
Chamba Perfumery Co.—Bartan Bazar, Sadar Bazar, Delhi 6.
Dulax Mfg. Corpn.—Block 15-K, Shorakothi, Subzimandi, Delhi 6.
Frontier Perfumery Works.—Bartan Market, Sadar Bazar, Delhi 6.

KASHMIR PERFUMERY WORKS.—Qutab Road, Delhi 6.

Neeco Perfumery Works.—Vishnu Bazar, Cloth Market, Delhi 6.
Selco Chemical.—3, Jailal Bldg., Paharganj Lane, New Delhi.
Sham Perfumery Works.—37, Rajunder Market, Tis Hazari, Delhi.
Veena Perfumery Co.—Fatehpuri, Delhi 6.

CROCKERY

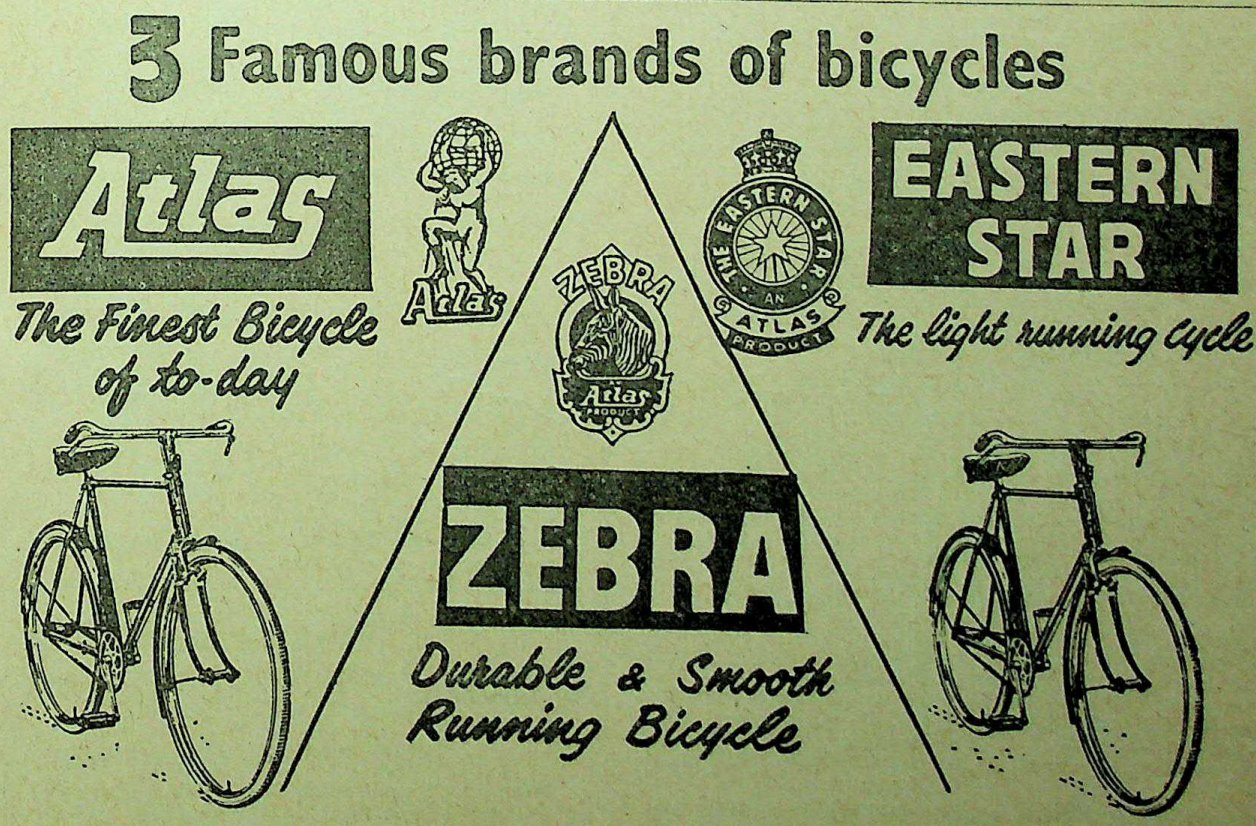
BAWA GLASS & CROCKERIES PRIVATE LTD.—Chandni Chowk, Delhi 6.

CYCLE & CYCLE ACCESSORIES MFRS., DEALERS AND IMPORTERS

Accurate Cycle Industries.—284, New Lajpat Rai Market, Delhi.
Ahuja Cycle Mart.—Esplanade Road, Delhi.
Airfly Cycle Industries.—New Lajpat Rai Market, Delhi.
A. K. Cycle Industries.—84, Chandni Chowk, Delhi 6.
Armour Cycle Industries.—47, Ram Nagar, Delhi 1.

ASHOKA TRADING CO.—392, Esplanade Road, Delhi 6.

Associated Agencies.—George Bldg., Qutab Road, Delhi 6.
Atlas Cycle Industries.—Sonepat, Near Delhi.



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Bal Cycle Stores.—465, Esplanade Road, Delhi 6.

BANSILAL & CO.—359, New Lajpat Rai Market, Esplanade Road, Delhi 6.

Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
Bhai Dipchand & Sons.—24, Esplanade Road, Delhi 6.
Bhalla Cycle Co.—Esplanade Road, Delhi.
Bhandari & Bros.—B. N., Esplanade Road, Delhi 6.
Bhatia Bros.—54, Esplanade Road, Delhi 6.
Bhatia & Co.—20, Esplanade Road, Delhi 6.
Bindra Cycle Co.—7A, Esplanade Road, Delhi 6.
Bombay & Calcutta Cycle Co.—278, Esplanade Road, Delhi.
Champion Industries (India), 46/47, Esplanade Road, Delhi 6.
Chopra Industries.—Katra Burhaihan, Delhi.
Chuni Lal & Co.—470, Esplanade Road, Delhi 6.
C. L. Sachdev & Co.—Esplanade Road, Delhi 6.
Continental Cycle Importing Co.—Esplanade Road, Delhi.
Cycle & Gramophone Stores.—47, Esplanade Road, Delhi 6.
Dass & Co.—26, Esplanade Road, Delhi 6.
Delhi Cycle Importing Co.—272, Esplanade Road, Delhi 6.
Delhi Motor & Cycle Co.—48, Queensway, New Delhi.
Desh Brothers.—Esplanade Road, Delhi 6.
Elite Cycle Industries.—57, Amrit Kaur Market, Paharganj, New Delhi.
Goricke Cycle Agency.—479, Esplanade Road, Delhi 6.
H. D. Kapoor & Sons.—3556, Qutab Road, Delhi 6.
H. P. Bhalla & Co.—Esplanade Road, Delhi 6.
H. R. Bhalla & Sons.—Netaji Subhas Marg, Delhi 6.
H. S. Ahuja & Co.—10 Gurdwara Road, Delhi 5.
Hans Raj & Sons.—28, Esplanade Road, Delhi 6.
Hansraj Gupta & Co. P. Ltd.—69, Chawri Bazar, Delhi.
Hemchand & Sons.—Jama Masjid Area, Delhi.
Hindustan Cycle Accessories Mfg. Co.—12, Fort View Hotel, Esplanade Road, Delhi 6.
Imperial Cycle Mart.—Esplanade Road, Delhi.
Imperial Cycle & Motor Co.—Fountain Area, Chandni Chowk, Delhi.
Indian Cycle & Wire Industries Co. Ltd.—9, Esplanade Road, Delhi.

INDIAN TRADING CORPORATION.—23-B, Pleasure Garden Market, Chandni Chowk, Delhi 6; Manufacturers of famous 'ITCO' Cycle and Auto Parts.

INDOMEX & CO.—P.O. Box 1615, New Lajpat Rai Market, Chandni Chowk, Delhi 6.

Jagat Ram & Sons.—Qutab Road, Delhi 6.
Jankidas & Co.—23F, Connaught Place, New Delhi.
Janta Industries.—Ansari Road, Daryaganj, Delhi 7.
Jaranwala Electric & Cycle Works.—Esplanade Road, Delhi 6.
Jiwanlal & Co.—Dariba Kurd, Chandni Chowk, Pharutawali Gali, Delhi.
Kailash Stores.—Punchquin Road, Bhagirath Malls Building, New Delhi.
Kalaso & Co., P. D.—47, Chandni Chowk, Delhi 6.
Kalian Singh Nayar & Sons.—Ara Kashan Road, Ram Nagar, Delhi 1.
Kanshal Cycle Trading Co.—Esplanade Road, Delhi.
Kapur Brothers.—Behind State Bank, Chandni Chowk, Delhi.
Karam Chand & Sons.—355, N. Lajpat Rai Market, Delhi 6.
Kathuria Brothers.—33, Esplanade Road, Delhi 6.
Khanna Cycle Co.—Raj Guru Road, Paharganj, New Delhi.
Kohli Brothers.—Esplanade Road, Delhi.
Khyber Cycle Mart.—Esplanade Road, Delhi.
Krishna & Co.—19, Esplanade Road, Delhi 6.
Krishna Padcover Industries.—783/7, Gandhi Nagar, Delhi.
Kumar Cycle Works.—Esplanade Road, Delhi.
Malhotra Bros.—Esplanade Road, Delhi 6.
Matchless Industries of India, 8/A, Esplanade Road, Delhi 6.
Mehta Motor and Cycle Works.—407, Esplanade Road, Delhi.
Metro Cycle Co.—21A, Esplanade Road, Delhi 6.
M. R. Malhotra & Co. of Jhelum.—Fountain Area, Chandni Chowk, Delhi.
Munjal Brothers.—Esplanade Road, Delhi.
N. M. Kishan & Co.—Esplanade Road, Delhi 6.
Narayan Behari & Co.—696, Nanghara, Kinari Bazar, Delhi 6.
National Cycle & Motor Co.—21, Esplanade Road, Delhi 6.
National Cycle Co.—Subzi Mandi, Delhi.
National Cycle Mart.—Esplanade Road, Delhi.
National Cycle Works.—Esplanade Road, Delhi.
Navrang Trading Corpn.—New Lajpat Rai Market, Delhi.

NAWAL KISHORE & SON.—9, Esplanade Road, Delhi; Importers & Exporters of Cycle Parts and Machines to Manufacture cycle. Phone: 20746; Grams: "NAWALSON." Prop.: J. S. Jain.

NAWALSON INDUSTRIES.—Najafgarh Road, New Delhi 15; Manufacturers of Railton Brand Complete Bicycle, Cycle & Motorcycle Spokes, Nipples and Washers; Complete Machinery for the Manufacture of Spokes & Nipples. Phone: 54280; Grams: "NAWLSON." Prop.: R. D. Jain.

NEW CAPITAL TRADERS.—1/E/1893, Chandni Chowk, Opp. Dariba Kalan, Delhi 6.

New Delhi Cycle Mart.—Connaught Place, New Delhi.
New Era Engineering Co.—26, D.L.F. Indtl. Coly., Najafgarh Road, New Delhi 15.
Northern India Cycle Agency.—1477, Chandni Chowk, Delhi 6.
N. Kishore & Co.—Esplanade Road, Delhi 6.
Oras Industries.—690, Fatehpuri, Delhi.
Oriental Industries Corpn.—XV-10-59, Original Road, Delhi 6.
Paramount Industries Corpn.—Radio Colony, Delhi.
Pearl Cycle Industries Ltd.—11/3, Asaf Ali Road, New Delhi.
Pindi Cycle Agency.—Esplanade Road, Delhi.
Plaza Industries.—Lajpat Rai Market, Delhi.
Premier Industries.—New Lajpat Rai Market, Delhi.
Puri Brothers.—498, Bulaqi Begum, Esplanade Road, Delhi 6.
Punjab Cycle Parts Co.—18, Esplanade Road, Delhi 6.
Racmann Koshatkinn Ltd.—3429, Hakim Baqa Street, Hauz Qazi, Delhi.
Rajdhani Traders.—New Lajpat Rai Market, Delhi.
Rama Cycle Stores.—Ram Dawara Road, Pahargunj, New Delhi.
Ram Eashwar & Co.—11, Esplanade Road, Delhi 6.
Ramji Dass Sharma & Bros.—Qutab Road, Delhi 6.
Ram Kumar & Co.—27A, Esplanade Road, Delhi 6.
Republic Cycle Industries.—17/19, N. Rohtak Road, Delhi 5.
Royal Cycle Industries.—Esplanade Road, Delhi.
Ruby Cycle & Accessories Mfg. Co.—36, D.L.F. Indtl. Area, Najafgarh Road, New Delhi 15.
S. S. Cycle Industries.—69, Najafgarh Road, New Delhi 15.
Sardar Cycle & Motor Co.—Chandni Chowk, Delhi 6.
Satish Cycle Industries.—Kucha Bulaqi Begum, Delhi.
Sethi & Co.—Queen's Road, Nahar Sadat Khan, Delhi.
Sham Lal & Sons.—33B, Pleasure Garden Market, Delhi 6.
Shankerlal & Sons P. Ltd.—487, Esplanade Road, Delhi 6.
Sharma Motor Cycle Co.—Hamilton Road, Delhi.
Simplex Trading Corpn.—25, Esplanade Road, Delhi 6.
S. S. Trading Corpn.—Lajpat Rai Market, Delhi.
Star Cycle Co.—2737, W. Patel Nagar, New Delhi 12.
Surisons Industries.—Esplanade Road, Delhi.
T. C. Khosla & Co.—Esplanade Road, Delhi.
T. I. Cycles of India Ltd.—9-10/3, Asaf Ali Road, New Delhi.
United Traders.—Esplanade Road, Delhi.
Universal Cycle Industry.—24, Industrial Estate, Okhla, New Delhi 19.
Usha Cycle Industries.—Lajpat Rai Market, Delhi.
Venus Cycle Industries, M. M. Road, New Delhi.
Virmani Cycle House.—Clock Tower, S. Mandi, Delhi 6.
Vijay Traders.—533/39 Esplanade Road, Delhi.
Vohra Cycle Industries.—New Lajpat Rai Market, Delhi.

WEARWELL CYCLE CO. (I) LTD.—46M, Connaught Circus, New Delhi.

Zenith Cycle Industries, 9, Faiz Bazar, Delhi 7.

DAIRIES

Delhi Milk Supply Co. Ltd.—22, K. Block, Connaught Place, New Delhi.
Edward Keventer Ltd.—Kitchener Road, New Delhi 2.
Express Dairy Farm.—N. Block, Connaught Place, New Delhi.
Gandhi Dairy Farm.—2F, Jangpura Extn., New Delhi 13.
Health Dairy.—Connaught Place, New Delhi.
Milk Dairy.—Delhi Cantt.
New Royal Dairy.—Daryaganj, Delhi 7.
Rama Dairy.—Ramnagar, New Delhi 1.
Reading Dairy Farm.—Fatehpuri, Delhi 6.
Seth Dairy.—2868, Hamilton Road, Delhi.
Sovereign Store & Dairies.—15A, Sundernagar, New Delhi 1.
Union Dairy.—97, Baird Road, New Delhi.
United Dairies Ltd.—N. Block, Connaught Circus, New Delhi.

DAIRY MACHINERIES

GARDNERS CORPORATION.—25/90, Connaught Circus, New Delhi.

DIESEL ENGINES & SPARE PARTS

Machines & Spares (India) Ltd.—73, G. B. Road, Delhi.
Nav Bharat Engineering Co.—110, Naya Bazar, Delhi 6.

SHIV NARAIN SAWHNEY.—53, Japan Building, (5407-8) G.B. Road, Delhi 6; Dealers in Siemens Bhagath-Bijlee Electric Motors and Diesel Engines, etc.

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DYES & CHEMICALS DEALERS

AMAR DYESTUFFS CO.—Selling Agents, The Atul Products Ltd., Bulsar, The Anil Starch Products Ltd., Ahmedabad (Dyes, Chemicals & Starches), 186, Tilak Bazar, Delhi.

Ambapershad Jadavji & Co.—Tobacco Katra, Delhi.
Amritlal & Co., (P) Ltd.—Jamna Bldg., D. A. G. Extension, Delhi.
Anant Bhandar.—Tilak Bazar, Delhi.
Bakhtawarmal Ramkishen Dass.—Tobacco Katra, Delhi 6.
Banwarilal Moolchand.—Tilak Bazar, Delhi.
Bhagwanlal Tejaji Kharawala & Co.—Katra Ishwar Bhawan, Delhi.
Bhatia Colour Co.—Tilak Bazar, Delhi.
Bombay Trading Co.—Tilak Bazar, Delhi.
Chandra Bhan Dwarkadas.—Tis Hazari, Delhi.
Chimanlal M. Shah.—Tilak Bazar, Delhi.
Chunilal & Sons.—Tilak Bazar, Delhi.
D. B. Kapoor & Co.—Tilak Bazar, Delhi.

D. BAGGA & CO.—Tilak Bazar, Delhi 6; The House to buy & Sell Dyes for you in Delhi.

DIWAN CHAND SAHANI & SONS.—2186, Hinga Beg Street, Tilak Bazar, Delhi 6.

Dwarkadas Laxminarain.—Tobacco Katra, Delhi.
Gulabrai Keshoram & Co.—Katra Ishwar Bhawan, Delhi.
Harbhagwan Rangwala.—Tobacco Katra, Delhi.
Harjimal Ramdas.—Tilak Bazar, Delhi.
Harshad & Co.—Katra Lachhusingh, Fountain, Delhi.
Hind Dyes Sales Corporation.—Tobacco Katra, Delhi.
Jagannath Rangwala.—Tilak Bazar, Delhi.
Jagdamba Industrial Corporation.—Tobacco Katra, Delhi.
Kanihyalal Omperkash.—Tilak Bazar, Delhi.
Khatau Vallabhdas & Co.—Tobacco Katra, Delhi.
Krishna Colour Co.—Tilak Bazar, Delhi.
Nathumal Desraj.—Tobacco Katra, Delhi.
National Colour Co.—Tilak Bazar, Delhi.

NORTHERN INDIAN COLOUR CO.—Selling Agents—Atul Products Ltd., for Punjab & U.P.; Cloth Market, Delhi.

Omperkash & Sons.—Tilak Bazar, Delhi.
Ramdhan & Sons.—Tilak Bazar, Delhi.
Ratilal Naraindas Gami.—Tobacco Katra, Delhi.
Salekchand Balak Ram.—Sadar Bazar, Delhi.
Shuganchand Murarilal.—Tobacco Katra, Delhi.
Sindh Colour Mart.—Sadar Bazar, Delhi.
S. S. Jain & Co. Pvt. Ltd.—Tilak Bazar, Delhi.

TRIVEDI & CO.—Kashmiri Gate, Delhi 6; Dealers in German Dyes, heavy chemicals and Electrical goods.

Union Products Corporation.—1704, Yogdhyan Colony, Chandni Chowk, Delhi 6.
V. W. Khataley & Sons.—Naya Bazar, Delhi.

DYE-STUFF MANUFACTURERS

Anant Chemical Industries.—Tilak Bazar, Delhi 6.
Bhatia Industries.—Tilak Bazar, Delhi 6.
Ciba Dyes P. Ltd.—D.A.G. Extension, New Delhi.
Jagdamba Industrial Corporation.—Tobacco Katra, Delhi 6.
National Chemical Industries.—26, Najafgarh Road, New Delhi.
Sukhanand Shankerlal Jain & Co. P. Ltd.—Tilak Bazar, Delhi 6.

ELECTRIC EQUIPMENTS AND INSTRUMENTS

UDAY ELECTRICAL EQUIPMENT CO.—Post Box No. 200, K. Block, Connaught Circus, New Delhi. Sole Agents for: Best Products Ltd., Ranelagh House, Felixstowe, Suffolk (England); Berry's Electric Ltd., Newman Street, London W.1 (England); Process Control Gear Ltd., Lattimore Road, St. Albans, Hertfordshire (England); Eberle & Co. Elektro G.M.B.H. Oedenberger Strabe 65, Nurnberg 30 (West Germany); Burger Eisenwerke A.G., Burg Dillkreis (West Germany); Schott, Elektro-Warme K.G. Langenhagen-Hannover (West Germany); Solis Apparatus-Manufactories Ltd., Stussistrasse 48-52, Zurich-6/42 (Switzerland); E.G.O. Elektro-Gerate Blanc u.Fischer, (14a) Oberderdingen/Wortt (West Germany); Dr. Stiebel Werke G.M.B.H., (20b) Holzminden/Weser (West Germany).

ELECTRIC FANS

Central India Electric Works.—Ajmalkhan Road, Karolbagh, New Delhi 5.
Ditz Electricals (India) Ltd.—Roopnagar, Subzimandi, Delhi.
Empire Industries.—Roopnagar, Subzimandi, Delhi.
General Engineering & Electrical Works., Ltd.—Delhi-Shahdara.
Hansraj Gupta & Co. Pvt. Ltd.—69, Chawri Bazar, Delhi.
Kassels Ltd.—Subzimandi, Delhi 6.

MATCHWEL ELECTRICALS (INDIA) LTD.—Ramjas Building, 4/11, Asaf Ali Road, Post Box No. 156, New Delhi; Manufacturers of all types of famous low consumption M.E.I. Kassels 'Air Master' A.C. Ceiling fans, Table, Cabin, Pedestal Fans and Air Circulators.

Raghu Engineering Works, Ltd.—5, Daryaganj, Delhi.
Rampur Engineering Works Ltd.—69, Chawri Bazar, Delhi 6.

ELECTRIC HEATING ELEMENTS

UDAY ELECTRICAL EQUIPMENT CO.—Post Box No. 200, K. Block, Connaught Circus, New Delhi. Sole Agents for: Best Products Ltd., Ranelagh House, Felixstowe, Suffolk (England); Dr. Stiebel Werke G.M.B.H., (20b) Holzminden/Weser, (West Germany).

ELECTRIC MOTORS

GAUTAM ELECTRIC MOTORS PRIVATE LTD.—Manufacturers of A.C. Electric Motors from Fractional to 50 HP; 42, Okhla Industrial Estate, New Delhi 20.

ELECTRIC THERMOSTATS

UDAY ELECTRICAL EQUIPMENT CO.—Post Box No. 200, K. Block, Connaught Circus, New Delhi. Sole Agents for: E.G.O. Elektro-Gerate Blanc u. Fischer, (14a) Oberderdingen/Wortt, (West Germany); Eberle & Co. Elektro G.M.B.H., Oedenberger Strabe 65, Nurnberg 30 (West Germany); Process Control Gear Ltd., Lattimore Road, St. Albans Hertfordshire (England).

ELECTRICAL AND MECHANICAL ENGINEERS AND CONTRACTORS

Acme Electric Co.—24, Prem House, Connaught Place, New Delhi.
A. N. Ramji Dass & Co.—7/36, Daryaganj, Delhi 6.
Agarwal Traders.—2304, Tram Terminus, Subzimandi, Delhi 6.
Aggarwal Electric Works.—3337, Bank St., Karol Bagh, Delhi 5.
Allianz Elec. & Radio Co.—Chandni Chowk, Delhi 6.
Arora Electric Co.—209, Dariba Kalan, Delhi 6.
Associated Electrical Industries India Pvt. Ltd.—United India Bldg., Connaught Place, New Delhi.
B. Datt & Sons.—4356, Main Bazar, Paharganj, New Delhi 1.
B. Pannalal P. Ltd.—13/14, Asaf Ali Road, New Delhi 1.
Balbir Bros., H. S.—A-14, Partap Bagh, Delhi 6.
Balmer Lawrie & Co. Ltd.—1/5-B, Asaf Ali Road, New Delhi.
Banarsi Dass Engg. Co.—4124, Naya Bazar, Delhi 6.
Basant Pran & Co.—6, East S. Thana Road, Delhi 6.
Best Electric Co.—Connaught Circus, New Delhi 1.

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Bhagwan Singh & Sons.—Connaught Place, New Delhi 1.
Bhalla Electric Co.—Palvarganj, New Delhi.
Bhim Sain Sapra & Sons.—7728, New Market, Karol Bagh, Delhi 5.
Bhushan Brothers.—Krishna Niwas, S. Thana Road, Delhi 6.
Brady, W. H. & Co., Ltd.—Indra Palace, Connaught Circus, New Delhi.
C. R. E. Wood & Co. Ltd.—3/13B, Asaf Ali Road, New Delhi 1.

CENTRAL ELECTRIC STORES.—298, Dariba Kalan, Delhi 6.

Central India Electric Works.—Jawahar Nagar, Delhi 6.
Champion Electric Engg. Works.—Chandni Chowk, Delhi 6.
Commercial Electric Works.—Chandni Chowk, Delhi.
Continental Electric & Radio House.—17, E. Patel Nagar Market, New Delhi 12.
Dass & Co.—Chandni Chowk, Delhi 6.
Eastern Electric & Trading Co.—17E, Connaught Place, New Delhi 1.
Electrical Equipment Co.—113, G. Links, New Delhi 3.
Electrical Machines Corpn. Ltd.—4/11, Asaf Ali Road, New Delhi 1.
Electric Trading Co. P. Ltd.—1831, Chandni Chowk, Delhi 6.
Empire Electric Engineering Works.—73, New Central Market, Delhi 1.
Expert Electric & Radio Co.—Chandni Chowk, Delhi 6.
F. & C. Osler (India) Ltd.—Scindia House, Queensway, New Delhi.
Friends & Co.—959, Kucha Ruhalla Khan, Daryaganj, Delhi 6.
G. E. C. (India) Pvt. Ltd.—Connaught House, Connaught Place, New Delhi.
G. D. Seigell & Co. P. Ltd.—Church Road, Kashmere Gate, Delhi 6.

GENERAL ELECTRIC WORKS.—17, Faiz Bazar, Delhi 7.

Globe Engineering Corpn.—1697, A. Samaj Road, Karol Bagh, Delhi 5.
Gupta Electric Co.—4/1, Regal Bldgs., New Delhi 1.
Havell's Electrical (Sales) Corpn.—1/21, Asaf Ali Road, New Delhi.
The Indian Cable Co., Ltd.—9-A, Connaught Place, New Delhi.
Indian Trading Co. P. Ltd.—1903, Chandni Chowk, Delhi 6.
Jacksons & Co.—29, Kamal Market, Delhi 6.
Jindal & Sons P. Ltd.—9B, Asaf Ali Road, New Delhi.
Joti Sarup Goela & Son.—15-L, Connaught Circus, New Delhi.
Kanwar Refrigerators (India).—M45/1, Connaught Circus, New Delhi 1.

KAYDEE ELECTRIC TRADING CO.—Nicholson Road, Delhi 6. Phone: 27640; Grams: "KETCO-DELHI"; Approved Suppliers of all kinds of Electrical and Hardware goods; Specialists in Porcelain High Tension and Low Tension Insulators.

Kehar Singh & Sons.—21-A, Connaught Place, New Delhi 1.
Matchwel Electricals (India) Ltd.—Ramjas Building, 4/11, Asaf Ali Road, P.O. Box No. 156, New Delhi.
Mechelec Suppliers.—A-14/3, Asaf Ali Road, New Delhi 1.
Metro Electric & Radio Corpn.—12-A, Khan Market, New Delhi 11.
Metro Electric Co.—3, Park View, Karol Bagh, Delhi 5.
Modi & Co.—Dariba Kalan, Delhi 6.
Moti Electric Industries.—15A, Najafgarh Road, New Delhi 15.
Motwane P. Ltd.—68, Janpath, New Delhi 1.
National Conduits P. Ltd.—Kashmere Gate, Delhi 6.
Oriental Radio & Electric Stores.—17-C, Connaught Place, Post Box No. 103, New Delhi.
Oriental Radio Corpn.—8, Pusa Road, New Delhi 5.
Paragon Electric Co.—6/90, Connaught Circus, New Delhi 1.
Parkash Electricals.—91H, Connaught Circus, New Delhi 1.
Partap Chand & Co.—14A/41, W.E.A., New Delhi 5.
Paul Radio & Electric Corporation.—132, Sadar Bazar, Delhi 6.

PREM BROTHERS.—Electrical Engineers, 73, G. B. Road, Delhi 6. Manufacturers of 'Power Master' Motorised Double Ended Grinders & Polishers.

Prem Electric Co.—Chowk Multani Dhanda, Paharganj, Delhi 1.
Rampur Engg. Co. Ltd.—Ajmeri Gate, Delhi 6.
S. K. Singh & Co.—25/41A, Connaught. Place, New Delhi.
Sachdev Bros.—10L, Connaught Circus, New Delhi 1.
Shalamar Electric Co.—Chandni Chowk, Delhi 6.

SHARMA SHARMA & SONS.—Naya Bazar, Delhi 6.

Shree Nursingsahay Mudan Gopal Electric Co. P. Ltd.—Behind Kumar Talkies, Chandni Chowk, Delhi 6.
Sohanson Electric Co.—1072, Patharwala Kuan, Karol Bagh, Delhi 5.
Standard Electric Trading Co.—Chandni Chowk, Delhi 6.
Standard Radio & Elec. Co.—Opp. Scindia House, Connaught Circus, New Delhi 1.
Sterling Electrical Traders Corpn. P. Ltd.—1/8B, Jindal Trust Bldg., Asaf Ali Road, New Delhi 1.
Superior Electric Co.—17, Netaji Subhash Marg, Delhi 6.
Swastik Cables.—2545, Tiraha Behram Khan, Delhi 6.
Teleflute Radio Electronics.—4/19, E. Patel Nagar, New Delhi 12.
Television Radio Elec. Co.—Main Bazar, Paharganj, New Delhi 1.
Tranga Engg. Works.—K. 156, Lajpat Rai Market, Delhi 6.
United Electric & Radio Co.—Chandni Chowk, Delhi 6.
Ved Brothers.—5/67, W.E.A., New Delhi 5.
Vir Bharat Electric Co.—38, Paharganj Lane, New Delhi 1.
Vishu Karma Elec. Co.—9, Tropical Bldgs., Connaught Circus, New Delhi 1.
Watta Electronics.—265, Kamal Market, Delhi 1.

ELECTRICAL GOODS & APPLIANCES

Aerco.—Behind Khanna Talkies, Paharganj, New Delhi.

ALLIANZ ELECTRIC & RADIO CO.—Chandni Chowk, Delhi 6. Specialists in Insulating Materials, Conduit Pipes and Accessories, Armature Wires, Rekofa German Carbons, Plates and Brushes, Bakelite and Fabric Sheets, Varnished Cambric cloth, Tape and Mica Products.

Allied Agencies.—1339, Pahari Imli, Delhi.
Amar Singh & Co.—116, Bhagat Singh Market, New Delhi.
Ambassador Electric Co.—3911, Chowk Kasseroowala, Paharganj, New Delhi.
Bajaj Electricals P. Ltd.—10/1, Asaf Ali Road, New Delhi
Bhagwan Singh & Sons.—20-C, Connaught Place, New Delhi.
Boota Singh & Brothers.—31, Panchkuin Road, New Delhi.
British Insulated Callender's Cables Ltd.—Connaught Circus, New Delhi.
B. S. Virdhi Electric Works.—1, Ravi Nagar, New Delhi 18.
C. A. Sumair & Co.—G. T. Road, Azadpur, Delhi.
Central India Electric Works.—Ajmal Khan Road, New Delhi 5.

CHOPRA & CO.—Behind Reserve Bank, Chandni Chowk, Delhi 6; Dealers of Switch-gears, Starters, Instruments & Cinema Carbons.

Continental Electric & Radio House.—17, East Patel Nagar Market, New Delhi.

D. C. KRISHNA & CO.—1563-A, Isvar Nivas, Behind State Bank, Chandni Chowk, Delhi; Specialists in Winding Wires, Insulating Materials, Distributors: Henley's G.E.C., I.C.C. Nicco.

Empire Electric & Engineering Works.—73, Shanker Market, New Delhi.
Gautam Electric Motors P. Ltd.—42, Okhla Industrial Estate, New Delhi 20.

GENERAL ELECTRIC WORKS.—17, Netaji Subhas Marg, Darya Ganj, Delhi 6.

Hardit Singh & Co.—152, Panchkuin Road, New Delhi.
Hitakri Bros. of Delhi.—9, Faiz Bazar, Delhi 7.
Janta Electric Works.—Mohalla Mantola, XV/978, Gali Kumharan, Paharganj, New Delhi.
Kundal Lal & Brothers.—Asaf Ali Road, New Delhi.
Laro Engineering Co.—6-A, Connaught Place, New Delhi.
Maha Maya Electric Co.—1681/33, Mangal Market, Chandni Chowk, Delhi 6.
Mapas & Co.—H/35, Connaught Circus, New Delhi.
Metro Electric Co.—Paharganj Lane, Krishna Market, New Delhi.
M. T. Electric Co.—Chuna Mandi, Paharganj, Delhi.
Nagi Electric Works.—2690, Multani Danda, Paharganj, New Delhi.
Oriental Radio & Electric Stores.—17C, Prem House, Connaught Circus, New Delhi.

ORIENTAL RADIO CORPORATION.—12/4, Asaf Ali Road, New Delhi.

Paragon Electric Co.—6/90, Connaught Circus, New Delhi.
Patni Electric Co.—Flat No. 27A, Shanker Market, New Delhi.
Popular Electric Works.—19, Municipal Market, Connaught Circus, New Delhi.
Ram Electric Works.—290, Jheel Kuranjia, Gandhinagar, Delhi.
Saney Electric Co.—984, Shivaji Street, Karolbagh, New Delhi.
Sardul Singh & Sons.—T-19, I. N. A. Colony, Meherauli Road, New Delhi 3.
Sigma Electric Works.—Sadar Bazar, Delhi.
Sokhi Electric Works.—2691, Multani Dhanda, Paharganj, New Delhi.
S. S. Sodhey Electric Works.—13, Krishna Market, Paharganj, New Delhi.
S. Wahid Ali & Sons.—Bara Dara Dari, Ballimaran, Delhi.
Vir Bharat Electric Co.—Paharganj Lane, Krishna Market, New Delhi.
Virdi & Co.—1882, Chuna Mandi, Paharganj, New Delhi.

ELECTRICAL TRADERS

Electrical Market, Behind State Bank, Chandni Chowk, Delhi 6.

Abinash Radio & Electric Corporation.
Amar Electric Company.
Ashoka Electricals.
Associated Radio & Electric Company.
Attar Chand & Co.
Avon Electric Company.
Balak Ram Banarsi Dass.
Basant Parkash Electric Company.

BOMBAY ELECTRIC STORE.—Bhagirath Palace, Chandni Chowk, Delhi 6. Wholesale Dealers, Sole Distributors for "Swadeep" & "BESTEST" Products.

Bombay Electric & Radio Corporation.
Capital Electric Company.

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Chopra & Company.
Chopra Electrical Sales Corporation.
C. H. Singh & Sons.
Commar Electric Company.—Mahalaxmi Market, Chandni Chowk, Delhi 6.
Commercial Sale Corporation.
D. C. Krishna & Company.
Delco Traders.
Delhi Electric Company.
Delite Electric Company.
Electrical Traders.
Electrocine Sale Corporation.
Everlight Electrical Industries.

FRIENDS UNITED CO.—11-12-13A, Bhagirath Palace, Chandni Chowk, Box 1201, Delhi 6. Consult R. C. Gupta in matters pending with Import Authorities for disposal of Licences, Quota Rights and Fresh Quotas in Delhi. Also avail advice in industrial matters.

Globe Trading Corporation.

GUPTAJEE & CO.—Bhagirath Palace, Chandni Chowk, Delhi 6.

Gupta Trading Company.
Hansa Electricals.
Harbans Electric Trading Company.
Hind Electric Stores.
Indian Traders (P) Ltd.
Jain Electric Stores.
Karachi Electric & Trading Company.
K. B. Electric Agencies.
Krishna Electricals.
K. T. Rajan.
Lahore Electric Trading Company.
Lakshmi Cable Company.
Lakshmi Electric Company.
Midland Electric Corporation.
M. Lal & Company.
M. M. Sharma Electric Company.
M. P. Electric Company.
Nath Trading Corporation.
National Electric Trading Company.
Nav Bharat Electric Agencies.
Navin Agencies.
New India Electric Company.
Newton Electrical.
North India Trading Corporation.

ORIENTAL ELECTRIC COMPANY.—Behind State Bank of India, Chandni Chowk, Delhi 6.

Oriental Electric Trading Company.
Paul & Kajriwal Electric Company.
Punjab Electric & Construction Company.

PUSHAP TRADING COMPANY.—Behind State Bank of India, Chandni Chowk, Delhi 6.

Raj Electric & Trading Company.
Raj Kamal Electricals.
Raja Electric Stores.
Rajendra Electric Company.

RAMJAS & SONS.—Mahalaxmi Market, Chandni Chowk, Delhi 6; Agents for Havell's Meters, ICTP/DP Main Switches & Starters.

Ravi Electric Company.
R. L. Kanhaya Lal.
Satya Paul & Company.

S. B. ELECTRIC COMPANY.—Behind State Bank, Chandni Chowk, Delhi 6.

Sehgal Trading Agencies.
Shree Ganesh Electric Company.
Shree Gopal Electric Stores.
Shree Nursing Electric Company.
Shree Nursing Sahay Madan Gopal Electric Co. Private Ltd.
Sunder Electric Stores.
Supreme Electric Company.
Supreme Radio & Electric Corporation.
Terra Trading Corporation.
Tirlok Chand & Sons P. Ltd.
Union Electric Company.
Upper India Electric Company.

ELECTROPLATEDWARE AND ELECTROPLATING MATERIAL MANUFACTURERS AND DEALERS

BHARAT TRADING CO.—5262, Sadar Thana Road, Delhi. Grams: "POLISHES". Branches: 303, Sandhurst Road, Bombay 4; Mital Road, Aligarh. Dealers in Electroplating Chemicals, Brightners, Polishing Compositions, Industrial Brushes & Accessories.

Fancy Copper & Metal Works.—407, Chitla Darwaja, Chawri Bazar, Delhi 6.
Oswal Metal Works.—G.T. Road, Delhi-Shahdara.
P. C. Girdharilal Jain.—9, Deputyganj, Sadar Bazar, Delhi 6.

EMBROIDERY MANUFACTURERS & MERCHANTS

Deepak India.—11-A, Connaught Place, New Delhi.
Hindustan Embroidery.—Ashrafi Katra, Chandni Chowk, Delhi.
Prakash Embroidery Works.—Paharganj, Main Bazar, New Delhi.
Prem Brothers (Regd.).—414, Sadar Bazar, Delhi 6.
Shardha Embroidery.—Chandni Chowk, Delhi.
The Art Museum.—1726, Burn Bastion Road, Delhi 6.

ENAMELLED WARE MANUFACTURERS

Delhi Rajkot Enamel Works.—1187, Kucha Mahajani, Delhi 6.

PREM ENAMEL & METAL FACTORY.—Bara Hindu Rao, Delhi.

Raj Enamel Works.—G.T. Road, Delhi-Shahdara.

ENGINEERS AND CONTRACTORS

Abrol & Co. P. Ltd.—E Block, Connaught Place, New Delhi 1.
A. E. I. (India) Private Ltd.—United India Bldg., Connaught Place, New Delhi.
Ahuja & Co.—D. B. Gupta Road, Paharganj, New Delhi 1.
Allied Engineering Co.—Kashmere Gate, Delhi 6.
Amar Nath Charanji Lal.—5/8, D. B. Gupta Road, Paharganj, New Delhi 1.
Amrit Lal Nayar & Co.—879, E. Park Road, New Delhi 5.
Arora Furnishers.—15A/3, E. Patel Nagar, New Delhi 12.
Asia Construction Co.—K-55, Connaught Circus, New Delhi 1.
Associated Engineering Works Ltd.—Kashmere Gate, Delhi 6.
Balmer Lawrie & Co., Ltd.—Sunlight Insurance Bldg., Ajmeri Gate Extn., New Delhi.
Banarsidass Engineering Co.—Naya Bazar, Delhi 6.

BERY ENGINEERING CO.—Naya Bazar, Delhi.

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(For light, medium and heavy transportation)

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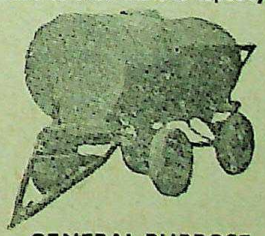
250 to 1000 Gallons capacity



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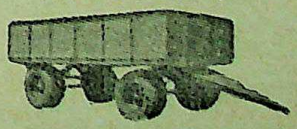

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COVERED & TIPPING REFUGE TRAILERS ➤

ADJUSTABLE POLE TYPE TRAILERS FOR LENGTHY MATERIALS

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Bhagsons Paint Industries.—27, D.L.F. Industrial Area, New Delhi 15.
Bhai Sunderdass Sardar Singh P. Ltd.—4/23, Asaf Ali Road, New Delhi.
Bhalla Engineering Corpn.—66, G. B. Road, Delhi 6.
Bharat Electrico.—22-E, Kamal Nagar, Delhi 6.
Bharat Engineering & Mfg. Co.—55/2, New Rohtak Road, New Delhi.
B. K. KHANNA & CO. LTD.—14-F, Connaught Place, New Delhi.
Brady, W. H. & Co., Ltd.—44, Indra Palace, Connaught Place, New Delhi.
B. R. Herman & Mohatta & Co., Ltd.—Connaught Place, New Delhi.
CIVIL ENGINEERING CO.—Samaj Road, Karolbagh, New Delhi 5. Manufacturers of Trucks, Trolleys, Barrows, Rollers, Trailers, Tanks, etc.
Crompton Engineering Co. (Madras) Ltd.—P. B. No. 529, New Delhi.
Duggal Engineering Co.—33, Kabul Lines, Delhi Cantt.-10.
EMPIRE ELECTRIC & ENGINEERING WORKS.—73, New Central Market, New Delhi.
Engineering & Industrial Corpn. P. Ltd.—29, South Patel Nagar, New Delhi 12.
Hardayal & Brothers.—11-H, Connaught Circus, New Delhi.
HAZARI LAL MARWAH & SON.—44, Regal Buildings, Connaught Place, New Delhi.
H. Lall & Brothers.—8, D. B. Gupta Road, New Delhi 1.
Imperial Engineering Co.—B. B. Road, New Delhi.
Jain Engineering Works.—13, Sadar Thana Road, Delhi 6.
K. R. Gupta & Sons.—10, Beadon Pura, Karolbagh, Delhi 5.
Kumar Engineering Works.—3837, Daryaganj, Delhi 6.
Kundan Lal & Brothers.—Asaf Ali Road, New Delhi.
Lakshmi Ratan Engineering Works.—New Delhi.
Marshal Sons & Co. Ltd.—Regal Bldgs., New Delhi.
Mehta Teja Singh & Co.—63, Golf Links, New Delhi 3.
Modern Tiles Mfg. Co.—Sunlight Bldg., Asaf Ali Road, New Delhi.
National Tile Works.—39, G. B. Road, Delhi 6.
Nava Bharat Engineering Co.—110, Naya Bazar, Delhi.
Northern India Tiles Corporation.—Tilak Nagar, New Delhi 15.
O. P. Oberoi & Co.—1/9, E. Patel Nagar, New Delhi 12.
Oriental Engineering Works Ltd.—78, G. B. Road, Delhi 6.
Parkash Chandar P. Ltd.—T-20, Sanyat Lines, Delhi Cantt.
Partap & Co.—17, Netaji Subhas Marg, Daryaganj, Delhi.
Prakash & Co.—4/23, W.E.A., New Delhi 5.
Prem Raj & Sons.—Prem Bhavan, Pahari Dhiraj, Sadar Bazar, Delhi 6.
Protos Engineering Co., Ltd.—Connaught Circus, New Delhi.
Punjab Traders Syndicate.—A-17, Prahlad Market, New Delhi 5.
Punn Gurdial Singh.—6-5, S. Patel Nagar, New Delhi 12.
R. B. Basakha Singh & Sons.—5, Jantar Mantar Road, New Delhi 1.
Ram Nath Mehra & Sons.—W1/11, Patel Road, New Delhi 12.
ROXY BUILDING & FURNISHING CO.—6/5266, Krishan Nagar, New Pusa Road, New Delhi 5. Phone : 51088.
Sethi Shankar Dass & Sons.—R-563, Shankar Road, New Delhi 5.
Sharma Engineering Co.—G. B. Road, Delhi 6.
Shinghal Brothers.—Delhi Cantt.
Sudershan Engineering Works.—Motia Khan, Delhi 6.
Surat Singh & Sons.—4/5847, Dev Nagar, Delhi 5.
Uttam Singh Dugal & Co. P. Ltd.—11, Marina Arcade, New Delhi 1.
V. H. Shah & Brothers.—Chawri Bazar, Delhi 6.
Victory Engineering & Metal Works.—G. B. Road, Paharganj, New Delhi.
William Jacks & Co. Ltd.—Connaught Place, New Delhi.
W. S. Bhag Singh & Sons.—Fatehpuri, Delhi 6.

EXPORTERS AND MANUFACTURERS

COMMONWEALTH TRADERS.—R-594, New Rajinder Nagar, New Delhi 5. Sheep Casings, Wood Carving Sets and other Kashmir Curios, Zari goods, Banarsi Scarves and handloom cotton and silken cloth and cycles accessories.

FANCY GOODS DEALERS

Bholanath & Sons.—Chandni Chowk, Delhi.
Gauri Prasad & Sons.—Chandni Chowk, Delhi.
Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
Kishorilal Ramkumar.—Chandni Chowk, Delhi.
The Art Museum.—1726, Burn Bastion Road, Delhi 6.

FIRE BRICKS MANUFACTURERS

ISHWAR INDUSTRIES LTD., THE.—P.O. Ishwar Nagar, New Delhi. Manufacturers of Fire Bricks of all grades and shapes, Fire clays, Fire Cements, Insulating Compounds, Castable Refractories, Acid Resisting Bricks, Cements, S.W. Pipes, Fittings, etc. Phones : 72161 & 72162.

FIRE FIGHTING APPLIANCES

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Fire Engines—Trailer Pumps—Extinguishers—Refills—Flex Canvas Hoses—Hose Couplings—Hose Binding Machines—Hose Vulcanising Machines—Other Fire Brigade Sundries.

DGL PRIVATE LTD.—Connaught Circus, New Delhi-1. Fire Engines—Trailer Pumps—Extinguishers—Hose Binding Machines—Hose Vulcanising Machines—Other Fire Brigade Sundries.

FLOUR MILLS

Crown Flour Mills.—1, Dufferin Bridge, Delhi 6.
Delhi Flour Mills Co. Ltd.—58, Janpath, New Delhi.
Ganesh Flour Mills Co.—Subzimandi, Delhi 6.
Hindustan Breakfast Foods Mfg. Factory.—Najafgarh Road, New Delhi 15.
Jwala Flour Mills.—33, Najafgarh Industrial Area, New Delhi 15.
Kailash Flour Mills.—Paharganj, New Delhi 1.
Laxmi Gram Flour Mill.—12B, Jangpura, New Delhi.
Punjab Flour Mills.—Najafgarh Road, New Delhi 15.
Sukhdeo Baksh New Flour & Oil Mills.—Ajmeri Gate, Delhi 6.

FOUNDERS AND MACHINE TOOL MANUFACTURERS

SHRI VISHNU METAL FOUNDRY.—Phatak Namak, Hauz Qazi, Delhi 6. Manufacturers of Sugarcane Crushers, Piller & Hand (Fly) Presses in all sizes. Specialists in quality light and heavy Cast Iron Castings.

FOUNTAIN PENS MFRS. & DEALERS

AMBITIOUS GOLD NIB MFG. CO.—27/7, Shakti Nagar, Delhi 6. Manufacturers of Alloy & Iridium Tipped Nibs for Fountain Pens.
Asian Pen Co.—Gur Ki Mandi, G. T. Karmal Road, Delhi.
Bholaram Rangulal Jain.—Sadar Bazar, Delhi.
Dodge & Seymour Ltd.—Lakshmi Bldg., D.A.G. Extension, New Delhi.
Friends Pen Stores.—Sadar Bazar, Delhi 6.
GENERAL PEN AGENCIES.—No. 4, Club Road, Delhi 8.
Golden Traders.—Sadar Bazar, Delhi.
Jain Plastic Industries.—Jawaharnagar, Subzimandi, Delhi.
KASHYAP TRADING CO.—Sole Distributors for Ajanta Pens (Regd.). 50, Kaushalya Bhawan, Sadar Bazar, Delhi.
Latham Abercrombie & Co., Private Ltd.—Ajmere Gate, Delhi.
Oriental Fountain Pen & Optical Co.—6-B, Kohapur House, Subzimandi, Delhi 6.
Pilot Pen Co., Ltd.—D.A.G. Extension, New Delhi.
Radha Fancy Stores.—Near Moti Bazar, Chandni Chowk, Delhi.
Rajpal & Co.—3, Shivnagar, Karolbagh, New Delhi.
ROYAL FOUNTAIN PEN CO.—1458, Fountain, Chandni Chowk, Delhi 6.
Solar Pen Industries.—Delhi-Shahdara.
Sunview Industries.—Panmandi, Sadar Bazar, Delhi.
Violet Industries.—8210, Chimni Mill, Bara Hindu Rao, Delhi.

FRUIT PRESERVERS

SHAR & CO.—2387-88, Gate Habash Khan, Delhi 6. Manufacturers of Chocolate, Toffee, Jubjanb, Confectionery and Fruit Products.
VICTORIA MANUFACTURING CO.—1/2, Roop Nagar, Delhi 6.

FURNISHING FABRICS

GUPTAJEE.—Connaught Place, New Delhi 1.

FURNITURE MFRS. AND DEALERS

Ahluwalia & Sons.—16/3, W.E.A., New Delhi 5.
Ahuja & Co.—D. B. Gupta Road, Paharganj, New Delhi.
Airy Brothers.—S. Bazar, Delhi Cantt.
American Furnishing House.—39-G, Connaught Circus, New Delhi.
A. N. Ramji Dass & Co.—7/36, Daryaganj, Delhi 6.
A. S. & Sons.—63, Naiwala, Delhi 5.
Banerjee Brothers.—8C/12, Pusa Road, New Delhi 5.
Basant Ram & Sons.—Connaught Circus, New Delhi.
British Furniture Manufacturing Co.—42-G, Connaught Circus, New Delhi.
Delhi Tent & Furniture House.—99, Baird Road, New Delhi 1.
GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.
Godrej & Boyce Mfg. Co., Ltd.—168, Chandni Chowk, Delhi.
Hind Furniture & Timber Trading Co.—39, Rani Jhansi Road, New Delhi.
House Decorating Co.—7A/1, W.E.A., New Delhi 5.
IMPERIAL WOOD WORKS.—Pul Bangash, Delhi. Furnishers & Decorators. Specialists : Barbar Chairs, Radio Cabinets.

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Imperial Wood Works.—Pul Bangash Road, Delhi.
Kailas Carpet Co.—11-F, Connaught Place, New Delhi.
Kartar Singh & Brothers.—259, Kamala Market, New Delhi 1.
Khanna & Co.—Kashmere Gate, Delhi.
Khosla Bros.—Regal Building, Punchquin Road, New Delhi.
Khosla Furniture House.—Regal Building, Punchquin Road, New Delhi.
Kumar Furnishers.—785, East Pank Road, Kavalbagh, New Delhi.
Model Furnishers.—39, Faiz Bazar, Delhi 7.
Mohan Singh & Sons.—64, Rani Jhansi Road, New Delhi 1.
Oriental Bldg. & Furnishing Co.—40, Hanuman Road, New Delhi.
Rajendra Brothers.—Faiz Road, Delhi 5.
Ram Kishen & Sons.—18, Marine Arcade, New Delhi.
Ramji Dass & Co., A. N.—17/36, Daryaganj, Delhi 6.
Rattan Furniture Store.—Kashmere Gate, Delhi 6.

Ravi
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Private Ltd.
FURNISHING EXPERTS
Kashmere Gate, Delhi.
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Sabhan Wal Furniture House.—Bhagirath Mal's Building, Punchquin Road, New Delhi.
Seth Brothers.—Kashmere Gate, Delhi 6.
S. M. G. Beaty P. Ltd.—Connaught Place, New Delhi 1.
Sutherland Furnishing Co.—74, Janpath, New Delhi.
Trilok Nath Hoora & Sons.—Regal Building, Punchquin Road, New Delhi.
Vijay Furniture Mart.—Karolbagh, New Delhi.

GARAGE EQUIPMENTS

EASTERN COMMODITIES PRIVATE LTD.—5-A/8, Ansari Road, Daryaganj, Delhi 6. Complete Spray Painting Automobile Service Equipment including Air Compressors, Spray painting guns, Air Filters and Regulators and Car Lifts.

MACHINE TOOLS CORPORATION.—Kashmere Gate, Delhi 6.

GENERAL MERCHANTS AND COMMISSION AGENTS

Ahuja Bros.—Pahargunj, Main Bazar, New Delhi.
Arjandass Gupta & Bros.—25, Fatehpuri, Delhi.
Asiatic International Traders.—Original Road, New Delhi.
Associated Textile Engineers.—Chawri Bazar, Delhi.
Atmaram Munjal & Sons.—Naya Bazar, Delhi.
Baldevshai Rambhagat.—Naya Bazar, G. B. Road, Delhi.
Banarsidas & Co.—Naya Bazar, Delhi.
Bansidar Madan Lal.—Naya Bazar, G. B. Road, Delhi.
Basi Bros.—Pahargunj, Main Bazar, New Delhi.
B. D. Brothers.—Pahargunj, Main Bazar, New Delhi.
Bhagwandas & Sons.—Naya Bazar, Delhi.
Bhola Ram Rangulal Jain.—Sadar Bazar, Delhi 6.
Bhola Ram Rikhab Dass Jain.—Sadar Bazar, Delhi 6.
Chhaganlal Shyam Sunder.—Maliwara, back of Moti Bazar, Chandni Chowk Area, Delhi.
Desraj Bhagwandas.—Opp. Chartered Bank, Chandni Chowk, Delhi.
Dass Singh Shivdev Singh.—Naya Bazar, G. B. Road, Delhi.
Devidayal Brijlal.— Naya Bazar, Delhi.
Fashion Centre.—Chandni Chowk, Delhi.
Gianchand Dinanath Gujranwala.—Naya Bazar, G. B. Road, Delhi.
Goyal Bros.—Regal Building, Punchquin Road, New Delhi.
G. S. Rajpal & Sons.—Chandni Chowk, Delhi.
Harbanslal Kanhayalal.—Ballimaran, Chandni Chowk, Delhi.
Indian Traders Ltd.—Lahori Gate, G. B. Road, Delhi.
Jagjit Bros.—Pahargunj, Main Bazar, New Delhi.
Jankidas & Co.—23/F, Connaught Place, New Delhi.
Kapila Brothers.—Naya Bazar, Delhi.
Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
Kashiram Keshoram Mehta.—Nagpuri Katara, Delhi.
Kedarnath Babulal Khemka.—Bhangi Katra, Chandni Chowk, Delhi.
Kesrichand Mohanlal.—Naya Bazar, Delhi.
K. Murari & Co.—Jogdhian Colony, Delhi.
K. S. Lakhonir Singh & Co.—Chandni Chowk, Delhi.
Milawa Ram Lakhmichand.—Sadar Bazar, Delhi.
Mongalal Bhooramal.—Naya Bazar, G. B. Road, Delhi.
Nayyar & Co.—16, Faiz Bazar, Daryaganj, Delhi.
Paliram Nanikchand.—771, Chandni Chowk, Delhi.
Prabhudayal Lachminarain.—Naya Bazar, G. B. Road, Delhi.
Punjab Business & Supply Co., Ltd.—Naya Bazar, Delhi.
Radhey Shiam Ram Gopal.—Maliwara, Back of Moti Bazar, Chandni Chowk Area, Delhi.
Ram Dallamal Dwarkadas.—Nagpuri Katara, Delhi.
Rama Fancy Store.—Pahargunj, Main Bazar, New Delhi.
Ratanlal & Co.—Naya Bazar, G. B. Road, Delhi.
R. S. Bholaram & Sons, Ltd.—Mori Gate, Delhi.
Shri Krishna & Co.—Ajij Building, Choona Mandi, Pahargunj, New Delhi.
S. K. Diwan & Co.—214, Irwin Road, P. B. No. 233, New Delhi 1.
Tarachand & Sons, L.—Naya Bazar, G. B. Road, Delhi.
Teja Singh & Sons, S.—Naya Bazar, G. B. Road, Delhi.
The Art Museum.—1726, Burn Bastion Road, Delhi 6.
Tiagi Brothers.—Chandni Chowk, Delhi.
Tilak Chand Rajendra Kumar Jain.—5198, Sadar Bazar, Delhi 6.
Umarao Singh Bishan Sarup.—Behind Imperial Bank, Bissumal Colony, Chandni Chowk, Delhi.

GLASS

A. Dugal & Co.—Fatehpuri, Delhi.
Baluja Glass Co.—Fatehpuri, Delhi.

BAWA GLASS & CROCKERIES PRIVATE LTD.—Chandni Chowk, Delhi 6.

Belgium Glass House.—Fatehpuri, Delhi.
Bhalla Sales Corpn.—49-M. Block, Connaught Circus, New Delhi.
Bharat Glass Co.—Sadar Bazar, Delhi 6.
Delhi Glass House.—Chandni Chowk, Delhi.
Duggal & Co.—Fatehpuri, Delhi 6.
Himalaya Trading Co.—Fatehpuri, Chandni Chowk, Delhi.
Hindustan Glass Agency.—Qutab Road, Delhi 6.
Imperial Glass Co.—Fatehpuri, Chandni Chowk, Delhi.
Jolly Glass Co.—Katra Barien, Delhi.
Om Prakash & Bros.—Katra Barien, Delhi.

GLUE MANUFACTURERS

H. B. Industries.—Nangloi, Delhi.
Sunlight Glue Mfg. Co.—Chandni Chowk, Delhi 6.

GLYCERINE

Godrej Soaps Private Ltd.—168, Chandni Chowk, Delhi.
Hindustan Lever Ltd.—D.A.G. Extension, New Delhi.
Imperial Chemical Industries (India) Private Ltd.—Hamilton Bldg., Connaught Place, New Delhi.
Tata Oil Mills Co., Ltd.—D.A.G. Extension, New Delhi.
Virmani Industries Ltd.—Najafgarh Road, Delhi.

GRAIN MERCHANTS

Amar Nath Chandgi Ram.—Naya Bazar, Delhi.
Bala Parashad Dawarks Parashad.—Naya Bazar, Delhi.
Bala Parashad Narainder Pal.—Mandi-Rui, Delhi.
Baldave Sahai Ram Bhagat.—Naya Bazar, Delhi.
Banwari Lal Radhey Mohan.—Naya Bazar, Delhi.
Bhoora Mal Dau Dayal.—Naya Bazar, Delhi.
Bhoora Mal Nand Kishore.—Khari Boali, Delhi.
Bishamber Nath Tara Chand.—G. B. Road, Delhi.
Bujan Mal Kundan Lal—Med Ganj, Delhi.
Chander Bhan Ram Bhagat.—Med Ganj, Delhi.
Chhuni Lal Mussadi Lal.—Naya Bazar, Delhi.
Datta Ram Mangat Ram.—Rui Mandi, Delhi.
Devi Dayal Brij Lal.—Naya Bazar, Delhi.
Dwarka Parashad Fakir Chand.—Naya Bazar, Delhi.
Girdhari Lal Rup Chand.—Naya Bazar, Delhi.
Giyan Chand Dina Nath.—Naya Bazar, Delhi.
Gobind Ram Girdhari Lal—Mandi-Rui, Delhi.
Gokal Chand Shrikishan Dass.—Med Ganj, Delhi.
Gopal Trading Co.—Rui-Mandi, Delhi.
Gugan Mal Bahari Lal.—Naya Bazar, Delhi.
Gulab Hans Raj.—Naya Bazar, Delhi.
Harnam Dass Sadhu Ram.—Naya Bazar, Delhi.
Haryana Trading Co.—Naya Bazar, Delhi.
Herchand Rai Chandan Lal.—Med Ganj, Delhi.
Herdave Sahat Munni Lal.—Naya Bazar, Delhi.
Inder Dev Gopal Krishan.—Naya Bazar, Delhi.

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Ishwari Parashad Kalaish Chand.—Rui-Mandi, Delhi.
Janki Dass Bhagat Ram.—Rui-Mandi, Delhi.
Jhandu Mal Mohan Lal—Naya Bazar, Delhi.
Jiya Ram Lacchi Ram.—Med Ganj, Delhi.
Jugal Kishore Satya Parakash.—Med Ganj, Delhi.
Jyoti Parshad Shyam Lal.—Rui-Mandi, Delhi.
Kanshi Ram Lakshmi Chand.—Med Ganj, Delhi.
Kundan Lal Hukam Chand.—Rui-Mandi, Delhi.
Kunj Lal Kundan Lal.—Naya Bazar, Delhi.
Lakshmi Narain Rajinder Kumar.—Rui-Mandi, Delhi.
Lakshmi Narain Sunder Lal.—Naya Bazar, Delhi.
Loti Ram Makhan Lal.—Naya Bazar, Delhi.
Madan Lal Mohan Lal.—Naya Bazar, Delhi.
Makhan Lal Kundan Lal.—Naya Bazar, Delhi.
Mam Raj Chhuni Lal.—Naya Bazar, Delhi.
Mam Raj Musadi Lal.—Naya Bazar, Delhi.
Manga Ram Om Parkash.—Naya Bazar, Delhi.
Mangat Rai Rati Ram.—Rui-Mandi, Delhi.
Manhor Lal Ganga Dhar.—Naya Bazar, Delhi.
Molu Ram Radha Kishan.—Naya Bazar, Delhi.
Munna Lal Bharat Singh.—Naya Bazar, Delhi.
Munni Lal Om Parkash.—Naya Bazar, Delhi.
Nand Ram Kundan Lal.—Rui-Mandi, Delhi.
Nihal Chand & Co.—Naya Bazar, Delhi.
Om Parkash Gauri Shanker.—Naya Bazar, Delhi.
Parkash Traders.—Med Ganj, Delhi.
Partap Singh Narain Singh.—Mandi-Rui, Delhi.
Peray Lal Devinder Kumar.—Rui-Mandi, Delhi.
Pooran Mal Ugar Sain.—Naya Bazar, Delhi.
Prabhu Dayal Moti Ram.—Med Ganj, Delhi.
Prabhu Dayal Lachmi Narain.—Naya Bazar, Delhi.
Raja Ram Rattan Lal.—Rui-Mandi, Delhi.
Ram Gopal Sant Lal.—Naya Bazar, Delhi.
Ram Rattan Shrikishan Dass.—Naya Bazar, Delhi.
Ram Sarup Dass Shri-Kishan Dass.—Naya Bazar, Delhi.
Ramjas Mal Jhandu Mal.—Naya Bazar, Delhi.
Rameshwar Dayal Shiv Narain.—Rui-Mandi, Delhi.
Ram Chander Munshi Lal.—Rui-Mandi, Delhi.
Ram Gopal Bhawan Das.—Naya Bazar, Delhi.
Ram Gopal Mukand Lal.—Naya Bazar, Delhi.
Ram Sarup Murari Lal.—Naya Bazar, Delhi.
Rattan Lal & Co.—Naya Bazar, Delhi.
Rattan Lal Jaibhagwan.—Naya Bazar, Delhi.
Rattan Trading Co.—Naya Bazar, Delhi.
Sant Lal Kanhiya Lal.—Naya Bazar, Delhi.
Sant Ram Kanhaiya Lal.—Naya Bazar, Delhi.
Sant Ram Kashmeri Lal.—Naya Bazar, Delhi.
Sant Ram Kunj Lal.—Naya Bazar, Delhi.
Senehi Ram Narain.—Naya Bazar, Delhi.
Sham Lal Shiv Shanker Lal.—Rui-Mandi, Delhi.
Sharda Ram Hari Ram.—Naya Bazar, Delhi.
Shiv Dayal Mal Jugal Kishore.—Naya Bazar, Delhi.
Shiv Dayal Ram Rattan.—Naya Bazar, Delhi.
Shiv Dayal Shiv Nath Rai.—Naya Bazar, Delhi.
Shrikishan Dass Subash Chand.—Naya Bazar, Delhi.
Sundu Mal Ram Sarup.—Naya Bazar, Delhi.
Tej Pal Om Parkash.—Naya Bazar, Delhi.
Tuhi Ram Gopi Ram.—Naya Bazar, Delhi.
Udmi Ram Jagan Nath.—Naya Bazar, Delhi.
Vashu Dev Vinod Kumar.—Naya Bazar, Delhi.

GRAPHITE DEALERS

GLOBAL LINKERS.—7/2, Ragendranagar, New Delhi 5. Manufacturers' Representatives and general order suppliers.

HANDICRAFTS DEALERS AND EXPORTERS

Arjan Das Gupta & Brothers.—E-1/9, East Patel Nagar, New Delhi.
Bharat Kala Kendra P. Ltd.—B Block, Connaught Place, New Delhi.
Central Traders.—Crockery Market, Sadar Bazar, Delhi.

DUTTA COTTAGE INDUSTRIES OF INDIA.—P.O. Box 2513, New Delhi 5.

Eastern Arts Corporation.—11/B-4, Asaf Ali Road, New Delhi.
Eastern Linkers P. Ltd.—Odeon Bldg., Connaught Place, New Delhi.
Hira Lal & Sons.—20, E. P. Avenue, Karol Bagh, New Delhi.

INDIACRAFT EXPORT PRIVATE LTD.—4/8, Asaf Ali Road, New Delhi. Phone : 24240. Director : Shri K. S. Bawa.

Indian Arts & Crafts Syndicate.—2666, Ballimaran, Delhi.

NARANG & CO.—17, Sundernagar Market, New Delhi.

Nath Brothers.—50/2-3, Hanuman Road, New Delhi 1.
New India Trading Syndicate.—132, Kamal Market, New Delhi.

ORIENTAL SYNDICATE OF INDIA.—24/2729, Beadonpura, New Delhi. OTS a name in Handicrafts and Woollen Pile Carpets.

Oriental Trading Society.—1/11B, Asaf Ali Road, New Delhi.
Paramount Traders.—4/47, W.E.A., Karol Bagh, New Delhi.

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Pickwich Exports P. Ltd.—4/9, Asaf Ali Road, New Delhi.
R. D. Ramnath & Co.—Jama Masjid, Delhi 6.

SARNA BROTHERS.—5B-4, Poorvi Marg, New Delhi.

S. Nath Kakar & Sons.—41, Hanuman Road, New Delhi.
Surya Trading Corpn. of India P. Ltd.—12/8, W.E.A., Karol Bagh, New Delhi.
United Overseas Trading Corporation.—Asaf Ali Road, New Delhi.
Wellworth Trading Corporation.—Post Box 2528, New Delhi.
Yadav & Co.—2886, Tentwali Gali, Daryaganj, Delhi.

HARDWARE MERCHANTS AND IRONMONGERS

Agia Ram & Sons.—Sirkiwalan, Delhi.
Alamchand Khanduja & Sons.—5110-11, Sirkiwalan, Delhi.
Arjan Dass Kohli & Co.—Chawri Bazar, Delhi 6.
Ashok Kumar & Brothers.—1944, Lalkuan, Delhi.
Associated Textile Engineers.—Chawri Bazar, Delhi 6.
Atma Ram & Sons.—1900, Sirkiwalan, Delhi.
A. Worah & Co.—Chawri Bazar, Delhi 6.
Badami Bagh Agency.—Naya Bazar, Delhi 6.
Badri Das & Sons.—3602, Chawri Bazar, Delhi 6.
Bansil Brothers.—Chawri Bazar, Delhi 6.
Behari Lal & Co.—Hauz Qazi, Delhi.
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Bharat Hardware Trading Co.—Hauz Qazi, Delhi 6.
Bharat Wood Products Co.—K-22, Opp. Plaza Cinema, Delhi 1.
Bishamber Dass Jain & Co.—Chawri Bazar, Delhi 6.
Brijmohan & Sons.—4920, Hauz Qazi, Delhi.
Chand & Co.—Hauz Qazi, Delhi.
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Daulat Rai & Brothers.—Hauz Qazi, Delhi.
Delhi Iron Syndicate Ltd.—Sirkiwalan, Delhi.
Delhi Machinery Stores.—Chawri Bazar, Delhi 6.
Delhi Mill Stores.—Chawri Bazar, Delhi, 6.
Devindra & Co.—Katra Raji, G. B. Road, Delhi.
Dewanchand Madanlal & Sons.—4920, Chawri Bazar, Delhi 6.
Dhani Ram & Sons.—Hauz Qazi, Delhi.
Dherumal Kapur & Sons.—Lahori Gate, G. B. Road, Delhi.
D. P. Gupta & Co.—Asaf Ali Road, New Delhi.
D. S. Dewanchand & Co.—1, Manohar Mart, Delhi.
Garg Trading Co.—Hauz Kazi, Delhi 6.

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Goel Brothers.—5067, Sirkiwalan, Delhi.
Golden Iron & Hardware Store.—5059, Sirkiwalan, Delhi.

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Gopinath Ltd.—Chawri Bazar, Delhi 6.
Gordhandas Khandelwal & Sons.—3598, Bazar Sitaram, Delhi 6.
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Guran Das & Co.—Lahori Gate, G. B. Road, Delhi.
Harichand Sethi & Co.—3516, Sirkiwalan, Delhi.
Hazuramall Kundan Lall.—Lahori Gate, G. B. Road, Delhi.
Hindustan Industries.—Hauz Qazi, Delhi.
Hindustan Metal Industries.—3483, Sirkiwalan, Delhi.
H. M. Doyal & Co.—Hauz Qazi, Delhi.
H. M. Kapoor & Sons.—4897, Hauz Qazi, Delhi.
India Steel Corporation.—Sirkiwalan, Delhi.
Indian Hardware Co.—31, Manohar Mart, Delhi.
Indian Importers Syndicate.—2856, Sirkiwalan, Delhi.
Iron Traders Ltd.—Sirkiwalan, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Jagdish Brothers.—4646, Ajmeri Gate, Delhi 6.
Jai Hind Machinery Store.—Naya Bazar, Delhi.
Jawaharlal Jain & Co.—Hauz Qazi, Delhi.

JEYAM'S HARDWARE & MACHINERY STORES.—Nicholson Road, Delhi 6. All kinds of Electrical Materials, Engineering Tools and Hardware Materials.

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Jindal & Sons Ltd.—Sirkiwalan, Delhi.
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J. M. Ramchandra & Sons.—Chawri Bazar, Delhi 6.
J. M. Suraj Bhan Aggarwal & Sons.—Hauz Qazi, Delhi.
J. M. Bodiwala & Sons.—Chawri Bazar, Delhi 6.
J. M. Chimanlal Aggarwal & Co.—Chawri Bazar, Delhi 6.
Kashmiri Lal & Co.—5119, Sirkiwalan, Delhi.
K. C. Chopra & Brothers P. Ltd.—Manohar Mart, Delhi.
Kedawat Traders.—12-20, Shakti Nagar, Delhi 6.
Kishan Chand Khanna & Sons.—Hauz Qazi, Delhi.
Krishan Chand Khanna & Co.—328, Hauz Qazi, Delhi.
Krishan Sarup Agarwal & Co.—11, Manohar Mart, Delhi.
Kumar Brothers.—1948, Lal Kuan, Delhi.
Lachmandass Ramchand.—Chawri Bazar, Delhi.
Madan Lal Bajaj & Co.—Hauz Qazi, Delhi.
Madanlal Nanda & Sons.—3692, Chawri Bazar, Delhi 6.
Mahabir Pershad & Sons.—Chawri Bazar, Delhi 6.
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Milstock & Co.—Hauz Qazi, Delhi.

MITTAL BROTHERS.—Chawri Bazar, Delhi 6. Manufacturers, Importers, Exporters and Contractors.

M. R. Malhotra & Co.—Hauz Qazi, Delhi.
M. Sain Agarwal & Co.—3638, Chawri, Delhi 6.
Munni Lal Bajaj & Co.—Sirkiwalan, Delhi.
Nanda & Sons, S. D.—Lahori Gate, G. B. Road, Delhi.
Nandkishore Malhotra & Co.—4777, Hauz Qazi, Delhi.
National Hardware Syndicate.—Hauz Qazi, Delhi.
New India Metal Industries.—Pyanwali Gali, Chawri Bazar, Delhi 6.

OM PRAKASH GOEL & SONS.—Hardware Merchants, 3657, Chawri Bazar, Delhi 6. House of Steel Files and Wood Screws.

P. Ahuja & Co.—Ajmeri Gate Extn., Delhi.
P. G. Bansal & Co.—68, G. B. Road, Delhi.
Pindi Dass & Co. P. Ltd.—81, G. B. Road, Delhi 6.
P. Madanlal & Co.—Chawri Bazar, Delhi 6.
Prakash Iron & Steel Co.—Hauz Qazi, Delhi.
Prakash Traders.—7, Manohar Mart, Delhi.
Prem Nath & Sons.—4904, Hauz Qazi, Delhi.
Punjab Hardware & Mill Stores.—Hauz Qazi, Delhi.
Punjab Steel Works.—Naya Bazar, G. B. Road, Delhi.
Ram Nath Nanda & Sons.—Hauz Qazi, Delhi.
Rameswar Dass & Co.—Chawri Bazar, Delhi 6.

RAMESWAR DASS DWARKADASS PRIVATE LTD.—Chawri Bazar, Delhi 6.

Ratanji Bhagwanji & Co.—3760, Chawri Bazar, Delhi 6.

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Roshan Lal Jain & Co.—Chawri Bazar, Delhi 6.
R. S. Aggarwal & Co.—3484, Sirkiwalan, Delhi.
R. S. Dass & Sons.—Chawri Bazar, Delhi 6.
Sain Dass Aggarwal & Co.—10, Manohar Mart, Delhi.

SATYANARAYAN GOYAL & SONS.—3554, Chawri Bazar, Delhi. Large Stockists of Steel Files : Nicholson, John-Baker India. Distributors for Hindusthan Files, Stockists of J. K. Files and Cat, Bharat & Star Brand Files and Hack-Saw Blades 'Shiva,' 'SAP' and 'REGAL' Brand. Grams : 'STEELFILES.'

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Seth & Co.. A. N.—Katra Raji, G. B. Road, Delhi.
Shri Ram & Sons.—Chawri Bazar, Delhi 6.
S. N. Nigam & Sons.—Hauz Qazi, Delhi.
Tej Bhan Sethi & Sons.—5097, Sirkiwalan, Delhi.
Tayal Brothers P. Ltd.—G.B. Road, Delhi.
United Steel Industries.—Naya Bazar, G. B. Road, Delhi.
Universal Agencies (India).—Gali Hakim Baqa, Hauz Qazi, Delhi.
Universal Trading Co.—Sirkiwalan, Delhi.
Uttamchand Bansilal.—Katra Raji, G. B. Road, Delhi.
V. H. Shah & Brothers.—Chawri Bazar, Delhi 6.
Wazir Chand & Brothers.—Hauz Qazi, Delhi.

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Arun Hosiery Mills.—12/8, W. E. A., Karolbagh, Delhi.
Ashok Hosiery Works.—4, Malik Bldgs., Chuna Mandi, Paharganj, New Delhi.
Azad Hosiery Factory.—41, Beadonpura, Karolbagh, Delhi.
Bhalla Hosiery Factory.—992, Pan Mandi, Sadar Bazar, Delhi.
Bharat Hosiery Factory.—Teliwara, Sadar Bazar, Delhi.
Caltek Hosiery.—Bara Hindu Rao, Ahata Kidara, Delhi.
Choudhry Hosiery.—2892, Qutab Road, Delhi.
Delhi Hosiery Mills.—4, Racquet Court Road, Delhi 8.
Dinbandhu Hosiery Mills, Ltd.—Joshi Road, Karolbagh, Delhi.
Duni Chand Gulati Hosiery Works.—867, Joshi Road, Karolbagh, Delhi.
Fairy Knitting Industries.—20/21, Basti Harphool Singh, Sadar Bazar, Delhi.
Garg Hosiery.—4294, Aryapura, Subzimandi, Delhi.
Golden Hosiery Mills.—Rui-ki-Mandi, Sadar Bazar, Delhi.
Gorakh Hosiery Factory.—Chandi Mahal, Daryaganj, Delhi 7.
Goyal Hosiery Factory.—108, Khurshid Market, Sadar Bazar, Delhi.
Haryana Hosiery and General Mills.—88, Model Basti, New Delhi 5.
Hero Knitting Works.—240, Post Office Street, Sadar Bazar, Delhi.
Indra Hosiery Industries.—3-4, Basti Harphool Singh, Sadar Bazar, Delhi.
Jainico Hosiery Mills.—5633, Qutab Road, New Delhi.
Jeewan Hosiery Industries.—70, Khurshid Market, Sadar Bazar, Delhi.
Jeydamba Hosiery Factory.—3620, East Park Road, New Delhi.
Kabir Hosiery Works.—Bazar Billimaran, Delhi.
Kailash Hosiery Factory.—4361/1, Gali Bahuji, Pahari Dhiraj, Delhi.
Kanodia Hosiery Mills.—Sadar Bazar, Delhi ; Works at : 35 Basti Harphool Singh, Delhi.
Kapur Hosiery Factory.—B-15, Jhandewalan Road, Delhi.
Kapur Knitting and Woollen Hosiery Works.—Hauz Qazi, Delhi.
Kartaram Hosiery Factory.—85, Khurshid Market, Sadar Bazar, Delhi.
Kaushik Hosiery.—Gali Bagachi Abdul Karim, House Nos. 569-574, Teliwara, Delhi.
Lakshmi Knitting Co.—Desbandhu Gupta Road, Karolbagh, Delhi.
Lion Industries.—55, Model Basti, New Delhi.
Madhav Hosiery Mills.—38, Naiwala, Karolbagh, Delhi.
Mahabir Hosiery Factory.—Katra Chajju Pandit, Delhi.
Midland Hosiery Works.—7440, Mohalla Kanhara, Ramnagar, New Delhi.
Modern Hosiery and General Mills.—11705/6, Sakti Nagar, Delhi.
Mohan Hosiery.—10/24, Katra Pandit Chajju, Shidipur, Delhi.
Narendra Hosiery Agency.—592, Sadar Bazar, Katra Mithan Lal, Delhi.
National Hosiery Factory.—Manakpura, Mandir Wali Gali, Delhi.
New India Hosiery Factory.—Near Hamdard Dwakhana, Lal Kuan, Delhi.

NEHRU HOSIERY MILLS.—Sadarthana Road (Basti Harphool Singh), Delhi 6.

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Olympic Hosiery Factory.—Matkewali Gali, Sadar Bazar, Delhi.
Om Parkash Jain Hosiery Factory.—10044-45, Manakpura, Delhi.
Padam Hosiery Mills.—Katra Chajju Pandit, Model Basti, Delhi.
Parkash Hosiery Mills.—1122, Gali Samosan, Lal Kuan, Delhi.
Popular Hosiery Factory.—10155, Katra Chajju Pandit, Delhi.

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Prabhat Hosiery Works.—27, DLF, Industrial Area, Najafgarh Road, Delhi.

PRAKASH INDUSTRIES.—10, Esplanade Road, Delhi 6.

Punjab Hosiery Works.—14-G, Jawahar Nagar, Delhi.
Puri Hosiery Factory.—800, Joshi Road, Karolbagh, Delhi.
Rajasthan Knitting Co.—Hamilton Road, Gali Moghlan, Delhi.
Rajpal Hosiery Factory.—8687, Model Basti, New Delhi 5.
Rath Brand Candle and Hosiery Works.—Gali Bahuji, Pahari Dhiraj, Delhi.
Ravindra Hosiery Factory.—60/6, Basti Harphool Singh, Sadar Bazar, Delhi.
Rawat Hosiery.—Gali No. 17, Ragharhpura, Karolbagh, Delhi.
Republic Hosiery Factory.—Aryapura, Subzimandi, Delhi.
Rakesh Hosiery Factory.—Prem Sadan, Chamelian Road, Bara Hindu Rao, Delhi.
Rita Hosiery Products.—1-C/47, Rohtak Road, New Delhi 5.
S. Bahadur & Bros.—4116, Roshanpura, Nai Sarak, Delhi.
Shikhar Hosiery Factory.—Gali Bahuji, Pahari Dhiraj, Delhi.
Shri Krishan Hosiery Mills.—1534, Gali Kasim Jan, Ballimaran, Delhi.
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Subhas Hosiery Mills.—10125, Opp. Filmistan Cinema, Model Basti, Delhi.
Sudhir Hosiery Factory.—1064, Bahadurgarh Road, Delhi.
Surinder Hosiery Factory.—1055, Katra Pandit Chajju Ram, Model Basti, Delhi.
Swadeshi Hosiery Factory.—F. 14/14, Model Town, Delhi 9.
Universal Knitting.—Chemilians Road, Bara Hindu Rao, Delhi.
Usha Hosiery Works.—790, Chammarwala Peach, Sadar Bazar, Delhi.
Vimla Hosiery.—10154, Katra Chajju Pandit, Model Basti, Delhi.
Wilco Hosiery Works.—2, Basti Harphool Singh, Delhi.
Yogindra Knitting Mills.—Industrial Area, Najafgarh Road, New Delhi.

HOSPITAL EQUIPMENTS

GARDNERS CORPORATION.—25/90, Connaught Circus, New Delhi.

HOTELS

Agra Hotel.—16, Daryagunj, Delhi 6.
Apollo Hotel.—Nicholson Road, Kashmere Gate, Delhi.
Ashoka Hotel.—Chanakyapuri, New Delhi 21.
Associated Hotels of India Limited.—Simla : Cecil & Clarke's; Delhi.
Central Court Hotel.—Connaught Circus, New Delhi.

CLARIDGE'S HOTEL.—12, Aurangazeb Road, New Delhi 11.

Coronation Hotel.—Fatehpuri, Delhi.
Crown Hotel.—Katra Baryan, Fatehpuri, Delhi.
Fort View.—Chandni Chowk, Delhi 6.

FRONTIER HOTEL.—S.P. Mukerjee Marg, Fatehpuri, Near Novelty Cinema, Delhi 6.

Grand Hotel.—Civil Lines, Delhi 6.
Green.—Church Mission Road, Delhi 6.

HOTEL AIRLINES.—opp. New Delhi Railway Station, New Delhi.

Hotel Ambassador.—S. S. Park, Delhi 3.

HOTEL BROADWAY.—Asaf Ali Road, New Delhi 1. Phone: 27821 (5 lines). Grams: "LUXURY". Tarrif: Bed-breakfast —Single Rs. 20 to Rs. 30. Air Conditioned—Centrally Located—Maximum amenities.

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Hotel Cecil.—Delhi 6.
Hotel Flora.—Dayanand Road, Daryaganj, Delhi 6.
Hotel Imperial.—Janpath, New Delhi.
Hotel India.—Queen's Garden, Opp. Rly. Stn., Delhi 6.

HOTEL REGAL.—S. P. Mukerjee Marg, Delhi. Phone : 23241. Grams : "HOTEL REGAL". Provides Homely Comforts and Dishes of Provincial tastes. Separate Gujarati Kitchen.

Hotels the Manor.—'Friends Coly.', Mathura Road, New Delhi 14.
Imperial Hotel.—Church Mission Road, Fatehpuri, Delhi.
Lakshmi Hotel.—Chandni Chowk, Delhi.
Madras Boarding House.—Connaught Circus, New Delhi.
Maidens Hotel.—Civil Lines, Delhi.
Maharaja Hotel—S. P. Mukerjee Marg, Delhi 6.
Marina Hotel.—Connaught Circus, New Delhi.
Metro.—Janpath, New Delhi 1.
New Empress Hotel.—Fatehpuri, Delhi.
New India Hotel & Restaurant—Katra Baryan, Fatehpuri, Delhi.
Nirula's Hotel.—L. Block, Connaught Circus, New Delhi 1.
Oberoi Imperial.—New Delhi.
Oberoi Maidens.—Delhi.
Park-View Hotel.—Fatehpuri, Delhi.
Pink Hotel.—Queen's Gardens, opp. Rly. Station, Delhi.
Prince Hotel.—Queen's Road, New Delhi.
Punjab Hotel—Fatehpuri, Delhi.
Regal Hotel.—Queen's Road, Delhi.
River Hotel.—Faiz Bazar, Daryaganj, Delhi.
Royal Hotel.—Queen's Road, New Delhi.
Sher-i-Punjab Hotel & Restaurant.—Bazar Paharganj, New Delhi.
South India Boarding House.—Connaught Circus, New Delhi.
Standard Hotel & Restaurant.—Faiz Bazar, Daryaganj, Delhi.
Swiss Hotel.—Delhi 6.

IMPORTERS, EXPORTERS AND STOCKISTS

A. DASS & SONS.—7/33, Daryaganj, Delhi.

Ahuja & Co.—P-3, Munshi Niketan, Asaf Ali Road, New Delhi 1.
Amrit Wool Co.—Amrit Market, Sadar Bazar, Delhi 6.
Arjan Dass Gupta & Bros.—25, Fatehpuri, Delhi 6.
Arjan Dass Kohli & Co.—Chawri Bazar, Delhi 6.
Arora Brothers.—Kucha Mahajani, Chandni Chowk, Delhi.
Asanand & Co.—Ph. Habas Khan, Khari Badli, Delhi.
Baldev Raj & Co.—2887, Sirkinwalan, Hauz Kazi, Delhi 6.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
Bhola Ram Rikhab Dass Jain.—Sadar Bazar, Delhi 6.
Brentford James & Co. (India).—6, Pearylal Bldg., Janpath, New Delhi 1.
Bulakhidas Ramchander.—2104/1, Katra Tobacco, Delhi 6.
Chinnu Bhai Vadilal & Co.—Cloth Market, Delhi.
Chunilal Bhatia & Co.—Sadar Bazar, Delhi.
Coxwell & Company.—2, Faiz Bazar, Delhi.
Dewan & Co.—6634, Kothi Man, Rani Jhansi Road, New Delhi.
Foster Bell & Company.—P.B. No. 406, New Delhi 1.
Fourbhai Ltd.—14, Faiz Bazar (Daryaganj), Delhi 7.
Fakir Chand Mohanlal (Estd. 1840).—Chowri Bazar, Delhi.
Frontier Hosiery Stores.—5742/43, Gandhi Market, Sadar Bazar, Delhi 6.
Gora Mal Hari Ram.—Sadar Bazar, Delhi 6.
G. T. Mehra & Co.—Chawri Bazar, Delhi.
Gulzarilal Suri & Co.—764, Katra Neel, Chandni Chowk, Delhi.
Gurprasad Kapoor & Bros.—534, Katra Neel, Chandni Chowk, Delhi.
Handicrafts.—10F, Connaught Place, New Delhi 1.
Hari Chand Jain & Sons.—20, Daryaganj, Delhi 7.
Harish C. Khosla & Co.—Zinat Mahal, Lal Kuan, Delhi 6.
Himalaya Manufacturing & Sales Co.—Park Mansions, Daryaganj, Delhi.
Himalaya Trading Co.—Fatehpuri, Delhi 6.
Hind Overseas Trading Co.—Amar Bhawan, Behind State Bank, Delhi.
Hirdaynath Bhargava & Co.—Ganesh Bazar, Closh Market, Delhi.
International Importers.—1909, Chandni Chowk, Delhi 6.
Jhalani Brothers P. Ltd.—Gali Lohe Wali, Chawri Bazar, Delhi 6.
J. Kishore & Co.—Chandni Chowk, Delhi.
Jagmohandas Mashroowala.—91, Mahabir Bazar, Cloth Market, Delhi.
Jainy Bros., & Co.—Gali Leshwa, Chandni Chowk, Delhi.
Jaintiprasad & Co.—Roshanpura, Nai Sarak, Delhi.
Jamuna Trades Corporation.—Chandni Chowk, Delhi.
Jhalani Bros.—Gali Lohewali, Chawri Bazar, Delhi.
Kalicharan & Co.—Chatta Pratapsingh, Kinari Bazar, Delhi.
Kapurchand & Brothers.—5805, Sadar Bazar, Delhi.
Kantilal & Co.—Ganesh Bazar, Cloth Market, Delhi.
Khanna & Co. Ltd., B.K.—Connaught Circus, New Delhi 1.
Khanna & Sons.—Kucha Ghasvam, Chandni Chowk, Delhi.
Kidarnath Kishinchand.—Ashrafi Katra, Chandni Chowk, Delhi.
Kishorilal & Sons.—Chawri Bazar, Delhi 6.
Kunjlal Sital Pershad Oswal.—Sadar Bazar, Delhi.
L. N. Gadodia & Son Ltd.—Kucha Natwan, Chandni Chowk, Delhi.
Lachhman Dass Ramchand.—Chawri Bazar, Delhi.
Malik Brothers.—Sadar Bazar, Delhi 6.
Milawa Ram Lakamichand.—Sadar Bazar, Delhi.
M. L. Popli & Co.—4, Recquet Court Road, Delhi 6.
Modern Scientific Instrument Co.—Chawri Bazar, Delhi.
Modern Trade Corpn.—5189/9, Sadar Bazar, Delhi 6.
Mongia Bros.—Opp. Kumar Talkies, Chandni Chowk, Delhi.
Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6.
Munshi Ram Manohar Lal.—Post Box 1165, Naj Sarak, Delhi 6.
N. Kiskore & Co.—Esplanade Road, Delhi 6.
Nemchand Narinder Kumar Jain.—216, Chauri Bazar, Delhi 6.
Nirula Brothers.—L Block, Connaught Circus, New Delhi 1.
Norfolk Syndicate (India) Limited.—Opposite Scindia House, Connaught Circus, New Delhi.
Northland (India) Limited.—Opposite Scindia House, Connaught Circus, New Delhi.
Oriental General Agencies.—Hamilton Road, Delhi 6.
Packar Wates & Co.—Chandni Chowk, Delhi.
Pandit Bros.—10F, Connaught Place, New Delhi.
Pohoomal Bros. (India).—Chandni Chowk, Delhi.
Prem Brothers (Regd.).—414, Sadar Bazar, Delhi 6.
Raj Gupta & Co.—Faiz Bazar, Daryaganj, Delhi.
Ram Eashwar & Co.—11, Esplanade Road, Delhi.
Ram Narain Gupta & Bros.—Naya Bazar, Delhi.

RAM KISHEN SETHI & SONS.—537 (283), Chandni Chowk, Delhi 6.

Ramkishore Sharma & Co.—Chandni Chowk, Kucha Ghasi Ram, Delhi.
Ramsingh Kundanlal.—5666, Gandhi Market, Sadar Bazar, Delhi 6.
Ranbaxy & Company Private Ltd.—No. 16, Marina Arcade, P.O. Box No. 104, Connaught Circus, New Delhi.
R. B. Ramji Das & Co.—Sadar Bazar, Delhi 6.
S. N. Sunderson & Co.—1, D. B. Gupta Road, New Delhi 1.

SARNA BROTHERS.—Importers of Indian Handicrafts, Bells of Sarna, Sarna brass, Sarna Sheshamwood. 5B/4, Poorvi Marg, New Delhi 5.

Seth & Co.—Naya Bazar, G. B. Road, Delhi.

SETH RAM NARAIN GUPTA & BROS.—49, G.B. Road, Delhi 6. Importers, Exporters and Stockists of Diesel Oil Engines, Electric Motors and Centrifugal Pumps and spare parts.

SHERMAN BROTHERS.—Sherman Place, Post Box 2512, New Delhi 5. On Government of India's approved list. Importers of Mineral Mine Boring Equipments, Electronics Machines, Tele-Communication—Wireless and every other kinds of Machineries; Exporters of Indian Himalayan rare and absolutely new wonder medicinal-Botanical plants, herbs, drugs, seeds, Polia, Essential oils, Extracts, Gums, Spices, Raw Materials, raw uncut precious stones & other rare species.

S. K. Diwan & Co.—214, Irvin Road, P.B. No. 233, New Delhi 1.
Sohanlal Prem Narain Jain.—V/57, Chandni Chowk, opp. Central Bank, Delhi.
Sri Pal & Co.—219, Chawri Bazar, Delhi 6.
Suraj Bhan Agrawal.—Chawri Bazar, Delhi 6.
Swadeshi Kapra Co.—4056, Ajmeri Gate, Delhi 1.
Tandon Bros.—16, Daryaganj, Delhi.
Tilak Chand Rajendra Kumar Jain.—5198, Sadar Bazar, Delhi 8.
T. J. Kishore & Co.—Cloth Market, Delhi.
Trevillion & Clark.—21-B, Connaught Place, New Delhi.
United Commericial Co.—Gali Qasimjan, Chandni Chowk, Delhi.
Victo.—Esplanade Road, Delhi.
W. S. Bhag Singh & Sons.—Fatehpuri, Delhi 6.
Wellworth Trading Corporation.—82, Joshi Road, Karolbagh, New Delhi 5.
Wood & Co. Ltd., R. J.—Imperial Bank Bldg., Ch. Chowk, Delhi 6.

INK MANUFACTURERS

Bhoota Singh & Co.—Roshanara Road, Subzi Mandi, Delhi.
Jain Ink Mfg. Co.—Sadar Bazar, Delhi.
Kapur & Co.—Roshanara Road, Subzi Mandi, Delhi.
Kores (India) Ltd.—D.A.G. Extn., New Delhi.
S. N. Chatterjee & Co.—Behari Lal Kartar, Ganda Nala, Delhi.
Sun Ink Factory.—Delhi-Shahdra.

IRON CASTINGS

LAKSHMI ENGINEERING WORKS.—Hauz Qazi, Delhi 6.

IRON FOUNDERS

LAKSHMI ENGINEERING WORKS.—Hauz Qazi, Delhi 6.

IRON AND STEEL MERCHANTS

Ananthrai Steel Industries.—2069, Katra Tobacco, Khari Baoli, Delhi 6.
Arjandas Kohli & Co.—Chawri Bazar, Delhi 6.
Bhagirathmal Govind Persad.—Chawri Bazar, Delhi.
Bhagwan Sahai & Co.—Chawri Bazar, Delhi.
Delhi Iron Syndicate Pvt. Ltd.—Ajmeri Gate, Delhi 6.
Dewanchand Pannalal.—Chawri Bazar, Delhi 6.

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Fakir Chand Mohanlal.—Chawri Bazar, Delhi.
Gangabishan Aggarwal.—Chawri Bazar, Delhi.
Godrej & Boyce Mfg. Co., Ltd.—168, Chandni Chowk, Delhi.
Haveli Ram & Sons.—4971, Sirkiwalan, Delhi.
Iron Traders Ltd.—Lal Kuan, Delhi.
Jagannath & Co.—Naya Bazar, G. B. Road, Delhi.
Jairamdas & Sons.—3584, Chawri Bazar, Delhi 6.
Jawaharlal Jain & Co.—3580, Chawri Bazar, Delhi 6.
Jwalanath Bhagwandas.—Chawri Bazar, Delhi.
Khandelwal Bros. Pvt. Ltd.—Hauz Qazi, Delhi 6.
K. Krishna & Co.—Chawri Bazar, Delhi 6.
Lachmandas Jaidayal.—Chawri Bazar, Delhi.
Lachmandas Ramchand.—Chawri Bazar, Delhi.
Manilal & Co.—Chawri Bazar Delhi.
Manoharlal Tirlokchand Jain.—New Rohtak Road, Anand Parbat, New Delhi.
Metal Industries.—28/E/8, East Patel Nagar, New Delhi.

MITTAL BROTHERS.—Manufacturers, Importers, Exporters and Contractors, Chawri Bazar, Delhi 6.

Munalal Ramdayal.—Chawri Bazar, Delhi 6.
Munshilal Omprakash.—Chawri Bazar, Delhi 6.
Parkash Iron & Steel Co.—Hauz Qaji, Delhi.
Pearey Lal Kannumal.—3686, Chawri Bazar, Delhi 6.
Ramchand Bengalimal.—Chawri Bazar, Delhi.
Ram Lal Ascharaj Lal Kapoor.—3499, Sirkiwalan, Delhi.
Ram Lal Grover & Sons.—39, G.B. Road, Delhi.
Rattanlal Rajkishan.—Chawri Bazar, Delhi.
Sumerchand Laxmichand Jain.—Chawri Bazar, Delhi 6.
Tata Industries Ltd.—Connaught Circus, New Delhi.

JEWELLERS

Anoop Singh & Son.—1605, Dariba Kalan, Delhi 6.
Arora Brothers.—28-D, Connaught Place, New Delhi.
Aya Ram Dhawan.—Sarafa Market, Chandni Chowk, Delhi 6.
Babu Mull & Co.—5, Kashmere Gate, Delhi 6.
Ballo Mal Jaggo Mal.—Baidwara, Delhi.
Bhagwandas & Son.—Dariba-kalan, Delhi.
Bhagwan Dass Khanna.—Dariba Kalan, Delhi.
Bhagwan Dass Ram Babu.—3419, Gali Bajrang Bali, Chawri Bazar, Delhi.

BHARATTAJI JEWELLERS (Regd.).—470, Chandni Chowk, Delhi 6. Phone: 25124. Grams: "HARBANSCO."

Bhrattaji Di Hatti.—470, Chandni Chowk, Delhi 6.
Bhola Nath Bros.—Connaught Place, Near Odeon Cinema, New Delhi.
Bimal & Co.—386, Naya Bans, Delhi.
Chagan Lal Magan Lal.—1052, Gali Hira Nand, Maliwara, Delhi.
Cook & Kelvey Ltd.—3, Scindia House, Janpath, New Delhi.
Deepak India.—11-A, Connaught Place, New Delhi.
Gannomal Hoshiarmal.—Gali Krishan Dutt, Maliwara, Delhi.
Ghanshyam Das Panna Lal.—Langreywali Galli, Maliwara, Delhi.
Girdhari Lal.—Maliwara, Delhi.
Girdharilal Brothers.—Opp. Scindia House, New Delhi.
Girdhari Lal & Sons.—9-N, Connaught Place, New Delhi.
Girdharilal Saraf.—Ajmal Khan Road, Karol Bagh, Delhi 5.
Gokuldas & Co.—1190, Maliwara, Delhi 6.
Hazari Lal Umrao Singh.—Gali Lareywali, Maliwara, Delhi.

INDIAN ART EMPORIUM.—Hotel Imperial, New Delhi.

Indian Arts Palace.—19-E, Connaught Place, New Delhi.
Indian Jewellery Trading Co.—Chandni Chowk, Delhi.
Ivory Mart.—22-F, Connaught Place, New Delhi.

IVORY PALACE.—Northern Gate, Jama Masjid, Delhi 6.

JAGANNATH HEMCHAND.—1421, Chandni Chowk, Delhi 6. Dealers in Precious Stones. Manufacturing Jewellers and Curio Dealers.

Jagatnarain & Sons.—64, Janpath, New Delhi.
Jangli Mal Fateh Singh.—938, Maliwara, Delhi.
Johri-di-Hatti.—121, Moti Bazar, Delhi.
K. K. Kapoor.—20/1-F Block, Connaught Place, New Delhi.
Kalicharan & Sons.—Chandni Chowk, Delhi.
Kapur-Di-Hatti.—Connaught Circus, New Delhi.
Kanjimull & Sons.—Scindia House, Janpath, New Delhi.
Kashi Nath Jagan Nath.—Kinari Bazar, Delhi.
Kasim Bhai Motiwala.—2358, Balimaran, Delhi.
Khanna Brothers.—Chandni Chowk, Delhi 6.
Khanna & Co.—1902, Chandni Chowk, Delhi 6.
Kherati Lal & Sons.—80, Janpath, New Delhi.
Khoob Chand Inder Chand.—1385, Maliwara, Delhi.
Kishan Chand T.—22, Sundar Nagar Market, Delhi 1.
Krishna & Sons.—26-F, Connaught Place, New Delhi.
Kundan Lal Parakh.—944, Maliwara, Delhi.
L. Radhey Shyam Maheshwari.—1742, Pipalwali Gali, Dariba Kalan, Delhi.
Lala Ajit Prashad Jain.—2942, Katra Khushal Rai, Delhi.
Lala Atar Chand Jain.—1266, Baid-wara, Delhi.
Lala Babbu Mal Lodha.—Hardayal Street, Chirakhana, Delhi.
Lala Chand Mal Sankwal.—1444, Gali Chipian Maliwara, Delhi.
Lala Chuni Lal Doogar.—1968, Katra Khushal Rai, Kinari Bazar, Delhi.
Lala Dhana Mal Jain.—1819, Chatta Madan Gopal Maliwara, Delhi.
Lala Hari Chand Malu.—2214, Kinari Bazar, Delhi.
Lala Hari Singh Mehra.—7, Court Road, Delhi.
Lala Hazari Lal, Rakyan.—1863, Chira Khana, Delhi.
Lala Hem Chand Jain.—1042, Gali Hira-Nand Maliwara, Delhi.
Lala Inder Chand Bothra.—1045, Gali Hira-Nand, Maliwara, Delhi.
Lala Jamuna Das Surana.—Gali Chipian, Maliwara, Delhi.
Lala Jeewan Lal Bohra.—1054, Gali Hiranand, Maliwara, Delhi.
Lala Jiwanlal Bothra.—1454, Gali Chipian, Maliwara, Delhi.
Lala Joramal.—Dharampura, Delhi.
Lala Kapoor Chand Bothra.—4144, Nai Sarak, Delhi.
Lala Khem Chand Parakh.—1052, Gali Hira-Nand, Maliwara, Delhi.
Lala Khushal Singh.—1823, Chandni Chowk, Delhi.
Lala Kokanmal.—550, Kucha Patiram, Delhi.
Lala Man Mohan.—1054 Gali Hira-Nand, Maliwara, Delhi.
Lala Munna Lal Jain.—1818 Chirakhana, Delhi.
Lala Nanak Chand Tongiya.—1127, Chatta Madan Gopal, Delhi.
Lala Narain Dass Dhunsar.—Maliwara, Delhi.
Lala Narendra Kumar Luniya.—Gali Bhairon wali, Nai Sarak, Delhi.
Lala Om Prakash Maheshwari.—Moti Bazar, Chandni Chowk, Delhi.
Lala Panna Lal Chajlani.—979, Bhojpura, Maliwara, Delhi.
Lala Panna Lal Tater.—Baidwara, Delhi.
Lala Radhey Lal Maheshwari.—Moti Bazar, Delhi.
Lala Ram Gopal Maheshwari.—1743, Gali Pipalwali, Dariba, Delhi.
Lala Ratanlal Tater.—1040, Maliwara, Delhi.
Lala Shivcharandas Khanna, C/o Jagat Talkies Distributors.—3rd floor, Chandni Chowk, Delhi.
Lala Shanti Lal Maheshwari.—1622, Kashmiri Gate, Delhi.
Lala Shri Chand Jain.—1371, Baidwara, Delhi.
Lala Sultan Singh Jain.—Maliwara, Delhi.
Lala Suraj Lal Jain.—Baidwara, Delhi.
Lal Chand Ratan Lal.—Chandni Chowk, Delhi.
Laloo Mal Bijay Singh.—1268, Baidwara, Delhi.
Mahaboob Singh Jain & Sons.—Dariba Kalan, Delhi 6.
Mangi Lal Rikhab Chand.—Chirakhana, Delhi.
Manohar Lal Bujjan Mal.—Janpath Hotel, New Delhi.
Manohar Lal & Sons.—Connaught Circus, New Delhi.
Miri Mal Nem Chand.—1788, Dariba Kalan, Delhi.
Mukhamal Gokal Chand.—Chandni Chowk, Delhi.
Mukhamal Ram Narain.—K-Block, Connaught Place, New Delhi.
Multan Singh Adishwar Lal.—1191, Maliwara, Delhi.
Munna Lal Dalel Mal.—Gali Hardayal, Chirakhana, Delhi.
Nanak Chand.—Radhey Krishan, Dariba Kalan, Delhi.
Nanak Chand Kastoor Chand.—Bhojpura, Maliwara, Delhi.
Nathumal & Sons.—Maliwara, Delhi.
Oswal Jewellers.—46, Basti Harphool Singh, Delhi 6.
Pandit Harbaksh.—Chhateesghara, Kinari Bazar, Delhi.
Panna Lal & Sons.—1311, Baidwara, Delhi.
Piyarey Lal Dalel Singh.—2006, Naughara, Maliwara, Delhi.
Pooran Chand Ratan Lal.—1042, Gali Hira Nand, Maliwara, Delhi.
Rama Jewellers.—98, Dariba Kalan, Delhi 6.
R. D. Ram Nath.—Jama Masjid, Delhi.
Ram Ratandas & Son.—Chandni Chowk, Delhi.
Roop Chand Bros.—Chandni Chowk, Delhi.
Roop Chand Jewellers.—11-C, Connaught Place, New Delhi.
Sanwal Das Chottey Lal.—Rajinder Niwas, 456, Maliwara, Delhi.
Shanti Vijay & Co.—52, Janpath, New Delhi.
Sital Das & Sons.—6-F, Connaught Place, New Delhi.

SUMTIDASS & BROS.—18, Regal Building Arcade, New Delhi.

LABORATORY INSTRUMENTS MANUFACTURERS

SCIENTIFIC EQUIPMENT WORKS.—Nicholson Road, Delhi 6. Manufacturers of Microscopes, Surveying instruments, Laboratory Apparatus, Soil-Cement Concrete Textile Bitumen Testing Equipment.

LOCK & SAFE MANUFACTURERS

Aligarh Metal Mart.—284, Aliganj, New Delhi.
Godrej & Boyce Mfg. Co. Pvt. Ltd.—Ajmeri Gate Extn., New Delhi.
Latham Abercrombie & Co. Pvt. Ltd.—D.A.G. Extn., New Delhi.
New Rattan Safe Factory.—70, Gokhale Market, Delhi.
Western Engineering Co.—Library Road, Delhi 6.

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DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. All your requirements in Lubrication Equipment from the Smallest Grease Nipple to the Biggest Service Station Equipment.

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MACHINERY MFRS., IMPORTERS AND DEALERS

Agarwal Pumps & Machinery Corporation.—Naya Bazar, Delhi 6.
Agricultural Engineering Co.—Naya Bazar, Delhi 6.
Ambee Machinery Mart.—Naya Bazar, Delhi.
A. N. Seth & Company.—53, G. B. Road, Delhi 6.
Arjan Singh Khem Chand.—8-B. Jindal Trust Bldg., Ajmeri Gate Extension, New Delhi.
Arya Manufacturing Co.—69, G. B. Road, Delhi 6.
Ashoka Machinery Stores.—65, G. B. Road, Delhi 6.
Aster Engineering Co. (Regd.).—Queen's Road, Delhi.
A-Z Electrical Corporation.—49, G. B. Road, Delhi 6.
Auto Industrial Bearing Co.—Naya Bazar, Delhi 6 .
Azad Engineering Co.—Naya Bazar, Delhi 6.
Bajaj Machinery Store.—42, G. B. Road, Delhi 6.
Balbir Bros. Pvt. Ltd.—47, Lekh Ram Road, Daryaganj, Delhi.
Ball Bearing & Machinery Stores.—2571, G. B. Road, Delhi 6.
Banwari Lal Sham Lal.—60, G. B. Road, Delhi 6.
Banarsidass Engineering Co.—Naya Bazar, Delhi 6.
Batliboi & Co.—G. B. Road, Delhi 6.
Benlaks (India) House.—71, G. B. Road, Delhi 6.
Bery Engineering Co.—Naya Bazar, Delhi.
Bhagwandas & Sons.—Naya Bazar, Delhi.
Bhandari Machinery Co., Ltd.—Naya Bazar, Delhi 6.
Bharat Engineering Corporation.—33, Kamla Market, New Delhi.
Bharat Engineering Corp. (of Lahore).—Naya Bazar, G. B. Road, Delhi.
Bharat Engineering & Mfg. Co.—New Rohtak Road, New Delhi.
Bharat Imports & Exports.—57, G. B. Road, Delhi 6.

BHARAT NATIONAL FOUNDRY.—Motia Khan, New Delhi.

Bombay Machinery Co.—Lahori Gate, G. B. Road, Delhi.
Central Engineering Co.—Mohalla Niyaryan Chowk, G. B. Road, Delhi 6.
Chopra & Company.—150, Kamla Market, New Delhi.
C. R. Mehra & Co.—62, G. B. Road, Delhi 6.

DELHI ENGINEERING CO.—Naya Bazar, Delhi 6. Second hand Machinery Dealers in Vertical Boilers, generators and Sugar Machinery.

Delhi Garage Pvt. Ltd.—Connaught Circus, New Delhi.
Dewan Sohan Lal & Co.—Naya Bazar, G. B. Road, Delhi.
Dheru Mal Kapur & Sons.—66, G. B. Road, Delhi 6.
Diwan Chand & Co.—74, G. B. Road, Delhi 6.
Doyal & Co., H. M.—Lahori Gate, G. B. Road, Delhi.
"Escorts" (Agents) Private Ltd.—Pratap Building, Connaught Circus, Post Box No. 187, New Delhi.
Expert Electric Works.—45, G. B. Road, Delhi 6.
Ganesons Machinery Corporation.—Naya Bazar, G. B. Road, Delhi.
G. D. Siegell & Pvt. Co.—Church Road, Kashmere Gate, Delhi 6.
General Electric & Machinery Stores.—42, G. B. Road, Delhi 6.
G. J. Bros. & Sons.—Lahori Gate, G. B. Road, Delhi.
G. L. Khanna & Sons.—65, G. B. Road, Delhi.
Gobind Bearing & Mill Stores.—11, Taj Bldg., G. B. Road, Delhi 6.
Golden Machinery Store Co.—61, G. B. Road, Delhi 6.
Gupta Electric & Machinery Stores.—51, G. B. Road, Delhi 6.
Guran Das & Co.—Lahori Gate, G. B. Road, Delhi.
Handa Ice & General Machinery Supply Corporation.—66, G. B. Road, Delhi 6.
Hans Raj & Co., J. R.—Naya Bazar, Delhi.
Hari Sales Agency.—39, G. B. Road, Delhi 6.
Harischandra & Co.—Naya Bazar, G. B. Road, Delhi.
Harish Bros. (Regd.).—Naya Bazar, Delhi.
Hazura Mall Kundan Lall.—63, G. B. Road, Delhi 6.
Hind Engineering Company.—57, G. B. Road, Delhi 6.
Hindustan Electric & Mill Store Co.—58, G. B. Road, Delhi 6.

HINDUSTAN ENGINEERING & MFG. CO.—34, D. L. F's. Industrial Area, Motinagar, New Delhi 15. Manufacturers of Radial & Drilling Machines, Lathe Machines, Flexible Grinders, Vibrators of all types, Concrete Mixers, etc.

Hindustan Machinery Store.—Naya Bazar, G. B. Road, Delhi.
H. M. Doyal & Co.—55, G. B. Road, Delhi 6.
Ice Machinery Co.—66-67, G. B. Road, Delhi 6.
Ideal Piston Mfg. Co.—Old Rohtak Road, Delhi 6.
Imperial Engineering Co.—Naya Bazar, Delhi.

INDO-EUROPA TRADING CO.—1390, Chandni Chowk, Delhi.

International Electric & Machinery Stores,—5387, Light Bldg., G. B. Road, Delhi 6.

JAI BHARAT TRADING CO.—Naya Bazar, Delhi.

J. Mahabeer & Co. Private Ltd.—Faiz Bazar, Daryaganj, Delhi 7.
Jakson & Co.—29, Kamla Market, New Delhi.
Jangbahadur Singh & Sons.—Kanson House, Asaf Ali Road, New Delhi.
Jansevak Machinery Store.—71, G. B. Road, Delhi 6.
Janta Machine Co.—Naya Bazar, Delhi 6.

JAY DEE BROTHERS.—63, G. B. Road, Delhi 6. Sole Distributors for "JAY DESH" Tools

Jaycee Machinery Mart.—52, G. B. Road, Delhi 6.
Jayems Engineering Co.—39, M. Block, Opp. Telephone Exchange, Connaught Place, New Delhi.
Kabra House of Modern Machinery.—78, G. B. Road, Delhi 6.
Kalpurja Company.—72, G. B. Road, Delhi 6.
Kapila Brothers.—Naya Bazar, Delhi 6.
Karam Singh Gian Singh Chhabra.—Naya Bazar, Delhi.
K. B. Sons.—Naya Bazar, G. B. Road, Delhi.
Khattar Hardware Mfg. & Machinery Store.—65, G. B. Road, Delhi 6.

KHEMCHAND BAHADARCHAND AHUJA.—Ahuja Mansion, 67, G.B. Road, Delhi 6.

Kriros P. Ltd.—173, Kamla Market, New Delhi.
Krishna Water Supply Co.— G. B. Road, Delhi 6.
Lahore Machinery Corporation.—Katra Raji, G. B. Road, Delhi.
Lakshmi Engineering Works.—Hauz Kazi, Delhi 6.

LAL SONS & CO.—1663/1, Queen's Road, Delhi 6. Manufacturers of High Class Baby Boiler Tyre & Tube Valcanizing Machines and Air Compressor sets.

Laldee P. Ltd.—Naya Bazar, Delhi 6.
Lyallpur Machinery Co.—69, G. B. Road, Delhi 6.
Machinery & Allied Stores.—77, G. B. Road, Delhi 6.
Machinery & Oil Store Co.—Naya Bazar, Delhi.
Machines & Spares (India) Ltd.—24, Daryaganj, Delhi 7.
Madan Engineering Tool Products.—57, G. B. Road, Delhi.
Mahalaxmi Machinery Stores.—72, G. B. Road, Delhi 6.
Makhan Singh Amar Nath.—77, G. B. Road, Delhi 6.
Manilal & Brothers.—Chawri Bazar, Delhi 6.
Mano Ramesh & Co.—Lahori Gate, G. B. Road, Delhi.
Mans Ramesh & Co.—12, Taj Building, G. B. Road, Delhi 6.
Mediratta Engineering Corporation.—80, G. B. Road, Delhi 6.
Mills Store Co. (Delhi) P. Ltd.—62, G. B. Road, Delhi 6.

MILHARD & CO.—Importers, Tools and Machinery Merchants. Hauz Qazi, Post Office Building, Delhi 6.

Modern Machinery Store Co.—Naya Bazar, Delhi.
Moti Ram & Sons.—65, G. B. Road, Delhi 6.
National Electrical & Engg. Corpn.—169, Kamla Market, New Delhi.
National Electric & Machinery Stores.—5386, Light Bldg., G. B. Road, Delhi 6.
National Engineering Co.—Naya Bazar, Delhi.

NATIONAL MACHINERY STORES.—79, G.B. Road, Delhi 6. Dealers in all kinds of Ball Bearings, Rubber, Canvas Beltings and high quality Hair Belting. Phone : 20632.

Nav Bharat Engineering Co.—Naya Bazar, Delhi 6.
New India Mfg. Co.—Chowk Niarian, 2851, G. B. Road, Delhi 6.
Oriental Engineering Works. P. Ltd.—78, G. B. Road, Delhi 6.
Parbhat Mill Stores.—69, G. B. Road, Delhi 6.
Parhawk Co.—11, Esplanade Road, Delhi.
P. G. Bansil & Co.—69, G. B. Road, Delhi. 6
Pindi Das & Co., P. Ltd.—81, G. B. Road, Delhi 6.
Planners & Engineers (Hind) P. Ltd.—42, G. B. Road, Delhi 6.
Popular Machinery Store.—2449, Behind G. B. Road, Delhi 6.
Power Tools & Appliances Co.—Kashmere Gate, Delhi 6.
P. Ratilal & Co.—7/9, Singhsabha Road, Near Clock Tower, Subzi Mandi, Delhi.
Precision Machinery Co.—51, G. B. Road, Delhi 6.

PREM BROTHERS.—Electrical Engineers, 73, G. B. Road, Delhi 6. Manufacturers of 'Power Master' Motorised Double Ended Grinders & Polishers.

Punjab Machinery Mart.—54, G. B. Road, Delhi.
Punjab Steel Works.—Naya Bazar, G. B. Road, Delhi.
Raghunath Brothers, Naya Bazar, Delhi 6.
Raj Engineering Works Ltd.—8/32, Ajmeri Gate, Delhi.
Ram Krishna Kulwant Rai.—50, G. B. Road, Delhi 6.
Ram Narain Gupta & Bros.—Lahori Gate, G. B. Road, Delhi.
Rama Machinery Store Co.—61, G. B. Road, Delhi 6.
Raunaq & Co. P. Ltd.—Hauz Qazi, Delhi 6.
R. D. Sehgal & Sons.—79, G. B. Road, Delhi 6.
Refrigerators (India) Ltd.—Scindia House, Connaught Circus, New Delhi.
Reliable Machinery Supply Co.—Katra Raji, G. B. Road, Delhi.
Reliance Agencies.—2517, Chowk Niarian, G. B. Road, Delhi 6.
Royal Mills Store Co.—61, G. B. Road, Delhi 6.
S. C. Kumar & Co.—59, G. B. Road, Delhi 6.
S. D. Nanda & Sons.—56, G. B. Road, Delhi 6.
S. D. Sharma & Co.—58, G. B. Road, Delhi 6.
Seth & Co., A. N.—53, G. B. Road, Delhi 6.
Seth & Sons, S. R.—Naya Bazar, G. B. Road, Delhi.

SETH RAM NARAIN GUPTA & BROS.—49, G. B. Road, Delhi 6.

SHAKTI PULLEY MANUFACTURING CO.—Specialists in Manufacturing of W.I. & C.I. Pullies, 5391-92, Light Building, G. B. Road, Delhi 6.

Shiv Narain Sawhney.—53, Japan Bldg., 5307-8, G. B. Road, Delhi 6.
Sharma Engineering Co.—Naya Bazar, Delhi.
Sharma, Sharma & Sons.—Naya Bazar, Delhi 6.
S. M. Singh & Co.—71, G. B. Road, Delhi 6.
S. N. Mechanical Engg. Works.—2860/5, Mohalla Shahganj, G. B. Road, Delhi 6.

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S. R. & Company.—5339/52, G. B. Road, Delhi 6.
S. R. Seth & Sons.—170, Kamla Market, New Delhi.
Sri Krishna Machinery Mfg. Co.—VII/5055 Sirkiwalan Bazar, Delhi 6.
Standard Spares & Mechanical Works.—2443, G. B. Road, Delhi 6.
Star Engineering Co.—Naya Bazar, Delhi 6.
Supreme (India) Trading Co.—77, G. B. Road, Delhi 6.
Supreme Trading Corporation.—2877, Shah Ganj, G. B. Road, Delhi 6.
Talwar & Co.—Lahori Gate, G. B. Road, Delhi.

TRADING ENGINEERS.—50, G.B. Road, Delhi 6. Distributors : Jyoti Ltd., Baroda for Pumps, Motors & Switchgears.

United India Machinery Agencies.—47, G. B. Road, Delhi 6.
United Steel Industries.—Naya Bazar, G. B. Road, Delhi.
Universal Engineering Corpn.—Najafgarh Road, New Delhi 15.
Vijay Kumar & Co.—Lahori Gate, G. B. Road, Delhi.
Vijay Machinery Corpn.—9-B, Jindal House, Asaf Ali Road, New Delhi.

WESTERN MANUFACTURING CO. (DELHI) PRIVATE LTD.—57, Jor Bagh, New Delhi 3. Manufacturers of Flexible Couplings. Sole Agents for the Indian Union of Birtley Engineering Ltd., Birtley County, Durham, New Castle on-Tyne for Coal Washery Plants, Eberhard Bauer, Easlingen Neckar, West Germany for Geared & Drum Motors.

Widge & Co.—Naya Bazar, Delhi 6.
Worthington Simpson Ltd.—123, Baird Road, New Delhi.

MACHINERY AND PRECISION TOOLS MANUFACTURERS

GLOBE ENGINEERING CO.—2524, G.B. Road, Delhi 6. Manufacturers of Grade I Heavy duty Pedestal grinder and Revolving Centres. Other Products : Gear cutting and Dividing Attachment, Test Bars, Plug & Ring Gauges, Arbors Knurling Holders, Knuris, etc.

MANUFACTURERS' REPRESENTATIVES

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

SETH RAM NARAIN GUPTA & BROS.—49, G.B. Road, Delhi 6.

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SUBHASH CHANDER SUDARSHAN KUMAR.—5661, Gandhi Market, Sadar Bazar, Delhi 6. Guaranteed Straight and Accurate Mild Steel Bright-drawn Highly polished shaftings.

MATHEMATICAL & SCIENTIFIC INSTRUMENTS

G. S. KASHYAP & SONS.—Pataudi House, Daryaganj, Delhi.

Krishna Models Mfg. Co.—24, Naiwala, Karolbagh, New Delhi.
National Trading Co. Ltd.—555, Esplanade Road, Delhi.
Nursery School & Home Equipment Co.—1399, Pahari Imli, Jama Masjid, Delhi 6.
Rekha Industries.—30, Okhla Industrial Estate, New Delhi 20.

MECHANICAL AND STRUCTURAL ENGINEERS

CIVIL ENGINEERING CO.—Smaj Road, Karolbagh, New Delhi.

MILL GIN STORES SUPPLIERS

Associated Textile Engineers.—Chawri Bazar, Delhi.

CHUTTAN LALL MATTUMAL.—Chawri Bazar, Delhi 6.

Delhi Machinery Stores.—Chawri Bazar, Delhi.
Delhi Mill Stores.—Chawri Bazar, Delhi.
Hindustan Mill Stores Co.—3232, Chomukha Mandir Street, Hauz Kazi, Delhi 6.
Jhalani Brothers.—Gali Lohe Wali, Chawri Bazar, Delhi.
J. M. Bodiwala & Sons.—Chawri Bazar, Delhi.
Khanna & Sons., G. L.—Lahori Gate, G. B. Road, Delhi.
Seth & Co., A. N.—Katra Raji, G. B. Road, Delhi.

MINERAL MERCHANTS

THAKKAR TRADING CO.—7/2, Rajendra Nagar, New Delhi 5. Phone : 54986, Foremost Suppliers of Asbestos Magnesia 85 per cent Hard Setting Composition, Fire Cement and Graphite Powder.

MINING MACHINERY SECTION

Kilburn & Co., P. Ltd.—28, Barakhamba Road, New Delhi 1. Manufacturers and Suppliers of Coal Mining Haulages and Diamond Drilling Bits.

MOTOR BODY-BUILDERS

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

MOTOR CARS AND TRUCKS

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

MOTOR TYRES AND ACCESSORIES

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

NEWSPAPERS AND PERIODICALS

Agricultural Situation in India (Monthly).—Civil Lines, Delhi.
All-India Motorist (Monthly).—D-24, Odeon Bldg., New Delhi.

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NEWS AGENTS & BOOKSELLERS

90/8, Connaught Circus, New Delhi

Beecham's India Air Guide (Monthly).—M. Block, M-6, Radial Road, No. 7, New Delhi.
Chitra (Weeekly).—Bhagirath Palace, Chandni Chowk, Delhi 6.
Commerce & Industry (Weekly).—Prabhudayal Bldg., Connaught Circus, New Delhi.
Congress Bulletin (Monthly).—7, Jantar Mantar Road, New Delhi.
Congress Sandesh (Weekly).—Jantar Mantar Road, New Delhi.
Daily Pratap (Daily).—Mathura Road, New Delhi.
Daily Watan (Daily).—Chandni Chowk, Delhi.
Eastern Economist (Weekly).—52, Queensway, New Delhi.
Food & Farming (Monthly).—D-24, Odeon Bldg., P.O. Box 540, New Delhi.
Hindustan (Daily).—Connaught Circus, New Delhi.
Hindustan Standard (Daily).—Qutab Road, Delhi.
Hindustan Saptahik (Weekly).—Connaught Circus, New Delhi.
Hindustan Times (Daily).—Connaught Circus, New Delhi.
Indian Express (Daily).—Mori Gate, Delhi.
Indian Farming (Monthly).—I.C.A.R., Queen Victoria Road, New Delhi.
Indian Labour Gazette (Monthly).—Civil Lines, Delhi.
Indian Listener (Weekly).—Curzon Road, New Delhi.
Jan Kalayan (Quarterly).—Lakshmi Insurance Bldg., New Delhi.
Journal of the United Service Institution of India (Quarterly).—Kashmir House, New Delhi.
Journal of Industry & Trade (Monthly).—Civil Lines, Delhi.
Kurukshetra (Monthly).—CPA., Rashtrapati Bhavan, New Delhi.
Medical Review of Reviews (Monthly).—Post Box 1160, Burn Bastion Road, Delhi.

NAVBHARAT TIMES (Daily).—10, Daryaganj, Delhi.

Overseas Hindustan Times (Weekly).—Connaught Circus, New Delhi.
People (Weekly).—19-C Block, Connaught Place, New Delhi.
Picturegoer (Monthly).—92, Daryaganj, Delhi.
Prasarika (Quarterly).—Post Box 2011, Delhi.
Sainik Samachar (Weekly).—F-Block, D.H.P.Q., New Delhi.
Statesman (Daily).—Connaught Circus, New Delhi.
Swarajya (Daily).—Dharam Nagar, Naiwara, Chawri Bazar, Delhi.
Tax & Commercial Reports (Monthly).—M-27, Connaught Circus, New Delhi.
Taxation.—3, Daryaganj, Delhi 7.

TIMES OF INDIA (Daily).—10, Daryaganj, Delhi.

OFFICE EQUIPMENT

Blackwoods India Ltd.—D.A.G. Extension, New Delhi.
General Equipment Merchants Ltd.—2/90, Connaught Circus, New Delhi.
Gestetner Duplicators Pvt. Ltd.—9, Scindia House, New Delhi.

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GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

Godrej & Boyce Mfg. Co., Private Ltd.—Lakshmi Insurance Bldg., Asaf Ali Road, New Delhi.
Kilburn & Co., Private Ltd.—28, Barakhamba Road, New Delhi.
Kores (India) Pvt. Ltd.—22-A, Asaf Ali Road, New Delhi.
Remington Rand of India Ltd.—Asaf Ali Road, New Delhi.
Roneo Ltd.—Bombay Life Bldg., Connaught Circus, New Delhi.
Showrie Bros.—2A, DLF Industrial Area, Najafgarh Road, New Delhi 15.

OIL & OILSEED MERCHANTS

JAYANT OIL TRADERS,—No. 1, Coronation Hotel Building, Fatehpuri, Delhi-6. Phones: 28567. (Office), 20278 (Res.). Grams: "SADVICHAR".

OPTICIANS & OPTICAL GOODS MANUFACTURERS

Accurate Optician.—67/1, Rohtak Road, New Delhi 5.
British Optical Co.—Ch. Chowk, Delhi 6.
C. N. Harison Ltd.—C. Block, Connaught Place, New Delhi 1.

CAPITAL OPTICAL CO.—1391, Chandni Chowk, Delhi 6. Phone: 20514. Importers, Manufacturers and Stockists for Optical goods, Frames, Lenses, Cases, Bifocals, Microscopes, Binoculars, Magnifiers, Prisms, Condensors, Mirrored and Scientific lenses.

Charandas Khanna & Sons.—1, Ch. Chowk, Delhi 6.
Combined Services P. Ltd.—4-C, Connaught Place, New Delhi.
Comrades Optical Co.—5245, Ballimaran St., Delhi 6.
Comrades Spectacles Mart.—102, Qutab Road, Delhi 6.
Delhi Optical Co.—Ch. Chowk, Delhi 6.
Dhawan Optical Industries.—19, Beadonpura, Karol Bagh, Delhi 5.
Everest Optician.—Chowk Gurdwara Road, Karol Bagh, Delhi 5.
Faridabad Optical Industries.—Faridabad (Near Delhi).

GROVER SONS.—Post Box 1665, Fountain, Delhi 6. Phone: 27274. Grams: "FRAME". Manufacturers of Metallic Spectacle Frames and Goggles, etc. Factory: 56, A, Dilshad Garden, G.T. Road, Delhi-Shahdara. Manager: N. K. Grover.

Imperial Optical Works.—K. Baryan, Fatehpuri, Delhi 6.
Karachi Optical Co.—Ch. Chowk, Delhi 6.
Kataria Optical Co.—Fatehpuri, Delhi 6.
Kay Kay Optical Industries.—Mehrauli P.O., Delhi.
Kirparam & Sons.—Connaught Circus, New Delhi.

KUMAR & CO., M. M.—Fatehpuri, Delhi 6.

Laxmi Opticians.—Hardhyan Singh Road, Delhi 5.
Marshal Optical Co.—Krishna Market, Karol Bagh, Delhi 5.
Modern Optical Co.—Ch. Chowk, Delhi 6.
Mumick Ltd.—12-B, Connaugnt Place, New Delhi.
Nagpal, G. R., & Sons.—Near Fountain, Ch. Chowk, Delhi 6.
Nagpal Optical Co.—Industrial Area, Najafgarh Road, New Delhi.
New Optical House.—124, M. Market, Connaught Circus, New Delhi 1.
Onilco Opticians.—112, Baird Road, Delhi 1.
Optical Corner of India.—D/26, Connaught Place, New Delhi 1.
Optiko Industries.—10980, Sat Nagar, Karol Bagh, Delhi 5.
Punjab Optical House.—740, Ch. Chowk, Delhi 6.
President Optical Co.—Fountain, Delhi 6.

PUNJAB SPECTACLES CO.—1458, Fountain, Chandni Chowk, Delhi 6.

Rama Opticians.—Gurdwara Road, Karol Bagh, Delhi 5.

RASHTRIYA OPTICAL TRADERS.—4, Daryaganj, Post Box 1154, Delhi 6. Manufacturers, Importers & Exporters. Phone: 27397. Grams: "VISION."

Rup Basant Bros.—629, Chandni Chowk, Delhi 6.
Sabharwal Opticians.—Ajmal Khan Road, Delhi 5.
Shri Kishen & Sons P. Ltd.—7/90, Connaught Circus, New Delhi.
Sushil Opticians.—5/38, W.E.A., Delhi 5.

UP-TO-DATE OPTICAL WORKS (Regd.)—21, Beadon Pura, Karol Bagh, New Delhi 5.

PAINTS, ENAMELS AND VARNISHES

Abrol & Co. P. Ltd., R. C.—E. Block, Connaught Place, New Delhi.
Anand Brothers.—Pahar Ganj Road, New Delhi 1.
Bawa Paints (Private) Ltd.—Katra Barien, Delhi.
B. Harnam Singh & Sons.—Chandni Chowk, Delhi.
Bharat Chemical Works.—Katra Barien, Delhi.
B. Keser Singh & Sons.—Katra Barien, Delhi.
Calcutta Paint Mart.—Katra Barien, Delhi.
Delhi Colour Paint Mart.—Fatehpuri, Delhi.
Dewan Chand & Sons.—41, G. B. Road, Delhi 6.
Duarka Dass & Sons.—Katra Barien, Delhi.
Duelac Paints Corporation.—Katra Barien, Delhi.
Ford Paint Co.—B, Lal Kuan, Delhi.
G. S. Harnam Singh.—Fatehpuri, Delhi.
Harish C. Khosla & Co.—Zinat Mahal, Lal Kuan, Delhi 6.
Himalaya Trading Co.—Fatehpuri, Delhi 6.
India Trading House.—Fatehpuri, Delhi.
Jain Chemical Works.—Katra Barien, Delhi.
Kailash Bros. Ltd.—Chandni Chowk, Delhi 6.
Khalsa Bros.—Roshanara Road, Delhi 6.
Khurana Bros.—1742, Nai Baoli, Delhi 6.
Lakshmi Paint House.—Katra Barien, Delhi.
Lalit & Co.—Fatehpuri, Delhi.
Mehra Paint Mart.—B. Katra Barien, Delhi.
Parkash Brothers.—Katra Barien, Delhi.
Punjab Colour Paint Mart Co.—B. Katra Barien, Delhi.
R. S. Chaudhry Ramjilal & Sons.—B. Katra Barien, Delhi.

RABBI PAINT COLOUR & VARNISH CO.—Kabil Attar, Chandni Chowk, Delhi 6.

Ram Prakash & Sons.—Fatehpuri, Delhi.
Saluja & Co.—Katra Barien, Delhi.
Sant Ram Parmanand.—Fatehpuri, Delhi.
Santram Nikkamal.—Fatehpuri, Delhi.
Shadi & Co.—Fatehpuri, Delhi.
Shakti Paint House.—Katra Barien, Delhi.
Suresh Brothers.—64, G. B. Road, Delhi 6.
Thakkar Trading Co.—7/2, Raj Nagar, Delhi 5.

UNITED BUILDING STORES.—Siddiq Building, G. B. Road, Delhi 6. Wholesale Stockists: White cements, Rubber and Cement Colours, Marble Chips, Tiles, Floor Polishing Material, Paints, Fireclay, Firebricks, Red & Yellow Ochres, Coaltar, Chinaclay, French Chalk etc. Cemseal & Waterlock Cement Waterproofing Compounds. Phone: 23345. Grams: "UNISTORES."

United Commercial Syndicate.—Fatehpuri, Delhi.
W. S. Bhag Singh & Sons.—Katra Barien, Delhi.

PAINT & VARNISH MANUFACTURERS

Anglo Dutch Paint Colour & Varnish Works (Pvt.) Ltd.—50, Najafgarh Road, New Delhi.
Ashoka Paint & Chemical Works.—4411, Nai Sarak, Delhi 6.
Asia Chemicals Ltd.—E. Park Road, Delhi 5.
Asian Oil Paints Co. (I) P. Ltd.—6/9, E. Patel Nagar, New Delhi 12.
Bhagsons Paint Industries.—Katra Barien, Fatehpuri, Delhi.
Bharat Paint House.—Chandni Chowk, Delhi.
British Paint (India) Ltd.—D.A.G. Extn., New Delhi.

DELHI PAINTS CORPORATION.—Manufacturers of paints, Lacquers and Thinners. M-51, Connaught Circus, New Delhi. Phones: 45586 (Office), 54786 (Factory), 55708 (Res.).

Elephant Oil Mills P. Ltd.—9/1, Asaf Ali Road, New Delhi.
Fleming, John & Co. Pvt. Ltd.—Choudhury Bldg., Connaught Circus, New Delhi.
Goodlass Nerolac Paints P. Ltd.—9-10/3, Asafali Road, New Delhi.
Hoyle Robson, Barnett & Co. Ltd.—1-6B, Ajmeri Gate Extn., New Delhi.
Imperial Paint & Varnish Works.—Motia Khan, Nawabganj, Delhi.
Jallo Subsidiary Industries Co. India Ltd.—7/33, Daryaganj, Delhi.
Jayana Fine Colour & General Works.—Raghunath Nagar, Bela Road, Delhi.
Jenson & Nicholson India Ltd.—Kashmere Gate, Delhi.
Jessop & Co. Ltd.—Indra Palace, Connaught Circus, New Delhi.
Jumna Paint, Colour & Varnish Works.—Faiz Bazar, Delhi.
Kailash Brothers Pvt. Ltd.—Near Grindlay's Bank, Chandni Chowk, Delhi.
Kohinoor Paint, Colour & Varnish Works.—155, Katra Barian, Delhi 6.
Manohar Paint Co.—3011, G. B. Road, Delhi.

MERA CHEMICALS.—74, G. B. Road, Delhi 6.

Metro Paint Industries.—260, Kamla Market, New Delhi.
Nagarth Paint Ltd.—2, Keeling Road, New Delhi.
Northern India Paint, Colour & Varnish Co. Pvt. Ltd.—P.O. Box No. 379, New Delhi.
Pyroylin Products.—Roshanara Road, Delhi.
Ram Parkash & Sons.—6490, Fatehpuri, Delhi 6.
Ravi Paint, Colour & Varnish Works.—Choudhury Lodge, Illahibux Road, Karolbagh, New Delhi.
Roshanara Paints & Varnish Works.—P.B. No. 1587, Delhi 6.
Shalimar Paint, Colour & Varnish Co. Ltd.—9A, Connaught Place, New Delhi.
Spraylac Paint Corporation.—9, Faiz Bazar, Delhi.
Sunlight Paints Mfg. Co.—Fatehpuri, Delhi.
Swastik Colour & Paint Industries.—10, Sham Bhawan, Faiz Bazar, Delhi.

PAPER MERCHANTS

A. C. Goel & Sons.—Chawri Bazar, Delhi.
Amar Singh Dhoomi Mal.—Chawri Bazar, Delhi.
Bansi Dhar Kapoor & Sons (Regd.).—Chawri Bazar, Delhi.
Behari Lal Madan Lal.—Mahalaxmi Market, Chandni Chowk, Delhi.
Bengal Paper Mills Co. Ltd.—Banerjee Bldg., Asaf Ali Road, New Delhi.
Bhagwat Parshad & Sons.—Chawri Bazar, Delhi.
Bhola Nath Rachho Mall.—Fatehpuri, Delhi.
Birdhi Chand Naunag Ram.—Khari Baoli, Delhi.
Birdhi Chand Jain & Sons.—Chawri Bazar, Delhi.

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B. N. Mehra & Co.—Importers, 5198, Sadar Bazar, Delhi 6.
Dalmia Cement & Paper Marketing Co. Ltd.—Scindia House, Queensway, New Delhi.
Daswani Mal Kapoor & Sons.—Chawri Bazar, Delhi 6.
Eastern Paper Mart.—Chawri Bazar, Delhi.
Frank Bros. & Co.—Chandni Chowk, near Dariba, Delhi.
Friends Paper Co.—Chawri Bazar, Delhi 6.
Ganga Saran & Sons Ltd.—Chawri Bazar, Delhi.
Ghasita Mal Mela Ram.—Chawri Bazar, Delhi.
Govil & Co.—207, Chawri Bazar, Delhi 6.
Import Export Sales Co.—Chawri Bazar, Delhi 6.
Inder Mohan & Co.—Chawri Bazar, Delhi.
India Paper Pulp Co. Ltd.—Nai Sarak, Delhi.
J. B. Advani & Co. Ltd.—Chawri Bazar, Delhi.
J. N. Singh & Co. Ltd.—Esplanade Road, Delhi.
Jeoti Parshad Mahabir Pershad.—Bara Tooti, Sadar Bazar, Delhi.
Jhangli Mal Pearey Lal.—Chawri Bazar, Delhi.
J. S. BHALLA & BROS.—Behind Jama Masjid, Delhi 6.
J. Mahabir & Co. Ltd.—Near Jama Masjid, Dariba, Delhi.
Kalamazoo Parchment Paper Co.—37-G, Connaught Circus, New Delhi.
Karam Chand Thapar & Bros. Ltd.—Naya Bazar, Delhi.
K. C. Bhargava & Co.—Post Box No. 1247, Delhi.
Kishori Lal & Sons.—Chawri Bazar, Delhi 6.
K. N. Dawar & Co.—12-L, Connaught Circus, New Delhi.
Mohan Trading Co.—Chawri Bazar, Delhi 6.
Munshi Lal Parkash Chand.—Chawri Bazar, Delhi.
Munshi Lal & Sons.—Chawri Bazar, Delhi.
Nand Ram Suraj Mal.—Chawri Bazar, Delhi.
Nanu Mal & Sons.—Chawri Bazar, Delhi.
Narsing Dass & Co.—3980, Chawri Bazar, Delhi 6.
Naunag Ram Sumair Chand Jain.—Chawri Bazar, Delhi.
Nem Chand Rajender Kumar.—Chawri Bazar, Delhi.
New India Paper Mart.—Chawri Bazar, Delhi.
Paras Das Lalit Pershad.—Chawri Bazar, Delhi.
Premier Suppliers P. Ltd.—4021, Chawri Bazar, Delhi 6.
Premier Trades & Agencies.—Chawri Bazar, Delhi.
P. L. Bachu Mal.—Chawri Bazar, Delhi.
Raghbar Dayal Pannu Lal.—Chawri Bazar, Delhi.
Raja Lal & Sons.—Chawri Bazar, Delhi.
Ram Parshad Radhey Sham.—Charkhewalan, Chawri Bazar, Delhi.
Ram Chand Jugal Kishore.—Chawri Bazar, Delhi.
Ram Lal Kapoor & Sons.—Nai Sarak, Delhi.
Ram Nath & Sons.—Chawri Bazar, Delhi.
Ram Kishore Chaman Lal.—Khari Baoli, Delhi.
Saroop Chand Jain.—Chawri Bazar, Delhi.
Sehgal & Co.—Opp. Marina Hotel, Connaught Circus, New Delhi.
Sher Singh Kirpa Ram.—Chawri Bazar, Delhi.
Siddho Mal & Sons.—Chawri Bazar, Delhi 6.
Simbu Nath & Sons.—Chawri Bazar, Delhi.
S. S. Mian & Bros.—Chawri Bazar, Delhi.
Sri Pal & Co.—219, Chawri Bazar, Delhi 6.
Sumat Parshad & Sons.—Chawri Bazar, Delhi 6.
Sunder Lal Nathi Mal.—Chawri Bazar, Delhi.
Swastika Paper Mart Ltd.—Chawri Bazar, Delhi.
Titaghur Paper Mills Co. Ltd.—Shiv Narain Building, Chandni Chowk, Delhi.
Upper India Paper Co.—Wholesale Paper Merchants, 4030, Chawri Bazar, Delhi.

PENCIL MANUFACTURERS

CAPITAL INDUSTRIES PRIVATE LTD.—Serai Rohilla, Delhi 6.
Jupiter Industries.—8/32, W.E.A., New Delhi 5.
MOONLIGHT INDUSTRIES.—Manufacturers of quality pencils, 14-A, DLF Industrial Area, Najafgarh Road, New Delhi 15.

PERAMBULATORS

B. L. Ramrichpal.—Lothian Road, Kashmere Gate, Delhi.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
Bharat Brass & Metal Industries.—G.T. Road, Delhi.
British Perambulator Manufacturing Co.—Qutab Road, Delhi.
Madan Brothers.—IV/86, Chandni Chowk, near Dariba, Delhi 6.
N. Kishore & Co.—Esplanade Road, Delhi 6.
Raja Lal & Sons.—1475-1, Chandni Chowk, Delhi 6.

PERFUMERS

Harnarain Gopinath.—Khari Baoli, Delhi.
Universal Perfumery Co.—Nai Basti, Bara Hindu Rao, Delhi 6.
Virmani Industries Ltd.—Najafgarh Road, Delhi.

PHOTOGRAPHERS AND PHOTOGRAPHIC MATERIAL DEALERS

Ajanta Photo Studio.—72, Janpath, New Delhi 1.
Ama P. Ltd.—Plaza Bldg., New Delhi 1.
Anand Studio.—2212, Gurdwara Road, Karol Bagh, Delhi 5.
A. R. Dutt.—Alipore Road, near Ludlow Castle, Delhi.
Artland Studio.—Chawri Bazar, Delhi.
Asia Photo Studio.—J. Masjid, Delhi 6.
Associated Press Photos.—M. Gate, Delhi 6.
Awtar Studios.—Chandni Chowk, Delhi.
Bakshi Bros.—17, Netaji Subhas Marg, Delhi 6.
Bashimber Dayal & Sons.—Dariba Kalan, Delhi.
Berry Studio.—Kashmere Gate, Delhi.
Capital Studio.—Connaught Place, New Delhi.
Dass & Sons.—Connaught Circus, New Delhi.
DELHI PHOTO CO.—78, Janpath, New Delhi 1.
Desh Photo Studio.—Esplanade Road, Delhi.
Electric Photo Studio.—Chandni Chowk, Delhi.
Eurasia Trading Co.—Chawri Bazar, Delhi 6.
Foto-centre.—17, Faiz Bazar, Daryaganj, Delhi.
Gandhi Studio.—13/2, W. E. A., Ajmal Khan Road, Karol Bagh, Delhi 5.
Globe Studio.—Paharganj, New Delhi 1.
Gopal Chitra Kuteer.—73, Ansari Road, Daryaganj, Delhi.
G. S. Virdee Lal Chand—Kutab Road, Delhi.
Hora Art Studio.—Delite Cinema Bldg., New Delhi 1.
Imperial Photo Stores.—10, Ch. Chowk, Delhi 6.
Imperial Photo Studio.—Connaught Place, near Post Office, New Delhi.
Inder Jit Rallia Ram & Co.—Connaught Circus, New Delhi.
India Photos Camerartz.—53, Panchquin Road, New Delhi.
Indraprastha Photographics.—4/76, W.E.A., Delhi 5.
Jain Photo Service.—Bazar Subzimandi, Delhi.
Jasbir & Co.—293, Azad Market, Delhi 6.
Kanwal Bros.—Esplanade Road, Delhi.
Karachi Photo House.—Subzimandi Tower, Delhi.
KESHO RAM & SONS (I) PRIVATE LTD.—Opp. Dariba, Kalan, Chandni Chowk, Delhi 6.
Kinsey Bros.—Connaught Place, New Delhi.
K. L. Arora & Sons.—Baird Road, New Delhi.
Kumar Bros.—Esplanade Road, Delhi.
Lakshmi Photo Co.—Chandni Chowk, opp. Imperial Bank, Delhi.
L. Dass & Sons.—Connaught Place, New Delhi.
Lily-white Portrait Studio.—Connaught Circus, New Delhi.
Mahatta & Co.—M Block, Connaught Circus, New Delhi.
Mangal & Co.—Chandni Chowk, near Dewan Hall, Delhi.
Metro & Co.—Chandni Chowk, near Imperial Bank, Delhi.
Metro Studio.—Connaught Circus, New Delhi.
Mulk Raj & Son.—Nai Sarak, Delhi.
Nice Photo Studio.—Chandni Chowk, Delhi.
Oriental Art Studio.—Esplanade Road, Delhi.
Paperware (India) P. Ltd.—30, D. B. Gupta Road, New Delhi 1.
PAUL STUDIO.—Photographers & Photographic Goods Dealers, 17-A/40, W.E.A., Ajmal Khan Road, New Delhi 5.
Photo Service Co.—Connaught Place, New Delhi.
PHOTO STUDIOS.—12-N, Connaught Circus, opp. Scindia House, New Delhi 1.
Prabhat Studio.—53/4, D. B. Gupta Road, Delhi 5.
Punjab Photo Service.—N. Central Market, Flat No. 5, Con. Circus, New Delhi 1.
Ram Nath Photographer.—Kashmere Gate, Delhi.
Rangoon Studio.—58, Queensway, New Delhi.
R. R. Gupta & Sons.—Baird Road, New Delhi.
Republic News Pictures.—14, Shankar Market, Connaught Circus, New Delhi 1.
Rup Basant Bros.—629, Ch. Chowk, Delhi 6.
Royal Photos Co.—Connaught Circus, New Delhi.
Royal Studios.—B-Block, Connaught Place, New Delhi.
Sagar Studio.—54, Sarojini Market, Delhi 3.
Simla Studios.—Regal Building, Connaught Circus, New Delhi.
Soni Studio.—Esplanade Road, Delhi.
Star Photo House.—Esplanade Road, Delhi.
Statfotos Photostaf Department.—22A, Asaf Ali Road, New Delhi.
Studio India.—49G, Connaught Circus, New Delhi 1.
Studio Newlight.—4, Sundar Nagar Market, Delhi 1.
Talreja Bros. (Rangoon Studio).—56, Queensway, New Delhi.
United Photo Co.—Ch. Chowk, Delhi 6.
UP-TO-DATE OPTICAL WORKS (Regd.).—21, Beadon Pura, Karol Bagh, New Delhi 5.
Ved & Co.—72, Janpath, New Delhi 1.

PICKLES MFRS. & FRUIT PRESERVERS

Ambrosia Food Industries.—23/5-C, Rohtak Road, Karolbagh, New Delhi.
Batra Fruit Products Corporation.—18, Amrit Kaur Market, Paharganj, New Delhi.
Bharat Canning Industries.—Farash Khanna, Delhi.
Delhi Fruit Products.—Ajmeri Gate, Delhi.
Delhi Pickles Manufacturing Co.—Gali Batashan, Khari Baoli, Delhi.
Empire General Industries.—Haveli Hassan Uddin, Ballimaran, Delhi.

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Hem Fruit Products.—Connaught Place, New Delhi.
Imperial Fruit Industries.—P-52, Basti Harphode Singh, Delhi.
India Fruit House—Gali Farharullah Beg, G. B. Road, Delhi.
Northern India Canning Industries.—16-E, Kamla Nagar, Subzimandi, Delhi.
Royal Fruit Products.—6, Municipal Market, Panchkuin Road, New Delhi.
Victoria Manufacturing Co.—Roopnagar, Delhi.
Vijay Fruit Industries.—Gali Halwain, Paharganj, New Delhi.

PIPES AND FITTINGS MFRS. & MERCHANTS

Agiaram & Sons.—5002, Sirkiwalan, Delhi.
Anand Pump Water Supply Co.—4958, Hauz Kazi, Delhi.
A. S. Shamser Singh & Co.—15, Rupnagar, Subzimandi, Delhi.
A. Worah & Co.—Chawri Bazar, Delhi 6.
Banwari Lal Radha Kishan.—Chawri Bazar, Delhi 6.
Bhagat Singh & Sons.—Sirkiwalan, Delhi.
Bhanamal Gulzarimal P. Ltd.—Chawri Bazar, Delhi 6.
Banarshi Shah & Co.—4921, Hauz Qazi, Delhi.
Behari Lal & Co.—Hauz Kazi, Delhi.
B. R. Bwasheswarnath.—452, Queen's Road, Delhi.
B. R. Herman & Mohatta (India) Ltd.—8, Lady Hardinge Road, New Delhi.

CHAND & CO.—P.O. Bldg., Hauz Kazi, Delhi.

Crown Trading Co.—Hauz Kazi, Delhi.
Dakhanimal Melaram.—52/52, W.E.A., Karolbagh, New Delhi.

DAKHNIMAL BALMUKAND.—Inside Ajmeri Gate, Delhi 6. Distributors of "EVEREST" Brand Steel/Brass Machine & Wood Screws.

Delhi Hardware Store.—Hauz Kazi, Delhi.
Delhi Pipe Stores.—2868, Sirkiwalan, Delhi.
Dunichand Kesho Ram.—Inside Ajmere Gate, Delhi 6.
Dunichand Ramnath.—Hauz Kazi, Delhi.
Fakirchand & Sons.—Hauz Qazi, P.O. Bldg., Delhi.
Gayfield & Co.—Chawri Bazar, Delhi.

GOBIND RAM & SONS.—Bazar Sirkiwalan, Delhi 6. For Pipes, Pipe Fittings, C.I. Sluice Valves and Specials for Water Supply & Sewage Disposal and Water Meters.

Harbans Singh & Mehta & Co.—Maula Bux Bldg., Roshanara Road, Delhi.
Hindustan Trading Co.—4957, H. Kazi, Delhi.
Indian Hume Pipe Co., Ltd.—Sarai Rohilla, Delhi 6.
Iron Traders P. Ltd.—Sirkiwalan, Delhi.
Jain Brothers.—3272-73, Hauz Kazi, Delhi.
J. B. Norton & Sons, Ltd.—Kashmere Gate, Delhi.
John Tinson & Co. Pvt. Ltd.—Queensway, New Delhi.
K. Fairfield & Co.—Sita Ram Bazar, Delhi.
Krishna Pipe Stores.—3369, Hauz Kazi, Delhi.
Krishna Water Supply Co.—Taj Bldgs., G. B. Road, Delhi 6.
Lall & Co.—Hauz Kazi, Delhi.
Madanlal Bajaj & Co.—3368, Hauz Kazi, Delhi.

MAHABIR PERSHAD & SONS.—Chawri Bazar, Delhi 6.

Manilal & Bros.—Chawri Bazar, Delhi.
Melraram Charandass.—Hauz Kazi Bldg., Delhi.

METALITE INDUSTRIES.—Manufacturers and Engineers, 7, Darya Ganj, Delhi 6.

Modern Machinery Traders.—Flat 9, Single Krishna Market, Lajpat Nagar, New Delhi.
Munni Lal Bajaj & Co.—2887, Sirkiwalan, Delhi.
Narinjan Das Anand & Sons.—4966, Hauz Kazi, Delhi.
P. Madanlal & Co.—Chawri Bazar, Delhi 6.
Prem Nath & Sons.—4904, Hauz Kazi, Delhi.
Prem Vijay & Co.—3594, Chawri Bazar, Delhi 6.
R. K. Anand & Co.—3535, Gali Hakim Baqa, Delhi.

RATANJI BHAGWANJI & CO.—3760, Chawri Bazar, Delhi 6. Mill Stores & Hardware Dealers.

Rawnaq & Co. Pvt. Ltd.—Church Bldg., Hauz Kazi, Delhi 6.
S. D. Marker & Co.—57, Panchkuin Road, New Delhi.
Sardari Lal & Co.—Sirkiwalan, Delhi.
Standard Tube & Hardware Mart.—Lahori Gate, G. B. Road, Delhi.
Surendra Singh Obrai.—Kundan Kutia, Karol Bagh, New Delhi.
Vinod Metal Industries.—3766, Chawri Bazar, Delhi 6.

PLASTIC MOULDERS

ECLIPSE RADIO INDUSTRIES.—4618, Aryapura, Sabzi Mandi, Delhi 6.

PLASTIC PRODUCTS MANUFACTURERS & DEALERS

BHARAT LEATHER WORKS.—3380, Bagichi Achheji, Bara Hindu Rao, Delhi. Manufacturers of all kinds of Plastic Purses, Writing Wallets, Presentation Plastic Novelties, etc.

Bombay Bag Factory.—3377, Bagichi Achheji, Bara Hindu Rao, Delhi.
C. K. Plastics.—20, Connaught Place, New Delhi.
DCM Chemical Works.—Najafgarh Road, P.B. No. 1211, New Delhi.
Delton Cable Co.—3455, Delhi Gate, P.B. No. 1170, Delhi.
Jain Plastic Co.—3760, Gali Barnewala, Sadar Bazar, Delhi 6.

KAMAL PLASTIC INDUSTRIES.—3518, Subzi Mandi (opp. Post Office), Delhi. Educational Toys, Electrical Accessories, Presentation articles, etc. Phone : 27974.

Leather & Artistic Craft Ltd.—Faiz Bazar, Daryaganj, Delhi 6.
Maidan Brothers.—277, Sadar Bazar, Delhi 6.
Metro Plastic Stores.—5469/4, Gandhi Market, Dhanvir Ashram, Sadar Bazar, Delhi 6.
Minocha Button Stores.—Swadeshi Market, Sadar Bazar, Delhi 6.
Monsanto Chemicals of India P. Ltd.—D.A.G. Extn., New Delhi.
Pheyroomal Mangalsain Kapur.—199/516, Sadar Bazar, Delhi 6.
Plastic Stores.—591, Galli Bajajan, Sadar Bazar, Delhi 6.
Prem Plastic Stores.—14/890, Kutub Road Jn., Sadar Bazar, Delhi 6.
Ragisons.—5552, Gandhi Market, Sadar Bazar, Delhi 6.
Reliable Electric & Cable Co.—3881, Sarak Prem Narain, Bazar Sita Ram (Chrui Walan), Delhi.
Republic Plastic Industries.—Najafgarh Road, New Delhi.
Singhania & Kapadia Mfg. Co.—1/406, G. T. Road, Delhi-Shahdara.

PLAYING CARDS MANUFACTURERS

IMPERIAL PLAYING CARDS MFG. CO.—Sadar Bazar, Delhi 6.

POTTERIES

Bawa Potteries.—6, Hailey Road, New Delhi.
Gwalior Potteries (Delhi) Ltd.—Factory Road, New Delhi.
Indian Potteries Ltd.—18-L, Con. Place, New Delhi.
Ishwar Industries Ltd.—P.O. Ishwarnagar, New Delhi.
Kesar Pottery Works.—Factory Road, New Delhi.
Lajpat Potteries P. Ltd.—G. T. Road, Delhi-Shahdara.
National Pottery Works.—Masjid Moth, New Delhi.
Popular Pottery Works.—P.O. Yousaf Sarai, New Delhi 16.
Standard Potteries P. Ltd.—Ghaziabad Road, Delhi.

PRINTING PRESSES

Albion Press.—Kashmere Gate, Delhi.
Arun & Rajiv Press.—C. Block, Connaught Circus, New Delhi.
Asia Press.—Faiz Bazar, Daryaganj, Delhi.
Asian Printers P. Ltd.—Original Road, Paharganj, New Delhi.
Automobile India Press., C/o Garg Publishing House.—Nicholson Road, Mori Gate, Delhi.
Baluja Press, C/o Baluja Type Foundry.—Chawari Bazar, Delhi.
Beechams' Press Pvt. Ltd.—M-Block, Connaught Circus, New Delhi.
Behari Printing Press.—Lal Kuan, Delhi.
British India Press.—Connaught Circus, New Delhi.
Calcutta Art Press.—Katra Baryan, Fatehpuri, Delhi.
Cambridge Printing Works.—Kashmere Gate, Delhi.
Caxton Press, 11/90, Connaught Circus, New Delhi.
Chitrakala Printing Press.—327, Press St. Sadar Bazar, Delhi.
Colour Printing Works.—Gali No. 11, Sadar Bazar, Delhi.
Coronation Printing Works.—Katra Baryan, Fatehpuri, Delhi.
Daily Pratap Press.—Mathura Road, New Delhi.
Dayal Printing Press.—Fountain, Chandni Chowk, Delhi.
Delhi Press.—Jhandewalan, M. M. Road, New Delhi.
Delhi Printers.—Sedhumal Bldgs., 21, Daryaganj, Delhi.
Dominion Press.—2, Gokhale Market, Mori Gate, Delhi.
Durga Art Press.—Nicholson Road, Mori Gate, Delhi.
Express Newspapers Ltd.—Mathura Road, New Delhi.
Fakirson's Press.—7130, Berrywala Bagh, Pull Bangash, Delhi.
Ganesh Electric Press.—Gali Old Post Office, Sadar Bazar, Delhi.
Gopal Press C/o Kishori Lal & Sons.—73, Chawri Bazar, Delhi.
Graphic Art & Kackers' Press.—Jama Masjid, West, Delhi.
Gulabchand Kapur & Sons.—9/4, Asaf Ali Road, New Delhi.
Hind Union Press.—K-Block, Connaught Circus, New Delhi.
Hindi Printing Press.—27, Shiv Ashram, Queen's Road, Delhi.
Hindustan Times.—Connaught Circus, New Delhi.

HIRA ART PRESS.—Sadar Bazar, Delhi 6.

I. M. H. Press.—Fountain, Chandni Chowk, Delhi.
India Box & Carton Makers.—2322, Bahadurgarh Road, Delhi.
Indian Book Depot Press.—Bahadurgarh Road, Delhi.
Indian Printing Works.—Jhandewalan, M-M. Road, New Delhi.
Jai Bharat Printing Works.—2962, Bahadurgarh Road, Delhi.
Janta Press.—H-Block, Connaught Circus, New Delhi.
Jugdish Fine Art Press.—1008, Pan Mandi, Sadar Bazar, Delhi.
Kapur Electric Press.—Gali Bisan Shah, Faiz Road, Karol Bagh, New Delhi.
Khannah Printing Press.—Near Fountain, Chandni Chowk, Delhi.
Krishna Brothers' Printing Press.—Burn Bastion Road, Delhi.
Kuldip Press.—Shidipura, East Park Road, Karol Bagh, New Delhi.
Label Art Press.—Frashhkhana, G. B. Road, Delhi.
Lahore Kailash Press.—Municipal Market, Connaught Circus, New Delhi.
Laxmi Press.—Faiz Bazar, Daryaganj, Delhi.
Laxmi Printing Works.—Lal Kuan, Delhi.
Lion Press.—Chawari Bazar, Delhi.
Mehta Art Press.—Sadar Thana Road, Delhi.

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Mehta Offset Works.—16, Sadar Thana Road, Delhi.
Murari Fine Art Works.—4, Daryaganj, Delhi.
National Offset Works.—Opp. Faiz Bazar Police Station, Faiz Bazar, Daryaganj, Delhi.
Nav Yug Press.—Pleasure Garden, Chandni Chowk, Delhi.
Navin Press.—Faiz Bazar, Daryaganj, Delhi.
New Age Printing Press.—Jhandewalan, M. M. Road, New Delhi.
New India Press.—K-Block, Connaught Circus, New Delhi.
New Print.—294, Faiz Road, Karol Bagh, New Delhi.
Oxford Printing Works.—Scindia House, Con. Circus, New Delhi.
Parkson Printing Press.—Gali Bazazan, Sadar Bazar, Delhi.
P. B. I. Press.—Original Road, Pharganj, New Delhi.
Print Art.—C/o Raj Pal & Sons.—Kashmere Gate, Delhi.
Punjabi Press.—Bara Tooti, Sadar Bazar, Delhi.
Raj Hans Press.—Rooi Ki Mandi, Sadar Bazar, Delhi.
Rajai Press.—313, Kucha Mir Ashiq, Chawari Bazar, Delhi.
Rakesh Press.—1575, Aziz Ganj, Pull Bangash, Delhi.
Rama Electric Press.—1008, Pan Mandi, Sadar Bazar, Delhi.
Rama Printing Works.—Chooriwalan, Chawari Bazar, Delhi.
Rashtriya Printing Press.—78, G. B. Road, Delhi.
Ratan Press.—Kucha Ghasi Ram, Chandni Chowk, Delhi.
Republic Press.—34, Municipal Market, Con. Circus, New Delhi.
Roxy Press.—H. Block, Con. Circus, New Delhi.
Sehgal Puri Private Ltd.—Opp. Paharganj Police Station, Paharganj, New Delhi.
Seth Printing Press.—Katra Neel, Chandni Chowk, Delhi.
Sindhu Art Press.—Katra Baryan, Fatehpuri, Delhi.
Star Half Tone Press.—Katra Baryan, Fatehpuri, Delhi.
Sun Process.—Jatwara, Faiz Bazar, Daryaganj, Delhi.
Super Press.—Choona Mandi, Pharganj, Delhi.
Supreme Press.—A-Block, Con. Place, New Delhi.
Surendra Printers P. Ltd.—Deputy Ganj, Sadar Bazar, Delhi.
Times of India Press.—10, Daryaganj, Delhi.
Tizarti Press.—Pan Mandi, Sadar Bazar, Delhi.
Vir Milap Press.—Asaf Ali Road, New Delhi.

PRINTING PRESS MACHINERY DEALERS

J. MAHABEER & CO. PRIVATE LTD.—Faiz Bazar, Delhi.

PULLEYS

WESTERN MANUFACTURING CO. (DELHI) PRIVATE LTD.—57, Jor Bagh, New Delhi 3. Manufacturers of Pulleys; Sole Agents for the Indian Union of: Hochspannungs-Gesellschaft Fischer & Co., Koln-Zollstock, Germany for Magnetic Pulleys.

PUMP MANUFACTURERS

HIND AUTOMOBILES CORPORATION.—37, Industrial Estate, Okhla, New Delhi 20.

RADIO MFRS., REPAIRERS, DEALERS AND PART SUPPLIERS

Advance Electronics.—Bhagirath Palace, Delhi.
Ahuja Radios.—Chandni Chowk, Delhi.
Airmaster Radios.—Bhagirath Palace, Delhi.
Alliance Electric & Radio Co.—P. Box 1104, Chandni Chowk, Delhi 6.
Allied Agencies.—1399, Pahari Imli, Jama Masjid, Delhi.
Allied Radio Corpn.—2192, Sita Ram Bazar, Delhi.
Alpha Radio & Novelties Pvt. Ltd.—Bhagirath Palace, Delhi.
Anand Radios.—701, Lajpat Rai Market, Chandni Chowk, Delhi.
Anand Radio & Elect., Co.—Chowk Naya Bans (Katra Baryan), Delhi.

ANEJA RADIOS.—Bhagirath Palace, Chandni Chowk, Delhi 6. Other Branches at: 395-E, Lamington Road, Bombay 4 and Singh Trading Co., Mount Road, Madras 2.

A. N. Ramji Dass & Co.—7/36, Daryaganj, Delhi 6.

ARUN ELECTRONIC INDUSTRIES.—6-B, Bhagirath Palace, Chandni Chowk, Delhi.

Aruna Trading Co.—10-E, Connaught Place, New Delhi.
Ashoka Electric & Radio Co.—57, Arya Samaj Road, Delhi 5.
Asian Radios.—Bhagirath Palace, Delhi.
Atlas Electric & Radio Co.—Masjid Road, Jangpura, New Delhi 14.
Atlas Electronics.—Bhagirath Palace, Delhi.
Bangsons Electronic Industries.—65/64, Rohtak Road, New Delhi 5.
Bansal Radio Corpn.—30/8, Shakti Nagar, Delhi.
Best & Co.—53-M, Connaught Circus, New Delhi.
Bhargava Trading Co.—11, Netaji Subhas Marg, Delhi 6.
Bhatnagar's Agencies.—60-M, Connaught Circus, New Delhi.
B. Gupta & Co.—2525, Behind Asaf Ali Road, Near Lakshmi Insurance Bldg., Delhi.
Bombay Electric Radio Corpn.—Bhagirath Palace, Delhi.
British Radio & General Supply Co.—Chandni Chowk, Delhi.

CALCUTTA GRAMOPHONE AGENCY.—Distributors: Masterphone HI-FI Radios, Amplifiers, Tape Recorders & Sound Equipments; 1423, Chandni Chowk, Delhi; Phone: 27239 (Office); No. 2, Ansari Road, Daryaganj, Delhi; Phone: 20874 (Workshop); Sales & Service all over India.

Capital Music Works.—Aram Nagar, Qutab Road, New Delhi.
Capital Radio Co.—Chandni Chowk, Delhi.

CHANDIRAM & CO.—Chandni Chowk, Delhi. Radio Manufacturers, Wholesale dealers in Radio and Amplifier Spare parts and Electrical goods.

Chawla Radios.—410, Lajpat Rai Market, Chandni Chowk, Delhi.
Chiman Lal Desai & Co.—72, Janpath, New Delhi.
Choudhary Trading Co.—Radio House, Chandni Chowk, Delhi 6.
C. P. Radio Corpn.—Bhagirath Palace, Delhi.
Delhi Gramophone Co.—Chandni Chowk, Delhi.
Delhi Radio Co.—Chandni Chowk, Delhi 6.
Delton Cable Co.—3457, Delhi Gate, Delhi.
Dewan Radios.—351, Lajpat Rai Market, Chandni Chowk, Delhi.
Dilwali Traders P. Ltd.—1490, Chandni Chowk, Delhi 6.
Eastern Electric & Trading Co.—23/E, Connaught Place, New Delhi.
Eastern Electronics.—New Industrial Area, Faridabad, Delhi.
Eastern Radio & General Supply Co.—10-E, Connaught Place, New Delhi.
Eastern Radio & Electric Co.—Bhagirath Palace, Delhi.

ECLIPSE RADIO INDUSTRIES.—4618, Aryapura, Sabzi Mandi, Delhi 6.

Electronic Traders.—1527, Bhagirath Palace, Delhi.
Electronics Ltd.—A-Block, Connaught Place, New Delhi.
Electronics & Phonographic Industries Pvt. Ltd.—Chandni Chowk, Delhi.
Empire Trading Co.—3778, Faiz Bazar, Daryaganj, Delhi.

GARDNERS CORPORATION.—25/90, Connaught Circus, New Delhi.

General Radio & Appliances Pvt. Ltd.—Bhagirath Palace, Delhi.

GENERAL RADIO CORPN.—2/2, Jhandewala Industrial Scheme, New Delhi. Manufacturers of Telecraft Radios and Amplifiers.

General Radio & Electric Co.—Arya Samaj Road, New Delhi.
Harkrishan Lal & Bros.—7, Ansari Road, Daryaganj, Delhi.
Hind Electronics.—9-B, Bhagirath Palace, Delhi.
Hindustan Radio Corpn.—Netaji Subhash Marg, Delhi 6.
Hindustan Radios.—1456, Chandni Chowk, Delhi 6.
Hindusthan Electronics.—1801, Chandni Chowk, Delhi.
Howard Radio & General Supply Co.—Opp. Plaza, New Delhi.
Hygrade Radios.—Opp. Plaza, Connaught Circus, New Delhi 1.
Imperial Radio Corpn.—18, Gokle Market, Delhi 1.
India Radio Co.—26, Bara Khamba Road, New Delhi 1.
India Radio & Elect. Corpn.—Ajmal Khan Road, New Delhi.

INDIAN RADIO CORPORATION PRIVATE LTD.—Roshanara Mansion, Roshanara Road, Delhi 6.

Indo British Corpn.—26F, Connaught Place, New Delhi 1.
Jai Kishan Dass & Bros.—525, Bhagirath Palace, Delhi.
Jeewan Radios.—Radio Place, Chandni Chowk, Delhi.
Kapoor Electronics.—Bhagirath Palace, Delhi.
Kaybee Electrical Industries.—8-B, Bhagirath Palace, Delhi.
Khanna Cycle Co.—Raj Guru Road, Paharganj, New Delhi.
Kidarnath Mehra & Sons.—Chandni Chowk, Delhi.
Krishna Radios.—Lajpat Rai Market, Delhi.
K. Goodman & Co.—9, Bhagirath Palace, Delhi.

KRISHAN C. ARORA & CO.—53/65, W.E.A. Karol Bagh, New Delhi 5.

Lakhanpal Pvt. Ltd.—Industrial & Prudential Bldg., Asaf Ali Road, New Delhi.
Lalwani Radio Corpn.—Radio Palace, Chandni Chowk, Delhi 6.
Luthra Electronics.—Mangal Market, Chandni Chowk, Delhi.
Maharaja Lal & Sons.—Chandni Chowk, Delhi.
Mckenzee Philips (India) Pvt. Ltd.—Ellison House, 9, Ram Bagh, Old Rohtak Road, Delhi 6.
Minocha Radios.—Bhagirath Palace, Delhi.

MODERN TRADING CO. (DELHI).—M. Block, Connaught Circus, New Delhi; Manufacturers of Radio Parts and Radio Suppliers.

M. C. Engineering Co.—38, Industrial Estate, P. O. Kalkaji, New Delhi.
M. L. Ahuja & Co.—3, Desh Bandhu Gupta Road, Pahar Ganj, New Delhi.
National Radio Corpn.—2, D.L.F. Industrial Area, Najafgarh Road, New Delhi.
National Radio Co.—Bhagirath Palace, Delhi.
Navbharat Radio Agencies.—8, Bhagirath Palace, Delhi.
Omega Radio Corpn.—Bhagirath Palace, Delhi.
Oriental Radio Appliances.—6/78, Ajmal Khan Road, Karol Bagh, New Delhi.

ORIENTAL RADIO CORPORATION.—12/4, Asaf Ali Road, New Delhi 1.

Parco.—16B, Connaught Place, New Delhi.
Parkash Radios.—Bhagirath Palace, Delhi.
Paul Radios.—5A/15, Rangbhumi, Darya Ganj, Delhi.
Philips India Ltd.—3/1, D.A.G. Extension Scheme, Asaf Ali Road, New Delhi.
Phoenix Radios.—Bhagirath Palace, Delhi.
Preja's.—11E/33, Lajpat Nagar, New Delhi.
Prestige Electronics P. Ltd.—16/B, Connaught Place, New Delhi.
Radio Centre.—Chandni Chowk, Delhi.
Radio Electronics Corpn. Pvt. Ltd.—56-M, Connaught Circus, New Delhi.

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Radio Spares.—Bhagirath Palace, Delhi.
Radio Sound Engineers.—65/64, Rohtak Road, New Delhi.
Radiola Corpn.—63, Najafgarh Road, Industrial Area, New Delhi.
Radionic Corpn.—Mangal Market, Chandni Chowk, Delhi.
Rattanchand Mehra & Sons.—Chandni Chowk, Delhi.
Rajpal Bros.—Outside Katra Neel, Chandni Chowk, Delhi.
R. C. Radio Corpn.—Bhagirath Palace, Delhi.
Reliable Electric & Cable Co.—3881, Sarak Prem Narain, Bazar Sita Ram, Delhi 6.
Sachdeva Bros.—10-L, Connaught Circus, New Delhi.
Saigal Radios.—Jogdhian Colony, Chandni Chowk, Delhi 6.
Sagar Industries.—17, Jawahar Nagar, Delhi.

SEN RADIO CO.—413, Lajpat Rai Market, Chandni Chowk, Delhi.

Shankar Dass & Co.—11B, Asaf Ali Road, New Delhi.
Singhbro Radio Co.—Plaza Buildings, New Delhi.
Singhson Radio Co.—8380/6, Roshanara Road, Delhi.

STANDARD RADIO & ELECTRIC CO.—Block N-16, opp. Scindia House, New Delhi.

Union Radio & Appliances P. Ltd.—72, Janpath, New Delhi 1.

UNITED RADIO AGENCIES.—1681/5, Jogdhian Building, Delhi 6. Phone: 47262; Grams: 'JETHAR'. Stockists of all types of Valves, American & European and other parts for Radios, Radiograms, P.A. Equipments, Car Aerials, Suppressors and German BASF Tapes; Sole Distributors for India for United Aerial Wires, Insulated and indoor and Simplex Solder Wire; Branch: 5, Sukhsagar, Sandhurst Bridge, Bombay 4.

Universal Radio Co.—Chandni Chowk, Delhi.
Veer Radios.—1681/7, Radio Place, Chandni Chowk, Delhi.
Vinod Radios.—1681/3, Mangal Market, Chandni Chowk, Delhi.
Wireless Equipment Stores.—Chandni Chowk, Delhi.

READYMADE CLOTH MFRS., DEALERS

Glamour.—20/F, Connaught Place, New Delhi.
Moderna Form Brassiere Co.—21-B, Connaught Place, New Delhi.
Novex.—Cloth Merchants, 12C, Connaught Place, New Delhi.
Roy Brothers (Cheap John) Ltd.—Queensway, New Delhi.
Style.—13-E, Connaught Place, New Delhi.
Trevillion & Clark.—21B, Connaught Place, New Delhi.

REFRACTORIES

ISHWAR INDUSTRIES LTD., THE.—P.O. Ishwar Nagar, New Delhi. Manufacturers of Fire Bricks of all grades & shapes, Fire clays, Fire Cements, Insulating Compounds, Castable Refractories, Acid Resisting Bricks & Cements, etc. Phones: 72161 & 72162.

Shivraj Pottery Works.—Factory Road, New Delhi.
S. N. Sunderson & Co.—Original Road, New Delhi.

ROSIN AND TURPENTINE MANUFACTURERS

KHURANA BROTHERS.—Paints, Varnishes, Rosin & Turpentine Manufacturers; 1742, Nai Basti, S.P. Mukerji Marg, Delhi 6. Phone: 20215; Branches: Amritsar and Hoshiarpur.

RUBBER PRODUCTS MANUFACTURERS

AMERICAN RUBBER MILLS CO.—G.T. Road, Delhi-Shahdara. Manufacturers of Hot Water Bottles, Ice Bags, Transmission Belting, Soles & Heels, Printer Rollers, Patch Rolls and thousands of other Moulded and Extruded items.

B. N. Rubber Works.—15, Barakhamba Road, New Delhi.
Chawala Industries.—Chawala Estate, Delhi-Shahdara.
New Era Rubber Mills Ltd.—Lawrence Road, Delhi.
Randerian Rubber & Chemical Works.—Canal Road, Civil Lines, Delhi.

SANITARY ENGINEERS & SANITARY GOODS MFRS. & DEALERS

A. Kumar & Co.—23A, Kamal Nagar, Delhi 6.
Amar Nath Nayar & Sons.—VI/170, K. Baryan, Fatehpuri, Delhi 6.

ARAIL BROTHERS.—Chawri Bazar, Delhi 6.

Balmukand Gupta & Sons.—30/1, E. Patel Nagar, New Delhi 12.
Bansil Brothers.—Lal Darwaza, Bazar Sita Ram, Delhi 6.
D. P. Lal & Co.—75, Daryaganj, Delhi 6.

D. S. BAWA & CO.—14, Barakhamba Road, New Delhi. Tel. Add.: "BHARAT". Phones: 48935, 25320.

Empire Engineering Co.—7/9, Daryaganj, Delhi 6.
Gaylord & Co.—Chawri Bazar, Delhi 6.
Gupta & Co., D. P.—1/6B, Asaf Ali Road, New Delhi.
H. Lal & Brothers.—8, D. B. Gupta Road, Paharganj, New Delhi 1.
Himalaya Trading Co.—Fatehpuri, Delhi 6.

HIND TRADING & MANUFACTURING CO.—3738, Gali Barna, Bara Tooti, Sadar Bazar, Delhi 6. Trade Mark 'HINDKO'; Phones: 28504 (Office); 52863 (Res.); Grams: 'HINDTRADE"—Delhi; Bombay Representative C/o 29859; Leading Manufacturers of Sanitary Metal Brass and Gun Metal, Water and Steam Fittings, Valves, Cocks and Bathroom Accessories, etc.

J. B. Norton & Sons Ltd.—Kashmere Gate, Delhi.
Jindal & Sons Ltd.—Bazar Sirkiwalan, Delhi 6.
John Tinson & Co., Pvt. Ltd.—54, Queensway, New Delhi.

MAHABIR PERSHAD & SONS.—Chawri Bazar, Delhi 6. Phone: 26735.

MODERN ENGINEERING CO.—Factories: 17, Okla Indl. Estate, New Delhi 20; Phone: 72817; M/2, Industrial Area, Sonepat (Punjab).

Nigam Brothers.—Chawri Bazar, Delhi 6.
Prem Vijay & Co.—3594, Chawri Bazar, Delhi 6.
S. D. Marker & Co. Pvt. Ltd.—57, Punchkuin Road, New Delhi 2.
Sharma & Co.—R. P. Sultan Singh Bldg., Kashmere Gate, Delhi 6.
Sunderson & Co., S. N.—Naya Bazar, G. B. Road, Delhi.
Tayal Bros. P. Ltd.—Outside Ajmeri Gate, Delhi 6.
Udyogi Karan P. Ltd.—5, Sant Nagar, Delhi 5.
Verma Bros.—18/90, Connaught Circus, New Delhi.
Worth & Co.—A, Chawri Bazar, Delhi 6.

SCIENTIFIC CHEMICALS AND GLASSWARE DEALERS

WIDSONS SCIENTIFIC WORKS.—Laboratory Apparatus and Reagents; 10, West Sadar Thana Road, Delhi 6. Phone: 26051. Grams: "WIDSCIEN."

SCIENTIFIC & SURGICAL APPARATUS & INSTRUMENTS MANUFACTURERS & DEALERS

Adair, Dutt & Co. (India) Pvt. Ltd.—21, Delhi Ajmeri Gate Scheme, New Delhi.

ASSOCIATED INSTRUMENT MANUFACTURERS (INDIA) PRIVATE LTD.—Regd. Office—B5, Gillander House, P.O. Box 2136, Calcutta 1. Dirs.: P. S. Thomas (Chairman & Jt. Mg. Dir.), H. C. Verma (Jt. Mg. Dir.), G. K. Mehta (Tech. Dir.), I. C. Mendonca (Sec.). Branches: Bombay & New Delhi; Local Dirs.: H. C. Verma & G. K. Mehta. Delhi Office: Sunlight Insurance Bldgs., 26/27, Asaf Ali Road, New Delhi. Tel. 26936. Manufacturers of soil, cement, fuel, textile, paint & other testing instruments & miscellaneous instruments. Regd. under Industries (Development & Regulation) Act 1951. Also distributors for scientific, electronic, telecommunication, high vacuum & other types of advanced instruments and apparatus.

A. W. & Co.—3499, Chawri Bazar, Delhi 6.
Bharat Scientific Instruments Co.—6, Netaji Subhash Marg, Delhi 6.
Bharat Scientific Stores.—Rohtak Road, New Delhi 5.
Capital Scientific Instruments Co., P. Ltd.—Faiz Bazar, Daryaganj, Delhi 7.
Darbara Singh & Sons.—P.O. Street, Sadar Bazar, Delhi.
Delhi Scientific Works.—Outside Ajmere Gate, Delhi.
Empire Scientific & Surgical Co.—Naya Bazar, Delhi 6.
Hindustan Syringes P. Ltd.—Faridabad Township (Near Delhi).
J. Mitra & Bros.—Bhagirath Palace, Chandni Chowk, Delhi 6.
Kailash Bros. Pvt. Ltd.—Chandni Chowk, Delhi.

M. MUKERJEE & SONS.—R-852, New Rajendra Nagar, New Delhi 5. Dealers in Gas Plant and Laboratory Equipments.

National Scientific Instrument Co.—37/38, U.B. Block, Jawahar Nagar, Delhi.
National Trading Co. P. Ltd.—555, Esplanade Road, Delhi 6.
Premier Industrial Corpn.—Bhagirath Palace, Delhi 6.
P. L. Tandon & Co.—Bhagirath Palace, Chandni Chowk, Delhi 6.
Royal Rubber Works.—1580, Bhagirath Palace, Chandni Chowk, Delhi 6.
S. Paul & Co.—Harphool Singh Basti, Delhi 6.
Scientific and Allied Industries Corpn.—5E, S. Thana Road, Delhi 6.

SCIENTIFIC & ENGINEERING INDUSTRIES.—3-C/6, Rohtak Road, New Delhi 5; Manufacturers of "INDIAGAS" Petrol gas Plants, Microslides, other Biological apparatus, Electrical measuring instruments, Physics apparatus, Civil and Mechanical Engineering Models.

Scientific Equipment Works.—1/77, Nicholson Road, Delhi.
Scientific Instrument Co., Ltd.—B/7, Ajmeri Gate Extn., New Delhi.
Sehgal Sons.—Jamna Bhavan, A-14/3, Asaf Ali Road, New Delhi.
Sindsagar Scientific Industries.—Daryaganj, Delhi 7.
Swan Surgico Dressings.—2/25F, Model Town, Delhi.
Toshniwal Bros. Pvt. Ltd.—14-B/4, N.E.A., Uttari Marg., New Delhi.
United Technicians Corpn.—Masjid Rangraizan, Bara Hindu Rao, Delhi.

UP-TO-DATE OPTICAL WORKS (Regd.).—21, Beadon Pura, Karol Bagh, New Delhi 5.

UPPER INDIA SCIENTIFIC WORKS.—1720, Mori Gate, Delhi.

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WIDSONS SCIENTIFIC WORKS.—Laboratory Apparatus and Reagents; 10, West Sadar Thana Road, Delhi 6. Phone: 26051. Grams: "WIDSCIEN."

SERVICE STATION EQUIPMENT

DELHI GARAGE PRIVATE LTD.—Connaught Circus, New Delhi. Workshop and Garage Equipment including Specialised Lubrication Equipment for Automobiles, Tractors, Earth-moving Machinery, etc.—Compressors—High Pressure Car Washers—Tyre Inflation Equipment, Air Meters and Air Towers—Spray Painting Equipment—Workshop and Garage Tools—Battery Chargers—Spark Plug Cleaning & Testing Machines, etc.

DGL PRIVATE LTD.—Connaught Circus, New Delhi-1. Workshop & Garage Equipment including Specialised Lubrication Equipment for Automobiles, Tractors, Earth-moving Machines etc., Compressors—High Pressure—Car Washers—Tyre Inflation Equipment—Air Meters and Air Towers—Spray Painting Equipment—Workshop & Garage Tools—Battery Chargers.

SKIN AND FURS

S. NATH KAKAR & SON.—41, Hanuman Road, New Delhi.

SOAP FACTORIES

Ajmer Soap Works.—Khari Baoli, Delhi.
Bharat Soap Works.—Gali Bahuji, Sadar Bazar, Delhi.
Crown Soap Co.—Chapparwala Kuan, Karolbagh, New Delhi.
D. C. M. Chemical Works.—Najafgarh Road, Delhi.
Godrej Soaps Pvt. Ltd.—Chandni Chowk, New Delhi.
Hindustan Levers Ltd.—D.A.G. Extn., New Delhi.
Jubilee Soap Works.—Mohalla Nabi Karim, Delhi.
Krishna Soap Factory.—Ahata Kidera, Sadar Bazar, Delhi.
Manohar Soap Works.—Karol Bagh, Delhi.
Punjab Soap Factory.—2659, Basti Punjabi, Subzimandi, Delhi.
Virmani Industries.—Najafgarh Road, Delhi.

SPORTS GOODS

Anand Industries.—564, Kucha Natwan, Chandni Chowk, Delhi.
Bestways & Co.—Outside Moti Cinema, Chandni Chowk, Delhi.
British Sports Works.—4066, Sir Syed Ahmad Road, behind P.O., Daryaganj, Delhi.
B. T. Shuttle Cock House.—Thana Street, Subzimandi, Delhi.
"Harisons Uppal".—9577, Bhargarh-Roshanara Road, Subzimandi, Delhi.
Job & Co.—Gali Tantawali, Faiz Bazar, Daryaganj, Delhi.
Khosla Sports Industries.—28, Barakhamba Road, New Delhi.
Light Way Sports.—52, Municipal Market, Connaught Place, New Delhi.
Mongia Bros.—Opp. Kumar Talkies, Chandni Chowk, Delhi.
Norfolk Syndicate (India) Ltd.—Scindia House, Connaught Circus, New Delhi.
Northland (India) Ltd.—Opp. Scindia House, Connaught Circus, New Delhi.
Ojhasons.—Near Clock Tower, Subzimandi, Delhi.
Prince Rose.—90, Daryaganj, Delhi.
Rattan & Co.—Gali Abdulla Beg, Roshanara Road, Subzimandi, Delhi.
S. S. Balbir & Co. (Regd.).—Bhargarh, Roshanara Road, Delhi 6.
United Sports Traders (Delhi) Ltd.—5838, Khaliq Manzil, Thana Street, Subzimandi, Delhi.
Uppal & Co.—Gali Abdulla Beg, Roshanara Road, Subzimandi, Delhi.
Uppal Sports Ltd.—5838, Khaliq Manzil, Thana Street, Subzimandi, Delhi.

SPRAY PAINTS EQUIPMENTS

EASTERN COMMODITIES PRIVATE LTD.—5-A/8, Ansari Road, Daryaganj, Delhi 6. Complete Spray Painting Automobile Service Equipment including Air Compressors, Spray painting guns, Air Filters and Regulators and Car Lifts.

STATIONERY MANUFACTURERS & MERCHANTS

Anand Brothers.—Chawri Bazar, Delhi 6.
Atma Ram & Sons.—Kashmere Gate, Delhi 6.
B. N. Mehra & Sons.—Sadar Bazar, Delhi 6.
Bharat Sales Ltd.—2/90, Connaught Circus, New Delhi 1.
Bhawnani & Sons.—8F, Connaught Place, New Delhi.
Capital Industries Pvt. Ltd.—Sadar Bazar, Delhi 6.
Continental Commercial Co. P. Ltd.—43-M, Connaught Circus, New Delhi.
Dwarka Nath Tara & Co.—Nai Sarak, Delhi 6.
Faquir Chand & Sons.—15-A, Khan Market, New Delhi 11.
G. S. Kashyap & Sons.—Daryaganj, Delhi 6.
G. T. Mehra & Co.—66, Chawri Bazar, Delhi 6.
General Equipment Merchants Ltd.—19-K, Connaught Place, New Delhi.
Govil & Co.—207, Chawri Bazar, Delhi 6.
Indian Glass Agency.—Opp. J. Masjid Dispensary, Delhi 6.
Kirpa Ram Sethi & Sons.—89, Chawri Bazar, Delhi 6.
Kishori Lal & Sons.—Chawri Bazar, Delhi 6.
Mehar Chand & Sons.—Khari Bhaoli, Delhi 6.
National Stationers P. Ltd.—Chawri Bazar, Delhi 6.
Nem Chand Narinder Kumar Jain.—216, Chawri Bazar, Delhi 6.
Novex Traders.—J-20, W. Patel Nagar, New Delhi 12.
Oxford Book & Stationery Co.—Scindia House, New Delhi 1.
Ramchander & Sons.—Odeon Building, New Delhi 1.
Vijay Universal Agency.—Chawri Bazar, Delhi 6.

STEEL

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

STEEL FURNITURE & FITTINGS

General Trades Agency.—17, Najafgarh Road, Opp. D.C.M. Chemicals, Delhi.
GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.
Hindustan General Industries Ltd.—Kutab Road, Nabikarim, Delhi.
SIMPLEX MFG. CO. PRIVATE LTD.—23-25, Faiz Bazar, Daryaganj, Delhi. Manufacturers of Simplex Adjustable Steel Racks for all Storage purposes, Desk Side Racks, Letter Racks, Letter Trays, Stools, Waste Paper Baskets and Library Equipments, etc., etc.

STEEL ROLLING MILLS

Delhi Steel Rolling Mills.—C/o Rameshwar Das Ram Chander, Katra Nawab Saheb, Chandni Chowk, Delhi.
Mahabir Steel Rolling Mills.—32, Hanuman Road, New Delhi.
Rathi Steel Rolling Mills.—Katra Rathi, Egerton Road, Delhi.
Seth Munnalal Steel Rolling Mills.—Loni Road, Shahdara, Delhi.
Steel & General Mills Co. Ltd.—3, Cavalry Lines, Delhi.
Sudarshan Steel Rolling Mills.—G. T. Road, Shahdara, Delhi.

SUGAR MILL MACHINERY

Bansidhar Chiranjilal.—Delhi-Shahdara.
Bharat National Foundry.—New Delhi.
Chhutan Lall Mathu Mal.—3795, Gali Lohe Wali, Chawri Bazar, Delhi.
Delhi Iron Works Ltd.—Churiwalan, Delhi.
Goojar Mall Ganapatrai.—Ajmeri Gate, Delhi.
Gopi Nath Ltd.—Sarai Rohilla, Delhi.
Punjab Engineers' Supply Co.—Malkaganj Road, Anarkothi, Subzi-Mandi, Delhi.
Shiva Iron & Brass Works.—Chawri Bazar, Gali Lohey Wali, Delhi 6.
Shri Vishnu Metal Foundry—Phatak Namak, Hauz Qazi, Delhi.
The Printing & Metal Works Ltd.—Subzi-Mandi, Delhi.

SURVEYING INSTRUMENTS MANUFACTURERS

SCIENTIFIC EQUIPMENT WORKS.—Nicholson Road, Delhi 6. Manufacturers of Microscopes, Surveying instruments, Laboratory Apparatus, Soil, Cement, Concrete, Textile, Bitumen Testing Equipment.

TAILORS & OUTFITTERS

Mohanlal Sons.—21-B, Connaught Place, New Delhi.
Roy Brothers.—Janpath, New Delhi.

TAPE & NIWAR MANUFACTURERS

Aggrellios & Co.—11-B, Faiz Bazar, Delhi.
Bengal Lace Factory.—Rui-ki-Mandi, Sadar Bazar, Delhi.
Bengal Weaving Factory.—Pulbangash, Delhi.
Bhagwandas Permanand.—Library Road, Pulbangash, Delhi.
B. R. Ram Niwar Factory.—Roshanara Road, Delhi.
Delhi Lace Mills.—Beri Wala Bagh, Pulbangash, Delhi.
Delhi Niwar & Lace Factory.—Daryaganj, Delhi.
Krishna Niwar Factory.—Shidi Pura, Delhi.
National Embroidery.—Pulbangash, Delhi.
PHOENIX COTTON TAPE FACTORY.—Opp. Sadar Bazar Police Station, Idgah Road, Delhi.
Premier Textile Factory.—Queen's Road, Delhi.
Sadhu Ram & Sons.—Roshanara Road, Delhi.
Sehgal Textile Factory.—Pulbangash, Delhi.
Shri Mahabir Jain Niwar Factory.—Shidipura, Delhi.
S. H. Attaullah & Saifullah.—Beriwala Bagh, Pulbangash, Delhi.
S. M. Saleh & Bros.—Sheesh Mahal, Delhi.
Sudarshan Lace Mills.—Gandhi Cloth Market, Chandni Chowk, Delhi.
United Embroidery.—Sadar Bazar, Delhi.

TEXTILE MILLS

Ajudhia Textile Mills Ltd.—53, Regal Bldgs., Parliament Street, New Delhi.
Birla Cotton Spg. & Wvg. Mills Ltd.—P.O. Birla Lines, Delhi.
Delhi Cloth & General Mills Co. Ltd.—Bara Hindu Rao, Delhi.
Punjab Cloth Mills Ltd.—Pull Bangshah, Delhi.
Swatantra Bharat Mills.—Najafgarh Road, New Delhi 15.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Hamilton House, Connaught Place, New Delhi. (For Details of Products Manufactured see Classified Trades, West Bengal under heading Tin Box Mfrs.).

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TIN PRINTERS AND CONTAINER MANUFACTURERS

TIN PRINTING & METAL WORKS LTD.—Kamla Nagar, Subzi Mandi, Delhi 6. Tin Printers & Manufacturers of Plain and Decorative Tin Containers.

TINPLATE DEALERS

Bhartumal Ram Kishan.—Sirkiwalan, Delhi.
Chhoteylal Sanwal Dass.—5008, Bazar Sirkiwalan, Delhi.
H. K. Gupta.—5008, Bazar Sirkiwalan, Delhi.
Jugal Kishore Baburam.—Sirkiwalan, Delhi.
Jugal Kishore Chiranjilal.—Sirkiwalan, Delhi.
Lala Premnath.—4-U/B, Jawahar Nagar, Subzimandi, Delhi.
Lala Sanwal Dass Gupta.—5008, Bazar Sirkiwalan, Delhi.
Tinplate Dealers' Association P. Ltd.—5008, Bazar Sirkiwalan, Delhi.

TORCHES AND ELECTRIC GOODS

IMPERIAL ELECTRIC MART (Estd. 1920).—Sadar Bazar, Delhi. Phone : 26660. Grams : "SILKFLOWER."

TRACTORS

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

TRANSPORT COMPANIES

ASSOCIATED TRADERS & ENGINEERS PRIVATE LTD.—20, Asaf Ali Road, New Delhi. Branches : Amritsar, Kanpur, Bombay and Calcutta and other important places throughout India.

Bharat Transport Co.—Naya Bazar, Delhi.
First National Transport Co.—Naya Bazar, Delhi.
Girdher & Co. P. Ltd.—M-76, Connaught Circus, New Delhi.
Goods Transport Co.—Naya Bazar, Delhi.
Green Bus Service.—3/726, Church Mission Road, Fatehpuri, Delhi.
Ithad Motor Transport Ltd.—Fatehpuri, Delhi.
Jaggi Oberoi Transport Corpn. of India.—Naya Bazar, Delhi 6.
Jai Motor Transport Co.—Naya Bazar, Delhi 6.

JAIPUR GOLDEN TRANSPORT CO. PRIVATE LTD.—Lahori Gate, Delhi. Daily Parcel Service between Jaipur, Jodhpur, Udaipur, Ahmedabad, Kotah, Indore, Delhi.

Lyallpur Doabi Transport Co.—Naya Bazar, Delhi 6.
New Golden Transport Co. Ltd.—Roshanara Road, Delhi.

NEW INDIA TRANSPORT CO. PRIVATE LTD.—Roshanara Road, Delhi.

NORTHERN INDIA GOODS TRANSPORT CO. PRIVATE LTD.—Head Office : Naya Bazar, Delhi 6. Phones : 23120, 28217. Connects 10 State Capitals and 140 towns by daily Truck Service. 10 branches in Delhi alone.

Prem Nath Transport Co. Ltd.—Connaught Circus, New Delhi.
Ravi Goods Transport Co.—Naya Bazar, Delhi.
Royal Goods Transport Co.—Naya Bazar, Delhi.
Simla Hills Transport & Service Ltd.—Connaught Circus, New Delhi.
Vir Bharat Motor Transport Co.—Naya Bazar, Delhi.

TRAVEL AGENTS

ORIENT EXPRESS CO. PRIVATE LTD., THE.—70, Janpath, New Delhi 1. Phones : 47178 & 47179. Grams : "OREXPRESCO."

TYRE DISTRIBUTORS

GLOBE MOTORS PRIVATE LTD.—1/1, Jhandewala, New Delhi.

UTENSILS

Har Kishan Das Pearey Lal.—Hauz Qazi, Delhi.
Jugal Kishore Babu Ram.—Bazar Sirkiwalan, Delhi.

VANASPATI

D. C. M. Chemical Works.—Najafgarh Road, Delhi.
Ganesh Flour Mills Co. Ltd.—P.B. No. 1025, Delhi.

WATCHES, CLOCKS AND SPARE PARTS DEALERS

Amarson Watch Co.—10-C, Connaught Place, New Delhi.
American Watch Co.—Fountain, Chandni Chowk, Delhi.
Awtar Watch Co.—Chandni Chowk, Delhi.
B. Aggarwal Watch Co.—Chandni Chowk, Delhi.
Baldev Raj and Co.—2887, Sirkiwalan, Hauz Qazi, Delhi 6.
Balkrishan Dass and Sons.—Watch Dealers, Chandni Chowk, Delhi.
Banarsi Dass & Bros.—Katra Subhash, Chandni Chowk, Delhi 6.
Bertane & Co.—Near Dena Bank, Chandni Chowk, Delhi.
Central Watch Co.—Chandni Chowk, Delhi.
Cooke & Kelvey Ltd.—Scindia House, New Delhi.
Corona Watch Co.—Chandni Chowk, Delhi.
D. N. Sondhi & Co.—Fountain, Chandni Chowk, Delhi.
Fine Watch Co.—Opp. Central Bank, Chandni Chowk, Delhi 6.
G. C. Chawla Watch Co.—Fatehpuri, Delhi.
Great Bharat Stores.—Near Fatehpuri, Chandni Chowk, Delhi.
Hind Watch Co.—New Lajpat Rai Market, Chandni Chowk, Delhi.
Imperial Watch House.—Chandni Chowk, Delhi.
Inderjit Jitendra Kumar.—802-2, Gandhi Street, Fatehpuri, Delhi 6.

JAYNA TIME INDUSTRIES PRIVATE LTD.—Head Office : 7/32, Daryaganj, Delhi. Factory : Sahibabad. G.T. Road, Gaziabad (U.P.).

JAYNA WATCH CO.—Sadar Bazar, Delhi. Importers & Wholesalers of Watches, Clocks & Timepieces. Phone : 26660. Grams : "SILKFLOWER."

Kahan Chand Satya Pal.—Near Dena Bank, Chandni Chowk, Delhi.
Kanhaya Watch Co.—Chandni Chowk, Delhi.
K. C. Raj & Co.—Chandni Chowk, Delhi.
Krishna Watch Co.—Main Bazar, Paharganj, New Delhi.
Ladli Prasad & Sons.—Chandni Chowk, Delhi.
Lakshmi Narain & Co.—Chandni Chowk, Delhi.
Lucky Clock Supply Corpn.—12/20, Shakti Nagar, Sabzimandi, Delhi 6.
Modern Jewellers.—Regal Bldgs., New Delhi.
Modern Watch House.—Fountain, Chandni Chowk, Delhi.
Mutreja Watch Co.—New Lajpat Rai Market, Chandni Chowk, Delhi.
New Era Watch Co.—25/B, Pleasure Garden Market, Chandni Chowk, Delhi.
New India Watch Co.—Fountain, Chandni Chowk, Delhi.

PACKARD WATCH CO.—Chandni Chowk, Delhi 6.

Partap Chand & Sons.—1853 Fountain, Chandni Chowk, Delhi.
Phoenix Watch Co.—Chandni Chowk, Delhi.
Premier Watch Co.—Chandni Chowk, Delhi.
Punkaj Traders.—Chandni Chowk, Delhi.
Puran Chand & Co.—Fatehpuri, Delhi.
Ram Kishen Dass & Sons.—202, Fatehpuri, Delhi 6.
Regal Watch Co.—Chandni Chowk, Delhi.
R. S. Umrao Singh & Sons.—Near State Bank, Chandni Chowk, Delhi.
Swastik Watch Co.—Chandni Chowk, Delhi.

SWISCO.—P.O. Box 1512, Delhi. Manufacturers of Glasses for Clocks & Time-Pieces and Plastic glasses for Watches.

Standard Trading Co.—16-E, Kamla Nagar, Delhi 6.
Union Watch Co.—Chandni Chowk, Delhi.
Vasani Watch Co.— Gali Haidar Kuli, Chandni Chowk, Delhi.

WICKS AND TAPE MANUFACTURERS

PREMIER TEXTILE FACTORY.—Shayama Prasad Marg, Delhi 6. Manufacturers of 'SUN' brand and 'DEEPAK' brand Lantern & Lamp Wick, Tapes and Braids Silk & Cotton.

WINE & SPIRIT MERCHANTS

Bhola Ram Sons P. Ltd.—Mori Gate, Delhi 6.
Empire Stores.—Connaught Place, New Delhi.
Gaindamull Hem Raj.—11, Regal Bldgs., Parliament Street, New Delhi.

GHAIO MALL & SONS.—32-H, Connaught Circus, New Delhi. Phone : 43870. Head Office : Amritsar. Sole Agents for Gaston Dugas' (France) Johnshone No. 1. Brandy and Hospital No. 1. Brandy, Imperial Dog No. 1. Whisky, Blue Bird Whisky, Sea Lord's No. 1. Brandy, Lord's XXX Rum and several other brands.

Herbertsons P. Ltd.—2, Daryaganj, Delhi 6.
J. Diesh & Co.—Baird Road, New Delhi.
Mohan Brothers.—3, Sadar Thana Road, Delhi 6.
Motandas & Co., T.—4E, Thana Sadar Road, Delhi 6.
Phipson & Co. Ltd.—Connaught Circus, New Delhi.
Spencer & Co. Ltd.—Connaught Circus, New Delhi.

WIRE PRODUCTS

Aggarwal Cable Works.—Bazar Sitaram, Delhi.
Allied Agencies.—1399, Pahari Imli, Juma Masjid, Delhi 6.
Delton Cable Co.—1400, Pahari Imli, Delhi.

JAWAHAR LAL JAIN & CO.—Chawri Bazar, Delhi. Manufacturers of Wire Nettings, Chain link Fencing, Panel Pins and Door Mattings, etc.

WOVEN LABEL MANUFACTURERS

KAPOOR & CO.—Manufacturers of Woven Labels, Names and Initials, Badges, Fancy Silk and Cotton Laces & Borders, Braces & Belts, Fringes, Niwar, Tapes & Webbings, etc., Post Box No. 146, Ram Nagar, New Delhi 1. Phone : 44883. Grams : "RAKA."

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GUJARAT

THE State of Gujarat came into being on May 1, 1960. Until its formation as a separate State it was part of the bilingual State of Bombay.

The State was formed through the enactment of a measure called the Bombay Reorganisation Act, 1960.

Capital : Ahmedabad (provisional).

Area : 72,137 sq. miles. Population : 20·62 million (1961 census) (Provisional). See "*Late Particulars*" for detailed 1961 census figures.

There are 17 Districts and 183 Talukas. The number of municipalities is 147.

Districts with headquarters in brackets are as follows :—

Ahmedabad (Ahmedabad), Baroda (Baroda), Banaskantha (Palanpur), Broach (Broach), Mehsana (Mehsana), Kaira (Kaira), Panch Mahals (Godhra), the Dangs (Ahwa), Surat (Surat), Sabarkantha (Himatnagar), Jamnagar (Jamnagar), Bhavnagar (Bhavnagar) Amreli, (Amreli), Junagadh (Junagadh), Kutch (Bhuj), Rajkot (Rajkot), Surendranagar (Surendranagar).

(For names of talukas and their population see under "*Late Particulars*").

It should be added here that two of the Districts have been enlarged as a result of the bifurcation — Surat and Broach.

In Surat an existing Taluka, Songadh has been enlarged through the addition of 38 villages each from the Nawapur and Nandurbar Talukas of West Khandesh District. And a new Taluka called Umbergaon has been added which consists of 50 villages formerly in the Umbergaon Taluka of Thana District.

In Broach District the Sagbara Taluka has been enlarged through the addition of 80 villages from the Akkalkuwa and Taloda Talukas of West Khandesh District.

Gujarat State has a unicameral legislature. The strength of the Legislative Assembly is 132 (will be 154 after the next election). The State sends 11 members to the Rajya Sabha and 22 to the Lok Sabha.

Certain institutions located in Bombay State,* would continue to provide the same facilities to the people of Gujarat as they did before bifurcation.

Though the State has fertile land it is deficit in food to the extent of one million tons a year. Its resources of industry and power are at the present time low. There is also a surprisingly high percentage of backward and Scheduled Classes and Scheduled Tribes. They constitute 84 per cent of the population of Dangs, 47 per cent in Surat, 41 per cent in Panch Mahals, 37 per cent in Broach and 18 per cent in Baroda. One bright feature is the possibility of the existence of mineral oil in the Cambay region where drilling is in progress.

It is expected that Gujarati would be the language of administration. Acts of the former Bombay Government have been published in Gujarati. The former Baroda and Kathiawad States have had a long experience of Gujarati in the administration and the law courts. The Gujarat University's schedule seeks to make Gujarati the medium of instruction and examination by 1961.

GEOGRAPHY

Gujarat State is situated on the west coast of India between 20·1 and 24·7 degrees north latitude and 68·4 and 74·4 degrees east longitude. The State is bounded by the Arabian Sea on the west, Rajasthan in the north and east, Madhya Pradesh in the south-east and Maharashtra in the south.

The bigger rivers are Banas, Saraswati, Sabarmati, Mahi and of course, the Narmada and Tapti. The smaller rivers are Machhu, Badar, Shetrunji and Damanganga. The land slopes gradually from the east to the west. The soils are of two classes the black cotton soil which yields the famous Broach cottons, the finest in India and alluvial which under careful cultivation in Ahmedabad and Kaira make splendid garden land. The plains watered by the Narmada and Tapti are very rich. Their fertility is so marked that they are sometimes called the Garden of India.

On the basis of average rainfall the regional features can be summarised as follows :—

South Gujarat, where the rainfall varies between 30″ and 60″. The annual range in temperature is wide.

North Gujarat, where the rainfall varies between 20″ and 40″ but is mostly around 40″ in Godhra and 25″ in Viramgam. The area has lower winter temperatures.

Saurashtra, the area comprising the coastal regions of Jamnagar and Junagadh. This is dry, the rainfall being less than 25″.

South-central Saurashtra and the Cambay region : The rainfall is 25″ and over.

Kutch, which is semi-desert, the rainfall being very low.

The percentage of area under barren and unculturable land is very high. This is partly because of extensive barren lands in Kutch. The State is rich in permanent pastures and grazing lands.

The per capita income is Rs. 272 compared with Rs. 254 for the Indian Union as a whole. The main source of income is, of course, agriculture. The figures in Rs. crores for 1954–55 are :—

Agriculture, animal husbandry, ancillary activities 209·5 ; mining, manufacturing and small enterprises 106·6 ; commerce, transport, communications 81·0 ; other services 68·9.

The main food grains are bajri, jawar, rice and wheat. Rice is grown chiefly in the south Gujarat districts of Kaira, Panch Mahals, Baroda and Surat ; cereals are grown in the north Gujarat and Saurashtra Districts. Wheat is grown more especially in north Gujarat and to some extent in Saurashtra. The district of Panch Mahals is also noted for maize. The total production of 19·6 lakh tons gives a per capita consumption of 11 ozs. a day. The State has a food deficit of one million tons a year.

Among non-foodgrains crops, cotton and maize are important. More than one-fifth of the area under cotton in the Indian Union is in this State.

The State has limited forest resources. The area occupied is about 8·4 per cent of the total geographical area of the State. The forest areas are concentrated mainly in Dangs, Junagadh, Panch Mahals, Baroda, Broach, Surat and Banaskantha Districts and to some extent in Jamnagar and Kutch.

The major forest produce is teak, bamboos, yellow wood, red wood, black wood, sandal wood, Khar, Simal, Dhumda, Dudhia, etc. Minor forest produce is grass, honey, wax, colouring wood. Dangs has rich teak forests. The Gir forests in Saurashtra contain a lions' sanctuary, the only one in India.

About livestock, there is a high proportion of she-buffaloes over three years. The State is noted for its high yield of milk per head of cattle. Certain breeds like Kankrej and Gir are well-known. The high milk yield generally contributes to the high production of milk and dairy products.

Banking facilities are better than elsewhere ; there is a bank for every 33,000. Of the different areas in the State Rajkot has the highest facilities.

Gujarat is rich in minerals like salt, limestone, manganese, gypsum, china clay, calcite, bauxite, etc. Kaira is rich in bauxite and limestone, while calcite and limestone are mined in Jamnagar. Manganese is mined in Baroda and Panch Mahals, while fireclay is mined in Surendranagar District. Gypsum is available in all the districts of Saurashtra.

Recently oil and natural gas have been found at Lunej in the Cambay region and Baroda where drilling is in progress. A refinery is to be set up in the State shortly.

Oil has been struck at Kalol near the proposed new capital Gandhinagar.

The major industries of the State are textile (including ginning and pressing of cotton), general and electrical engineering, vegetable oils, chemicals (including salt), soda ash and cement. The concentration of industry is most striking in Ahmedabad where nearly one-fourth or 856 of the factories in the State are registered.

The distribution would roughly be as follows:— textiles and its ancillaries in Ahmedabad, silver thread in Surat, cement at Porbandar, Dwarka and Sikka, chemicals around Baroda.

A dozen industrial estates are proposed to be located in underdeveloped areas so that there may be one such estate in each district by the end of the Third Five-Year Plan. The Government has also decided to carry out pilot plant tests of certain minerals for industrial use.

Power development in Gujarat is higher than the average for India. About 53 per cent of the number of towns is electrified.

The implementation of the Ukai project may make a big difference to the industrialisation of southern Gujarat. The first stage of the Narmada Project costing Rs. 42 crores was inaugurated on April 5, 1961.

Road transport is satisfactory for the State as a whole — 20·75 miles per 100 square miles of area or 93·7 miles per lakh of population. The position is good in Rajkot and south Gujarat and more especially in Dangs. It is poor in Jamnagar, Surendranagar, Banaskantha, Sabarkanta, Mehsana and Panch Mahals. It is poorest in Kutch.

Saurashtra has a net-work of railways. The Baroda area is also well-served. But railway communication is very poor in Dangs.

There are 58 ports in Gujarat (one major, eight medium, 49 minor). The bigger ports with their annual turnover :—Kandla (10,68,727 tons), Okha (3,79,000 tons), Bedi (3,61,000 tons), Bhavnagar (2,28,951 tons), Verawal (1,70,000 tons), Sikka (1,62,260 tons), Porbandar (1,45,664 tons).

About education nearly 15 per cent of the population attends school.

There are three universities in Gujarat — the Gujarat University in Ahmedabad, the Sayajirao University in Baroda and the Sardar Vallabhbhai Rural University in Anand. The establishment of two more universities one at Rajkot and the other in South Gujarat is under consideration.

Each Government dispensary or hospital in the State serves about 18,000 of the population and each bed about 2,400. On an average about 8,540 persons register every month for employment. Out of this about 847 are placed in employment.

The Second Plan outlay for the State was Rs. 145·88 crores or Rs. 91 per capita.

NEW CAPITAL

The Government had decided to build the new capital of the State at Gadhinagar, 15 miles north of Ahmedabad City on the west bank of the Sabarmati river.

In view of the find of oil at Kalol near the proposed capital and the prospect of getting coal near that locality, it is still an open question.

* Bilingual.

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BASIC FACTS AND FIGURES

No. of towns 243 ; no. of villages 18,729.

Land utilization in '00 acres in 1956–57 :— total area 4,44,023 ; area under forests 21,086 (reserve 13,064 ; protected 3,075) ; net area sown 2,29,305 ; gross cropped area 2,39,799 ; barren and uncultivable 1,24,578 ; land in non-agricultural use 4,987.

Cultivable waste 12,016 ; under tree crops and groves 11,767 ; permanent pasture and grazing groves 22,810 ; current fallows 11,134 ; other fallow land 6,340.

Area and Outturn of Principal Food and Non-food Crops—area in '00 acres and outturn in '00 tons — for 1958–59 ((first figure shows area, second outturn) :—

Rice 11,800 and 4,480; wheat 10,080 and 3,150 ; jowar 35,240 and 4,080 ; bajri 41,260 and 6,820 ; all cereals 1,08,830 and 22,860 ; tur 2,020 and 480; gram 3,040 and 480 ; all pulses 12,020 and 1,640 ; all foodgrains (cereals and pulses) 1,20,850 and 24,500 ; cotton 45,840 and 13,020 bales ; groundnut 32,870 and 11,330 ; tobacco 1,510 and 430.

Area Irrigated : by sources in 1956–57. The figures are in '00 acres :—

Government canals 1,304 ; private canals 11 ; wells 11,276 ; tanks 692 ; other sources 253 ; total area irrigated 13,536 ; gross area irrigated 14,878.

Area irrigated by crops in 1956–57. The figures are in '00 acres :—

Rice 1,609 ; wheat 5,042 ; jowar 657 ; bajri 813 ; all food crops 10,752 ; cotton 1,102 ; groundnut 85 ; tobacco 217 ; total non-food crops 4,126 ; total gross area irrigated 14,878.

Agricultural Implements in 1956 :—wooden ploughs 12,65,829 ; iron ploughs 57,315 ; carts 6,31,700 ; sugarcane crushers worked by power 1,314 ; sugarcane crushers worked by bullocks 2,598 ; oil engines with pumps for irrigation 19,087 ; electric pumps for irrigation 1,111 ; Government tractors 65 ; private tractors 754 ; ghanis five seers and over 4,345 ; ghanis less than five seers 1,343.

Livestock Position in 1956 :—Cattle females over 3 years 16,49,427 ; buffaloes females over 3 years 14,84,104 ; breeding bulls 17,277 ; total buffaloes 26,40,061 ; total cattle 60,55,211 ; sheep and goats 43,49,008 ; total live-stock 1,33,11,842 ; total poultry 18,54,381 ; total horses and ponies 1,01,806 ; donkeys 1,21,329.

Co-operation in 1959-60 (number of societies) : — agricultural societies 7,900 ; non-agricultural societies 4,500 ; land mortgage banks 6 ; central banks 27 ; total 12,433.

Co-operation in 1959–60 (number of members) : — of agricultural societies 9,00,000 ; of non-agricultural societies 5,42,000 ; of land mortgage banks 20,000 ; of central banks 1,71,000 ; total 16,33,000.

Co-operation in 1959–60 (working capital of societies in '000 Rs.) :— agricultural 3,90,000 ; non-agricultural 2,90,000 ; land mortgage 11,700 ; central banks 4,10,000 ; total 1,101,700.

Co-operation in 1959–60 (share capital in '000 Rs.) :—central banks and banking unions 26,489 ; agricultural societies 54,117 ; non-agricultural societies 38,228 ; Land Mortgage Banks 727.

Various types of banking offices as in 1957–58 :— Scheduled banks 258 ; non-scheduled banks 1 ; co-operative banks 226 ; total banking offices 485.

Joint-Stock Companies in 1956 — The first figure shows the number of Companies, the second authorised capital and third paid-up capital in '00 Rs. :—Agricultural and allied activities 6 ; 26,000 ; 14,988. Mining and quarrying 17 ; 86,350 ; 43,414. Processing and manufacture of food, textile, leather and products thereof 210 ; 52,62,635 ; 25,93,194. Processing and manufacture of metals, chemicals and products thereof 106 ; 9,35,265 ; 3,04,362. Construction and utilities 24 ; 3,20,106 ; 1,35,270. Commerce (trade and finance) 270 ; 19,66,106 ; 7,31,281. Transport, Communications and storage 31 ; 3,78,683 ; 1,27,617. Community and business services 10 ; 9,040 ; 3,218. Personnel and other services 13 ; 56,500 ; 17,285. Total for State 735 ; 98,76,226 ; 42,30,615.

Medical Statistics for 1957 :—No. of hospitals and dispensaries 896 ; no. of beds 6,766 ; no. of indoor patients treated 3,09,899 ; no. of outdoor patients treated 73,97,616 ; total no. of indoor and outdoor patients treated 77,07,515.

Each bed serves a population of 2,400. Population served by each hospital or dispensary is 8,000.

Education Statistics for 1958-59. The first figure shows the number of institutions, the second of pupils :—

Higher education 69 and 39,145, Secondary education 801 and 2,94,867. Primary education 17,087 and 19,94,787. Other special institutions 7,095 and 1,91,133. Total 25,053 and 25, 19,133.

No. of teachers as in 1957–58 : in primary institutions 50,145 ; in secondary institutions 10,765 ; in higher institutions 2,013 ; total 62,923.

Statistics about **electric power** as in 1960 (figures in '000 kwh) :—

Power generated 11,63,208.

Power consumed : domestic 65,004 ; commercial 26,088 ; industrial 7,92,204 ; others 89,208 ; total 9,72,504.

Statistics about INDUSTRY as in 1958 :—

No. of factories 3,243 ; employment 3,13,601.

Below we give statistical figures relating to some individual industries as in 1956.

The figure in brackets shows the number of factories* reporting.

Wheat flour and biscuit making :—factories 4 (3)†; capital Rs. 17,98,592 ; persons employed 117 ; production Rs. 52,31,776.

Vegetable oils :—176 (140) ; Rs. 5,09,59,090 ; 7,401 ; Rs. 20,78,98,507.

Cement :—4 (4) ; Rs. 7,01,27,703 ; 2,891 ; Rs. 4,61,81,703.

Glass and glassware :—3 (3) ; Rs. 52,71,620 ; 831 ; Rs. 72,22,454.

Ceramics :—10 (9) ; Rs. 1,08,00,938 ; 2,448 ; Rs. 68,04,879.

Paper and paper board :—6 (6) ; Rs. 79,16,033 ; 1,499 ; Rs. 98,88,671.

Cotton textiles :—120 (117) ; Rs. 74,69,17,976 ; 1,83,971 ; Rs. 1,36,62,52,062.

Chemicals :—28 (27) ; Rs. 11,26,15,610 ; 6,584 ; Rs. 9,82,38,775.

Aluminium, copper and brass :—17 (11) ; Rs. 15,18,714 ; 467 ; Rs. 45,47,885.

Iron and Steel :—4 (4) ; Rs. 23,56,791 ; 258 ; Rs. 45,18,253.

General Engineering and Electrical Engineering :—96 (84) ; Rs. 1,87,76,460 ; 4,683 ; Rs. 2,88,55,496.

Others :—11 (9) ; Rs. 3,38,33,697 ; 2,573 ; Rs. 3,83,86,041.

Total†:—479 (417) ; Rs. 1,06,28,93,224 ; 2,13,723 ; Rs. 1,82,40,26,502.

Total of all **Factories** (1957-58) 3,503 ; no. of working factories 3,315 ; no. of reporting factories 2,730 ; average no. of workers a day : 3,18,593.

Mineral production as in 1956. First figure shows quantity in tons, second value in '000 Rs. :—

Bauxite 13,926 and 107 ; Calcite 1,480 and 15 ; China clay 21,037 and 417 ; fire clay 3,044 and 21 ; limestone 3,07,740 and 1,706 ; manganese 96,911 and 8,685 ; salt : quantity not available, value Rs. 2,74,90,000.

Production 1956 :—Rs. 3·84 crores ; per capita production 1956 : Rs. 2·39.

Employment exchange statistics (1959) :—

Registrations 76,852 ; vacancies notified 14,071 ; placements 7,620 ; live register at end of period 41,171.

No. of **Motor Vehicles** in operation as in 1958 :—motor vehicles 3,899 ; motor cars 10,012 ; taxi cabs 696 ; auto rickshaws 741 ; stage carriages (diesel) 1,276 ; stage carriages (petrol) 178 ; private carrier lorries (diesel) 119 ; private carrier lorries (petrol) 724 ; public carrier lorries (diesel) 950 ; public carrier lorries (petrol) 6,198 ; ambulances 69 ; school buses 36 ; private service vehicles 17 ; trailers 837 ; tractors 1,002 ; others 134 ; total 26,888.

Mileage of metalled and non-metalled **Roads** as in March 1958 :—

Metalled 5,947·89 ; non-metalled 9,037·09 ; total 14,984·98.

Railway mileage as in 1957 :—

Broad gauge 531·80 ; metre 2,035·64 ; narrow 716·56 ; total 3,284·00.

Statistics relating to **Nationalized Road Transport** as in March 1959 :—

No. of routes 1,557 ; route mileage 34,814 ; average route 22·4 miles ; average service mileage per day 1,29,943 ; no. of vehicles on road per day 1,231 ; operating fleet 1,540 ; average daily earnings Rs. 1,95,685 ; average earning per vehicle per day Rs. 159 ; daily diesel oil consumption 9,018 gallons ; no. of passengers travelled per day 3,90,168 ; average distance travelled per passenger per day 9·48 miles.

Village Panchayats (as on Jan. 1, 1960) :—

No. of village panchayats 10,497; no. of villages covered 17,201 ; percentage of villages covered 61.

Community Development Programme March 1960 :

No. of blocks of CPA pattern 171 ; no. of villages covered 16,200 ; area in sq. miles 67,809; population 1,07,27,083; total Government expenditure upto 31st March 1960 since inauguration Rs. 10,06,58,000 ; fertilizers distributed ; 27,40,882 mds. ; improved seeds distributed 13,40,348 mds. ; no. of animals castrated 47,225 ; no. of pedigree bulls supplied 7,632 ; area reclaimed and bunded 1,05,527 acres ; additional area brought under irrigation 2,36,925 acres ; drinking water wells constructed 2,680 ; adults made literate 6,42,927 ; youth clubs started 3,255 ; farmers' unions started 5,277 & mahila samitis started 1,299 ; katcha roads constructed 10,711 furlongs.

Small Savings :—Figures for 1959-60 : target Rs. 755·00 lakhs ; net collection Rs. 862·50 lakhs ; percentage 114·24 ; annual net targets for 1960-61 : Rs. 935·00 lakhs.

Consumer Price Index numbers (base average Aug. 1926 to July 1927 as 100) :—

	1956	1957	1958	1959
Food	248	268	291	340
Fuel, lighting ..	271	282	283	327
Clothing	339	339	339	339
House rent ..	107	107	107	107
Miscellaneous ..	327	335	341	348
Cost of living ..	244	259	274	308

Note : under 'others' are included 2 starch factories, one tanning, 2 woollen textiles, one paints and varnishes, 2 match and one bicycle.
* By factories are meant those units that use power and employ 20 or more workers.
† One wheat flour and two biscuit making.

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Index nos. of **wholesale prices** (base 1952–53 = 100):—

	1956	1957	1958	1959
Food articles ..	99·0	106·8	112·0	118·2
Liquor and tobacco	82·3	91·8	93·7	100·7
Fuel, power, light and lubricants	101·6	111·5	115·2	116·0
Industrial raw material	113·2	118·1	114·8	119·7
Manufacture ..	104·9	107·9	108·2	109·7

ELECTRIC POWER PROJECTS

Assets of Electricity Board (March 1959): Rs. 20·5 crores.

The position as at the end of March 1959 was as follows:—

Total installed capacity 90,068·60 kW (steam 59,500 kW; hydro, nil; diesel 30,568·60 kW); amount spent on electricity schemes in 1958–59: Rs. 416·71 lakhs; working expenditure during 1958–59; Rs. 253·97 lakhs; total no. of towns and villages electrified 455; total no. of transmission lines above 11 kV in circuit miles 2,117; total no. of consumers 93,906; total production during 1958–59: 353·50 × 10^6; total sale during 1958–59: 303·96 × 10^6; total estimated cost of schemes under the Second Plan Rs. 1,500 lakhs; total estimated foreign exchange component required during the period Rs. 470 lakhs; estimated capital expenditure for 1959–60: Rs. 657·05 lakhs.

The following are the more outstanding projects with the installed capacity as on 31st March 1959:—North Gujarat Electric Grid 22,500 kW; South Gujarat Electric Grid 37,500 kW; Sikka Power House 16,000 kW; Shahpur Thermal Station 6,000 kW; Rajkot diesel station 6,960 kW.

North Gujarat Electric Grid Scheme: The Scheme is based on bulk purchase from Ahmedabad Electricity Co.; Energy purchased during 1958–59: 160·89 × 10^6 units; Energy sold during 1958–59: 141·73 × 10^6 units; No. of consumers: 22,243; Milage of Transmission lines: 1,053·791; No. of villages and Towns electrified: 238.

South Gujarat Electric Grid Scheme: The Scheme is based on the central Power Station at Utran with installed capacity of 37,500 kW; Units generated in 1958–59: 95·96 × 10^6; Units sold in 1958–59: 82·87 × 10^6; No. of consumers 6,602; No. of Villages and Towns electrified: 72; Milage of Transmission lines 11 KV and above: 432·702; Capacity under erection 30,000 kW; Expected total capacity by end of Second Plan: 67,500 KW.

With the commissioning of the first 15,000 KW. set at Utran power house and Utran-Baroda 66 KW. line, part of the Baroda load originally served from the North Gujarat Electric Grid system is now transferred to the South Gujarat Electric Grid System.

Shahpur Grid Scheme:—This has a power station at Shahpur which is inter-connected with some diesel stations in the area; Installed capacity of Shahpur Thermal Station: 6,000 KW; (Installed capacity of diesel P.H. connected to Shahpur Grid: 3,682 KW.); Units generated during 1958–59: 11·08 × 10^6 Units generated during 1958–59, by diesel: 0·14 × 10^6; Units sold during 1958–59: 6·80 × 10^6; No. of consumers: 12,670; Milage of Transmission lines 11 KW and above: 211·347; Expected total capacity by end of Second Plan: Shahpur: 6,000 KW. and Diesel P.H.: 3,681 KW.; No. of Villages and Towns electrified: 34.

Rajkot Power House: Installed capacity of Rajkot P.H. 6,142 K.W. (A.C.); 818 KW. (D.C.); Installed Capacity of Diesel Power Houses connected to Rajkot P.H. 940 K.W.; Units generated during 1958–59: 16·00 × 10^6; Units generated by diesel P.H. connected to Rajkot P.H.: 0·20 × 10^6; Units sold: 12·25 × 10^6; No. of Consumers: 13,502; Milage of Transmission lines: 118·50; Expected total capacity by end of Second Plan: 10,900 KW.; No. of Villages & Towns electrified: 28.

Bhavanagar Grid Scheme: Power is purchased from Bhavanagar P.H. Milage of Transmission lines 11 KW and above: 37·00; Units purchased: 0·72 × 10^6; Units sold: 0·71 × 10^6; No. of consumers: 92.

Jamnagar – Sikka Scheme: There are two Power Houses. Installed capacity of Sikka P.H.: 16,000 KW.; Units generated during 1958–59: 49·69 × 10^6; Installed capacity of Jamnagar P.H.: 3,007 KW.; Units generated during 1958–59: 1·72 × 10^6; Units sold during 1958–59: 45·5 × 10^6; No. of consumers: 8,780; Milage of Transmission lines: 11 KV and above: 59·50; No. of Villages and Towns electrified: 3.

Surendranagar Scheme: Milage of Transmission lines: 52·00.

Porbandar Scheme: This has a Power House at Porbandar. Installed Capacity: 2,567 KW; Units generated during 1958–59: 3·85 × 10^6; Units purchased during 1958–59: 0·45 × 10^6; Units sold during 1958–59: 3·97 × 10^6; No. of consumers: 4,153; Milage of Transmission lines 11 KV and above: 4·66; Capacity under erection: 15,000 KW; Expected total capacity by end of Second Plan: 17,567 KW; No. of Villages and Towns electrified: 2.

Kandla Thermal Scheme: Capacity under erection: 6,000 KW; Expected total capacity at the end of Second Plan: 6,000 KW.

Minor diesel nursery schemes unconnected to any Grid: There are 35 such power houses. Installed capacity: 12,998 KW; Units generated during 1958–59: 12·37 × 10^6; Units sold during 1958–59: 10–11 × 10^6; No. of consumers: 25,308; Milage of Transmission lines: 180·625; No. of Villages and Towns electrified: 75.

Minor Schemes based on bulk purchase: Units purchased: 0·43 × 10^6; Units sold: 0·34 × 10^6; Milage of Transmission lines circuit units: 18·50; No. of consumers: 556; No. of places electrified: 1.

IRRIGATION PROJECTS

Below we give a table in which are shown irrigation projects either in operation or under construction.

Name	Location.	When Started.	Date of Completion.	Area to be irrigated (Acres).	Estimated Cost (Rs. lakhs).
Banas Project ..	Banaskantha	1958	1964	1,10,000	827·22
Bhodar Project ..	Junagadh	1956-57	1962-63	45,000	323·00
Harna River Project..	Sabarkantha	1955	1962	10,000	26·00
Hathmati Reservoir Scheme	Sabarkantha	1957-58	1963	82,500	187·81
Kadana Reservoir Project	Panch Mahals	1956	..	40,905	156·40
Kakrapar	Surat	1952	1963	5,62,000	1,865·00 (Under revision)
Karod Tank Scheme in Kalol	Panch Mahals	1955	1960	15,200	99·89
Mahi Project (Stage I)	Panch Mahals	1948	1965	4,60,000	2,300·00
Machhu Irrigation Project	Rajkot	1949	1960-61	22,000	148·53
Meshwo Project ..	Sabarkantha	1957	1963	46,900	103·45
Moj Irrigation Project	Rajkot	1953	1962	15,000	96·45
Nirona Project ..	Kutch	..	..	14,000	48·42
Narmada River Project	Baroda & Broach	1961	..	9,62,000	4,309·79
Ozat Irrigation Project	Junagadh	1955	1960-61	15,000	44·49
Patadungri Tank Scheme	Panch Mahals	1953	..	12,000	62·16
Rudramata Irrigation Canal Works ..	Kutch	1957	1961	17,794	53·88
Saraswati Project ..	Banaskantha	Not started	..	16,600	78·45
Shetrunji Project (Khodinar) ..	Amreli	1957	1961-62	19,000	135·00
Shetrunji Project (Palitana)	Bhavnagar	1955	1962-63	86,000	432·00

UKAI PROJECT

The foundation stone of this project was laid on Nov. 27, 1959. The dam would stand about 70 miles from Surat on the river Tapti in Surat District. It is a power-cum-irrigation project, costing about Rs. 60 crores which would help the industrial development of southern Gujarat. It is also notable because the building of a dam here led to the necessity of the transfer of some villages from Dhulia Dist. in Maharashtra to Gujarat as they would be flooded by the reservoir.

The dam would be about two miles long and 345 feet high. The reservoir will contain more than six million acre feet of water and will be 200 sq. miles in area.

The project will irrigate 550,000 acres of land. The installed capacity would be 110,000 kW with three lines to Dhulia (Maharashtra), Baroda and Utran respectively. It will take eight years to complete.

It will help grow an additional 113,000 tons of foodgrains, 28,000 tons of cotton, and 52,000 tons of sugarcane annually.

HOUSING

We give below a note on the work of the Saurashtra Housing Board year by year. The rest of Gujarat was covered by the Bombay Housing Board of the former bilingual State.

1953–55: During these two years 700 subsidised industrial tenements were constructed under subsidised Industrial Housing Scheme. The distribution of these houses was as follows: Bhavnagar 200, Jamnagar 200, Rajkot 200, Surendranagar 200, Junagadh 40.

1955–56: During this year 1,000 tenements were constructed under the same scheme. The distribution was Bhavnagar 400, Jamnagar 300, Rajkot 200, Surendranagar 100.

1956–57: During this year 834 tenements were constructed. The distribution was Rajkot 310, Surendranagar 224, Junagadh 240, Jamnagar 60.

The above tenements are all one roomed, with a total floor space (including bath, W.C.) of about 280 sq. ft. The ceiling cost of each room is Rs. 2,700. The Government of India has fixed the standard rent at Rs. 10 p.m. with services charges extra.

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1957–58: During this year 400 tenements were constructed. The distribution was Rajkot 200, Surendranagar 150, Bhavnagar 50.

During 1958–59 the Board took up the construction of 680 tenements. All except 150 in Surendranagar were completed. The distribution was Rajkot 366, Surendranagar 150, Bhavnagar 164.

The ceiling on the cost of the above tenements is Rs. 3,300 and the standard rent fixed by the Government of India is Rs. 12·50.

The Saurashtra Housing Board has also undertaken to develop the plots of land under the Low Income Group Housing Scheme. Acquisition proceedings for the land are under progress. For this Scheme, Government have already placed an amount of Rs. 4 lakhs at the disposal of the Board.

THIRD FIVE-YEAR PLAN

The following is the detailed allocations of Rs. 230 crores under Gujarat Third Five-Year Plan Schemes after the sanction of the Planning Commission:

	(Rs. in Lakhs)
Agriculture	703·37
Land Development	329·60
Minor Irrigation	1,500·00
Animal husbandry	250·00
Dairying and Milk supply	185·20
Forests	227·23
Soil conservation	648·20
Fisheries	123·00
Co-operation (including Warehouses)	417·10
Panchayats	119·05
Total Agriculture	4,502·75
Community Development	1,400·00
Multi-purpose, major and medium irrigation projects	5,004·00
Power Projects	4,498·00
Total Irrigation and Power	9,502·00
Small and medium scale industries	58·47
Village and Small Industries	373·40
Development of Mineral resources	25·00
Total Industry and Mining	456·87
Road Development	1,600·00
Road Transport	300·00
Harbour, Ports and Internal Water communications	200·00
Tourism	5·00
Total Transport and communications	2,105·00
Education	1,761·73
Health	1,594·41
Housing	914·75
Backward Class welfare	500·00
Social welfare	40·61
Labour and Labour Welfare	151·00
Total Social Service	4,962·50
Publications—Publicity	25·00
Statistics	10·82
Miscellaneous	35·06
Total Miscellaneous Schemes	70·88
Grand Total	2,30,000·00

SECOND FIVE-YEAR PLAN

First figure within rackets indicates the plan provision for the whole plan and the second, the plan allotment for 1960-61 in Rs. lakhs under different heads.

Agriculture and Community Development: (3,591·91) 1,045·00; Irrigation & Power: (5,755·95) 1,204·00; Industry and Mining: (476·18) 76·00; Transport and Communications: (1,675·57) 317·00; Social Services: (2,797·43) 794·00; Scientific and Industrial Research: (285·05) 30·00. Grand total: (14,588·01), 3,462·00. Expenditure incurred in the 1st four years of Plan: Rs. 109·59 crores.

PLANNING

Two policy decisions are: Gujarati will be the language of administration, law courts and university, and Hindi for communication with the Union Government.

Under planning the main effort will be to wipe out the State's food deficit estimated at between one million and 1·8 million tons. The State's requirements are estimated at 3·5 million tons a year, and the target is set at 3·8 million tons.

About Rs. 100 crores are expected to be spent on the increase of food production—for irrigation, fertilizers, seed farms, improved methods of agriculture.

While more than Rs. 38 crores out of the Rs. 49 crores earmarked for irrigation will be for spill-over schemes from the Second Plan, the remainder will be spent on 23 medium and minor irrigation projects (three in Gujarat, 13 in Saurashtra and seven in Kutch) and on part of the Rs. 14-crore Sabarmati project.

The utilisation of river waters for irrigation in Gujarat is expected to be increased from 22·5 per cent. to nearly 40 per cent. by the end of the Third Plan.

Under the scheme called the package plan an intensive drive is to be undertaken to increase the yield per acre.

There are at present 52 seed farms in Saurashtra and 66 in Gujarat.

Gujarat State Financial Corporation: *See "State Financial Corporations".*

An attempt will be made to impose a ceiling on cultivable area under cash crops. Now this is about 41 per cent. of the whole area under cultivation in Gujarat.

The Gujarat Land Ceilings Bill was moved in the Gujarat Legislative Assembly in Sept. 1960. The Bill seeks to fix ceilings on existing land holdings and on future acquisitions of land applicable uniformly throughout the State. The ceilings proposed in the Bill are dry crop land: from 56 to 132 acres; rice or paddy land: from 28 to 66 acres: seasonally irrigated land: 28 to 66 acres; perenially irrigated land: 14 to 33 acres. The Bill was subsequently referred to a Select Committee of the Assembly.

In ten districts less than one per cent. of landholders possess more than 48 acres each, just over ten per cent. between 16 and 48 acres each and over 88 per cent. have less than 16 acres each, which forms the economic holding for Jirayat land. The average holding per capita is barely five acres.

In 1948, there were as many as 27 different systems of land tenure in vogue in Gujarat. Some uniformity has now been introduced in levying land revenue.

In addition to solving the ticklish agrarian problems as in the Pardi grass-lands, the Bill provides land for the landless, accelerate the consolidation of holdings and pave the way for a voluntary system of co-operative farming as envisaged by the Planning Commission and the Congress Party.

Other points under planning are given below:

Free and compulsory primary education is to be extended to all areas in the new State for children in the 6–11 age-group. It will cost the Government Rs. 6 crores. Special emphasis is to be laid on girls' education and by the end of the Third Plan there will be a high school within five miles of every village.

The establishment of additional polytechnics and industrial workshops is another feature of the education programme.

The Third Plan period would include a scheme for the eradication of malaria in the State. The scheme would be worked out in co-operation with the World Health Organisation and the Union Government. It would cost Rs. 1·4 crores.

The State Government plans to establish a Rs. 40-lakh vaccine laboratory at Baroda to supply anti-malarial, anti-tuberculosis and anti-small-pox vaccines.

Another feature of the State's Third Plan is said to be the allocation of Rs. 8·5 crores for the development of intermediate and minor ports.

AHMEDABAD DISTRICT

Headquarters: Ahmedabad. (Provisional Capital of Gujarat).

Talukas or Mahals: Deskroi, Dhandhuka, Dholka, Dehgam, Viramgam, City Taluka, Sanand.

A district in Gujarat, it lies between North Latitude 28° 23′ and 23° 37′ and East Longitude 71° 21′ and 70° 28′. It is bounded on the north by Mehsana and Sabarkantha Districts, on the west by Surendranagar District, on the south by Bhavnagar District and on the east by Kaira. The total area of the District is 3,502 sq. miles. The language spoken is Gujarati.

In the extreme south of the District and also just beyond the northern boundary are a few rocky hills. But between these two points the whole District forms a level plain, gradually rising towards the north and east. The chief physical feature is the river Sabarmati which rises in the north-east, near the extremity of the Aravalli Range and flows towards the south-west falling finally into the Gulf of Cambay.

The District as a whole is open and poorly wooded. The chief trees are mango, rayan, mahua and nim. Many of the trees and shrubs supply food, medicines and material for dyeing and tanning.

The rainfall varies but slightly between the central portions of the District and the outlying tracts. The annual rainfall averages about 30 inches.

The principal towns in the District are besides Ahmedabad, Viramgam, Dholka, Daskroi, Dhandhuka, Dholera, Dehgam and Sanand. Dehgam taluka has been selected for development under the village extension services scheme.

The chief food crops are wheat, jowar and bajra and the chief money crop, cotton. The best rice is grown in Daskroi and the next best in Sanand and Dholka. The cotton which has a good staple is mainly grown in the Dhandhuka and Dholka Talukas. In Daskroi and Dholka many garden crops are also grown.

Ahmedabad city which is the second biggest textile centre in India is the only large industrial area in the District. The number of textile mills and factories is about 150 including 71 textile mills with a total number of 2,091,834 spindles and 41,720 looms and employing a daily average number of 1,30,916 workers, as on August 31, 1959. The approximate quantity of cotton consumed in 1959 was 707,032 bales of 3½ Cwts. per bale. The total invested capital is Rs. 110 crores. In 1957, Ahmedabad mills accounted for 57·25 per cent of the country's output and 38 per cent of superfine cloth. The Employees' State Insurance Scheme for workers and their families covering half a million people, is to be launched shortly. Ahmedabad is also a centre of railway communications. One line from Ahmedabad goes south-east to Baroda and Bombay; another goes south to Dholka; a third goes west to Viramgam where it joins the Saurashtra railway system; a fourth goes north-east through Parantij; and a fifth north through Palanpur and Ajmer. Ahmedabad has also a number of archaelogical landmarks and an international diversionary airport. Ahmedabad's 50-Kilo Watt Broadcasting station is equipped to reach even remote villages in Gujarat State.

With the establishment of the Gujarat University, Ahmedabad has become an important educational centre. It has over 30,000 alumni in Gujarat, Saurashtra and Kutch. The Ahmedabad Textile Industry's Research Association is the first institute of its kind in the whole of India. Ahmedabad is linked by air with Bombay, Jaipur, Delhi and Karachi.

The population of Ahmedabad City according to the 1961 census is 11·5 lakhs. Ahmedabad Corporation was established in 1950.

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AHMEDABAD MUNICIPAL CORPORATION

Mayor : Jaykrishnabhai Harivallabhdas.

List of Members : Ward No. 1 : Dr. Ajitkumar Purshottamdas Patel; Ochhavlal S. Talati (Dr. Talati); Sureshbhai Chimanlal Shah (Dr. Suresh Shah); *Ward No. 2 :* Martandrai Gangashanker Shastri; Arvindkumar Jivanlal Saheba; Jayendra Trikamlal Vaidya (Panditji); *Ward No. 3 :* Bachubhai Chhakadbhai Kapadia; Narottamdas Chandulal *alias* Hirabhai; Jivanlal Maneklal Zaveri; Bulakhidas Maganji Navalakha (Bulakhi Maganlal Navalakha); Prabhavatiben Chinubhai; *Ward No. 4 :* Gokaldas Somabhai Patel; Ashokkumar Chandulal (Dr. Ashok Mehta); Somabhai Chhakaddas Desai (Dr. Somabhai C. Desai); Natverlal Nathalal Shah; Narottamdas Keshavlal Jhaveri. *Ward No. 5 :* Manubhai Harilal Palkhiwala; Chimanlal Maneklal Patel; Jaykrishnabhai Harivallabhdas; Jayantilal Keshavlal Raval (Jayant Raval); Ismail Mohamadbhai Mansuri. *Ward No. 6 :* (Dr.) Shri Vasudev Natverlal Tripathi; Purshottamdas *alias* Babubhai Desaibhai Patel; Samsuddin Gulamnabi Munshi; Kusumben Panachand Shah; Purshottam Madhavji. *Ward No. 7 :* Kasamji Jamalji; Ganibhai Sultanji Guliwala; Krishnavadan Shankerlal Joshi; Ramanlal Somchand Shah; Amubhai Prabhashanker Shukla. *Ward No. 8 :* Nathabhai Galabhai Parmar; Maheshchandra Jashvantlal Shah; Hemlataben Harischandra Hegiste; Shabirhusain Bashir Mohamadkhan (Tejabvala). *Ward No. 9 :* Jayantilal Bhikhabhai; Dahyabhai Kalidas Patel (D. K. Patel); Ramanlal Dawalbhai Patel; Saryugauri Raviprasad Desai; Lalbhai Chhaganlal Patel, (*Bond-writer*). *Ward No. 10 :* Gemarbhai Ranchhodbhai Parmar; Jamnashanker Gordhandas Pandya; Chimanlal Nagindas; Devsingh Dungaji; Mohanbhai Narsinhbhai. *Ward No. 11 :* Ramji Shakrabhai; Umakant Savaji; Vijayaben Maneklal; Mohanlal Bapulal Joshi; (Mukhi) Prahladbhai Jijibhai. *Ward No. 12 :* Shiviben Ishwarlal; Manharlal Tuljashanker Shukla; Vimalbhai Nagindas Shah; Mohanbhai Jivabhai Patel; Rajabali Gopinath; Harilal Ranchhodlal Gaudani. *Ward No. 13 :* Pitamberbhai Jelabhai Parmar; Naranbhai Mafatlal; Shantilal Ranchhoddas Shah; Lallubhai Hirabhai; Ibrahimbhai Mohmadbhai Maniar; Shankerbhai Jeshingbhai Patel. *Ward No. 14 :* Chimanbhai Narsibhai Patel; Mangaldas Dharamdas Patel; Becharpari Dhanpari Gosai; Shambhubhai Ambalal Amin. *Ward No. 15 :* Khembhai Mangalal Laua; Biharilal Popatlal Shah; Madarsing Kalusing; Kunjbihari Somnath Trivedi.

CHAIRMEN OF THE COMMITTEES

The list of the Chairmen of the Committees was not available at the time of writing, see "Late Particulars".

ADMINISTRATIVE PERSONNEL

Municipal Commissioner : F. J. Heredia, I.A.S.

Deputy Municipal Commissioners: A. S. Thakore, B.A.; N. H. Thacker, M.Com., LL.M.

Municipal Secretary : M. K. Adhyaru, B.A. (Hons.), L.S.G.D.

Chief Accountant : N. V. Parikh, B.Com.

Town Development Officer : P. J. Patel, B.E. (Civil).

Estate and City Improvement Officer : J. T. Patel, B.E. (Civil).

City Engineer : M. J. Kakkad, A.M.I.C.E.

Medical Officer of Health : Dr. A. P. Dikshit, M.B.B.S., D.Ph.

Chief Auditor : S. K. Patel, B.Sc.

Special Engineer : Manibhai M. Patel, B.E. (Civil), A.M.I.F.

Supdt., Seth Lallubhai Gordhandas General Hospital : Dr. J. T. Bhatt, M.D.D., T.M.

Supdt., Sheth Vadilal Sarabhai General Hospital : Dr. M. D. Desai, M.D.

Chief Officer, Fire Brigade : J. K. Munshi, A.G.I.C.D.

Assessor & Collector : M. A. Panchal, Bar-at-Law.

Dairy Manager : G. M. Jhala, M. (Ag.) Sc. (New Zealand).

Transport Manager : J. H. Shukla, B.A., M.I.I.R.T.

EDUCATIONAL INSTITUTIONS

GUJARAT UNIVERSITY
(Ahmedabad)

The Gujarat University is a Teaching and Affiliating University established in 1949 under an Act of the then Bombay State Legislature and incorporated by the then Bombay Government in November 1950. Now it is under the jurisdiction of the State of Gujarat.

The Affiliated Colleges and Recognised Institutions are :—The H. L. College of Commerce, Navrangpura, Ahmedabad 9; The L. D. Arts College and M.G. Science Institute, Navrangpura, Ahmedabad 9; The L. M. College of Pharmacy, Navrangpura, Ahmedabad 9; The L. D. College of Engineering, Navrangpura, Ahmedabad 9; The Gujarat College, Ellis Bridge, Ahmedabad 6: Sir Lallubhai A. Shah Law College, Ellis Bridge, Ahmedabad 6; The B. J. Medical College, Asarwa, Ahmedabad 11; The J. & J. College of Science and C. B. Patel Arts Institute, Nadiad; The Petlad College, Petlad; The S. B. Garda College and B. P. Baria Science Institute, Navsari; The M.T.B. College, Athwa Lines, Surat; The K. P. College of Commerce, Athwa Lines, Surat; The Sarvajanik Law College, Civil Lines, Surat; The M. N. College, Visnagar. Dist. Mehsana, N.G.; The Samaldas College and Prabhashankar Pattani Institute of Science, Bhavnagar (Saurashtra); The Bahauddin College, Junagadh; The Dharmendrasinhji College and Kotak Institute of Science, Rajkot (Saurashtra); The M. J. College of Commerce, Bhavnagar; Lukhdhirji Engineering College, Morvi, Saurashtra; A. G. Teachers' College, Navrangpura, Ahmedabad 9; Darbar Gopaldas Mahavidyalaya, Aliabada (Jamnagar); The Ramji Ravji Lalan College, Bhuj (Kutch); Mahila Mahavidyalaya, Porbandar; The Jayendrapuri Arts and Science College, Broach; Harivallabhdas Kalidas Arts College, Ashram Road, Ahmedabad 9; The Shreyas Arts and Science College, Shahibag, Ahmedabad 4; The St. Xavier's College, Ellis Bridge, Ahmedabad 6; The A. M. Parekh Law College, Rajkot; The M. P. Shah Medical College, Jamnagar; The Ramba Graduate Teachers' College, Porbundar; The Balabhai Damodardas College, Sankdi Sheri, Ahmedabad 1; Swaminarayan Arts & Science College, Gita Mandir Road, Ahmedabad; The D. K. V. Arts and Science College, Jamnagar; The M. P. Shah Arts and Science College, Surendranagar; Sheth H. A. College of Commerce, Ellis Bridge, Ahmedabad 6; The Prakash Arts College, Relief Road, Ahmedabad; G. Ayurveda Mahavidyalaya, Jamnagar; The P. D. Malaviya College of Commerce, Rajkot; Shri Nutan Kelavani Mandal Arts and Science College, Bulsar; Arts College, Dabhoi (Dt. Baroda); City Law College, Lal Darwaja, Ahmedabad; O. H. Nazar Ayurveda Mahavidyalaya, Surat; Patan Arts & Science College, Patan, N.G.; Navyug Arts & Commerce College, Porbandar; M. S. Bhagat and C. S. Sonawala Law College, Nadiad; Shri I. V. Patel College of Commerce, Nadiad (Dist. Kaira); Shri Rajni Parekh Arts College, Cambay; Shri Sharda Peeth Arts College, Dwarka (Saurashtra); Shri H. H. Mahendrasinhji Science College and Umiyashankar N. Mehta Arts College, Morvi (Saurashtra); Shri Somanath Arts College, Veraval (Saurashtra); Sir Purushottamdas Thakurdas Science College and Somalal Kasturchand Shri Krishna Om Arts College, Modasa; Lallubhai Hakamchand Science and Sankalchand Damodardas Arts Intermediate College, Mansa (N.G.); Shri Umedram Panchal Arts College and Sarvodaya Science College, Pilvai (N.G.); Seth Purushottamdas Thakurdas Arts and Science College, Godhra; Sardar Vallabhbhai Arts and Commerce College, Salapose Road, Ahmedabad-1; Agriculture College, Sardarbag, Junagadh (Saurashtra).

Recognised Institutions :—Sheth Bholabhai Jeshingbhai Institute of Learning and Research, Bhadra, Ahmedabad; The Physical Research Laboratory, Navrangpura, Ahmedabad 9; Shri Kanaiyalal Motilal School of Post-Graduate Medicine and Research, Ellis Bridge, Ahmedabad 6. The Ahmedabad Textile Industry's Research Association, Navrangpura, Ahmedabad 9; The B. M. Institute of Psychology and Child Development, Ellis Bridge, Ahmedabad 6.

University Department :—University School of Social Sciences, Navrangpura, Ahmedabad-9; University School of Gujarati Language and Literature, Navrangpura, Ahmedabad-9; University School of Psychology, Philosophy and Education, Navrangpura, Ahmedabad-9; University School of Science, Navrangpura, Ahmedabad-9.

The Senate ordinarily meets once a year on a date fixed by the Chancellor and at such other times, as may be convened by the Vice-Chancellor. A meeting of the Senate must also be convened on a requisition by twenty-five members of the Senate.

There are eight Faculties, *viz.*, Arts including Education, Science, Technology including Engineering, Agriculture, Law, Medicine, Commerce and Ayurvedic Medicine. The executive powers vest in the Syndicate and the Academic Council is the chief Academic body of the University.

Ordinarily the period of the tenure of office of members of the Senate is five years, and that of the members of the Syndicate and the Academic Council is three years.

Chancellor.—Mehdi Nawaz Jung.

Vice-Chancellor.—Lalbhai Ratanji Desai, B.A., B.T. (Bom.), T.D. (Lond.).

Registrar.—K. C. Parikh, M.A., LL.B.

Dy. Registrar : J. M. Mehta, B.Sc., B.T.

Asstt. Registrar : S. P. Medh, B.A., LL.B.

Librarian.—K. R. Desai.

Accountant.—B. M. Patel, B.Com., F.C.A.

Chief Medical Officer.—K. A. Shah, M.B.B.S.

Director of Physical Education.—V. P. Mehta, B.Sc., Dip. Phy. Ed.

Director, University School of Social Sciences.—B. R. Shenoy, M.A. (Banaras), M.Sc. (Econ.) (Lond.).

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Director, University School of Gujarati Language and Literature.—Umashanker J. Joshi, M.A.

Director, University School of Philosophy and Psychology.—Dr. P. H. Prabhu, B.A. (Hons.), LL.B., Ph.D., F.A. (Psy.), A. (U.S.A.).

Deans.—Prin. K. L. Desai, M.A., LL.B., B.A. (Cantab.), *Faculty of Arts including Education;* Dr. Y. G. Naik, M.Sc., Ph.D., *Faculty of Science;* Prin. S. K. Katrak, A.M., A.S.C.E. (U.S.A.), B.E. (C) M.S. (Illinois), *Faculty of Technology including Engineering;* H. S. Sanghvi, M.A., LL.B., *Faculty of Law;* Dr. M. J. Shah, M.R.C.P. (Lond.), D.T.M. & H. (Lond.), *Faculty of Medicine;* Prin. S. C. Pathak, M.Com., *Faculty of Commerce;* V. V. Vaidya, *Faculty of Ayurvedic Medicine;* Y. T. Desai, *Faculty of Agriculture.*

SENATE

Ex-Officio Members

Chancellor: Mehdi Nawaz Jung; *Vice-Chancellor:* Prin. Lalbhai Ratanji Desai, B.A., B.T. (Bom.), T.D. (London); *Ex-Vice-Chancellors:* Harsiddhabhai Vajubhai Divatia, M.A., LL.B.; Maganbhai Prabhudas Desai; *Registrar:* Kanchanlal Chandulal Parikh, M.A., LL.B.; *Chief Justice:* Hon'ble Chief Justice Shri Sunderlal T. Desai; *Minister for Education:* Hitendra Kanaiyalal Desai, B.A., LL.B.; *Vice-Chancellors of the State Universities:* Dr. Jyotindra Markandray Mehta, M.A. (Oxon.), Ph.D. (Lond.), Bar-at-Law, Vice-Chancellor, The M. S. University of Baroda; Babubhai Jashbhai Patel, B.A., LL.B., Vice-Chancellor, Sardar Vallabhabhai Vidyapith, Vallabh Vidyanagar; *Director of Education:* Madho Das Rajpal; *Director of Technical Education:* Thakorlal Ambelal Desai, B.Sc.; *Director of Medical Services:* Dr. Mangaldas Jagjivandas Shah, M.R.C.P. (Lond.), D.T.M. & H. (Lond.); *Director of Agriculture, Ahmedabad 9:* Dr. Maganbhai D. Patel, M.Sc. (Cornell), Ph.D. (Wisconsin); *Director of Industries:* Chunibhai Bhikhabhai Patel, M.Sc., M.S. (U.S.A.), Ph.D. (Liverpool); *Chief Engineer:* Upendra J. Bhatt; *Chief Conservator of Forests, Baroda:* Hari Singh, B.Sc.; *Vice-Chancellor of the Gujarat Vidyapeeth:* Morarji Ranchhodji Desai, B.A.

Heads of University Departments.—Prof. B. R. Shenoy, M.A. (Banaras), M.Sc. (Econ.) (Lond.) (*Director, University School of Social Sciences*).

Prof. Umashanker J. Joshi, M.A. (*Director, University School of Gujarati Language and Literature*).

Dr. P. H. Prabhu, B.A. (Hons.), LL.B., Ph.D., F.A. (Psy.), A. (U.S.A.) (*Director, University School of Philosophy and Psychology*).

The Principals of affiliated colleges are also ex-officio. For the list of affiliated colleges, see above.

Heads of Recognised Institutions.—R. C. Parikh, B.A. (Hons.); Dr. K. R. Ramanathan, M.A., D.Sc., F.N.I.; Dr. M. D. Desai, M.S., F.R.C.S., M.Ch. (Orth.); Dr. T. S. Subramaniam, D.Sc.; Dr. Bimalendu Gupta.

Class II—Ordinary Members.—(*a*) (*i*) *Elected by Secondary Teachers of High Schools* (4), B. N. Chaudhari, B.Sc., B.T.; R. M. Dave, B.A. (Hons.), S.T.C., B.T.; J. D. Desai, B.Sc., B.T.; G. B. Oza, B.A., S.T.C.; D. M. Shah, B.A., LL.B., B.T.; (*ii*) *Elected by Headmasters of High Schools* (3), C. C. Shah, M.A., B.T., LL.B.; C. K. Patel, Bhasha Visharad; T. S. Thakore, B.A., B.Sc.; (*iii*) *Elected by teachers in the Faculty of Arts including Education* (6), J. J. Desai, M.A.; K. C. Mehta, M.A.; C. R. Naik, M.A., B.T., Ph.D.; C. L. Shastri, M.A.; R. M. Shukla, M.A.; N. P. Vyas, M.A.; (*b*) *Elected by teachers in the Faculty of Science* (6), Dr. Chhotubhai M. Desai, B.Sc., Ph.D.; Dr. Ashvinkumar M. Trivedi, M.Sc. (Bom.), Ph.D. (Edin.); Vasudev A. Vyas, M.Sc.; K. R. Dave, M.Sc.; N. J. Patel, M.Sc.; N. M. Shah, M.Sc., Ph.D.; (*c*) *Elected by teachers in the Faculty of Technology including Engineering* (4), G. J. Kulkarni, B.E. (Civil), A.M.I.C.E. (Lond.), M.I. (Struct.) E. (L.), A.M.A.S.C.E. (U.S.A.), A.M.I.E. (India); Dr. B. R. Seju, M.Sc., Ph.D.; H. S. Jain, B.Sc. (Eng.), A.M.I.E. (Ind.); I. A. Mehta, B.Sc., B.E. (Mech.), B.E. (Elec.), A.M.I.E. (Ind.); (*d*) *Elected by teachers in the Faculty of Agriculture* (2), Vacant; Vacant; (*e*) *Elected by teachers in the Faculty of Law* (2), D. C. Trivedi, B.A., LL.B.; K. D. Desai, B.A., LL.B.; (*f*) *Elected by teachers in the Faculty of Medicine* (4), Dr. H. S. Khandheria, M.B.B.S. (Bom.), M.D. (Bom.), M.R.C.P. (Lond.); Dr. H. H. Shah, M.B.B.S., M.D., M.Sc. (Med.), F.C.P.S., D.P.B.; Dr. N. C. Shah, M.B.B.S., F.R.C.S.; Dr. P. L. Shah, M.B.B.S., M.S. (Bom.), D.G.; (*g*) *Elected by teachers in the Faculty of Commerce* (2), G. R. Desai, M.A.; K. M. Talati, M.A.; *Elected by teachers in the Faculty of Ayurvedic Medicine* (2), Dr. M. G. Patel, M.B.B.S.; Vacant; *Elected by Municipal School Boards of Authorised Municipalities* (2), C. C. Desai; B. N. Brahmbhatt; *Elected by District School Boards* (4), Smt. Hemlata R. Desai; D. R. Mankad; A. A. Nagori, B.E. (Civil); S. G. Patel; *Municipal Corporation* (1), K. T. Desai, B.A.; *Legislative Assembly* (5), R. T. Maniar, B.A. (Hons.), LL.B.; J. G. Vaidya, B.A., LL.B.; Smt. Pushpavati J. Mehta, M.A.; D. B. Parmar, B.A.; L. M. Patel, B.A., LL.B.; *Elected by the Ahmedabad Millowners' Association* (1), Navnitlal S. Shodhan; *Elected by the Registered Trade Unions* (2), N. A. Shah, B.A. (Hons.); M. T. Shukla, M.A., B.T.; *Elected by the Registered Graduates*—(*i*) *Under the Faculty of Arts including Education* (4), B. M. Navalakha, B.A., LL.B.; C. P. Patel, B.A., LL.B.; R. B. Shah, B.A., LL.B.; J. R. Desai; (*ii*) *Under the Faculty of Science* (2), H. N. Vyas, B.Sc., LL.B.; Ranjit G. Shastri, B.Sc.; (*iii*) *Under the Faculty of Technology including Engineering* (2), N. N. Dalal, B.E. (Civil); G. S. Desai, B.E. (Civil), M.I.E. (Ind.), M.I.S. (Ind.); (*iv*) *Under the Faculty of Agriculture* (2), D. J. Jhala, M.Sc. (Agri.); A. K. Jhaveri, B.Sc. (Agri.); (*v*) *Under the Faculty of Law* (2), Batubhai H. Desai, B.A., LL.B.; I. M. Nanavati, B.Com., LL.B.; (*vi*) *Under the Faculty of Medicine* (2), S. C. Kusumgar, M.R.C.P. (Lond.); Dr. Jitendra J. Desai, M.B.B.S.; (*vii*) *Under the Faculty of Commerce* (2), C. N. Shah, B.Com.; Hariprasad V. Vasa, B.Com., LL.B., A.C.A.; *Under the Faculty of Ayurvedic Medicine* (2), S. B. Pandya, A.V.V.; C. R. Patel, A.V.V., L.M. (Dublin); *Elected by Donors* (5), B. K. Muzumdar, M.A., B.Com. (Lond.); Indradaman Amritlal; N. H. Sheth; Arvindbhai N. Sheth, B.Sc. (Bom.); Shrenikbhai K. Sheth, B.S. (M.I.T.), (U.S.A.), M.B.A. (Harvard).

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BUDGET—1960-61

Income : Rs. 37·57 lakhs (Recurring).
Rs. 11·30 lakhs (Non-recurring).

Expenditure : Rs. 39·23 lakhs (Recurring).
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THE AHMEDABAD PAPER MERCHANTS' ASSOCIATION

995, Khadia, Char Rasta, Ahmedabad.

President : Premchand Gokaldas ; *Vice-President :* Maneklal Chhotalal ; *Hon. Secretaries :* Bansilal Hiralal, Manharlal Ochhavlal.

AHMEDABAD PIPE MERCHANTS' ASSOCIATION

675, Chinubhai Building, Sakar Bazar, Cross Lane, Ahmedabad.

President : Chhotabhai K. Shah ; *Hon. Secretary :* Hasmukhlal Maneklal ; *Joint Hon. Secretary :* Gordhandas Somabhai Patel.

AHMEDABAD PRINTING PRESS ASSOCIATION

C/o Kumar Karyalaya Ltd., 1454, Raipur, Ahmedabad 1.

President : Bachubhai P. Ravat ; *Vice-President :* M. M. Purohit ; *Hon. Secretaries :* M. D. Patel and M. C. Shah.

AHMEDABAD RADIO MERCHANTS' ASSOCIATION

C/o H. D. Trivedi & Co., Gandhi Road, Ahmedabad.

President : J. Pasavala ; *Vice-President :* J. L. Kharidia ; *Secretary :* S. C. Chinai.

AHMEDABAD SANITARYWARE MERCHANTS' ASSOCIATION

Prajapati Bldg., Khadia Char Rasta, Ahmedabad.

President : Harilal Mohanlal Shah ; *Vice-President :* Mahendrabhai P. Fadia ; *Secretaries :* Kantilal A. Shah, Jethand P. Matreja.

AHMEDABAD SEEDS MERCHANTS' ASSOCIATION LTD.

Bank of Baroda Bldg., 3rd floor, Mahatma Gandhi Road, Ahmedabad 1.

President : Dahyabhai Bhaisanker Jain ; *Vice-President :* Sheth Nanalal Mohanlal ; *Secretary :* B. M. Sheth.

THE AHMEDABAD SHARE & STOCK BROKERS' ASSOCIATION

Manekchowk, Ahmedabad.

President : Ratilal Nathalal Sharedalal ; *Vice-President :* Amratlal Dalsukhbhai Haji ; *Hon. Treasurer :* Chinubhai Bhogilal Parikh; *Secretary :* Dwarkadas Mohanlal Akruwala.

AHMEDABAD SMALL SCALE NON-FERROUS METAL INDUSTRIES ASSOCIATION

595/12, Kansara Dehla, Railwaypura, Ahmedabad 2.

President : Vrajlal Manilal Soni ; *Secretaries :* Mohanlal Ramjeebha Buch, Jivanlal Govindlal.

AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION

Navrangpura, Ahmedabad 9.

Tel. No. : 7651-7652. 'Grams : "ATIRA".

Registration : 1947. Inauguration : 1954. Establishment of a Regional Centre at Indore : 1956. Membership : 93 textile mills and allied industrial concerns in Gujarat, Madhya Pradesh and North India.

Aims and Objects : 1. Research for improved materials, technology and human relations in industry. 2. Dissemination of scientific knowledge and consultation to member mills to solve day-to-day operational problems. 3. Training for specialised jobs such as laboratory-in-charges, quality control officers, supervisory and operative training officers, etc. Guidance to research students for post-graduate degrees of Gujarat University.

Management : Council of Administration : Kasturbhai Lalbhai (*Chairman*) ; *Members :* Representatives of the managements of member mills, the Government of India, Scientists and ATIRA Director.

Director : Dr. T. S. Subramanian, Ph.D., D.Sc., F.A.Sc.

Staff : Technical Officers : 31. Technical Assistants : 87. Administrative & Services Officers : 3. Administrative & Services Assistants : 90.

AHMEDABAD TIMBER MERCHANTS' ASSOCIATION

Sahakari Lati Bazar, Jagannathji Road, Ahmedabad 1.

President : Dasharathlal Chibhai Sheth ; *Vice-President :* Ishvarlal Ramdas Patel ; *Hon. Secy. :* Krishnachandra Balmukund Nagori.

THE AHMEDABAD TOBACCO MERCHANTS' ASSOCIATION

Hathipura, Ahmedabad.

President : Manilal Dharamchand Shah ; *Vice-President :* Pursottamdas Bhogilal Patel ; *Hon. Secretary :* Shantilal Mahijibhai Patel.

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THE AHMEDABAD WHOLESALE CATTLEFOOD MERCHANTS ASSOCIATION

Chokha Bazar, Kalupur, Ahmedabad No. 2.

AHMEDABAD WHOLESALE CHARCOAL MERCHANTS' ASSOCIATION

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AHMEDABAD WHOLESALE HOSIERY MERCHANTS' ASSOCIATION

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President : Narotamdas Mohanlal Shah ; *Secretary :* Nagindas Sukhlal Shah.

AHMEDABAD YARN MERCHANTS ASSOCIATION

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President : Sheth Somchand Sankalchand Shah ; *Vice-President :* Sheth Chandulal Pitamberdas Shah ; *Hon. Secretaries :* Sheth Biharilal Chimanlal Shah, Ramniklal Hiralal Parikh.

THE ALL INDIA PICKER & TEXTILE LEATHER MANUFACTURERS' ASSOCIATION

Post Box No. 156, Ahmedabad.

President : D. C. Karaka of Pickers Ltd. ; *Hon. Secretary & Treasurer :* I. M. Mansuri, B.A. of Graduate Picker Works.

BAKUBHAI MANSUKHBHAI INSTITUTE OF PSYCHOLOGY AND CHILD DEVELOPMENT

Ellis Bridge, Ahmedabad 6.

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THE BHARAT SADHU SAMAJ

Ellis Bridge, Sanyas Ashram, Ahmedabad 6.

President : Swami Krishnanandji Maharaj ; *Secretary :* Swami Atulanandji Maharaj ; *Jt. Secretary :* Swami Manuvaryaji Maharaj.

BLIND MEN'S ASSOCIATION

Maganbhai Kandra, Kamashawar's Pole, Raipur, Ahmedabad.

President : Chandubhai Satia ; *Secretaries :* Jagadish Patel, Arvindbhai Sheth, M. Sheth.

BRICK MERCHANTS' ASSOCIATION

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President : Jagannath Laloobhai Dalwadi ; *Secretary :* Naranbhai Dalwadi.

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CLOTH RETAILERS FEDERATION
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DARPANA
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President : K. M. Kantawala ; *Vice-President :* S. M. Mehta ; *Secretary :* J. P. Vora.

GUJARAT METAL INDUSTRIES ASSOCIATION
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President : B. N. Kansara ; *Hon. Secretaries :* M. H. Kansara, H. B. Shah, C. V. Bhuta.

GUJARAT VEPARI MAHAMANDAL
(Gujarat Chamber of Commerce)
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President : Jaykrishna Harivallabhdas ; *Vice-President :* Sarabhai Chhotalal Kashiparekh ; *Hon. Secretary :* Hiralal Harilal Bhagvati ; *Secretary :* L. V. Dani.

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C/o Coronation Soap Works, Jeshinghbhai's Wadi, Gheekanta Road, Ahmedabad.

PANCHKUVA CLOTH MERCHANTS' ASSOCIATION
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President : Anubhai Chimanlal Shah ; *Vice-President :* Lalbhai Girdharilal Shah ; *Hon. Secretary :* Chandulal Jamnadas Shah ; *Hon. Jt. Secretary :* Mansukhlal Maganlal Shah.

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THE RETAIL CLOTH MERCHANTS' ASSOCIATION
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President : Nareshchandra M. Shah ; *Secretary :* Maneklal V. Shah.

SANGIT NIVEDAK MANDAL
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WESTERN INDIA AUTOMOBILE ASSOCIATION
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OTHER ASSOCIATIONS

Ahmedabad Booksellers' Association, Gandhi Road, Ahmedabad.
Ahmedabad Building Materials Suppliers' Association, Kadia Naka, Dariapur, Ahmedabad.
Ahmedabad Commercial Association, Chokha Bazar, Ahmedabad.
Ahmedabad Cotton Brokers' Association, Richey Road, Ahmedabad.
Ahmedabad Cotton Mahajan, Sakar Bazar, Ahmedabad 2.
Ahmedabad Cotton Merchants' Association, Manek Chowk, Ahmedabad.
Ahmedabad Chamber of Commerce, Old Nagarseth Market, Ratanpole, Ahmedabad.
Ahmedabad Factory Owners' Association, Gheekanta Road, Ahmedabad.
Ahmedabad Ghee and Oil Brokers' Association, Narottamdas Bldg., Kapasia Bazar, Ahmedabad 2.
Ahmedabad Grain Merchants' Association, Chokha Bazar, Railwaypura, Ahmedabad 2.
Ahmedabad Gramophone Dealers' Association, Gandhi Road, Ahmedabad.
Ahmedabad Glass & Frame Merchants' Association, Gandhi Road, Ahmedabad.
Ahmedabad Hand-Printers' Association, Rangali Cloth Bazar, Astodia, Ahmedabad 2.
Ahmedabad Hessian Association, Arenda Hall, Kapasia Bazar, Ahmedabad 2.
Ahmedabad New Madhavpura Mahajan, Madhavpura, Ahmedabad.
Ahmedabad New Rangati Kapad Mahajan, Rangati Kapad Bazar, Astodia, Ahmedabad.
Ahmedabad Pan Merchants' Association, Opp. Vegetable Market, Manek Chowk, Ahmedabad.
Ahmedabad Printing & Dyeing Association, New Cotton Mill No. 1 Compound, Outside Raipur Gate, Ahmedabad.
Ahmedabad Shroff Mahajan, Manek Chowk, Opp. Share Bazar, Ahmedabad.
Ahmedabad Soap Manufacturers' Association, Jeshingbhai Wadi, Gheekanta Road, Ahmedabad.
Ahmedabad Thread Manufacturers' Association, Sakar Bazar, Ahmedabad.
Ahmedabad Tea Merchants' Association, Chokha Bazar, Kalupur, Ahmedabad.
Ahmedabad Trunk & Buckets Factory Owners' Association, 710, Revdi Bazar, Ahmedabad.
Ahmedabad Utensils Merchants' Association, Kansara Dehla, Railwaypura, Ahmedabad.
All India Institute of Homeopath, 25, Shantisadan Society, Ahmedabad.
Gujarat Cotton Brokers' Association, Manek Chowk, Ahmedabad.
Ratanpol & Richey Road Gold & Silver Jewellery Ornament Merchants' Association, C/o Royal Jewellery Mart, Gandhi Road, Ahmedabad.
Sona Chandi & Jewellery Merchants' Mahajan, Gandhi Road, Ahmedabad.
Textile Leather Manufacturers' Association, Post Box 156, Ahmedabad.

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Textile Division: (Calico Mills, Jubilee Mills, Kalol Mills Private Ltd.) Manufacturers of Organdie, Printed Voiles and Dress Materials, Sarees, Dhotis, Lawn, Handkerchiefs, Lenos, Shirtings, Poplins labelled "Sanforized", Mosquito Netting, Blankets, Longcloth, Drills, Grey cloth calendered and uncalendered, Sewing threads, Turkish towels etc.

Chemical Division: (1) Chemical Division, Ahmedabad, (2) Chemical Division, Anik Chembur, Bombay 71. Manufacturers of Caustic Soda, Liquid Chlorine, Calcium and Sodium Hypochlorites, Hydrochloric Acid, Calcium Carbide, PVC Moulding Powders, Sheets, Rods, Tubes, etc.

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Ahmedabad Chemical Co., C/o Gokaldas & Sons, Bala Hanuman, Ahmedabad.

Ahmedabad Chrome Tanning Co., Peermohamedshah Road, Ahmedabad.

Ahmedabad Colour Company, Rang Bazar, Astodia Road, Ahmedabad.

Ahmedabad Cycle & Motor Trading Co. P. Ltd., Gandhi Road, Char Rasta, Ahmedabad 1.

Ahmedabad Electricity Company, Ltd., Electricity House, Lal Darwaja, Post Box No. 37, Ahmedabad 1.

Ahmedabad Ice & Cold Storage P. Ltd., 42, Parmal Society, Ellis Bridge, Ahmedabad 6.

Ahmedabad Manufacturing & Calico Printing Co. Ltd., The, Post Box Nos. 12 and 173, Ahmedabad.

Ahmedabad Pressing, Ginning and Manufacturing Co., Naroda Road, Ahmedabad.

Ahmedabad Star Engineering Works P. Ltd., 1730, Haribhai Dehla, Outside Prem Darwaja, Ahmedabad 1.

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Alliance Stores Trading Co., Ltd., Station Road, Ahmedabad.

American Oil Trading Company, The, Revdi Bazar, Ahmedabad 2.

Amratlal Bhalabhai & Co., Danapith, Kalupur, Ahmedabad 2.

Amrutlal Karsandas & Co., Near Idgah Gate, Ahmedabad.

Anil P. Ltd., Manekchowk, Ahmedabad.

Anil Starch Products Ltd., Anil Road, Railwaypura P.O., Ahmedabad 2.

A. Ratilal Nathalal & Co., 635, Companywala Market, Kapasia Bazar, Ahmedabad 2.

Aruna Traders, Vora's Bldg., Kapasia Bazar, Ahmedabad 2.

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Bhogilal & Co., 673-7, Cross Lane, Ahmedabad.

Bhogilal Trikamlal & Co., Sakar Bazar, Latif's Dehla, Ahmedabad 2.

Bhow & Co., S. P., Jumma Masjid, Pankore Naka, Ahmedabad.

Bhulabhai Narandas & Co., Danapith Lat, Kalupur, Ahmedabad 2.

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Bitex Corporation, 2088, Nagaji Bhuder's Pole, Mandvi's St., Ahmedabad.

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B. M. Shah & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.

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Central Trading Corpn., Vora's Bldg., Kapasia Bazar, Ahmedabad 2.

Champaklal & Co., Kapasia Bazar, Ahmedabad 2.

Chandabhai Bros. & Co., Post Box No. 34, Ahmedabad 1.

Chandrakant & Co., Kasumbawad, Doshiwada's Pole, Ahmedabad.

Chaturbhai Valsibhai & Co., Kalupur, Baluchawad, Khojas Haveli, Ahmedabad.

Chhotalal Balabhai & Brothers, Narottam Building, Kapasia Bazar, Ahmedabad.

Chhotalal Jamnadas & Co., opp. Swaminarayan Temple, Ahmedabad.

Chhotalal Balubhai & Bros., Kapasia Bazar, Ahmedabad 2.

Chhotalal Nagindas & Co., 1209/1, Chokhavatini Pole, Dhanasutar's Pole, Ahmedabad.

Chimanlal Chhotalal & Co., near Fernandez Bridge, Kalupur Road, Ahmedabad.

Chimanlal Kalidas Shah & Co., Rang Bazar, Astodia Road, Ahmedabad.

Chinubhai Manubhai & Co., Maskati Market, Ahmedabad.

Chinubhai Naranbhai & Co. Ltd., Rakhial Road, Railwaypura, Ahmedabad.

Chokshi & Co., H., Kapasia Bazar, Ahmedabad.

Chudgar & Co., 21, Shantinagar Society, Vadaj Road, Ahmedabad.

Chunilal Kalidas & Co., Kansara Dela, Railwaypura P.O., Ahmedabad 2.

Cimco Traders, 1027, Totalajini Pole, Raja Mehta's Pole, Ahmedabad 1.

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C. Lakshmichand & Co., Revdi Bazar, Ahmedabad.

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Continental Trading Syndicate, 649-1, Kapasia Bazar, Ahmedabad.

C. S. Thacker & Co., Near Khadia Char Rasta, Gandhi Road, Ahmedabad.

C. S. Vohra & Co., Paint Merchants, 1171, Pankore Naka, Ahmedabad 1.

C. Vadilal & Co., Reid Road, Ahmedabad.

Dahyabhai & Co., Rang Bazar, Astodia Road, Ahmedabad.

Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad 2.

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Dinubhai G. Desai & Co., Motlibai Road, Madhav Baug, Ahmedabad.

Dominant Textile and Industrial Co., 790, Ramji Mandir's Pole, Patel's Pole, Ahmedabad 1.

D. Prajapati & Co., Near Tarkas Building, Relief Road, Ahmedabad.

Dye Stuffs & Chemicals P. Ltd., Reid Road, Ahmedabad 2.

E. A. Latif & Son, Revdi Bazar, Latif Building, Ahmedabad

Eagle Traders, Tilak Road, Ahmedabad.

East & West Trading Co., Kapasia Bazar, Ahmedabad 2.

Eastern Hardware & Mill Stores Co., Reid Road, Ahmedabad.

Eastern Iron & Steel Traders, Relief Road, Ahmedabad.

Eastern Traders, Kapasia Bazar, Ahmedabad 2.

Eastern Trading Agency, Achratlal Haridas Building, Kapasia Bazar, Ahmedabad, 2.

Electric Control Gear Mfg. Co., New Cotton Mill Compound No. 1, Kankaria Road, Ahmedabad.

EMBEE COMMERCIAL CORPN., Jivan Nivas, Opp. Madhav Baug, Ahmedabad; Manufacturers of Industrial Trollies, Trucks & Trailors, Humidification Air Ducts, Over-head Mono-rails, Light Railway Materials.

Everest Traders, Kapasia Bazar, Ahmedabad 2.

Express Traders P. Ltd., Vora's Bldg., Kapasia Bazar, Ahmedabad 2.

Firestone Tyre & Rubber Co., of India P. Ltd., P. O. Box 272, Ahmedabad.

Forge Blower & Co., Naroda Road, Ahmedabad.

Fozdar & Co., N. M., opp. Fuvara, Gandhi Road, Ahmedabad.

Fulchand Chhaganlal & Co., Gujrat Cotton Hall, Manek Chowk, Ahmedabad.

Gajjar Industries, Near Potalia Talav, Saraspur, Ahmedabad.

G. A. Hawkabaj & Co., Astodia Road, Rang Bazar, Ahmedabad.

Ganjwala & Co., Tayeb Bldg., near Zakaria Masjid, Relief Road, Ahmedabad.

Gannon Dunkerley & Co., Ltd., Railwaypura Post, Ahmedabad.

General Commercial Agency, The, Cross Lane, Railwaypura Post, Ahmedabad 2.

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GENERAL ELECTRIC CO. OF INDIA PRIVATE LTD., THE, Magnet House, Tilak Road, P.O. Box No. 224, Ahmedabad. Phone : 3317, Grams : "KILOWATT". Resident Representative : E. J. Fern.

General Trading Co., Khodi Ambli, Near Chhipa Pole, Ahmedabad.

Girdharilal Damoderdas Ltd., 691, Reid Road, Railwaypura Post, Ahmedabad.

Girdharlal, C. & Co., 483, Revdi Bazar, Ahmedabad.

Gokaldas & Sons, Balahanuman, Kaveshwar's Pole, Ahmedabad.

Gopaldas and Sons, Bala Hanuman Kavishwar's Pole, Ahmedabad.

Gopaldas Khemchand & Sons (Tijoriwala), Outside Delhi Gate, Ahmedabad.

Gopaldas Rajendraprasad & Co., Sir Chinubhai Building, Revdi Bazar, Cross Lane, Ahmedabad.

Gordhandas Chatrabhuj & Co., Cross Lane, Chinubhai Building, Ahmedabad.

GREAVES COTTON & CO., LTD., Vishnu Bhuvan, Relief Road, Kadia Kui, Ahmedabad.

Gujarat Corporation (India) Ltd., Harisadan, Char Rasta, Ahmedabad.

Gujarat Electric Co. P. Ltd., Opp. Mahavir Jain's Temple, Gandhi Road, Ahmedabad.

GUJARAT PAPER MILLS LTD., 653, Sakar Bazar, Ahmedabad 2. Manufacturers of Papers & Boards.

Gujarat Pencil Co., Saraspur, Ahmedabad 2.

Gujarat Roadway Carriers, Reid Road, Ahmedabad 2.

Gujarat Textile Co. P. Ltd., Manekchowk, Ahmedabad.

Gujarat Trading Co., Chhipa Pole, Ahmedabad.

Gujarat Wood Works P. Ltd., Astodia, Lali Kagadapith, Ahmedabad.

Gujrat Automobiles, Motilal Hirabhai Market, Ahmedabad.

Gujrat Electric Co., The, Richey Road, Ahmedabad.

Gujrat Oil Mills and Manufacturing Co., Ltd., Asarva, Ahmedabad 11.

Gujrat Transport Services Ltd., Raikhad, Ahmedabad.

Gulf of India P. Ltd., Opp. Relief Cinema, Co-operative Bldg., Relief Road, Ahmedabad.

Haji Mahamad Yusuf & Co., Jamalpur, Kaji's Dhaba, Moti Vahorwad, Ahmedabad.

H. Mansuri & Sons, Post Box 84, Ahmedabad 1.

Hansraj Ratanlal & Co., Rangwala Market, Ahmedabad.

Harilal Brothers, 656-4-4, Patel Market, Kapasia Bazar, Ahmedabad.

Harivallabhdas Kalidas P. Ltd., Sakar Bazar, Ahmedabad.

Harry Eng. Corpn., Danapith, Ahmedabad.

Harsadrai Trivedi & Co., Astodia Road, Rang Bazar, Ahmedabad.

Hasmukhlal Jayantilal & Co., New Vasan Market, Manak Chowk, Ahmedabad.

Hathising Manufacturing Co., Ltd., Saraspur Road, Ahmedabad.

H. Bansidhar & Co., Railwaypura Post, Kapasia Bazar, Ahmedabad.

H. Chokshi & Co., Kapasia Bazar, Ahmedabad.

H. H. Corporation, Lakhia Bldg., Panch Kuva, Ahmedabad.

Hides & Leather Products Ltd., Reid Road, Ahmedabad 2.

Himabhai Manufacturing Co., Ltd., Saraspur, Ahmedabad.

Hind Sewing Machine Works, opp. Vijay Mills, Naroda Road, Ahmedabad.

Hiralal B. Trivedi & Co., Gandhi Road, Ahmedabad.

Hiralal Panchal & Co., Lunsawada, Golwad, Ahmedabad.

H. K. (Investment) Co. P. Ltd., Shri Ambica Mills Premises, Ahmedabad 8.

HUTHEESING ENGINEERING CO., Electrical Merchants and General Importers, Lal Darwaja, Ahmedabad.

Ideal Motors Ltd., Lal Darwaja, Ahmedabad.

Imperial Chemical Industries (India) Ltd., Dyes Dept., Girdharlal's Mangaldas Bungalow, Lal Darwaja, Ahmedabad.

Imperial Tobacco Co. of India Ltd., North End Hotel, Shahibaug, Ahmedabad 4.

Imperial Trading Co., Kapasia Bazar, Ahmedabad 2.

Indequip P. Ltd., Reid Road, Ahmedabad.

India Starch Trading Co., Mill Gin Stores Merchants, opp. Madhu Bag, Ahmedabad 2.

India Trading Corpn., Dhanlaxmi Market, Cross Lane, Ahmedabad.

Indian Bobbin Mfg. Co., Dahyabhai Colony, Anil Road, Ahmedabad 2.

Indian Cable Co. Ltd., Gandhi Road, Ahmedabad.

Indian Ginning & Pressing Co. P. Ltd., Naroda Road, Ahmedabad 2.

Indian Oxygen Ltd., Rakhial Road, Ahmedabad.

Indo Belga Engineering Co. Ltd., Dudheshwar Road, Ahmedabad.

Indo-British Chemical Co., Astodia Chakla, Ahmedabad.

Indo-Swiss Textile Machinery Mfg. Co., C/o Ideal Motors Ltd., Lal Darwaja, Ahmedabad.

INDUSTRIAL HIRE PURCHASE CORPORATION PRIVATE LTD., Opp. Krishna Cinema, Anand Bhuvan, Relief Road, Ahmedabad; Financiers, Merchants & Agents.

Industrial Machinery Mfrs. P. Ltd., Ahmedabad 8.

Industrial Spare Parts Co., Relief Road, Ahmedabad.

Industro (India), 706/2, Gandhi Road, Ahmedabad.

International Electrical Equipment Co., Reid Road, Ahmedabad.

International Textile Corporation, 696, Reid Road, Ahmedabad 2.

International Traders P. Ltd., Narottam Bldg., Kapasia Bazar, Ahmedabad.

International Trading Co., Station Road, Ahmedabad.

Interseas Trading Co., Patdi State Bldg., Panchkuva, Ahmedabad.

Jagdish Straw Products, Ltd., outside Jamalpur, Ahmedabad.

Jaihind Leather Industries Ltd., Reid Road, Ahmedabad.

Jaishree Traders P. Ltd., Hathika, Opp. Bagich, Rakhial Road, Ahmedabad 10.

Jashvantlal & Co., Manek Chowk, opp. Vegetable Market, Ahmedabad.

Jayant Rasiwalla P. Ltd., Outside Prem Darwaja, Gujarat Ginning Mills Compound, Ahmedabad 11.

Jayantilal Ambalal & Co., 675/29, Sir Chinubhai Bldg., Revdi Bazar, Ahmedabad 2.

Jayantilal Pranlal & Co., Karna Mukteshwar Mahadev, Outside Sarangpur Gate, Ahmedabad.

Jayantilal Ratilal & Co., Dariapur, Lunsawada, Khadia Naka, Ahmedabad.

Jayems Engineering Co., Lal Darwaja, Ahmedabad.

J. Bhagat & Co., Deepak Chambers, Cross Lane, Ahmedabad 2.

J. C. Engineer & Co., 27, Shrimali Society, Ellis Bridge, Ahmedabad.

Jehangir Brothers, opp. Railway Station, Ahmedabad.

J. F. Patel & Co., Reid Road, Ahmedabad.

Jitendra & Co., Relief Road Naka, Ahmedabad.

J. Mahendra & Co., 662, Kapasia Bazar, Ahmedabad 2.

J. Nanavati & Co., 626/32, Kapasia Bazar, Ahmedabad 2.

Jones Textilaties Export Co., Ltd., Kapasia Bazar, Ahmedabad.

J. Ramanlal & Co., 675-1, Sakar Bazar, Cross Lane, Ahmedabad.

Kamlesh Corporation, Navalshanker Bldg., Reid Road, Ahmedabad 2.

Kanchan & Co., Pankore Naka, Ahmedabad.

Kanchan Brothers Co., Reid Road, Ahmedabad.

Kant Engineering Co., Kapasia Bazar, Ahmedabad.

Kantilal & Co., Ramakada Market, Pankore Naka, Ahmedabad.

Kantilal & Co., Gheekanta Road, Ahmedabad.

Kantilal Jivanlal & Co., Reid Road, Ahmedabad.

Kantilal M. Modi & Co., 484, Revdi Bazar, Ahmedabad.

Kashiparekh Brothers, Reid Road, Ahmedabad.

Kashyap Bros., Cross Lane, Ahmedabad.

K. C. Mashruwala & Co., Reid Road, Ahmedabad.

K. Damodardas & Co., Singapurwalla Building, Khadia, Char Rasta, Ahmedabad.

K. H. Nawab & Co., K. Bazar, Ahmedabad 2.

Kilachand Devchand & Co., Ltd., Manek Chowk, Ahmedabad.

Kilburn & Co. P. Ltd., P.Box 1065, Ahmedabad.

Kiritkant & Co., Navrangpura, Road No. 1, Ahmedabad 9.

K. Shah & Co., Panchkuva, Opp. English Cinema, Ahmedabad.

KUMUD TRADING CO., Tagara Mill's Compound, Near Vora Roja, Kankaria Road, Ahmedabad.

Lalbhai, B. & Co., 111-B, Pankore Naka, Ahmedabad.

Laxmiprasad Trivedi & Co., Rang Bazar, Astodia Road, Ahmedabad.

Lead Slips Products P. Ltd., Rangwala Market, Ahmedabad 2.

Leophone Talking Machine Co., Gandhi Road, Ahmedabad.

L. N. Gadodia & Sons Ltd., opp. Maskati Market, Sakar Bazar, Ahmedabad.

Machine Products India P. Ltd. Reid Road, Ahmedabad.

Machine Tools and Hardware Corporation, Reid Road, Railwaypura Post, Ahmedabad.

MACHINERY SUPPLYING CO., Kankaria Road, A. D. Wadia's Premises, Ahmedabad 1; Prominent Manufacturers of Bleaching and Finishing Machineries for Textile Mills such as High Pressure Kier, Tight and Slack Washing with Rubber and Ebonite Coated rolls roller and ball bearing Squeezing arrangement, Chemicking Machine, Cloth Scutcher, Vertical and Horizontal Drying Range of Copper Cylinders, Stentering Machine, Printing Machine, Aeger and Soaper.

Madhavlal & Co., Pankore Naka, Ahmedabad.

Mafatlal K. Patel & Co., 1234, Hanuman Street, Dariapur, Ahmedabad.

Mafatlal Mohanlal & Co., Haribhai Market, Cross Lane, Ahmedabad.

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Maize Products Ltd., Kathwada, Ahmedabad 2.

Manilal & Bros., Reid Road, Ahmedabad.

Manilal & Co., 622/9, Kapasia Bazar, Ahmedabad 2.

Manmohandas & Co., 11, Pushpakunj Society, Maninagar, Ahmedabad 9.

Manubhai Lalbhai & Co., 3122, Gandhi Road, Ahmedabad.

Manubhai Parikh & Co., Dr. Motibai Road, opp. Madhav Baug, Ahmedabad.

Marfatia & Co., Naushir M., Valanda's Haveli, opp. Fuvara, Ahmedabad.

Master Traders, Inside Arenda Hall, Kapasia Bazar, Ahmedabad 2.

Masturlal Chunilal & Co., Kapasia Bazar, Ahmedabad 2.

M. A. Tinwala & Sons, Relief Road, Near Zackeria Masjid, Ahmedabad.

Maxima Corporation, 566, Reid Road, Ahmedabad 2.

Mehta Brothers & Co., 698, Reid Road, Ahmedabad.

Mehta Parikh & Co., Kapasia Bazar, Ahmedabad.

Metal Moulders Ltd., Dudheshwar Road, Ahmedabad.

Metro Industries, Chhinkin Kuiwala Estate, Outside Gomtipur Darwaja, Ahmedabad 10.

Metro Wood & Engg. Works P. Ltd., Dudeshwar Road, Ahmedabad 1.

Mistry and Gajjar (India) Ltd., Sarkigarani Wadi, Outside Sarangpur Gate, Ahmedabad.

Model Machineries P. Ltd., Kapasia Bazar, Ahmedabad.

Modern Engineering & Moulding Co., Shahpur Mills Compound, Ahmedabad.

Mody & Co., 629-2-3, Companywala Market, Kapasia Bazar, Ahmedabad.

Mohanlal Chunilal & Co., Manek Chowk, Ahmedabad.

Mohanlal & Co., Pankore Naka, Ahmedabad.

Morris Transport Service Ltd., Biradar Compound, Lal Darwaja, Ahmedabad.

Motiji Bhabhutmal & Co., B-8, Maskati Market, Ahmedabad.

MUKUNDLAL NANDALAL SHAH, Behind Khadayata Colony, Law College Road, Ellis Bridge, Ahmedabad-6.

Mulchand Asharam & Co., Maskati Market, Ahmedabad 2.

Muljibhai Shivji & Co., behind Gujarat College, No. 354/1, Ahmedabad.

M. Kantilal & Co., Pankore Naka, above Ghanchi's Wadi, Ahmedabad.

M. Parikh & Co., Lalshanker's Compound, Ellis Bridge, Ahmedabad.

M. Sharma & Co., No. 1779, Gandhi Road, P. O. Box No. 71, Ahmedabad.

M. Vadilal & Co., Tankshal, Kalupur, Ahmedabad.

Nagindas Kilabhai & Co., 697/14, Reid Road, Ahmedabad.

N. Mansukhram & Co., Parsi Chawl, Ahmedabad 2.

Nanavati & Co., Ltd., Maskati Market, Ahmedabad.

Nanavaty Narendra P. Ltd., Sakar Bazar, Vakharia Dehla, Ahmedabad 2.

NANIKRAM SOBHRAJ MILLS PRIVATE LTD., Madhowlal Ranchhodlal Colony, Railwaypura, Post Box No. 1041, Ahmedabad. Phone: 4266; Grams: "KINCHICRAP." Silk & Art Silk Cloth Manufacturers.

NARESHCHANDRA & CO., 76, Narshinh Bhuvan, Girdharnagar, Shabi Baug, Ahmedabad-4; Distributors for the Arvind Boards and Paper Products Ltd., Bilimora for their "ASHVARAJ" Strawboards.

Narotamdas Chunilal & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

National Coal Supplying Co., Below Saraspur Railway Bridge, Ahmedabad.

National Dental Supply Co., 283, Navatadni Pole, Gheekanta Road, Ahmedabad.

National Trading Co., Gauri Dwar, Gol Limbda, Maninagar, Ahmedabad 8.

Navinchandra C. Jhaveri & Co., Fani Bunda Building, Railwaypura, Ahmedabad.

New General Publicity (Private) Ltd., 1899/4, Gandhi Road, Ahmedabad.

New Make Industries, Opp. Arun Society, Ellis Bridge, Ahmedabad 7.

New National Colour & Chemical Co., Outside Raipur Gate, Ahmedabad.

Newkem Products Corpn., 527/4, Panchkuva, Ahmedabad.

NIMA TRADING COMPANY, Cross Lane, Ahmedabad 2. Phone: 3644. Importers, Manufacturers' Representatives & Stockists of Mill Stores, Machinery, Electrical Goods, Chemicals, Lubricants, Fertilizers, Insecticides.

N. K. Fadia & Co., 622/7, Ahmedabad 2.

N. MANSUKHRAM & CO. (Estd. 1923), Opp. Maskati Market, Ahmedabad 2. Textile Mills' Representatives, Exporters & Dealers.

N. M. Shah & Co., 469/7/D, Maskati Market, Ahmedabad 2.

Noble Textile Trading Co., Sunder Niwas, Gandhi Road, Ahmedabad.

Oriental Dyestuff Corpn., Rang Bazar, Astodia Road, Ahmedabad.

Panchal Keshavlal Ambaram & Bros., Gheekanta, Pitalia Bumba, near Dabadia Kuva, Ahmedabad.

Pandya & Co., Kapadia Bldg., Vadigam, Dariapur, Ahmedabad.

Pargans (I) P. Ltd., 571, Reid Road, Ahmedabad 2.

Parikh & Co., Kapasia Bazar, Ahmedabad 2.

Patel Brothers Syndicate, 1138, Harman's Street, Dariapur, Ahmedabad.

Pathak & Co., Mission Road, Ahmedabad.

P. Chhotalal Shah & Co., 3084, Three Gates, Ahmedabad.

PEARL COTTAGE INDUSTRIES, Patadi State Bldg., Bhadra, Ahmedabad-1; Grams: "ACCESSORY"; Manufacturers of Scooter Accessories, for Lambretta and Vespa Scooters, Circulated all over India; Export inquiries are welcome.

Pest Control (I) P. Ltd., Anand Bhuvan, Relief Road, Ahmedabad.

P. G. Shah & Co., Astodia Road, Rang Bazar, Ahmedabad.

Pickers Ltd., Ellis Bridge, Ahmedabad 6.

Awarded Gold & Silver Medals of Highest Award
Estd: 1915 Phone: 2612
THE PIONEER MANUFACTURING COMPANY
Haripura Road, Asarva,
AHMEDABAD-11
Manufacturers of Distempers, Paints etc.
Our Speciality: "PIOMACO" Distemper

Pioneer Textiles Co., Hari Sadan, Panchkuva, Char Rasta, Ahmedabad.

Popatlal & Co., Kalupur, Ahmedabad.

Popatlal Girdharilal & Co., Hava Building, Kapasia Bazar, Ahmedabad.

Popatlal Punjabhai & Co., Ahmedabad 2.

Popular Dyestuff & Chemical Co., Rang Bazar, Astodia Road, Ahmedabad.

PARBHULAL BHIKHABHAI & COMPANY
Sole Selling Agents for:
THE MAHENDRA MILLS LIMITED
KALOL
Exporters, Importers and Cotton & Synthetic Yarn Merchants
Telegrams: "PABHITRADE"
Phone: 72713
117, Mumbadevi Road, Bombay 3.
Telegrams: "PABHICO"
Phones: 3016 & 20761
Haribhai MRT., X Lane,
Ahmedabad 2.

Prakum Agencies, Ratan Pole, Ahmedabad 1.

PRAKASH MILL STORES TRADING CO., Seeds Merchants' Association, Kapasia Bazar, Ahmedabad 2; Specialists of warpers, Slubbings, Rovings, Skewers, All types of bobbins and wooden articles for Mills.

Premier Agencies, K. P. Bldg., 283/6, Gandhi Road, Ahmedabad.

Prem Roy Brothers, L. K. Trust Bldg., Panchkuva, Ahmedabad 2.

Prosperous Trading Syndicate, Deepak Chambers, Kapasia Bazar, Ahmedabad 2.

Provincial Construction Co., Ltd., Building Contractors, Kankaria Road, Ahmedabad.

REGAL TRADING COMPANY
Mehbub Society Building,
Kadia Kui, Tilak Road,
AHMEDABAD-1
Largest Stockists of Electric Motors, Switch-Starters, Ball Bearings, V-belts, Wolf Tools, Exhaust Fans, Air Compressors, Welding Sets, Machine Tools, Steam & Stainless Steel Pipes & Fittings.

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad.

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Rajendrakumar Navanitlal & Co., Kapasia Bazar, Ahmedabad.
Rajkamal Transport Company, Relief Road, Ahmedabad.
Ramanlal G. Shah & Co., Sankdi Sheri, Ahmedabad.
Ramanlal Sankalchand & Co., 572, Reid Road, Railwaypura Post, Ahmedabad.
Ramnarayan Sons P. Ltd., 437, Manekchowk, Ahmedabad.
R. Nagindas & Co., Mirzapur Road, Ahmedabad.
Rashmi Trading Co., 696/7, Reid Road, Ahmedabad 2.
Rasiklal D. Gandhi & Co., Hari Sadan, Khadia, Char Rasta, Ahmedabad.
Ratilal M. Parikh & Co., Ahmedabad 2.
R. D. Shah & Co., Ahmedabad 2.
Reliance Electric Co., Gandhi Road, Ahmedabad.
R. G. Bhow & Co., Gandhi Road, Jumma Masjid, Ahmedabad.
R. J. Kama & Co. P. Ltd., Lal Darwaja, Ahmedabad.
R. Jehangir Darashaw & Co., Relief Road, Ahmedabad.
R. Kantilal & Co., 687, Bombay Shop Bldg., Reid Road, Ahmedabad 2.
R. N. Shah & Co., Haridas Market, Kapasia Bazar, Ahmedabad 2.
Royal Watch Co. P. Ltd., 3123, Gandhi Road, Ahmedabad.
R. Ramanlal & Co., opp. Railway Station, Ahmedabad.
Sales & Service Corpn., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.
Scientific Printers' Materials Manufacturing Co., Ltd., Mirzapur Road, Ahmedabad.
Shah Construction Co., Manilal Mansion, Cross Lane, Ahmedabad.
Shah Transport Service Co., Sheth's Pole, Ratan Pole, Ahmedabad.
Shalimar Traders, 690/2, Reid Road, Ahmedabad 2.
SHANTILAL & CO., Cotton & Cloth waste Merchants, 1594, Dhanasutar Street, Ahmedabad; Regd. S.T. No. N. 10 A 247, Grams: "ALLWASTE".
S. Shantilal & Co., Pankore Naka, Ahmedabad.
Shah Patel & Co., Kapasia Bazar, Ahmedabad.
SHETH STORES TRADING CO., Deepak Chamber, Station Road, Ahmedabad 2.
SHRI VIVEKANAND MILLS LTD., Rakhial Road, P.O. Gomtipur, Ahmedabad 10.
Shubhdwar Rolling Shutters Engg. Co., 567-2, Reid Road, Ahmedabad.
Shums Trading Co., Pankore Naka, Bangdi Bazar, Ahmedabad.
Singer Sewing Machine Co., Relief Road, Ahmedabad 1.
S. M. Shah & Co., Opp. Cotton Hall, Maneck-chowk, Ahmedabad.
Spencer & Co., Ltd., Relief Road, Next Electricity House, Ahmedabad 1.
S. R. Nanavaty & Co., 149, Patasani Pole, Gandhi Road, Ahmedabad.
Standard Materials Co., Narottam Building, Kapasia Bazar, Ahmedabad.
Super Graders, Khadia, Haranwali Pole, Ahmedabad.
Supreme Textile Traders, Kapasia Bazar, Ahmedabad.
Swastik Engineering Works, Saraspur, Ahmedabad.
Swastik Textile Trading Co., Ltd., Motilal Hirabhai Market, Ahmedabad 2.
Tarkes Engineering Works, 11, Haridas Market, K. Bazar, Ahmedabad 2.
TAJ MAHAL TRADING CO., Mirzapur Road, Ahmedabad-1.
Tata Iron and Steel Co., Ltd. (Sales Branch Office), Relief Road, Ahmedabad 1.
Tex Dyes Corporation, Rang Bazar, Astodia Road, Ahmedabad.
Textile Commercial Co., Kapasia Bazar, Ahmedabad 2.
Textile Corporation, 354, Sardar Vallabhbhai Patel Road, Ahmedabad.
Textile Dyechem Corporation, Rang Bazar, Ahmedabad.
Textile Engineering Co., 637, Companywala Market, K. Bazar, Ahmedabad 2.
Textile Works Ltd., The, Hava Building, Kapasia Bazar, Ahmedabad.
Thakordas Jinabhai & Co., Outside Delhi Gate, Ahmedabad.
Thakorlal Bhagat & Co., Kapasia Bazar, Ahmedabad 2.
Trikamlal Mahasukhram & Co., 20, Rangwala Market, Ahmedabad.
Turner Hoare & Co. Ltd., Kapasia Bazar, Ahmedabad 2.
Umedram K. Mistry & Sons, Danapith, Ahmedabad.
Union Coal Co., opp. Aryodaya Ginning Mills, Asarva Road, Ahmedabad.
United Dyestuff Industries Ltd., Harisadan, Khadia Char Rasta, Ahmedabad.
United Textile Industries, H. Achratla Market, K. Bazar, Ahmedabad 2.
Uttam Transport Co., Tilak Road, Opp. Jakaria Masjid, Ahmedabad 2.
Vasa Brothers, Vora's Bldg., Kapasia Bazar, Ahmedabad 2.
Vasant Corporation, Vasant Talkies Compound, Near Idgah Gate, Ahmedabad 11.
Velian Paints P. Ltd., 38, Madhubhai Mill Compound, Ahmedabad.
Vinubhai & Co., Danapith, Kalupur, Ahmedabad 2.
Vishwa & Co., Khadia, Char Rasta, Ahmedabad.
Vohra & Co., 2115/1, Astodia Gate, Ahmedabad.
Voltas Limited, Navroz Villa, Ahmedabad 1.
Vrajesh P. Ltd., 696, Reid Road, Ahmedabad.
Wadia, A. D. & Sons, Kankaria Road, Ahmedabad.
Welspun Bobbin Co., 689, Reid Road, Ahmedabad 2.
Weltex Industrial Trading Co., 633, Companywala Market, K. Bazar, Ahmedabad.
Western India Prospecting Syndicate P. Ltd., Calico Mills Premises, Ahmedabad.
Williamsons (I) P. Ltd., 670-22, M. Hirabhai Market, Ahmedabad 2.

CLASSIFIED LIST OF TRADES & PROFESSIONS

ADVERTISING & PUBLICITY AGENTS

B. Shah & Co., Nisha Pole Naka, Relief Road, Ahmedabad 1.
Chitra Publicity Co., Near Pada Pole, Gandhi Road, Ahmedabad.
General Agency & Exchange Co., Near Jain Temple, 45, Gandhi Road, Ahmedabad.
International Publicity Bureau, Khadia Char Rasta, Ahmedabad.
K. SHAH & CO., 91, Ratan Pole, Ahmedabad. Phone: 3350; Estd. 1936.
Modern Publicity Co., 91, Ratan Pol, Ahmedabad.
Navnitlal & Co., 1161, Bhadra, opp. C.T.O., Ahmedabad.
Paramount Publicity Co., Jain Wadi, Manek Chowk, Ahmedabad.
Publicity Parlour, Khadia Char Rasta, Ahmedabad.
Panch Advertisers, Near Model Talkies, Gandhi Road, Ahmedabad.
Siddharth Advertising Agency, 6, Siddharth Society, Paldi, Ahmedabad 7.
Two Sisters, 91, Ratan Pole, Ahmedabad.

AERATED WATER

EMJEE SODA FACTORY, Opp. R. C. High School, Mirzapur Road, Ahmedabad 1.
Ghandhi Soda Factory, Panchkuva, Navi Moholat, Ahmedabad.
J. P. Soda Factory, Kankaria, Opp. Ambica Mills, Ahmedabad.
M.G. Soda Factory, Mirzapur Road, Ahmedabad.
P. Dhanjibhoy & Sons, Badra, Ahmedabad 1.
Patel Soda Factory, Shahpur, Navi Pole, Ahmedabad.
Shahco Soda Factory, Potalia Talav, Saraspur, Ahmedabad.
Tajmahal Trading Co., Mirzapur, Ahmedabad 1.
Thakker Soda Factory, Danapith, Ahmedabad 1.

AGRICULTURAL IMPLEMENTS MANUFACTURERS AND DEALERS

PUNJAB RAIHT FACTORY (Regd.), 411/13, Chokha Bazar, Railwaypura, Ahmedabad 2.

ARCHITECTS AND SURVEYORS

ARVINDKUMAR H. PATHAK, A.V.I. (London), Architects and Colony Organiser, Singaporwala Building, 3rd Floor, Khadia Char Rasta, Ahmedabad.

ART SILK AND COTTON TAPE SUPPLIERS

STAR LACE WORKS, 145, Mehta Pole, Wadigam, Ahmedabad; Art Silk & Cotton Tape Suppliers to Textile & Electric winding Cotton tape to Motor & Fan Builders.

ATTAR & OIL MANUFACTURERS

Babu Chemical Works, Asarva, Ahmedabad.
C. P. M. Mohena, Dhanasutar Pole, Daropole, Ahmedabad.

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Delhiwala Lala Bishandayal Dharamdas, Opp. Jumma Masjid, Ahmedabad.
Delhiwala Lala Parmanand & Sons, Opp. Jumma Masjid, Ahmedabad.
Delhiwala Lala Prahladdas Banarasidas, Opp. Jumma Masjid, Ahmedabad.
H. K. Dyer, Raipur, Badwa Pole, Ahmedabad.
Kanojwala Swadeshi Attar Bhandar, Three Gates, Ahmedabad.
K. Mehta & Co., Opp. Mansukhabai's Pole, Kalupur, Ahmedabad.
M. M. Khambhatwala, Akashethkuwas Pole, Raipur, Ahmedabad.
Nerol Agency, Three Gates, Ahmedabad.
Parimal Perfumery Works, Near Khadia Gate, Ahmedabad.
Rohit Industries, Near Bala Hanuman, Gandhi Road, Ahmedabad.
Ruby Perfumery Works, Dandigara's Pole, Kalupur, Ahmedabad.

AUTOMOBILE ENGINEERS

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams : "PARKCHIN." Phone : 4615.
Gujarat Motor Repowering Service, Old Bombay Shop Bldg., Railwaypura, Ahmedabad.

AUTOMOBILE PARTS AND ACCESSORIES

AHMEDABAD MOTORS (PRIVATE) LTD., Lal Darwaja, Ahmedabad.
Ajit Automobiles, Station Road, Ahmedabad.
Allaudin Pirbhai Mistri, Station Road, Ahmedabad.
Alliance Motor Co., Mirzapur Road, Ahmedabad.
Ashok Automobiles, Station Road, Ahmedabad.
Associated Auto Parts Ltd., Relief Road, Kadia Kuin, Ahmedabad.

ASSOCIATED MOTORS (PRIVATE) LTD., Mirzapur Road, Ahmedabad. Dealers of Motor Car and Motor Cycle Parts and accessories and allied Automobiles; Sole Distributors of Royal Enfield Motor cycles and three wheeler chassis for Gujarat. Repairs of all kinds are undertaken.
Automotive Mfg. (P) Ltd., Mirzapur Road, Ahmedabad.
Auto Service, Surkhej Road, Ahmedabad.
Barrel Supply Co., Kapasia Bazar, Ahmedabad.
Battery Charging & Rep. Works, Station Road, Ahmedabad.

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams : "PARKCHIN." Phone: 4615.
Bombay Motor Stores, Kapasia Bazar, Ahmedabad.

CAMA MOTORS (PRIVATE) LTD., Lal Darwaja, Ahmedabad; Phone : 4845; Grams : "AUTOFORD"; Authorised Dealers for Willys Jeep Vehicles, Hindustan Ambassador Cars & Bedford Trucks.
Eastern Automobiles, Reid Road, Ahmedabad.
Empire Motor Stores, Lal Darwaja, Ahmedabad.

GENERAL MOTOR AGENCY, THE, Proprietors : B. S. Shah & Co., Bhadra, Ahmedabad. Pioneer Dealers in Automobile Renowned Spare Tyres, Tubes, Batteries, Petrol and Motor Oil. Stockists : Ferodo Brake and Clutch Linings. Phone : 2441. Grams : "AUTOMOBILE."
G. M. Patel & Sons, Kapasia Bazar, Ahmedabad.
Gujarat Automobiles, Station Road, Ahmedabad.
Gujarat Motor Stores, Reid Road, Ahmedabad.
Gujarat Vulcanizing Works, Station Road, Deepak Chamber, Ahmedabad.
Hasanbhai Jivabhai, Outside Sarangpur Darwaja, Ahmedabad.
Hind Auto Service, Mirzapur Road, Ahmedabad.
Indo-American Trading Co., 159, Sindhi Market, Railwaypura, Ahmedabad.
Janta Motor Stores, Lal Darwaja, Ahmedabad.
Jashbhai Patel & Co., Shahpur Bridge Road, Ahmedabad.
Jayant Motor Stores, Old Bombay Shop Bldg., Railwaypura, Ahmedabad 2.
Jaybharat Motor Stores, Bhadra Mission Road, Ahmedabad.
Jayhind Motor Stores, Kapasia Bazar, Ahmedabad.
Krishna Automobiles, Kapasia Bazar, Ahmedabad.
Lakhia Brothers, Lal Darwaja, Ahmedabad.
Maniar Automobiles, Relief Road, Kadia Kuin, Ahmedabad.
Metro Motors (Ahd.) Ltd., Mirzapur Road, Ahmedabad.

MODERN AUTOMOBILES (GUJARAT) PRIVATE LTD., Automobile Engineers, Distributors of Cars and Standard Batteries, Motor parts and Automobile Accessories, Car Battery and Petrol Service Station Owners, Nehru Bridge Approach Road, Lal Darwaja, Ahmedabad.
Mody Automobiles, Akhanand Road, Bhadra, Ahmedabad.
Motor Sales & Service, Lal Darwaja, Ahmedabad.

NATIONAL MOTOR ACCESSORIES AGENCY, 1819, Three Gates, Ahmedabad 1.
National Motor Accessories Agency, 1819, Three Gates, Ahmedabad 1.
Neon Motor Stores, Station Road, Ahmedabad.
New International Motors Ltd., Mirzapur Road & Station Road, Ahmedabad.
New Motor House, Station Road, Ahmedabad.
Nirupam Automobiles, Kapasia Bazar, Ahmedabad.
Prabhat Motor Stores, Station Road, Ahmedabad.
Rama Automobiles, Outside Raipur Gate, Ahmedabad.
R. H. Velsibhai & Co., Opp. Chamunda Mata, Naroda Road, Ahmedabad.
R. Ramanlal & Co., Station Road, Ahmedabad.

S. D. PATEL & CO., Bhadra, Ahmedabad.
Shantilal & Co., Kalupur Pachpatti, Near Navgajapir, Ahmedabad.
Sharma & Co., Sukhlalpura, Naroda Road, Ahmedabad.
Thakore Motors, Gujarat Samachar's Compound, Khanpur, Ahmedabad.
United Service Association, Relief Road, Ahmedabad.
Western Motor Repowering Service, Reid Road, Ahmedabad.

BALL BEARINGS

A. Raman & Co., Kapasia Bazar, Ahmedabad 2.
Ball Bearing & Machinery Syndicate, Kapasia Bazar, Ahmedabad 2.
Heeri Engineering Corporation, Danapith, Ahmedabad.
Hutheesing Engineering Co., Gheekanta Road, Ahmedabad.
Kant Engineering Co., Kapasia Bazar, Ahmedabad 2.
National Ball Bearing Stores, Kapasia Bazar, Ahmedabad 2.
Regal Trading Co., Khadia Char Rasta, Ahmedabad.
Satish Stores Trading Co., Kapasia Bazar, Ahmedabad.
Shah Patel & Co., Kapasia Bazar, Ahmedabad 2.

SHETH STORES TRADING CO., Deepak Chamber, Station Road, Ahmedabad 2.
Standard Materials, Narottam Building, Crosslane, Ahmedabad.

BATTERIES

Balkrishna General Store, Kalupur, Ahmedabad.

BOMBAY GARAGE (AHMEDABAD) LTD., Shahibag Road, Ahmedabad 4. Grams : "PARKCHIN." Phone : 4615.
General Electric & Optical Stores, Khadia Char Rasta, Ahmedabad.
Hiralal & Sons, Near Pada Pole, Gandhi Road, Ahmedabad.
N. Dalichand & Co., Ratan Pole Naka, Ahmedabad.

PATHICK EVANS & CO., Gopal Krishna Flour Mills Compound, Outside Raipur Gate, Ahmedabad 1.
P. Liladhar & Co., Khadia Char Rasta, Ahmedabad.
P. Mangaldas & Co., Bala Hanuman, Ahmedabad.

BOBBINS

Arun Textile Wood Works, Behind Vikram Mills, Saraspur Ahmedabad.
Asarva Bobbin Works, Asarva Road, Ahmedabad 11.
Ashok Textile Industries, Road 3, East Potalia Lake, Saraspur, Ahmedabad.
Asian Textile Engg., Corpn., Opp. Madhav Baug, Ahmedabad.
Bharat Bobbins P. Ltd., Rakhial Road, Ahmedabad.
Diamond Bobbins Factory, Khanpur Road, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad 2.
Gujarat Wood Works (P) Ltd., Astodia Rati, Kagdapith, Ahmedabad.
Hind Wood Works & Bobbin Factory, Bhau's Pole, Raipur, Ahmedabad.
India Bobbins Factory, Opp. Post Office, Navrangpura, Ahmedabad.

INDIAN BOBBIN MFG. CO., Opp. Nutan Mill, Dahyabhai Colony, Anil Road, Ahmedabad 2.
Laxmi Vijay Bobbin Factory, Ramnagar, Sabarmati, Ahmedabad.
Mafatlal K. Patel & Co., 1234, Hanuman Street, Dariapur, Ahmedabad.
Metro Wood & Eng., Works (P) Ltd., Victoria Iron Works Compound, Dudheshwar Road, Ahmedabad.
National Bobbin Co., 456, Panch Kuva, Ahmedabad 2.
New Quality Bobbin Works, New Cotton Mills Compound, Kankaria Road, Ahmedabad.
Nutan Bobbin Works, Anil Road, Ahmedabad.
Rajnagar Bobbin Works, Gitamandir Road, Ahmedabad.
Rajnikant Bobbin Factory, Near Bechar Laskari Hospital, Aunsawad, Ahmedabad.
Shree Krishna Textile Works, Behind General Post Office, Salapose Road, Ahmedabad.
Shree Sharda Bobbin Works, Ambaji Mata's Mandir, Hathibha Wadi, Ahmedabad.
Shree Swastik Textile Wood Works, Parmanand Chawl, Dudheshwar Road, Ahmedabad.
Shri Maheshwari Bobbin Factory, Anil Road, Ahmedabad.

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.
Victory Wood Works, Khanpur Road, Ahmedabad.
Welspun Bobbin Company, Reid Road, Ahmedabad 2.

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BOOKSELLERS AND PUBLISHERS

Ahmedabad Book Depot, Near Bala Hanuman, Ahmedabad.
Ananda Book Depot, Near Bala Hanuman, Ahmedabad.
A. Arvind & Co., Opp. Chandravilas Hotel, Gandhi Road, Ahmedabad.
Ashok Book Depot, Fernandez Bridge, Ahmedabad.
Balgovind Kuberdas & Co., Fernandez Bridge, Gandhi Road, Ahmedabad.

BHARAT PRAKASHAN, Educational Publishers, 44, Kalyan Bhuvan, Tilak Road, Ahmedabad.

Bharti Sahitya Sangh, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
B. J. Brothers, Near Ratan Pole Naka, Ahmedabad.
B. S. Shah & Co., Near Ghanchi's Wadi, 1183, Pankore Naka, Ahmedabad.

CHETAN BOOK DEPOT, Below Gandhi Road Bridge, Ahmedabad.

Chetana Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
Choksi Brothers, Near Bala Hanuman, Ahmedabad.
Education Book Depot, Near Ratan Pole Naka, Ahmedabad.
Ellis Bridge Book Depot, Pritamnagardhal, Ahmedabad.
Enka Company, Near Bala Hanuman, Ahmedabad.
General Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
Gujarat Publishers, Ratan Pole, Ahmedabad.
Gujarat Pustak Bhandar, Kalyan Bhuvan, Relief Road, Ahmedabad.
Gujarat Sahitya Mandir, Under Central Bank, Gandhi Road, Ahmedabad.
Gurjar Granth Ratna Karyalaya, Opp. Fuvara, Gandhi Road, Ahmedabad.
Janta Book Depot, Near Krishna Cinema, Ahmedabad.

JAYANT BOOK DEPOT, 106/2, Gandhi Road, Ahmedabad.

Khadayata Book Depot, Near Bala Hanuman, Ahmedabad.
Kothari Book Depot, Near Dhana Suthar's Pole, Relief Road, Ahmedabad.

KOTHARI SAHITYA NIKETAN, Hindi-Gujarati Booksellers, Chaullaole Naka, opp. Khetarpal's Pole, Ahmedabad 1.

LAXMI PUSTAK BHANDAR, Below Fernandez Bridge, Gandhi Road, Ahmedabad. Publishers of Gujarati Books.

Mahajan Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
Mahavir Book Depot, Patasa Pole, Gandhi Road, Ahmedabad.
Mayank Book Depot, Opp. Gheekanta Police Chowky, Ahmedabad.
M. Jayant & Co., Opp. Dhana Suthar's Pole, Relief Road, Ahmedabad.
Navchetan Sahitya Mandir, Near Zaveriwad Naka, Relief Road, Ahmedabad.
New Order Book Company, Ellisbridge, Ahmedabad.
Navjivan Pustak Bhandar, Kalyan Bhuvan, Relief Road, Ahmedabad.
Navyug Book Depot, Near Bala Hanuman, Ahmedabad.
New Mahajan Book Depot, Fernandez Bridge, Gandhi Road, Ahmedabad.
New Prakash Stores, Near Gujarat College, Ahmedabad.
Oriental Trading Co., Fernandez Bridge, Gandhi Road, Ahmedabad.
Popular Book Depot, Opp. Dhanjibhai & Sons, Bhadra, Ahmedabad.
Rashtriya Prakashan Mandir, Near Ghanchi's Wadi, Pankore Naka, Ahmedabad.
Royal Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
S. B. Shah & Co., Near Ghanchi's Wadi, Pankore Naka, Ahmedabad.
Vidyarthi Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
Vijaya Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.
Vikram Book Depot, Under Fernandez Bridge, Gandhi Road, Ahmedabad.

BRUSH MANUFACTURERS AND DEALERS

Ambica Vijaya Brush Works, Revdi Bazar, Ahmedabad.
Arunodaya Works, Kapasia Bazar, Ahmedabad 2.
Asian Brush Co., Reid Road, Ahmedabad 2.
Laxmi Vijaya Brush Factory, Mandvi St., Near Kaka Balia's Pole, Ahmedabad.

BUILDERS AND CONTRACTORS

Advance Construction Co., Dariapur, Ahmedabad.
Ahmedabad Construction Co., Moti Mansion, Kapasia Bazar, Ahmedabad.
Alcok Cement Pipes & Concrete Works, Khadia Char Rasta, Ahmedabad.
Alvin Concrete Blocks & Cement Tiles Mfg. Co., Astodia Lati, Ahmedabad.
Ambalal Motilal Mahadevia, Talia Pole, Sarangpur, Ahmedabad.
Arvind Hiralal, 571, Reid Road, Ahmedabad.
Arvind Kumar & Co., C/o Gajanan Pathak & Co., Char Rasta, Khadia, Ahmedabad.
Asiatic Development & Construction Corpn. P. Ltd., Khanpur Road, Ahmedabad.
Associated Construction & Engineering Co., Harisadan, Panch Kuva, Char Rasta, Ahmedabad.
B. Girdharlal & Co., Last Kathsheri Lunsawad, Ahmedabad.
Bharat Construction Co., Sheth Chunilal Girdhalal Bldg., Lal Darwaja, Ahmedabad.
Bharat Construction Co., Opp. Jumma Masjid, Pankore Naka, Ahmedabad.
Bhardwaj & Co. N., Near Zakaria Masjid, Relief Road, Ahmedabad.
C. Gajar & Co., Gajar Bldg., Ambli Pole, Shahpur, Ahmedabad.
C. C. Patel, 7, Sardar Patel Colony, Navrangpura, Ahmedabad.

CAMA CONSTRUCTION CO., Amrut Building, Relief Road, Ahmedabad.

Chinubhai Manilal & Co., Mitha Khali, Ellis Bridge, Ahmedabad.
Chokshi Engineering Co., 1930, Gandhi Road, Ahmedabad.
Das & Co., 42, Pritamnagar, Ellis Bridge, Ahmedabad.
Desai Shah Construction Co., Maneckchowk, Ahmedabad.
Dharamsibhai Chaganlal Mistry, 12, Bharat Society, Kankaria, Ahmedabad.
Dhirubhai K. Shah, Deli Chakla, Ahmedabad.
Fadia Dalal & Co., Pankore Naka, Ahmedabad.
Free India Construction Co. P. Ltd., Hari Nivas Raipur Chakla, Ahmedabad.
Gajar & Co., Khadia, Sevka Wadi, Ahmedabad.
Gannon Dunkerley & Co. Ltd., Railwaypura, Ahmedabad 2.
Ghanshyam Construction Co., Maninagar, Ahmedabad.
Gokaldas & Sons, Bala Hanuman, Ahmedabad.
Govindlal H. Shah, Kotyark Society, Kankaria, Ahmedabad.
Gujarat Construction Co., Khadia Char Rasta, Ahmedabad.
Gujarat Wood Works (Pvt.) Ltd., Astodia Lati Bazar, Ahmedabad.
Harilal Jethlal Shah, Khadia Char Rasta, Ahmedabad.
Harilal Ranchodbhai, Swami Narayan Colony, Kankaria, Ahmedabad.
Hemendra R. Bhatt, Shanker Niwas, Got-Limda, Maninagar, Ahmedabad.
Hindustan Cement Pipes & Concrete Construction Co., Sewage Farm Road, Ahmedabad.
Ideal Housing Co. P. Ltd., Hari Nivas, Raipur Chakla, Ahmedabad.
Jariwalla & Co., 124-Makeriwad, Raipur, Ahmedabad.
J. M. Billimoria & Co., Lal Darwaja, New Bridge, Ahmedabad.
Joshi & Patel, on the Staircase of Niroze, Lal Darwaja, Ahmedabad.
Kanayalal Ramanlal & Co., Near Fire Brigade, Panchkuva, Ahmedabad.
K. B. Mehta & Co., 10, Parankunj, Ellis Bridge, Ahmedabad.
K. K. Gajar, Kalyan Bhuvan, Opp. Krishna Cine, Relief Road, Ahmedabad.
Keshavlal Haribhai Gajar, Jahangirpura, Ahmedabad.
Madhavlal & Co., Pankore Naka, Ahmedabad.
Mehta & Co., Mission Road, Bhadra, Ahmedabad.
Mehta Tiles Co., Near Verai Khada, Gandhi Road, Ahmedabad.

MOHANLAL & SONS, 1100, Pankore Naka, Ahmedabad.

Nagjibhai R. Patel, Madalpur, Ellis Bridge, Ahmedabad.
National Construction Co., Cotyark Society, Kankaria Road, Ahmedabad.
Navin Construction Co., Gheekanta Road, Ahmedabad.
Navji Construction Co., Anath Ashram Bldg., Outside Raipur Darwaja, Ahmedabad.
N. B. Patel & Co., Dariyapur, Kadia Naka, Ahmedabad.
N. Bhardwaj & Co., Near Zakaria Masjid, Relief Road, Ahmedabad.
New Era Construction Co. & Transport Co. P. Ltd., Panchkuva, Ahmedabad.
New India Construction Co., Gandhi Road, Ahmedabad.
N. Madhusudan Oza, Kadia Naka, Daryapur, Ahmedabad.
Parikh Construction Co., Near Samartheswar Mahadev, Behind Law College, Ellis Bridge, Ahmedabad.
Parimal Trading Co., Panch Kuva, Char Rasta, Ahmedabad.
Patel & Co., Ramolia Bldg., Relief Road, Ahmedabad.
Patel & Co., Swastik Society, Navrangpura, Ahmedabad.
Patel & Shah, Near Gujarat College, Ellis Bridge, Ahmedabad.
Premjibhai J. Patel, Kalpana Society, Navrangpura, Ahmedabad.
Prakash Construction Co., 658, Kapasia Bazar, Ahmedabad.
Ramjibhai Hirjibhai & Sons, New Cotton Mill Compound, Outside Raipur Darwaja, Ahmedabad.
Rasiklal & Sons, Hajiras' Pole, Raipur, Ahmedabad.
R. B. Patel & Co., 19, Bharat Society, Near Vedmandir, Kankaria, Ahmedabad.
R. C. Thakar, Dariyapur, Kadia Naka, Ahmedabad.
R. G. Desai Shah & Co., 107, Sardar Patel Colony, Navjivan, Ahmedabad.
R. K. Mahadevia, Dhanji Kashi Khadki, Raja Mehta Pole, Ahmedabad.

R. R. MEHTA & CO., 1269, Talia's Pole, Sarangpur, Ahmedabad 1; Approved Government and Municipal Contractors; Specialists in Heavy Foundations (Plain and reinforced), R.C.C. water supply and sewage schemes and other civil Engineering Works; Consulting Civil Engineers.

R. Parmar & Co., 232, Salvis Khacha, Dhana Sutar's Pole, Ahmedabad.

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Shah & Co., C/o Promodchandra S. Shah, Bavalla Kancha, Shamlas Pole, Raipur, Ahmedabad.
Shah Mehta & Co., Near Khamasa Gate, Opp. Pump, Ahmedabad.
Standard Construction Co., Opp. Municipal Corporation, Ahmedabad.

STERLING CONSTRUCTION CO., "Chansuraj", Khanpur Road, Ahmedabad.

Technical Engineering & Chemical Products Co., 21, Vishvakunj, Society, Near Rajnagar Society, Ellis Bridge, Ahmedabad.
United India Construction Co., 1930, Gandhi Road, Ahmedabad.
Universal Construction Co., Near Jains Temple, Dhalpole, Ahmedabad.
V. C. Brothers, Subhas Nagar, Shahibag, Ahmedabad.
Waghela Construction Co., Dariyapur, Kadia Naka, Ahmedabad.
Western India Engineering Co., Lakha Patel St., Sankdisheri, Ahmedabad.

CATTLEFOOD MERCHANTS

Ambica Cattlefood Supply Co., Pittalia Bumba, Gheekanta. Ahmedabad.
Amrutlal Karsandas & Co., Near Idgah Gate, Ahmedabad.
Manures & Feeds, Chokha Bazar, Kalupur, Ahmedabad.
Popatlal & Co., Kalupur, Danapith, Ahmedabad.
Ramdas Dahyabhai & Co., Chokha Bazar, Kalupur, Ahmedabad.
Shantilal & Co., Kalupur, Danapith, Ahmedabad.

CEMENT, CEMENT AND CONCRETE PRODUCTS MANUFACTURERS

CEMENT MARKETING CO. OF INDIA PRIVATE LTD., Bombay Mutual Building, Tilak Road, Ahmedabad.

GUJARAT CEMENT PIPE CO., Nachiketa Building, Maninagar, Ahmedabad 8; Phone: 51838; Grams: "GICIPI", Ahmedabad; Manufacturers of R.C.C. Pipes by Spun-process A.B.C.D. Class and I.R.S. Pipes according to I.S.I. Specification.

CHEMICAL & PHARMACEUTICAL PRODUCTS MANUFACTURERS

Amrit Chemical Works, Naroda Road, Ahmedabad.
Blue Star Pharmaceutical Laboratories, Jain Wadi, Manek Chowk, Ahmedabad. 1
Davey Chemical & Parmaceutical Works, Richey Road, Ahmedabad.
Gordon Mfg. Co., Mandvis Street, Lalbhai's Pole, Ahmedabad.
Gujarat Pharmaceutical & Chemical Works, Asarva, Ahmedabad.
Hygienic Pharmaceutical Products Supply Co., Patherkuva, Salapore Road, Ahmedabad.
Indo Drug Chemical Works, 7, Patidar Society, Ellis Bridge, Ahmedabad.
Purgostone Products Co., Char Rasta, 653/2, Naya Darwaja, Ahmedabad.
Ramco Chemical Works, 661, Kanuga Mansion, Kapasia Bazar, Ahmedabad 2.
Swarajya Pharmaceutical Works, Jethabhai's Pole, Khadia, Ahmedabad.
Sweetolax Mfg. Co., 2223, Bena's Pole, Raipur, Ahmedabad.
Vora Chemical & Pharmaceutical Works, Relief Road, Ahmedabad.

CHEMICAL MERCHANTS

A. C. Brothers, Arjunlal Lal Road, 296, Near Tower, Road No. 8, Ahmedabad.
A. H. Rollwalla & Co., Kapasia Bazar, Ahmedabad.
A. Hasmukh & Co., L. K. Trust Bldg., Reid Road, Ahmedabad 2.
Ahmedabad Chemical Co., C/o Gokaldas & Sons, Bala Hanuman, Ahmedabad.
Ahmedabad Hardware Stores, Menit House, Relief Road, Ahmedabad.
A. J. Patel & Co., Narottam Bldg., Kapasia Bazar, Ahmedabad.
A. K. Shah & Co., Revdi Bazar, Ahmedabad.
Allabeli Husenji, Gol Limda, Nariawad, Ahmedabad.
Ambalal Fulchand Parikh, New Cotton Mill No. 1 Compound, Outside Raipur Gate, Ahmedabad.
Anglo American Trading Corporation, Motilal Mansion, Kapasia Bazar, Ahmedabad.
A. Purshottamdas & Co., C/o Ambalal F. Patel, Kanuga Mansion, Kapasia Bazar, Ahmedabad.
A Ramesh & Co., 2317, Lunsawada, Ahmedabad.
A. Ratilal Nathalal & Co., 635, Companywala Market, Kapasia Bazar, Ahmedabad.
Ark Traders, Reid Road, Ahmedabad.
Aruna Traders, Vora's Bldg., Kapasia Bazar, Ahmedabad.
Arvind Panalal, Haveli Bldg., Fatasani Pole, Ahmedabad.
Arvind & Co., Kapasia Bazar, Ahmedabad.
Ashok Kumar & Co., Bharatkhand Textile Mills Compound, Ahmedabad.
Ashwin Traders, 1150, Laxminarayan Pole, Raja Mehta's Pole, Ahmedabad.
Associated Chemical Industries, Harisadan, Char Rasta, Ahmedabad.
Associated Stores, Panchkuva, Ahmedabad.
Atul Textile Stores, Kapasia Bazar, Ahmedabad.
Atul Traders, Kapasia Bazar, Ahmedabad.

AURORA TRADING CO., Salapose Road, Near G.P.O., Ahmedabad.

A. V. Nawab & Co., 2988, Nagji Bhuder's Pole, Mandvi St., Ahmedabad.
A. Y. Brothers, Kapasia Bazar, Ahmedabad.
Babubhai N. Chokshi, 674, Manilal Mansion, Cross Lane, Ahmedabad.
Balabhai M. Shah & Co., 674/2, Sheth's Pole, Sankadisheri, Ahmedabad.
B. C. Shah & Co., Laxmi Narayan's Pole, Raja Mehta's Pole, Ahmedabad.
B. Das & Co., Kerosene Bazar, Railwaypura, Ahmedabad.
Bhagat Brothers, Aranda Hall, Kapasia Bazar, Ahmedabad.
Bhanuprasad M. Joshi, Kadia Kunj, Haji Bldg., Relief Road, Ahmedabad.
Bharat Chemical Agency, Vora's Bldg., Kapasia Bazar, Ahmedabad.
Bipinchandra A. Dave, 21, Bhulabhai Park, Gitamandir Road, Ahmedabad.
Bipinchandra Gautamkumar, Harkuvars Haveli, Opp. Patasani Pole, Ahmedabad.
Bipin & Co., Vora's Bldg., Kapasia Bazar, Ahmedabad.
Bitex Corporation, 2088, Nagji Bhuder's Pole, Mandvi Street, Ahmedabad.
B. Kantilal & Co., Haridas Achratlal Market, Kapasia Bazar, Ahmedabad.
B. M. Amin & Co., Ambavadi, Ellis Bridge, Ahmedabad 6.
B. M. & Son, 3388, Dolatkhana, Sarangpur, Ahmedabad.
B. S. Banker & Co., Kapasia Bazar, Ahmedabad.
B. Shah & Co., Companywala Market, Kapasia Bazar, Ahmedabad.
C. Bangdiwalla & Co., 665/12, Kapasia Bazar, Ahmedabad.
C. Bapalal & Co., Haridas Market, Kapasia Bazar, Ahmedabad.
C. C. Mashruwalla, Kapasia Bazar, Ahmedabad.
Central Trading Corporation, Vora's Bldg., Kapasia Bazar, Ahmedabad.
Champakal & Co., Kapasia Bazar, Ahmedabad.
Chandravadan Bros., 13671, Madan Gopal's Haveli, Near Deydi Pole, Ahmedabad.
Chandulal Nathalal Shah, Dhanasutar's Pole, Lallubhai Tarachand's Khadki, Ahmedabad.
Chandulal Vadilal & Co., Reid Road, Ahmedabad.

CHEMICAL AGENCY, Grand Hotel Bldg., Lal Darwaja, Ahmedabad; Distributors: Tata Chemical Products.

Chhotalal Balabhai & Brothers, Kapasia Bazar, Ahmedabad.
Chhotalal Nagindas & Co., 1209/1, Chokhavatini Pole, Dhana Sutar's Pole, Ahmedabad.
Chudgar & Co., 21, Shantinagar Society, Vadaj Road, Ahmedabad.
Chinu Vakil & Co., Cross Lane, Ahmedabad.
Cimco Traders, C/o Pranlal Chhotalal, 1027, Totalajini Pole, Raja Mehta's Pole, Ahmedabad.
C. M. Desai & Co., Haridas Market, Kapasia Bazar, Ahmedabad.
C. Revabhai & Co., Kapasia Bazar, Ahmedabad.
Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad.
Dalichand Amarchand Mehta, 47, Krishan Nagar, Saraspur, Ahmedabad.
Dashrathlal Chimanlal & Brothers, Motilal Mansion, Kapasia Bazar, Ahmedabad.
D. Hiralal & Co., Kapasia Bazar, Ahmedabad.
Dhuldhoya Sons & Co., 567, Reid Road, Ahmedabad.
D. J. & Sons, Kapasia Bazar, Ahmedabad.
D. N. Shah & Co., Kapasia Bazar, Ahmedabad.
Dominant Textile & Industrial Co., 790, Ramji Mandir's Pole, Haja Patel's Pole, Ahmedabad.
Dye Stuffs & Chemicals Private Ltd., Reid Road, Ahmedabad.
East & West Trading Co., Kapasia Bazar, Ahmedabad.
Eastern Textile Stores, C/o Shantilal M. Dalal, 1879, Chhipa Mavjini Pole, Mandvi's Street, Ahmedabad.
Eastern Trading Agency, Haridas Market, Kapasia Bazar, Ahmedabad.

EASTERN TRADERS, Motilal Mansion, Kapasia Bazar, Ahmedabad.

Express Traders Private Ltd., Vora's Bldg., Kapasia Bazar, Ahmedabad.
General Trading Co., Khodi Ambli, Near Chhipa Pole, Ahmedabad.
Girdharlal Damodardas Private Ltd., 691, Reid Road, Ahmedabad.
Gokaldas & Sons, Kavishwar's Pole, Bala Hanuman, Ahmedabad.

GOKALDAS MOTILAL, Vohra Building, Kapasia Bazar, Ahmedabad.

Gujarat Corporation (I) Private Ltd., Harisadan, Char Rasta, Ahmedabad.
Gujarat Trading Co., C/o Shantilal Bhurabhai Shah, Chhipa Pole, Ahmedabad.
Haridas Mulji Thakkar, Kapasia Bazar, Ahmedabad.
Harilal S. Doshi, Kapasia Bazar, Ahmedabad.

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Hiraji Devaji Vachheta, Dudheshwar, Hanumanpura, Ahmedabad.
H. H. Corporation, Lakhia Bldg., Panch Kuva, Ahmedabad.
Ideal Mill Stores, Kapasia Bazar, Ahmedabad.
Imperial Trading Co., Kapasia Bazar, Ahmedabad.
India Mill Stores Co., 626/28, Vora's Bldg., Kapasia Bazar, Ahmedabad.
Indian Trading Co., Brahmapuri Pole, Raja Mehta's Pole, Ahmedabad.
Indravadan Chemical Works, C/o Vishnu Chemical Works, Outside Delhi Gate, Ahmedabad.
Industro (India) Traders, 706/2, Gandhi Road, Ahmedabad.
International Suppliers, Companywala Market, Kapasia Bazar, Ahmedabad.

INTERNATIONAL TRADERS PRIVATE LTD., P.O. Box No. 1059, Narottam Bldg., Kapasia Bazar, Ahmedabad. Phone Nos. 4847 & 3094; Grams : "CHEMICALS", Manufacturers of Sodium Acetate and other Industrial heavy chemicals; Sole Agents in India for I-Tex Brand Leather Belting; Manufacturers' Representatives and Dealers in all paints, chemicals, acids and Mill gin Stores.

International Trading Co., Station Road, Deepak Chambers, Railwaypura, Ahmedabad.
Interseas Trading Co., Patdi State Bldg., Panch Kuva, Ahmedabad.
Janata Chemical Works, C/o Kapurchand Anraj Shah, Gomtipur Road, Cement's Chawli, Ahmedabad.
Jaswant H. Patwa & Co., Harisan, Khadia Char Rasta, Ahmedabad.
Jaswantlal Popatlal & Co., 656/4/4, Kapasia Bazar, Ahmedabad.
Jatinkumar Siddharathbhai Shah, Mangal Parekh Khancho, Shahpur, Ahmedabad.
Jayantilal Ambalal & Co., 675/29, Sir Chinubhai Bldg., Revdi Bazar, Ahmedabad.
Jayantilal S. Gandhi & Co., Opp. Madhav Bag, Ahmedabad.

JAYSHREE TRADERS, Motilal Mansion, Kapasia Bazar, Ahmedabad.

J. Bhagat & Co., Deepak Chambers, Cross Lane, Ahmedabad.
J. M. Chokshi, Kapasia Bazar, Ahmedabad.
J. Mahendra & Co., 662, Kapasia Bazar, Ahmedabad.

J. NANAVATI & CO., 626/32, Kapasia Bazar, Ahmedabad.

J. P. Pandya, Padipole, Mandvini Pole, Ahmedabad.
Kamal Traders, 12, Khambhatwala Bldg., Ideal Colony, Maninagar, Ahmedabad.

KAMLESH CORPORATION, 696/A/2, Reid Road, Ahmedabad.

Kantilal H. Mehta & Co., 211, Reid Road, Ahmedabad.

KAPIL TRADERS, Kanuga Mansion, Kapasia Bazar, Ahmedabad.

Kashi Parekh Brothers, 564, Reid Road, Ahmedabad.
K. Bhatt & Co., Raipur, Havelini Pole, Ahmedabad.
Keshavlal Laljibhai Desai, Kapasia Bazar, Ahmedabad.
Kirtikant & Co., Navrangpura, Near Govt. Servant Society, Road No. 1, Ahmedabad.
Kishore & Co., Kapasia Bazar, Ahmedabad.
K. N. Mahadevia, Motilal Mansion, Kapasia Bazar, Ahmedabad.
K. Shah & Co., Panchkuva, Opp. English Cinema, Ahmedabad.
Kumud Trading Co., Outside Raipur Gate, Opp. Laxmi Cotton Mills, Tagara Mills Compound, Kankaria, Ahmedabad.
Liladhar Waghjibhai, Kapasia Bazar, Ahmedabad.
M. A. Valliulla, Kapasia Bazar, Ahmedabad.

MADHURAM TEXTILITIES, Manufacturers of Textile Auxiliaries & Tallowin, "Madhuram", Behind Khadayata Colony, Law College Road, Ellis Bridge, Ahmedabad.

Mahendrakumar M. Patel, Kapasia Bazar, Ahmedabad.
Manilal Jamnadas & Sons, New Madhavpura, Ahmedabad.
Manmohandas & Co., 11, Pushpakunj Society, Maninagar, Ahmedabad.
Manubhai Ashbhai Patel, Haridas Market, Kapasia Bazar, Ahmedabad.
Master Traders, Kapasia Bazar, Ahmedabad.
Maxima Corporation, 566, Reid Road, Ahmedabad.
Mohanlal Mansukhram Pari, 1444, New Madhupura, Ahmedabad.
Morlidhar Chandulal, C/o, Gokaldas & Sons, Balahanuman, Ahmedabad.
Nanavaty Narendra Private Ltd., Sakar Bazar, Vakharia Dehla, Ahmedabad.
Narendra & Co., Kapasia Bazar, Ahmedabad.
National Dental Supply Co., 283, Navtadni Pole, Gheekanta, Ahmedabad.
National Trading Co., C/o Muljibhai Keshavlal Joshi, Gauri Dwar, Gol Limbda, Maninagar, Ahmedabad.
Navinchandra & Co., Manilal Mansion, Cross Lane, Ahmedabad.
Navnitlal B. Chokshi, 656, Kapasia Bazar, Ahmedabad.
Navnitlal & Co., 485/3, Revdi Bazar, Ahmedabad.
Navnitlal M. Shah, Dhal's Pole, Jagabhai Pole, Ahmedabad.
Navinchandra C. Zaveri, Fanibanda Bldg., Railwaypura, Ahmedabad.
Nayna Trading Co., Kapasia Bazar, Ahmedabad.
New National Colour Chemical Co., Outside Raipur Gate, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad 2.
Niranjan R. Shah & Co., 627, Kapasia Bazar, Ahmedabad.
N. K. Fadia & Co., 622/7, Kapasia Bazar, Ahmedabad.
N. M. Shah & Co., 469/7/D, Maskati Market, Ahmedabad.
Noble Textile Trading Co., Sunder Niwas, Opp. Kothari Pole, Gandhi Road, Ahmedabad.
N. V. Desai & Co., 1241/B, Nava Darwaja, Char Rasta, Ahmedabad.
Ochhavlal Ishvarlal, Kapasia Bazar, Ahmedabad.
Ochhavlal K. Trivedi, Cross Lane, Ahmedabad.
Pandya & Co., Kapadia Bldg., Vadigam, Dariapur, Ahmedabad.
Paramount Textile Agency, Haridas Market, Kapasia Bazar, Ahmedabad.

PARIKH & CO., Motilal Mansion, Kapasia Bazar, Ahmedabad.

P. Jayantilal & Co., C/o Atul Traders, Kapasia Bazar, Ahmedabad.
P. Narendra & Co., Kapasia Bazar, Ahmedabad.
Popatlal Amthalal Shah, Kapasia Bazar, Ahmedabad.
Popatlal Jeshing Bhai Shah, K. Bazar, Ahmedabad 2.
Popatlal Punjabhai & Co., Kapasia Bazar, Ahmedabad.
Prabhat Chemical Agency., Motilal Mansion, Kapasia Bazar, Ahmedabad.
Prabhat Soap Industries, Motilal Mansion, Kapasia Bazar, Ahmedabad.
Premroy Brothers, L. K. Trust Bldg., Revdi Bazar, Ahmedabad.
Prosperous Trading Syndicate, Deepak Chambers, Kapasia Bazar, Ahmedabad.
P. Sheth & Co., Kapasia Pharmacy Bldg., Opp. Patasani Pole, Gandhi Road, Ahmedabad.
Punamchand C. Shah, C/o, New India Chemical Co., Kapasia Bazar, Ahmedabad.
Rajendrakumar Marutiprasad, L. K. Trust Bldg., Revdibazar, Ahmedabad.
Ramanlal Pitambardas Mashruwala, Rajamehta's Pole, Kalupur, Ahmedabad.
Ramanlal R. Sanghvi, Ratanpole, Hathikhana Naka, Ahmedabad.
Ramanlal Vrijvallabhdas & Co., Manilal Mansion, Cross Lane, Ahmedabad.
Ramchandra & Co., 661, Kanuga Mansion, K. Bazar, Ahmedabad 2.
Ramco Chemical Works, 661/6, Kanuga Mansion, K. Bazar, Ahmedabad 2.
Ramesh Brothers, Patel Market, Kapasia Bazar, Ahmedabad.
Ramesh M. Patel & Co., 1597, Zatkan Pole, Raipur, Ahmedabad.
Ramprasad Bhagat & Co., Sakar Bazar, Ahmedabad.

RAMNIKLAL H. PARIKH, 11, Gitabaug Society, Ellis Bridge, Anandnagar, Ahmedabad. Cane-bakset Manufacturers, Machinery brokers, Mill Furnishers & Machinery Spare parts dealers.

Rashmi Trading Co., 696/7, Reid Road, Ahmedabad.
Ratanlal Manilal Shah, Dhal's Pole, Jagabhai Pole, Ahmedabad.
Ratilal C. Mehta, Shantikunj, Sarkhej Road, Ellis Bridge, Ahmedabad.
R. D. Shah & Co., Kapasia Bazar, Ahmedabad.
R. Kantilal & Co., 687, Bombay Shop Bldg., Reid Road, Ahmedabad.
R. N. Shah & Co., Haridas Market, Kapasia Bazar, Ahmedabad.
R. Rajnikant & Co., Opp. Model Cinema, 653, Janiwada, Richey Road, Ahmedabad.
Sales & Service Corpn., Motilal Mansion, Kapasia Bazar, Ahmedabad.
Sankalchand Chakubhai & Co., Kapasia Bazar, Ahmedabad.
Shalimar Traders, 690/2, Reid Road, Ahmedabad.
Shamaldas Kapadia & Co., 9, Bharti Society, Ellis Bridge, Ahmedabad.
Shobha Engineers, Kapasia Bazar, Ahmedabad 2.
S. Mehta & Co., Reid Road, State Bank of India, 1st Floor, Ahmedabad.
S. M. Shah & Co., Opp. Cotton Hall, Manekchowk, Ahmedabad.
S. R. Nanavaty & Co., 149, Patasani Pole, Gandhi Road, Ahmedabad.
Super Traders, Khadia Haranwali Pole, Ahmedabad.
Supreme Textile Traders, Kapasia Bazar, Ahmedabad.
Taherally Sultanally & Bros., 1475/76, New Madhavpura, Ahmedabad
Texdycokem, Near New Textile Mills Compound, Opp. Raipur Gate, Ahmedabad.
Textile Commercial Co., Kapasia Bazar, Ahmedabad.
Textile Corporation, 354, Sardar Vallabhbhai Patel Road, Ahmedabad.
Thakorlal Bhagat & Co., Kapasia Bazar, Ahmedabad.
Trikamlal Mahasukhram & Co., 20/1, Rangwala Market, Ahmedabad.
United Corporation, Harisadan, Char Rasta, Ahmedabad.
Vadilal Balabhai Vasa, Below new bridge, Asarwa, Ahmedabad.
Vasa Brothers, Vora's Bldg., Kapasia Bazar, Ahmedabad.
Vasant Corporation, Vasant Talkies Compound, Near Idga Gate, Ahmedabad.
Vinam Traders, Kapasia Bazar, Ahmedabad.
Vishnu Chemical Works, Outside Delhi Gate, Ahmedabad.
Vivekanand Mill Stores, Companywala Market, Kapasia Bazar, Ahmedabad.
Voltas Ltd., Mirzapur, Ahmedabad.
Vrajlal Dayalji Shukla, Kapasia Bazar, Ahmedabad.
Vrajesh (Private) Ltd., 696, Reid Road, Ahmedabad.
Yashvant & Co., Motilal Mansion, K. Bazar, Ahmedabad 2.

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CHEMISTS AND DRUGGISTS

Ahmedabad Alembic Depot, Lal Darwaja, Ahmedabad.
All Traders, Ellis Bridge, Ahmedabad.
Ashok Medical Stores, Opp. New Civil Hospital, Asarva, Ahmedabad.
B. C. Saraiya & Co., Three Gates, Ahmedabad.
Bhanuprasad & S. S. Co., Three Gates, Ahmedabad.
Bharat Medical Stores Gandhi Road, Ahmedabad.
Bhikhalal Chhaganlal Desai, Three Gates, Ahmedabad.
Bhogilal & Bros., Gandhi Road, Ahmedabad.
Chandulal Premchand, Three Gates, Ahmedabad.
Chimanlal Kuberdas Modi, Three Gates, Ahmedabad.
Chimanlal Sankalchand, Pankore Naka, Ahmedabad.
Chaturbhai S. Patel, Ramakada Market, Ahmedabad.
Chimanlal Madhavlal & Co., Three Gates, Ahmedabad.

CHUNILAL MAYACHAND MEHTA (Chasmawala), Three Gates, Ahmedabad. Chemist, Druggist & Optician. Phone: 2563. Grams: 'EYEDROPS'. Wholesale Depot: Mehta Building, Biscuit Gally, Pankore Naka, Ahmedabad.

Civil Chemists, Opp. New Civil Hosp., Asarva, Ahmedabad.
C. R. Balkrishna & Co., Three Gates, Ahmedabad.
C. S. Patel & Co., Three Gates, Ahmedabad.
Dahyabhai Nansa & Co., Three Gates, Ahmedabad.
Dahyabhai Sankalchand & Bros., Three Gates, Ahmedabad.
D. P. Dave & Co., Raipur Chakla, Ahmedabad.
Gujarat Medical Agencies, Biscuit Gally, Ahmedabad.
Hiralal Bhagwandas Saraiya, Three Gates, Ahmedabad.
H. Pandit & Co., Three Gates, Ahmedabad.
H.T.S. Attarwala, Three Gates, Ahmedabad.
Janta Medical Stores, Saraspur, Ahmedabad.
Jayant Medical Stores, Biscuit Gally, Ahmedabad.
J. B. Shah & Co., Pankore Naka, Ahmedabad.
Jiwanlal T. Bhatia, Dhikawa Choki, Ahmedabad.
J. J. Parikh & Brothers, Three Gates, Ahmedabad.
J. N. Patel & Co., Gandhi Road, Ahmedabad.
J. S. Brothers, Delhi Chakla, Ahmedabad.
Kantilal Jesinghbhai & Co., Three Gates, Ahmedabad.
K. Chimanlal & Co., Three Gates, Ahmedabad.
Krishna Medical Stores, Sarangpur Chakla, Ahmedabad.
Krishna Stores, Asarva Chakla, Asarva, Ahmedabad.
L. K. Trivedi & Sons, 4020/14, Astodia Road, Ahmedabad.
Mahesh Medical Stores, Raipur Chakla, Ahmedabad.
Manubhai & Co., Relief Road, Ahmedabad.
Mehta Medical Stores, Delhi Chakla, Ahmedabad.
M. Narandas & Co., Raipur Chakla, Ahmedabad.
Mohanlal & Co., Pankore Naka, Ahmedabad.
Mohanlal Shankerlal & Co., Three Gates, Ahmedabad.
Nagindas Dahyabhai & Co., Near Tankshal, Kalupur, Ahmedabad.
National Drug Agency, Gandhi Road, Ahmedabad.

NATVERLAL & BROTHERS, Pankore Naka, Ahmedabad.

Natverlal C. Desai, Near Pada Pole, Ahmedabad.
Nerol Agency, Three Gates, Ahmedabad.
New Medical Stores, Relief Road, Ahmedabad.
New National Medical Stores, Pankore Naka, Ahmedabad.
Orient Medical Agencies, Fuwara, Ahmedabad.
Pandit Shah & Co., Three Gates, Ahmedabad.
P. Chhotalal Shah & Co., Three Gates, Ahmedabad.
Panvel Pharmacy, Gandhi Road, Ahmedabad.
Paramand Sheth & Co., Gandhi Road, Ahmedabad.
Parekh Brothers, Gandhi Road, Ahmedabad.
Parekh Medical Stores, Gandhi Road, Ahmedabad.
Paresh Dinesh & Co., Three Gates, Ahmedabad.
Patel Brothers, Gandhi Road, Ahmedabad.
Patel Medical Stores, Relief Road, Ahmedabad.
Popatlal Manilal, Delhi Chakla, Ahmedabad.
Pramod Medical Stores, Maninagar, Char Rasta, Ahmedabad.
R. Amratlal & Co., Biscuit Gally, Ahmedabad.
Ramanlal Bhagat & Bros., Raipur Chakla, Ahmedabad.
Rasik Stores, Three Gates, Ahmedabad.
Rasiklal Mulshanker & Co., Chanla 01, Ahmedabad.
Reliable Chemists, Relief Road, Ahmedabad.
R. Vadilal & Co., Relief Road, Ahmedabad.
Sankalchand Chunilal Gandhi, Three Gates, Ahmedabad.
Saurashtra Medical Stores, Saraspur, Ahmedabad.
Shah & Kothari Brothers, Gandhi Road, Ahmedabad.
Shah Medical Stores, Relief Road, Ahmedabad.
Shantilal Ambalal, Gandhi Road, Ahmedabad.
Surendra Jayantilal & Bros., Three Gates, Ahmedabad.
Swaminarayan Medical Stores, Pankore Naka, Ahmedabad.
Thakore Stores, Khadia, Char Rasta, Ahmedabad.
Trikamlal Mohanlal & Co., Three Gates, Ahmedabad.
Union Traders, Three Gates, Ahmedabad.
Universal Pharmacy, Gandhi Road, Ahmedabad.
Vora Brothers, Relief Road, Ahmedabad.

CLEARING & FORWARDING AGENTS

Bapalal Kilabhai, Kadava Pole, Dariapur, Ahmedabad.
Chimanlal Chhaganlal Shah, Rajamehta's Pole, Ahmedabad.
Dadubhai Muljibhai Amin, Patel Society, Ellis Bridge, Ahmedabad.
Dhulji Champalal Shah, Opp. New Swadeshi Mills, Naroda Road, Ahmedabad.
Eastern Stores Co., Kerosene Bazar, Ahmedabad.
Fulchand Mulchand, Vasan Sheri, Saraspur, Ahmedabad.
Hiralal Hargovandas Desai, Opp. Municipal Corpn., Ahmedabad.
J. M. Rao & Co., Lodhvad, Mirzapur Road, Ahmedabad 1.
Kashinath Makanji Joshi, Maninagar, Ahmedabad.
Lallubhai Somnath & Bros., Kerosene Bazar, Ahmedabad 2.
M. F. Moonshi & Co., Opp. Madhav Bag, Ahmedabad 2.
Maneklal Keshavlal, Vinchhini Pole, Mandvi's Pole, Ahmedabad.
Nanalal Karsandas, Kapasia Bazar, Ahmedabad 2.
Narandas Mulchand, Kerosene Bazar, Ahmedabad 2.
Narrotamdas Lilachand, Kerosene Bazar, Ahmedabad 2.
Nathalal Ratnabhai, Maninagar, Ahmedabad.
Ramanlal Lallubhai Shah, Chang Pole, Varai Pada, Ahmedabad.
Ratilal Vadilal & Bros., 482, Revdi Bazar, Ahmedabad 2.
S. K. Ghose & Co., Opp. Municipal Corporation, Ahmedabad.
Sankalchand Lilachand, Kerosene Bazar, Ahmedabad 2.
Shakarabhai Ramdas, Kerosene Bazar, Ahmedabad 2.
Sorabkhan Rustomkhan, Bhistiwad, Khanpur, Ahmedabad.
Thakorlal Vrijlal Chokshi, Opp. Sevaka's Vadi, Khadia, Ahmedabad.
Vadilal Chhaganlal, Kerosene Bazar, Ahmedabad 2.

COLOUR MERCHANTS

Ahmedabad Colour Company, Astodia Road, Rang Bazar, Ahmedabad.
A. Hasmukh & Company, L. K. Trust Bldg., Ahmedabad.
Alarakha Isaji & Co., Panch Pipli, Opp. Post Office, Ahmedabad.
Bombay Colour & Chemical Co., Panch Pipli, Near Gate, Ahmedabad.
C. Bapalal & Co., Kapasia Bazar, Haridas Achratlal Market, Ahmedabad.
Chandrakant & Company, Kasumbawad, Doshiwada's Pole, Ahmedabad.
Continental Trading Syndicate, Kapasia Bazar, Near Motilal Mansion, Ahmedabad.
C. N. Mehta & Co., Manek Chawk, Ahmedabad.
Dahyabhai & Co., Astodia Road, Rang Bazar, Ahmedabad.
D. V. Colour & Co., Astodia Road, Rang Bazar, Ahmedabad.
Eastern Traders, Kapasia Bazar, Motilal Mansion, Ahmedabad.
G. A. Hawkabaj & Co., Astodia Road, Rang Bazar, Ahmedabad.
G. Kisborilal & Sons, Astodia Road, Rang Bazar, Ahmedabad.
Haji Mahamad Yusuf & Co., Jamalpur, Kaji's Dhaba, Moti Vahorwad, Ahmedabad.
Harsadrai Trivedi & Co., Astodia Road, Rang Bazar, Ahmedabad.
Interseas Trading Co., Outside Panchkuva Cloth Market, Patdi State Bldg., Ahmedabad.

KALOOMAL SHORIMAL SACHDEV RANGWALA PRIVATE LTD., Astodia Road, Rang Bazar, Ahmedabad.

KAMLESH CORPORATION, 696/A/2, Reid Road, Ahmedabad.

Kasam Haji Karimbax Rangwala, Jamalpur, Kaji's Dhabe, Ahmedabad.
Laxmiprasad Koderlal Trivedi & Co., Astodia Road, Rang Bazar, Ahmedabad.
Laxmiprasad Trivedi & Co., Astodia Road, Rang Bazar, Ahmedabad.
Madhavlal Manilal & Co., Astodia Road, Rang Bazar, Ahmedabad.
Moolchand Jeykishandas & Co., Reid Road, Ahmedabad.
Nanalal & Co., Astodia Road, Rang Bazar, Ahmedabad.
New National Colour & Chemical Co., Outside Raipur Gate, Near Bansi Flour Mill, Ahmedabad.
Oriental Dyestuff Corporation, Astodia Road, Rang Bazar, Ahmedabad.
P. G. Shah & Co., Astodia Road, Rang Bazar, Ahmedabad.

PHOENIX COLOUR CO., Dalal Wada, Opp. Electricity House, Relief Road, Lal Darwaja, Ahmedabad.

Popular Dyestuff & Chemical Co., Astodia Road, Rang Bazar, Ahmedabad.
P. R. Dyeing & Printing Works, Astodia Road, Rang Bazar, Ahmedabad.
Ramesh Brothers, Sarangpur, Lati Bazar, Ahmedabad.
S. R. Jasani & Co., Astodia Road, Rang Bazar, Ahmedabad.
S. Vinod & Co., Raipur, Haveli's Pole, Ahmedabad.

SHREE BANSIDHAR PRIVATE LTD., opp. city Mills, Kankaria Road, Ahmedabad.

Spectrum Dyes, Sankdi Sheri, Lakhapatel's Pole, Ahmedabad.
Textile Aniline & Co., C/o Anandlal N. Shah, Astodia Chakla, Ahmedabad.
Textile Dyechem Corporation, Astodia Road, Rang Bazar, Ahmedabad.

UNION COLOUR & CHEMICAL CO., Devkinandan Market, Railwaypura Cross Lane, Ahmedabad.

Vibgyor Trading Corporation, Astodia Road, Rang Bazar, Ahmedabad.
Yashvant & Co., Kapasia Bazar, Motilal Mansion, Ahmedabad 2.

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CONFECTIONERY MANUFACTURERS

Arvind Food Products, Panch Patti, Kalupur, Ahmedabad.
Asian Food Industries, Kadaka Mills Compound, Gomtipur, Ahmedabad.
Bhagdev Confectionery Works, Kanshara Wadi, Panch Kuva, Ahmedabad 1.
Bitco Confectionery Works, Juna Madhavpura, Ahmedabad 1.
Indian Food Industries, Kot ki Rang, Sarangpur, Ahmedabad 1.
Kashmir Confectionery Works, Kot ki Rang, Kalupur, Ahmedabad 1.
Krishna Confectionery Works, Sodagar Pole, Kalupur, Ahmedabad 1.
Mahadev Confectionery Works, Makeri Wad, Near Zakaria Mosque, Relief Road, Ahmedabad 1.
Nashir Confectionery Works, Navi Milat, Panch Kuva, Ahmedabad 1.
Punjab Confectionery Works, Opp. Maninagar Station, Manigar, Ahmedabad 8.
Raj Confectionery Works, Krishkola Pole, Kalupur, Ahmedabad 1.
Rajan Confectionery Works, Sodagar Pole, Kalupur, Ahmedabad.
Rama Confectionery Works, Kalupur Chakla, Kalupur, Ahmedabad.

COTTON TEXTILE MILLS

Ahmedabad Advance Mills Ltd., (Mg.Agents: Tata Industries P. Ltd., Bombay House, 24, Bruce Street, Fort, Bombay), Mill at Shahibag Road, outside Delhi Gate, Ahmedabad.
Ahmedabad Cotton Mfg. Co., Ltd. (Bagicha Mill), Nos. 1 & 2, Agents: Amritlal Hargovandas & Bros., Ltd., Office on Mill Premises, outside Sarangpur Gate, Ahmedabad.
Ahmedabad Jaybharat Cotton Mills Ltd. (formerly Bharat Laxmi Cotton Mills Ltd.), Managed by Board of Directors. Mill beyond Kankaria Railway Siding, Mithipur, Ahmedabad.

AHMEDABAD JUPITER SPG., WVG. & MFG. CO., LTD., Spindles 34,468, Looms 725. Agents: M. Parakh & Co., Private Ltd., C/o Jupiter Mills Ltd., Ahmedabad. Mills at Dudheshwar Road, Ahmedabad. Manufacturers of Medium, Fine and Superfine cloth, Poplins, Shirtings, Coatings, Sarees, Dhoties, Voiles, Table cloth, Serviettes and Handkerchiefs, WELL KNOWN FOR SANFORIZED POPLINS, COATINGS AND SHIRTINGS.

Ahmedabad Kaiser-i-Hind Mills Co., Ltd. (formerly Ahmedabad Merchants Spinning Mills Co., Ltd.), Agents: Ramanlal Kanaiyalal & Co. Ltd., outside Raipur Gate, Ahmedabad.
Ahmedabad Laxmi Cotton Mills Co., Ltd., Outside Raipur Gate, Ahmedabad.
Ahmedabad Manufacturing and Calico Printing Co., Ltd., The, Post Box No. 12, Ahmedabad.
Ahmedabad New Cotton Mills Co., Ltd., Agents: Narottam Chandulal & Co., Ltd., Mills near Khokra, Mehemdabad, Ahmedabad.
Ahmedabad New Textile Mills Co., Ltd., Nos. 1 & 2 (formerly Javeri Spg. & Mfg. Co., Ltd.), Naranlal Jivanlal & Co., P. Ltd., outside Raipur Gate, Ahmedabad.

AHMEDABAD SARANGPUR MILLS CO., LTD., Outside Raipur Gate, Ahmedabad.

Ahmedabad Shri Rama Krishna Mills Co., Ltd., Gomtipur Road, Ahmedabad.
Ajit Mills Ltd., Rakhial Road, Ahmedabad, Agents: Chinubhai Naranbhai & Co., Ltd. Office on Mill premises.
Ananta Mills Ltd., Rakhial Road, Ahmedabad.
Aruna Mills Ltd., Agents: Hutheesingh & Sons Ltd., Post Box No. 1058, Ahmedabad; Mills at Naroda Road, Ahmedabad.
Arvind Mills Ltd., Agents: Narottam Lalbhai & Co., Naroda Road, Ahmedabad.
Aryodaya Ginning and Mfg. Co., Ltd., Asarva Road, Ahmedabad 11.
Aryodaya Spinning and Weaving Co., Ltd. (Nos. 1 & 2), Agents: Mangaldas & Balabhai & Co., P.O. Box No. 146, Ahmedabad. Mills at Asarva Road, Ahmedabad.
Asarwa Mills Ltd., Kodak House, Hornby Road, Fort, Bombay. Mills at Asarwa Road, Ahmedabad.
Asoka Mills Ltd., Agents: Lalbhai Dalpatbhai & Co., Post Box No. 55, Ahmedabad; Mills at Naroda Road, Ahmedabad.
Bechardas Spg. & Wvg. Mills Co., Ltd., Rakhial, Ahmedabad.
Bhalakia Mills Co., Ltd., Mg. Agents: Narottamdas Jethalal & Co. (Ahd.) P. Ltd., Kankaria Road, Ahmedabad.
Bharat Suryodaya Mills Co., Ltd. (formerly India Spg. & Wvg. Co., Ltd.), Agents: Chaturbhujdas K. M. & Co., Managing Agents, Post Box No. 125, Ahmedabad.
Bharatkhand Textile Mfg. Co., Ltd., Nos. 1 & 2, Agents: Jivanlal Girdharlal & Co., Private Ltd., Post Box No. 30, Ahmedabad. Mills at Camp Road, Ahmedabad.
Bihari Mills Ltd., Agents: Motilal Harilal & Co., Ltd., P.O. Box No. 4, Ahmedabad. Mills near Khokra, Mehmedabad, Ahmedabad.
City of Ahmedabad Spg. & Mfg. Co., Ltd., 367. Agents: Chamanlal Mangaldas & Sons, Kankaria Road, Ahmedabad.
Commercial Ahmedabad Mills Co., Ltd., Agents: Dhanjibhai & Tricumlal & Co., Ltd., near Idgah Chowki, Asarwa, Ahmedabad.
Girdhardas Harivallabdas Mills Ltd. (formerly Rajnagar Mills No. 2), Agents: Chamanlal Mangaldas & Co., near Idga Gate, Ahmedabad.
Gujarat Hosiery Factory, Spg., Mill, Owners: C. C. Dalal & Co., Rakhial Road, Ahmedabad.
Harivallabhdas Mulchand Mills Co., Ltd., Agents: Girdharlal Harilal & Co., outside Dariapur Gate, Ahmedabad.
Hathisingh Mfg. Co., Ltd., Agents: Maneklal Mansukhbhai & Co., P. O. Box No. 2, Ahmedabad. Mills near Saraspur Gate, Ahmedabad.
Himabhai Mfg. Co., Ltd., No. 1, Agents: Dhirajlal Khushaldas & Bros., near Saraspur Gate, Ahmedabad.
Jehangir Vakil Mills Co., Ltd., Agents: Rustomji Mangaldas & Co., Ltd., outside Delhi Gate, Ahmedabad.
Maheshwari Mills Ltd. (formerly Ahmedabad Cotton & Waste Mfg. Co., Ltd.), P. T. Munshaw & C. N. Munshaw, Directors-in-charge, Post Box No. 79, Ahmedabad. Mills at Shahibaug Road, Ahmedabad.
Manecklal Harilal Spg. & Mfg. Co., Ltd., Ahmedabad.
Manekchowk & Ahmedabad Mfg. Co., Ltd., Nos. 1 & 2, Agents: Hiralal Tricumlal & Sons, Outside Dariapur Gate, Ahmedabad.
Marsden Spg. & Mfg. Co., Ltd., Rakhial Road, Ahmedabad.
Monogram Mills Co., Ltd., Agents: Marsden Bakhubhai & Sons P. Ltd., Rakhial Road, Ahmedabad 10.
Nagri Mills Co., Ltd., Agents: Popatlal Chimanlal & Co., Rajpur, Gomtipur Road, Ahmedabad.
New Asarwa Mills Private Ltd., The (formerly Asarva Mills Ltd., No. 2), P.O. Railwaypura, Ahmedabad 2.
New Commercial Mills Co., Ltd., Agents: Trikamlal Bhogilal & Co., Ltd., Naroda Road, Ahmedabad.
New Gujarat Cotton Mills Ltd. (formerly Gujarat Cotton Mill), Naroda Road, Ahmedabad. Agents: Kanoria & Co. Ltd., 9B, Brabourne Road, Calcutta.
New Manekchowk Spg. & Wvg. Co., Ltd., Agent: Sheth Bharat Kumar Chinubhai, Near Idgah Gate, Asarwa, Ahmedabad.
New National Mills Ltd., Rakhial Road, Ahmedabad.
New Rajpur Mills Co., Ltd. (formerly Rajpur Mill Ltd.), Agents: Bhikhabhai Jivabhai & Co., Private Ltd., Gomtipur Road, Ahmedabad.

NEW SWADESHI MILLS OF AHMEDABAD, LTD., Naroda Road, Ahmedabad; Phone: 2828; Gram: "NEWSWADESI"; Spindles 39,296, Looms 848.

Nutan Mills Ltd., Agents: Jagabhai Bhogilal Nanavaty & Co., Ltd., Anil Road, *via* Vora's Roja, Railwaypura Post, Ahmedabad.
Patell Mills Co., Ltd. (formerly Gomtipur Spg., Wvg. and Mfg. Co. Ltd.), Agents: Dhirajlal Chunilal & Co., Gomtipur Road, Ahmedabad.
Raipur Mfg. Co., Ltd., Agents: Lalbhai Dalpatbhai & Co., Post Box No. 54, Ahmedabad. Mills outside Saraspur Gate, Ahmedabad.
Rajnagar Spg., Wvg. & Mfg. Co., Ltd., Nos. 1 & 2, Idgah Gate, Post Box No. 124, Ahmedabad.
Rohit Mills Ltd., Agents: Lallubhai Gordhandas Ltd., office on mill premises. Mills, Kokhra Mehmedabad, Ahmedabad.
Rustom Jehangir Vakil Mills Co., Ltd., outside Delhi Gate, Ahmedabad.
The Sarangpur Cotton Mfg. Co., Ltd., No. 1 & No. 2 Mills—Ahmedabad.
Saraspur Mills, Ltd. (formerly Saraspur Manufacturing Co., Ltd.), Mg. Agents: Lalbhai Dalpatbhai Sons & Co., Saraspur Road, Ahmedabad 2.
Shorrock Spg. & Mfg. Co., Ltd., Agents: Mafatlal Chandulal & Co. (Ahmedabad) Ltd., Asarwa Road, Ahmedabad.
Shri Ambica Mills Ltd., Nos. 1 & 2 (formerly Chandrakant Mills Ltd.), Agents: Harivallabhdas Kalidas & Co., Kankaria Loco Siding, Ahmedabad.
Shri Arbuda Mills Ltd., Rakhial Road, Ahmedabad 10.
Silver Cotton Mills Co., Ltd., Agents: Gopalbhai Balabhai & Co. Ltd., Kankaria Loco Siding, Ahmedabad.

SRI VIVEKANAND MILLS LTD., Rakhial Road, Ahmedabad 10. Managing Directors: Shri C. N. Munshaw, and Shri B. N. Munshaw. Spindles: 25988, Looms: Ordinary 466; Automatic 24. Manager: I. S. Devashrayee.

Tarun Commercial Mills Ltd., (formerly Gujarat Spg. & Wvg. Co., Ltd.), outside Kalupur Gate, Ahmedabad.
Vijay Weaving Works (Vijay Fabrics), 676/12, Railwaypura, Ahmedabad.
Vijaya Mills Co., Ltd., Agents: Haridas Achratlal & Co., Ltd., Naroda Road, Ahmedabad.
Vikram Mills, Ltd., Agents: Ramanlal Lallubhai, Ltd., outside Saraspur Gate, Post Railwaypura, Ahmedabad.

COTTON AND CLOTH WASTE MERCHANTS

A. H. & Co., 697/13, Dhanlaxmi Market, Reid Road, Ahmedabad.
Ajanta Agencies, Pitamber Bhuvan, Raj Mahal Road, Ahmedabad.
Amratlal Babulal & Co., Kalupur, Rice Market, Ahmedabad.
Anjana & Co., C/o Somchand Vadilal, Kalusini Pole, Kalupur, Ahmedabad.

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Arvindbhai & Co., Virchand Dipchand's Haveli, Ahmedabad.
Babubhai Bhagat & Co., C/o Babubhai Mangaldas Bhagat, on the side of Bhaduat Nagar Colony, Maninagar, Ahmedabad.
Barot Bros. & Co., Sani Sadan, Sarangpur, Ahmedabad.
Bhagat & Sons, Kalupur, Near Nava Darwaja, Ahmedabad.
B. P. Trading Co., 715/4, Sakar Bazar, Ahmedabad.
B. Shashikant & Co., Parabadini Pole, Raipur, Ahmedabad.
Chamanlal Sarabhai & Co., Tribhovan Market, Ahmedabad.
Chandulal & Sons, 40/3, Vidya Bhuvan, Manekchowk, Ahmedabad.
Chimanlal & Sons, Cross Lane, Railwaypura, Ahmedabad.
C. Damodardas & Co., Prabodh Mansion, Dana Bunder, P. O. Box No. 5050, Ahmedabad.
C. Doctor & Co. P. Ltd., Khokhra Mehemadabad, Ahmedabad 8.
C. Jeram & Co., 1685, Khadia Road, Ahmedabad.
C. Kalidas Co., 651/2, Patel Market, Sakar Bazar, Ahmedabad.
C. M. Shah & Co., Opposite Nava Dhakka, Ahmedabad.
C. Vadilal Company, Raipur, Kameshwar's Pole, Ahmedabad.
Devico Traders, Inishat, Shahibagh, Ahmedabad.
Dhirajlal & Co., C/o Chhaganlal Jivabhai Lakumb, 519, Gangadhiani Pole, Sankadi Sheri, Ahmedabad.
Geeta Traders, 1685, Khadia Road, Opp. Pada Pole, Ahmedabad.
H. Patel Co., Lalavasa's Pole, Ahmedabad.
H. P. Bros., Opp. English Cinema, Panchkuwa, Ahmedabad.
H. Shantilal & Co., C/o Manubhai Narotamdas Co., Zaverivad, Ahmedabad.
H. Velshibhai & Sons, Kalupur, Baluchavad, Khoja's Haveli, Ahmedabad.
Haridas Kalyanji & Co., Kapasia Bazar, Ahmedabad.
Hiralal Maneklal & Co., Doshivada Street, Ahmedabad.
Indian Produce Export Co., Amblini Pole, Raipur, Ahmedabad.
Indian Waste Products, Central Hotel Bldg., Lal Darwaja, Ahmedabad.
J. Maganlal & Co., Zaverivad, Satbhaiya's Haveli, Ahmedabad.
Jyoti Trading Co., 1312, Havelini Pole, Raipur, Ahmedabad.
Jyotindra Ramanlal Co., Pushpakunj Society, Kankaria, Ahmedabad.
Kirankumar & Co., C/o Prataprai Keshavlal, Mandvi's Street, Sametshikhar's Pole, Ahmedabad.
Kiritkumar Gordhandas & Co., 699, Kothari Pole, Richey Road, Ahmedabad.
Kiritkumar Lalbhai, C/o Somchand Hirachand, Kuvavalo Khancho, Chippa Pole, Ahmedabad.
Lachhavani & Co., Kapasia Bazar, Ahmedabad.
Laxmichand Valabhai & Co., Rangwala Bldg., Kalupur, Ahmedabad.
M. Bhailal & Co., Near Idga Chowky, Ahmedabad No. 11.
M. Dashrathlal & Co., 488/22/2, Lallubhai Karsondas Trust Bldg., Revdi Bazar, Ahmedabad.
M. Mangaldas Co., C/o Nanalal Mansukhram, Manekchowk, Ahmedabad.
M. Ranchhodlal Co., C/o Haridas Kalyanji Co., Kapasia Bazar, Ahmedabad.
Manilal M. Shah & Co., C/o C. M. Shah, Kalupur, Ahmedabad.
Mansuri Mohomad Yusuff & Co., C/o Mansuri Pirbhai Rasulbhai, Dhalgarvad, Ahmedabad.
Manubhai & Co., Shantinath's Pole, Hajapatel's Pole, Ahmedabad.
Manubhai Narotamdas Co., 2972, Ratan Pole, Zaverivad, Ahmedabad.
Manubhai Shantilal & Co., C/o Manubhai Somabhai, Chippa Pole, Ahmedabad.
M. A. Gandhi & Co., Railwaypura, Near Kansara's Dehla, Ahmedabad.
Mohanlal Lallubhai & Co., In Bazar, Visnagar, Ahmedabad.
Nanalal & Sons, Opp. Jumma Masjid, Ahmedabad.
N. Naranda's Company, Purshkarna's Pole, Near Bala Hanuman, Ahmedabad.
Narharilal Rajnikant's Co., Ratan Pole, Sheth's Pole, Ahmedabad.
Neptune Trading Co., 656/4/4, Kapasia Bazar, Ahmedabad.
P. Das & Sons, Outside Vagheshvari's Pole, Raipur, Ahmedabad.
Pankaj Trading Co., Raipur, Kameshwar's Pole, Ahmedabad.
P. Navinchandra & Co., 142, Fatasani Pole, Hirabhai's Pole, Gandhi Road, Ahmedabad,
Pradipkumar & Co., C/o Balubhai Dahyabhai Mamunask's Pole, Kalupur, Ahmedabad.
Prashant Gauttam & Co., C/o Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad.
Pravinchandra Ramanlal & Co., C/o S. R. Bros., 111/29, Ratan Pole, Ahmedabad.
Rajnikant Ramanlal & Co., 2002, Ashapuri Khancho, Dhalni Pole, Ahmedabad.
R. Kantilal Co., 1881, Padapole, Gandhi Road, Ahmedabad.
Ramchandra & Co., Kapasia Bazar, Ahmedabad.
Rameshchandra & Co., Rice Market, Kalupur, Ahmedabad.
Sept Textile Products India Ltd., Mehebub Bagh, Shahibagh, Ahmedabad.
Shah Banker & Co., 487/26, Revdi Bazar, Ahmedabad.
S. H. & Co., 790/1, Hajapatel's Pole, Kalupur, Ahmedabad.
Shantilal & Co., Kapasia Bazar, Kanuga Mansion, Ahmedabad.

SHANTILAL & CO., Cotton & Cloth Waste Merchants, 1594, Dhanasutar Street, Ahmedabad. Regd. S.T. No. N10 A247. Grams : "ALLWASTE."

Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad.
Shodhan Bros., Panchvati, Ellis Bridge, Ahmedabad.
Subash Bros., C/o D. H. Yoddha, 962, Sankdi Sheri, Opp. Hajira Pole, Ahmedabad.
Surendra Manilal & Co., Panjara Pole, Ratan Pole, Ahmedabad.
Surendra Mayabhai Teli & Co., Sakar Bazar, Ahmedabad.
Textile Trades Agency, 2334, Makerivad, Relief Road, Ahmedabad.
Tulsudas Maneklal's Co., C/o Maneklal Jiotaram, Saraspur, Pipla Pole, Ahmedabad.
United Stores Trading Co., Station Road, Deepak Chambers, Ahmedabad.
United Trading Co., Doctor Motibai Road, Mulchand Asharam's Bungalow, Opp. Madhu Baugh, Ahmedabad.
Vanguard Traders, Jeshingbhai's Vadi, Gheekanta Road, Ahmedabad.
Vasantlal & Co., Bharatkhand Cotton Mill, Naroda Road, Ahmedabad.
Vinodchandra & Co., Sarangpur, Talia's Pole, Nanavati's Khancha, Ahmedabad.
Westport Agency, Shri Kunj Kalyan Society, Ellis Bridge, Ahmedabad.

CUTLERY MERCHANTS

Brahmashatriya Trading Co., Ratanpol Naka, Ahmedabad.
C. Mehta & Sons, Ratanpol Naka, Ahmedabad.
Desai & Co., Ratanpol Naka, Ahmedabad.
Gujarat Cutlery Stores, Pankore Naka, Ahmedabad.
Gulabchand & Co., Manekchowk, Ahmedabad.
Indian Cutlery Mart, Ratanpol Naka, Ahmedabad.
Nyalchand Amratlal & Co., Ratanpol Naka, Ahmedabad.
P. Mangaldas & Co., Bala Hanuman, Ahmedabad.
Rajparwala Brothers, Manekchowk, Ahmedabad.
Shantilal & Co., Gandhi Road, Ahmedabad.

CYCLES AND CYCLE ACCESSORIES

Ahmedabad Cycle and Motor Trading Co., Ltd., Richey Road, Ahmedabad.
Allies Cycle & Motor Co., Inside Panchkuva, Ahmedabad.
All India Cycle & Motor Co., Inside Panchkuva, Ahmedabad.
Bharat Cycle & Motor Co., Richey Road, Ahmedabad.
Goodluck Cycle Co., Outside Panchkuva, Ahmedabad.
Gujarat Cycle & Motor Co., Richey Road, Ahmedabad.
H. Parikh & Co., Char Rasta, Ahmedabad.

JITENDRA TRADING CO., Khadia Char Rasta, Near Jethabhai Pole, Ahmedabad.

K. B. Modi & Co., Khadia Char Rasta, Ahmedabad.
Krishna Cycle & Motor Co., Old Mahajanwada, Ahmedabad.
Manubhai Patel & Co., Inside Panchkuva, Ahmedabad.
Metro Cycle Co., Panchkuva, Ahmedabad.
Model Cycle Co., Khadia Char Rasta, Ahmedabad.
Modern Cycle Stores, Relief Road, Ahmedabad.
National Cycle & Motor Co., Khadia, Char Rasta, Ahmedabad.
Natwerlal B. Dave & Co., Ltd., Khadia, Char Rasta, Ahmedabad.

NEW IMPERIAL CYCLE WORKS, Inside Panchkuwa, near English Cinema, Ahmedabad. Phone : 20633; Leading Wholesale and retail dealers in cycles, Tricycles, Prams, Scooters, Push chairs, Baby-cars & Parts thereof.

Niranjan Cycle Co., Richey Road, Ahmedabad.
Popular Trading Co., Inside Panchkuva, Ahmedabad.
Rajnagar Cycle Stores, Reid Road, Ahmedabad.
Reliable Cycle & Motor Co., Khadia, Char Rasta, Ahmedabad.
Royal Cycle Importing Co., Pankore Naka, Ahmedabad.
Sarabhai & Co., Richey Road, Ahmedabad.
Sarabhai, C., & Co., Richey Road, Ahmedabad.
Senior Cycle Trading Co., Panchkuva, Ahmedabad.
Shah Brothers, Pankore Naka, Ramakada Market, Ahmedabad.
Shah Cycle Stores, Richey Road, Ahmedabad.
Shah Trading Co., Ltd., Khadia, Char Rasta, Ahmedabad.
Shilpi Cycle Agency, Panchkuva, Khadia, Char Rasta, Ahmedabad.
Sun Saddle Cover Works, Khadia Char Rasta, Ahmedabad.

UNITED CYCLE & MOTOR CO., 1962/1 & 4, Panchkuva Road, Ahmedabad 1; Dealers in Cycles, Motor cycles, Mopeds & Autocycles, Rubber Tyres & Tubes for Buses, Trucks, Motor Cars & Motor Cycles, Parts & accessories, Electrical lamps, Garage Tools and Thread forming Tools and allied lines.

Vijay Cycle Co., Richey Road, Ahmedabad.
Western India Cycle Agency, Near Pada Pol, Ahmedabad.

DAMPCOURSING

GLADSTONE LYALL & CO., LTD.—Agency Office, Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager : CMDR. J. S. Simmons. Head Office : 4, Fairlie Place, Calcutta.

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DIESEL ENGINES

FEROZE P. CHAHEWALLA, Kastoorbhai Blocks, Lal Darwaja, Ahmedabad. Phone : 3082; Grams : "EFFICIENT"; Distributor for Gujarat for Genuine Spare Parts of Armstrong Siddeley Diesel Oil Engines.

Hind Hardware Stores, Kadia Building, Relief Road, Ahmedabad.
Mistry Ambalal Jetharam, Iron and Brass Factory, Gheekanta Road, Ahmedabad.
Moulding Engineering Co., Shahpur Mills Compound, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.
Ranjit Electric and Engineering Corporation, Madina House, Near Jakaria Masjid, Relief Road, Ahmedabad.
S. Kumar & Co., Kutub Manzil, Relief Road, Ahmedabad.
S. Sutaria & Co., 697/32-6, Reid Road, Ahmedabad.
Voltas Limited, Mirzapur, Ahmedabad 1.

DYE MERCHANTS

PARIKH & CO., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

DYEING AND PRINTING COMPANIES

Ahmedabad Dyeing and Printing Ltd., Dudeshwar Road, Ahmedabad.
Ahmedabad Textile Engraving Works, New Cotton Mills Compound, Ahmedabad.
Hindustan Calico Engraving Works, 1332, Tajpur, Nadiawad, Ahmedabad.
Honesty Calico Printers, New Cotton Mills No. 1, Kankaria Road, Ahmedabad.
Mehta Dyeing & Printing Works, New Cotton Mills No. 1, Raipur Gali, Ahmedabad.
P. R. Dyeing and Printing Works, Dasha Disha Wadi, Astodia Chakla, Ahmedabad.
Rajendra Dyeing and Printing Mills, Madhubhai Colony, Saraspur, Ahmedabad.
Shree Laxmi Vijay Dye Works, 196, Galiar's Street, Raipur, Ahmedabad.
Shri Arunodaya Dyeing Works, Dudeshwar Road, Ahmedabad.

ELECTRICAL ENGINEERS, CONTRACTORS AND ELECTRIC GOODS DEALERS

AASHRA ELECTRIC CO., Importers and Wholesale Dealers of Electrical goods, 5130, Gandhi Road, opp. Cinema De France, Ahmedabad 1.

A. B. H. Traders Agency, Bala Hanuman, Gandhi Road, Ahmedabad.
Ahmedabad Electric Stores, Patasa Pole, Gandhi Road, Ahmedabad.

AMERS ENGINEERS, Relief Road, Near Jakaria Masjid, Ahmedabad. District Agents : USHA Sewing Machines and Fans. Sole agents: Manu Fans, F. H. Motors, Sewing Machine Motors and other products.

Ambica Agency, Bala Hanuman, Khadia, Ahmedabad.
A. Patel & Bros., Pada Pole, 1st Floor, Ahmedabad.
Arvind Electrical & Textile Stores, Bala Hanuman, Khadia, Ahmedabad.
Asha Electric Corpn., Pada Pole, Ahmedabad.
Asia Electrical Syndicate, Dipak Chambers, Cross Lane, Ahmedabad.
Asra Electric Co., Gandhi Road, Ahmedabad.
Austin Electric Works, Ratan Pole, Ahmedabad.
Bhagyodaya Electric Co., Gandhi Road, Ahmedabad.
Bhai Das Karsandas, Maneck Chowk, Muhrat Pole, Ahmedabad.
Bharat Electric Co., Deepak Chambers Cross Lane, Ahmedabad 2.
Bharati Electric Stores, Mandvi's Pole, Ahmedabad.
Bhupendra Bros., Bala Hanuman, Khadia, Ahmedabad.
Bodiwalla Bros., Opp. Pada Pole, Ahmedabad.
British Insulated Callenders Cable Co. Ltd., Khadia, Char Rasta, Ahmedabad.
Chitra Electric Trading Co., Vasulaxmi Bharat Colony, Navjivan, Ahmedabad 14.
Choksi Electric Co., Khadia, Char Rasta, Ahmedabad.
Chokshi Trading Co., 2754/2, Relief Road, Near Pachhia's Pole, Ahmedabad.
Chotubhai Ibrahim Lightwalla, Ratan Pole, Junction Gandhi Road, Ahmedabad.
C. J. Patel & Co., Khadia, Char Rasta, Ahmedabad.
Dawn Trading Co., Panch Kuva, Kapad Bazar, Ahmedabad.
Electrical Syndicate, Opp. Model Talkies, Gandhi Nagar, Ahmedabad.
Electro Tacties & Engineering Co., Opp. Madhav Baugh, Ahmedabad.
Empire Electric Co., Pada Pole, Gandhi Road, Ahmedabad.
Empire Electric Stores, Model Cinema, Gandhi Road, Ahmedabad.
Electric Mechanical Industries, Opp. Model Talkies, Gandhi Road, Ahmedabad.
Expert Electric Co., Dhand, Sutar Pole, Saraya Pole, Ahmedabad.
Fine Electric Co., Pada Pole, Gandhi Road, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad 2.
Gujarat Electric Co. (Private) Ltd., Patasa Pole, Gandhi Road, Ahmedabad.
Gautam Electric Co., Khadiya, Sevakani Wadi, Ahmedabad.
G. E. C. India Ltd., Relief Road, Opp. Relief Cinema, Ahmedabad.
Gopani & Co., Char Rasta, Khadia, Ahmedabad.
Hathisingh Engineering, Co., Laldarwaja, Ahmedabad.
Hind Engineering Co., Mamu Naik's Pole, Ahmedabad.
Hiralal & Sons, Pada Pole, Gandhi Road, Ahmedabad.
I. B. Lightwalla, Manek Chowk, Badshah Hajira, Ahmedabad.
Indian Cable Co., Ltd., P. Box 33, Industrial Assurance Bldg., Gandhi Road, Ahmedabad.
Indian Electric Co., Bala Hanuman, Gandhi Road, Ahmedabad.
Industrial Hire Purchase Corpn. (Private) Ltd., Relief Road, Anand Bhuvan, Ahmedabad.
I. K. Radio Elect. & Eng. Co., Jamalpur Punchpipli.
International Electric Equipment Co., Reid Road, Opp. Police Chowky, Ahmedabad.
Jawahar Electric Stores, Kalupur, Dhikva Chouki, Ahmedabad.
Jayant Electric Machinery Co., Hajapatel's Pole, Ahmedabad.
Jaybharat Electric Syndicate, Relief Road, Opp. Krishna Cinema, Ahmedabad.
Jayhind Electric Stores, Manek Chowk, Mandvi Pole, Ahmedabad.
Jayendra Electric Stores, Gheekanta Road, Ahmedabad.
Jayshree Trading Co., Khadia, Char Rasta, Ahmedabad.
Jupiter Electric Mart, Bala Hanuman, 1st Floor, Ahmedabad.
Jyoti Electric Trading Co., Patasa Pole, Gandhi Road, Ahmedabad.
Kalpana Electric Stores, Gheekanta Road, Ahmedabad.
Kapadia Electric Works, Bala Hanuman, Gandhi Road, Ahmedabad.
K. M. Engineering Co., Kuwara, 1st Floor, Ahmedabad.

KRISHNA KUMAR & CO., 1092-2, Tilak Road, Gundi's Pole, Tarkas Building, Ahmedabad.

Krishna Electric Stores, Raipur Chakla, Ahmedabad.
Kumar Trading Co., Dhudhia Buildings, 2nd Floor, Ahmedabad.

LUCENT TRADERS, Anand Bhuvan, Relief Road, Ahmedabad.

Madan Electric Co., Gheekanta Road, Delhi Chakla, Ahmedabad.
Mahalaxmi Electric Stores, Sarangpur, Bukharas' Pole, Ahmedabad.
Mahalaxmi Electric Syndicate, Mamu Naik's Pole, Gandhi Road, Ahmedabad.
Manubhai Parikh & Co., Badshah Bhavan, Kadia Kui, Ahmedabad. 1.

MAYUR ELECTRIC & RADIO CORPORATION, Electric Goods & Radio Dealers. Opp. Shamla's Pole, Raipur, Madan Gopal Haveli Road, Ahmedabad 1.

Mehta Electric Co., Ratanpoli Junction, Gandhi Road, Ahmedabad.
Mira Electric Co., Cinema-D-France, Gandhi Road, Ahmedabad.
M. Sardar Electric Co., Opp. Model Talkies, Ahmedabad.
M. Sukal & Co., Jordan Road, Delhi Chakla, Ahmedabad.
Munjal Electrical Stores, Relief Road, Inside Ratanpole, Ahmedabad.
National Electric Stores, Patasa Pole, Gandhi Road, Ahmedabad.
National Electric Trading Co., Model Cinema, Gandhi Road, Ahmedabad.
Navin Electric Stores, Mandvi Pole, Nagji Bhunder Pole, Ahmedabad.
Navjivan Electric Stores, Tagia Mahajan, Panchkuva, Ahmedabad.
New India Electric Co., Bala Hanuman, Gandhi Road, Ahmedabad.
Nima Trading Co., Cross Lane, Revdi Bazar, Ahmedabad 2.
Noble Trading Agency, Patasa Pole, Gandhi Road, Ahmedabad.
Parekh Electric Co., Panch Kuva, Kapad Bazar, Ahmedabad.
Parikh Trading Co., Mamu Naik's Pole, Gandhi Road, Ahmedabad.
Patel Bros., Opp. Burmah-Shell, Raikhad, Ahmedabad.
P. Patel & Sons, Pada Pole, 1st Floor, Ahmedabad.
Pradip Electric Stores, Pada Pole, Gandhi Road, Ahmedabad.
Prakash Electric Stores, Patasa Pole, Gandhi Road, Ahmedabad.
Premier Electric Agency, Patasa Pole, Gandhi Road, Ahmedabad.
Premier Trading Co., Gandhi Road, Opp. Nagina Pole, Ahmedabad.
Purnima Electric Stores, Near Jumma Masjid, Gandhi Road, Ahmedabad.
Rajendra Electric Stores, Panch Kuva, Near English Cinema, Ahmedabad.
Rajnagar Electric Co., Patasa Pole, Gandhi Road, Ahmedabad.
Regal Trading Co., Mahebub Society Bldg., Kadia Kui, Tilak Road, Ahmedabad.

R. G. BHOW & CO., Gandhi Road, Ahmedabad. Authorised Dealers of Philips and Osram Lamps, Tubes, etc., Stockists of G.E.C. Fans, Fixtures and accessories.

Reliance Electric Co., Near Jumma Masjid, Gandhi Road, Ahmedabad.
Royal Electric Co., Relief Road, Opp. Dhana Sutar Pole, Ahmedabad.
Shakti Electric Industries, Gita Mandir Road, Ahmedabad.
Sanghvi Electric Stores, Bala Hanuman, Khadia, Ahmedabad.
Shakti Electric Stores, Dariyapur, Chippa Pole, Ahmedabad.
Somchand D. Shah, Manek Chowk, Madangopal Haveli, Ahmedabad.
S. P. Bhow & Co., Near Jumma Masjid, Gandhi Road, Ahmedabad.
Standard Electric Co., Three Darwaja, Bawa Latiff Gully, Ahmedabad.
Star Radio Electric Co., Relief Road, Opp. Relief Cinema, Ahmedabad.
Star Electric Co., Patasa Pole, Gandhi Road, Ahmedabad.
Star Radio Electric Co., Star House, Relief Road, Ahmedabad.

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Sun Electric & Motor Stores, Near Model Cinema, Ahmedabad.
Sun Electric Stores, Patasa Pole, Gandhi Road, Ahmedabad.
Suren & Co. Opp. Mahavir Temple, Gandhi Road, Ahmedabad.
Swastic Mfg. Co., Near English Cinema, Ahmedabad.

SWASTIK ENGINEERING CO., Kanti Bhuvan, Inside Panchkuva, Ahmedabad.

Taroon Electric Industries, Pada Pole, 1st Floor, Ahmedabad.
Thaker Electric Stores, Fuvara, Gandhi Road, Ahmedabad.
Uma Electric Co., Raja Mehta's Pole, 1068, Totlaji's Pole, Ahmedabad.
Union Electrical & Engineering Co., Ghee Kanta Road, Ahmedabad.
U. T. Gopani & Sons, Khadia Char Rasta, Modhwadi, Ahmedabad.
Vallabh Electric Stores, Cinema-D-France, Gandhi Road, Ahmedabad.
Venus Electric Co., Opp. Cinema-D-France, Gandhi Road, Ahmedabad.
Vijay Electric Co., Gandhi Road, Phatasapole, Ahmedabad.
Vinayak Electric Co., Mamu Naik's Pole, Gandhi Road, Ahmedabad.
Vinay Electric Company, Near Pada Pole, Gandhi Road, Ahmedabad.
Vinod Electric Industries, Shakkari Lati Bazar, Gita Mandir Road, Ahmedabad.
V. Kantilal, Deepak Chambers, Cross Lane, Ahmedabad.
V. V. Shah & Co., Mamu Naik's Pole, Ahmedabad.

ELECTRICAL AND MECHANICAL GOODS MERCHANTS

HUTHEESING ENGINEERING CO., Lal Darwaja, Ahmedabad. Starters, Motors, Wires & Cables, V-belts and Bearings.

ELECTRICAL INDUSTRIES

THE AHMEDABAD ELECTRICITY COMPANY, LTD.

Agents: Messrs. Killick Industries Ltd., Home Street, Fort, Bombay 1.
Office: "Electricity House", Lal Darwaja, Post Box No. 37, Ahmedabad 1.
K. N. Paulin, M.B.E., M.I.E.E., Resident General Manager.
C. J. Scudamore, M.I.E.E., M. Inst. F., Chief Engineer.
R. R. Ferris, Assoc. I.E.E., Assistant Chief Engineer and Manager.
Brig. N. D. Bilimoria, Administration Manager.
V. B. Shah, B.Sc., D.I.I.Sc., A.M.I.E.E., Assistant Chief Engineer.
J. G. Patel, A.M.I.E.E., Commercial Engineer and Manager.
D. C. Bhardwaj, B.Sc. (Eng.), A.M.I.E.E., Power Station Superintendent.
B. S. G. Acharya, B.Sc., A.M.I.E.E., Mains Engineer.
H. D. Mehrotra, M.A., B.Com., Chief Accounts Officer.
Power House: Sabarmati, Ahmedabad 5.
Central Administration Dept.: 5, Graham Road (4th floor), Ballard Estate, Post Box No. 109, Bombay 1.

Electric Control Gear Mfg. Co., New Cotton Mill No. 1 Compound, Kankaria Road, Ahmedabad.
Vinod Electrical Industries, Sahakari Lati Bazar No. 2, Jaganath Road, Ahmedabad 1.

ENGINEERING GOODS AND MACHINERY MERCHANTS

REGAL TRADING CO., Mehbub Building, Kadia Kui, Tilak Road, Ahmedabad 1.

ENGINEERS AND CONTRACTORS

A. B. BROTHERS, 129, Gheekanta Road, Pittalia Bamba, Ahmedabad 1.

ARVINDKUMAR & CO., Engineers & Contractors, Singaporwala Building, 3rd Floor, Khadia Char Rasta, Ahmedabad. Phone: 4670.

Bhagavati Construction Co., Astodia Chakla, Ahmedabad.

C. B. SUTARIA BROS., Motilal Hirabhai Market Cross Lane, Opp. Railway Station, Ahmedabad.

G. S. Gupta & Sons, Raipur, Ahmedabad 1.

GAJJAR & CO., Engineers & Contractors, opp. Ramji Mandir, Maninagar, Ahmedabad 8.

JAGDISH ENGINEERING WORKS, Behind Dariapur Tower Ahmedabad 1. Engineers & Contractors, Specialists of Indigenous Starch & Chemical Machineries and its Spare Parts.

K. B. MEHTA, Dhun House, Bhadra, Ahmedabad 1.

Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad. Phone: 3272. Vithaldas Chambers, Bruce St., Fort, Bombay 1.
Shree Mahalaxmi Engineering Works, Outside Delhi Gate, Opp. Painter Garden, Ahmedabad 1.

UNITED ENGINEERING WORKS, P.O. Box No. 1023, Ramkumar Mills Compound, Saraspur, Ahmedabad 2.

FIRE FIGHTING EQUIPMENTS

ABDUL SAMAD ABDUL KADAR & SONS, Panchpatti, Kalupur, Ahmedabad 1. Phone: 4543; Grams: "FOOTVALVE." Manufacturers of Gun-Metal and Cast Iron Valves & Cocks for Water, Steam, Oil, chemicals & Boiler Mountings, Pipe Fittings, Sanitary Fittings, Fire Fighting Appliances, Hose Fittings, Agricultural Implements and Textile Machinery Spares.

FURNITURE UPHOLSTERY DEALERS

NATIONAL MOTOR ACCESSORIES AGENCY, 1819, Three Gates, Ahmedabad 1.

GLASS MERCHANTS

Abdulrahman Abdul Kadar, Gol Limda, Anjuman High School, Ahmedabad.
Abdul Rahman Amirkhan, Near Central Talkies, Ahmedabad.
Bawa Glass & Crockeries P. Ltd., Under Gandhi Road Bridge, Ahmedabad.
Bechardas Durlabhdas, Opp. Pitholiya Babha, Gheekanta, Ahmedabad.
Bharti & Co., Near Madan Gopal Haveli, Ahmedabad.
Bhavsar Baldevdas Ambalal, Delhi Darwaja Baher, Ahmedabad.
Bhavsar Somchand Khodidas, Under Central Bank, Gandhi Road, Ahmedabad.
Bhupat Prasad Narandas Frame Maker, Opp. Fuvara, Gandhi Road, Ahmedabad.
Bombay Picture House, Near Raja Mehta Pole, Ahmedabad.
Chhanalal Chunilal Bhavsar, Gandhi Road, Duthia Bldg., Ahmedabad.
Chimanlal Chhotalal & Co., Under Gandhi Road Bridge, Ahmedabad.
Chimanlal P. Brothers, Under Gandhi Road Bridge, Ahmedabad.
Chunilal Durlabhram, Opp. Bala Hanuman, Ahmedabad.
Chunilal Maganlal & Co., Patasapole, Gandhi Road, Ahmedabad.
Damodardas Narandas Kachwala, Delhi Chakla, Ahmedabad.
Eagle Glass Co., Saipole, Pavchpatti, Kalupur Road, Ahmedabad.
Hargovinddas Sankarlal Patel, Opp. Nisa Pole, Relief Road, Ahmedabad.
Hiralal Kanji Bhai, Saraspur Vasan Seri No. 1268, Ahmedabad.
Indian Picture House, Under Gandhi Road Bridge, Ahmedabad.
Keshavlal Jethalal & Bros., Opp. Bala Hanuman, Gandhi Road, Ahmedabad.
K. G. Kachwala, Kalupur Road, Tank Sal, Ahmedabad.
Natvarlal Nagindas Shah, Khadia, Ahmedabad.
Novelty Framing, Opp. Relief Cinema, Ahmedabad.
N. Rasiklal & Co., Opp. Patasa Pole, Gandhi Road, Ahmedabad.
Patel Framing Mart, Daripur, Khadia Naka, Shop No. 2136/2/3, Ahmedabad.
Patel Glass Traders, Ratan Pole, Suraj Mal Sheth Dehla, Ahmedabad.
P. Jayantilal & Co., Jardan Road, Ahmedabad.
Prabhat Framing Mart, Relief Road, Ahmedabad.
Premchandbhai Bhogilal Modi, Under Gandhi Road Bridge, Ahmedabad.
Ramanlal C. Kachwala, Under Gandhi Road Bridge, Ahmedabad.
Ratilal Ranchhoddas, Khadia Char Rasta, Near Verai Pada, Ahmedabad.
Sankar Looking Glass Works, Nagori Shala, Ahmedabad.
Thakar Glass Fitters, Raipur, Vageswar Pole, Ahmedabad.
Trambaklal Mulsankar Mehta, Dariapur, Khadia Naka, Vachli Kothseri, Ahmedabad.

TRIBHOVANDAS MANEKLAL TAKTAWALA, Taktawala House, Gandhi Road, Ahmedabad.

Vallabhdas Girdhar Lal, Opp. Dedka Pole, Near Madan Gopal Haveli, Ahmedabad.
Vinayak Glass House, Gandhi Road, Opp. Fuvara, Ahmedabad.
Vora Brothers, Tank Sal, Kalupur Road, Ahmedabad.

GRAMOPHONE DEALERS

Gandhi & Sons, Pankore Naka, Ahmedabad.
Hiralal B. Trivedi & Co., Relief Road, Ahmedabad.
K. B. Vakil & Co., Gandhi Road, Ahmedabad.

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LEOPHONE TALKING MACHINE CO., THE, 46, Gandhi Road, Ahmedabad 1. Estd. 1908. Biggest & Cheapest Wholesaling Gramophone House in India. Grams: "LEOPHONE."

Mehta Phone Talking & Machine Co., Gandhi Road, Ahmedabad.
M. J. Vakil & Co., Gandhi Road, Ahmedabad.
New Bharat Phone Co., Pankore Naka, Ahmedabad.
Rajnagar Gramophone & Radio Co., Gandhi Road, Ahmedabad.
Royal Harmonium & Gramophone Co., Gandhi Road, Ahmedabad.
V. Bright & Co., Gandhi Road, Ahmedabad.

GUN-METAL AND CAST IRON COCKS AND VALVES

NEO ENGINEERING WORKS, Near Indian Air Lines Office, Mirzapur Road, Ahmedabad 1. Manufacturers of Gun-Metal & Cast Iron Cocks and valves pertaining to oil, water and Steam appliances and other pipe fittings.

HANDLING EQUIPMENT MANUFACTURERS

TEXTILE MACHINERY MANUFACTURING COMPANY, Engineers and Merchants, Lal Cinema Compound, Gomtipur Road, Ahmedabad 10.

HARDWARE & PAINT MERCHANTS

Abdul Rasul Mulla Lukmanji, 18, Lokhand Bazar, Ahmedabad.
A. Chokshi & Sons, 1587, Shri Ramji Sheri, Khadia, Ahmedabad.
Ahmedabad Iron & Hardware Mart, Under Fernandez Bridge, Lokhand Bazar, Ahmedabad.
Ahmedalli E. Rangwalla Co., Opp. Bungall Pole, Raipur.
Akbarali Mohammadali, Opp. Jumma Masjid, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad 2.
Ambica Traders, Revdi Bazar, By the side of Exchange Bank, Ahmedabad.
Amithalal Ramdas Patel, Lokhand Bazar, Ahmedabad.
Anker Paint Mfg. Co., Nagar Bodys' Pole, Raipur, Ahmedabad.
Aswin Hardware Mart, Raipur, Opp. Revabai Hospital, Ahmedabad.
Atmaram Dholidas, In Saraspur Bazar, Ahmedabad.
Babubhai & Co., Lathi Bazar, Sarangpur, Ahmedabad.
Baldevdas Chaganlal, Astodia Chakla, Ahmedabad.
B. C. Mashruwalla & Bros., 657, Kapasia Bazar, Ahmedabad.
Bechardas Hargovandas Patel, 2724, Lokhand Bazar, Ahmedabad.
Bechardas Nathalal, 38, Lokhand Bazar, Ahmedabad.
Bhagwati Traders, 675, Cross Lane, Sakar Bazar, Ahmedabad.
Bharat Kumar Amrutlal Kanielwalla, C/o Arvind Kumar Amritlal, 1749, Fadia Chokatha, Dhal's Pole, Astodia, Ahmedabad.
B. Lalbhai & Co., 1118, Pankore Naka, Ahmedabad.
C. C. Tulsidas & Co., 38, Lokhand Bazar, Ahmedabad.
C. Govindlal & Co., Revdi Bazar, Kabir Panth Mandir, Ahmedabad.
C. Gordhandas & Co., 455, Panchkuva, Ahmedabad.
Chandulal Somabhai, Outside Kalupur Darwaja, Chokha Bazar, Ahmedabad.
Chimanlal & Co., 1936/2, Sarangpur Chakla, Ahmedabad.
Chimanlal Bulakhidas, Delhi Chakla, Jordan Road, Ahmedabad.
Chotalal Ganpatram, Bungalow No. 89/2, Girdhar Nagar, Shahi Bagh, Ahmedabad.
Chimanlal Chaganlal Shah, Near Madan Gopal Haveli at Devdipole, Ahmedabad.
Chimanlal Chotalal, 2728, Lokhand Bazar, Ahmedabad.
Chimanlal Manilal Shah, Rajendra Chawl, Panchbhai Pole, Ghee Kanta, Ahmedabad.
C. K. Vohra Co., Revdi Bazar, Railwaypura Post, Ahmedabad.
C. Laxmichand & Co., Revdi Bazar, Ahmedabad.
C. S. Vahora Co., 1171, Pankore Naka, Ahmedabad.
Dahyabhai Nanalal Co., Kapasia Bazar, Ahmedabad.
Dineshchandra Chimanlal, 14-15, Lokhand Bazar, Ahmedabad.
D. Prajapathi & Co., Near Tarkas Bldg., Relief Road, Ahmedabad.

EASTERN TRADING AGENCY, Kapasia Bazar, P.O. Railwaypura, Ahmedabad.

F. A. Baldiwalla, Near Jakaria Masjid, New Darwaja, Ahmedabad.
Gokaldas & Sons, 576, Bala Hanuman, Ahmedabad.
Gokaldas Maneckji Contractor, Dada Saheb's Pole, Ahmedabad.
Golwala Bros., Opp. Kapdiwad Bari, Talia Pole, Sarangpur, Ahmedabad.
Hargovandas Mohanlal, 2731, Lokhand Bazar, Ahmedabad.
Harjiwandas Hathibhai Patel, 2727, Lokhand Bazar, Ahmedabad.
Hasan Ali Alibhai Mansuri, 1037/2, Sarangpur Darwaja, Mansuri Dehla, Ahmedabad.
Hasanali Fazal Ali, Lokhandwalla, Lokhand Bazar, Ahmedabad.
Hind Paint & Hardware Mart, Lokhand Bazar, Ahmedabad.
Husenali Sarafali Rangwalla, Pankore Naka, Ahmedabad.
H. Rajanikant & Co., Near R. C. High School, Ghee Kanta Road, Ahmedabad.
Ibrahim Sarafali, Gitamandir Road, Char Rasta, Ahmedabad.
Isufali Amirudin Rangwalla, 1857, Pankore Naka, Opp. Jumma Masjid, Ahmedabad.
Jayantilal Pranlal & Co., Karnamukteshwar Mahadeo Compound, Near Bagicha Mill, Sarangpur, Ahmedabad.
Jethalal Balabhai Shah, Revdi Bazar, Lathi, Ahmedabad.
Jethalal Jaganath Oza, C/o Ahmedabad Stone Supplying Co., Panch Kuva, Char Rasta, Ahmedabad.
Jiwabhai Chaganlal Patel, 43, Lokhand Bazar, Ahmedabad.
J. Ramanalal & Co., 675, Sakar Bazar, Cross Lane, Ahmedabad.
Kachralal Mohanlal, 1169/1, Pankore Naka, Ahmedabad.
Kantilal Balabhai Katpitia, C-8, Sahakari Lalti Bazar, Jaganathji Road, Ahmedabad.
Kantilal Bhikhabhai, Lokhand Bazar, Ahmedabad.
Kantilal Somabhai, 26, Lokhand Bazar, Ahmedabad.
Kanubhai & Co., Shop No. 316/1/1, Bhatti Bari, Lokhand Bazar, Ahmedabad.
Keshavlal Dungerdas Patel, 25, Lokhand Bazar, Ahmedabad.
Keshavlal Somalal Kanielwalla, Lokhand Bazar, Ahmedabad.
Keshavlal & Bros., Lokhand Bazar, Ahmedabad.
Lalubhai Ishwardas, 16, Lokhand Bazar, Ahmedabad.
M. A. Tinwalla & Sons, Kalupur, New Darwaja, Opp. Nagina Pole, Ahmedabad.
Madhusudan Jayantilal & Co., C/o Jayantilal Pranlal & Co., Karnamuktesh Mahadeo Compound, Sarangpur, Ahmedabad.
Mansukhalal Nathubhai Mehta, C/o Mehta Bros., Lokhand Bazar, Ahmedabad.
Miyabhai Abdul Husen & Sons, 1841/42, Pankore Naka, Ahmedabad.
M. B. Patel & Co., Lokhand Bazar, Ahmedabad.
M. K. Patel & Co., 1169, Pankore Naka, Ahmedabad.
Madhavlal Ramdas Patel, 2729, Lokhand Bazar, Ahmedabad.
Mafatlal Dalsukhram, Opp. Dosiwada Pole, Shantilal Bhogilal Meda, Ahmedabad.
Maganbhai Amthabhai Patel, 1177, Pankore Naka, Ahmedabad.
Maneklal Kalidas Sancheti, Panjra Pole, Ahmedabad.
Manilal Dwarkadas, Revdi Bazar, Ahmedabad.
Mansukhlal Keshavlal Shah, Ramesh Hardware Mart, Relief Road, Kadia Kuin, Ahmedabad.
Mahamadali Sultanali Rangwalla, 1890, Opp. Jumma Masjid, by the side of Central Talkies, Ahmedabad.
Mohammad Usman Abdul Karim, Lokhand Bazar, Ahmedabad.
Mohanlal Balabhai, Revdi Bazar, Ahmedabad.

MOHANLAL PRABHUDAS & CO., 696, Reid Road, Ahmedabad.

Nagori & Co., 701, Revdi Bazar, Ahmedabad.
Nanalal Gopaldas, Lokhand Bazar, Ahmedabad.
Narayan Hardware Corporation, Lokhand Bazar, Ahmedabad.
National Hardware & Paint Mart, Pankore Naka, Ahmedabad.
Natvarlal Manilal Patel, Ghee Kanta Road, Bhutt Ambli, Ahmedabad.
Navnitlal Manilal Shah, Dhalpole, Jagabhai Pole, Ahmedabad.
N. G. Contractor, 2732, Lokhand Bazar, Ahmedabad.
N. M. Shah & Co., Pankore Naka, Opp. Jumma Masjid, Ahmedabad.
Ochavlal Gokuldas, C/o H. Ambalal, Lunsawad, Kumbharwada, Ahmedabad.
Ochavlal Gordhandas Shah, Khadia Char Rasta, Vakil Bldg., Ahmedabad.
Patel Naranbhai Ranchoddas, 1168, Pankore Naka, Ahmedabad.
Patel Umedram Ranchoddas, 1167, Pankore Naka, Ahmedabad.
P. Das & Sons, 1041, Raipur, Opp. Wagheswar Pole, Ahmedabad.
Purshotamdas Amtharam Patel, 25, Lokhand Bazar, Ahmedabad.
Rahim Khanji Kikabhai, Lokhandwalla, 44, Lokhand Bazar, Ahmedabad.
Raipur Hardware & Sanitary Mart, Raipur Chakla, Ahmedabad.
Rajbali Nazarali & Sons, Jumma Masjid, Pankore Naka, Ahmedabad.
Rameshbhai Rambhai Patel, No. 1181, Sarangpur, Taliyapole, Ahmedabad.
Ratanlal Manilal Shah, Dhalni Pole, Jagabhaini Pole, Ahmedabad.
Reliance Hardware Agency, Relief Road, Kadia Kuin, Ahmedabad.
Rasiklal & Co., Shop No. 2722, Lokhand Bazar, Ahmedabad.
Reliance Stores & Trading Co., 572/A, Reid Road, Ahmedabad.
R. Kantilal & Co., 238, Haripur, Asarva, Ahmedabad.
R. Nagindas & Co., Mirzapur Road, Opp. Navroji Bldg., Ahmedabad.
Royal Paint Mart, Pankore Naka, Biscuit Gully, Ahmedabad.
R. Vadilal Co., Opp. Station, Kansara Dehla, Ahmedabad.
Saifuddin Rajabali Dahegamwalla, C/o Taher Ali, Sadakali, Lokhand Bazar, Ahmedabad.
Sankalchand Hargovandas, 2719, Lokhand Bazar, Ahmedabad.
Sarafali Amirudin Rangwalla, Pankore Naka, Opp. Jumma Masjid, Ahmedabad.
Sarfali Mulla Tayaballi Karkhanawalla, Outside Sarangpur Darwaja, Near Rly. Nala, Ahmedabad.
Shah Brothers, 1051, Companywalla Market, K. Bazar, Ahmedabad.
Shah Dalal & Co., 572/A, Reid Road, Ahmedabad.
Shakti Paint & Hardware Mart, 1704, Raipur Chakla, Ahmedabad.
S. Shantilal & Co., Pankore Naka, Ahmedabad.
Shankerlal & Co., 2721/1, Lokhand Bazar, Ahmedabad.
Shankerlal Madhavlal Patel, 19, Lokhand Bazar, Ahmedabad.
Shah Patel & Co., Raipur Chakla, Opp. Gate, Ahmedabad.
Shah Prafulchand Babulal, 415, Kalupur, Chokla Bazar, Ahmedabad.
Shakti Iron Mart, Opp. Jekorebai Market, Revdi Bazar, Ahmedabad.

SHANTILAL H. KAMDAR, 487,20, Revdi Bazar, Railwaypura Post, Ahmedabad.

Shankarlal Amichanddas, 2730, Lokhand Bazar, Ahmedabad.
Shivlal Narandas Patel, Lokhand Bazar, Ahmedabad.
Shantilal Vadilal & Co., Astodia Chakla, Ahmedabad.

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Sultanbhai Rasulbhai Mansuri, Delhi Chakla, Jordan Road, Ahmedabad.
Sultanali Gulam Husen & Sons, 289, Beneath Fernandez Bridge, Ahmedabad.
Taherali Sadakali, 2733, Lokhand Bazar, Ahmedabad.
Tayaballi Jiwaji Lokhandwalla, Kalupur Darwaja, Opp. Bhanderi Pole, Ahmedabad.
T. U. Patel & Sons (Pvt.) Ltd., 2727/1, Lokhand Bazar, Ahmedabad.
Vadilal U. Shah, 387, Sarangpur Chakla, Ahmedabad.

HOSIERY MANUFACTURERS

Ameer Hosiery Factory, 25, Madhubhai Colony, Railwaypura, Ahmedabad 2.
Ashok Hosiery Factory, 13A, Bharatkhand Cotton Mill's Compound, Naroda Road, Ahmedabad.
Fine Knitting Co. Ltd., Naroda Road, Ahmedabad.
Ladhawala Hosiery Factory, 449, Kankaria Road, Ahmedabad.
Mehboob Knitting Works, Jotingshah Pir's Pole, Kalupur, Ahmedabad 1.
Pankaj Hosiery Works, Naroda Road, Near Vora's Bazar, Ahmedabad 2.
Shanti Hosiery Works, New Cotton Mills Compound, Kankaria Road, Ahmedabad.
Shree Ambika Hosiery Works, New Cotton Mills No. 1 Compound, Kankaria Road, Ahmedabad.

HOSIERY MERCHANTS

Abdulla Jusab, Opp. Station, Ahmedabad.
Anilkumar Rasiklal, Ratanpole, Jarma Silver Market, Ahmedabad.
Ahmedabad Hosiery Mart, Maskati Market, Ahmedabad.
Asandas Mohanlal, Sindhi Market, Ahmedabad.
Amratlal Nagindas & Co., Relief Road, Shethia Bldg., Ahmedabad.
Babulal Premchand, Sakar Bazar, Ahmedabad.
Bhagwandas Sons, Sindhi Market, Ahmedabad.
Bombay Hosiery Mart, Sindhi Market, Ahmedabad.
C. Chimanlal & Co., Maskati Market, Ahmedabad.
Chhakadlal Maganlal, Jumma Masjid Line, Ahmedabad.
Chandulal Mafatlal & Co., Opp. Chinubhai Bldg., Ahmedabad.
Chhotalal Zaverbhai & Co., Panchkuva, Ahmedabad.
D. Mafatlal & Co., Relief Road, Ahmedabad.
Dilipkumar & Co., Maneckchowk, Ahmedabad.
Dwarkadas & Sons, Maneckchowk, Ahmedabad.
Ghandhi Brothers, Ratanpole, Ahmedabad.
Girdharlal & Co., Sindhi Market, Ahmedabad.
Gohel & Co., Ratanpole, Limboo Pole, Ahmedabad.
Gordhandas Dwarkadas, Sindhi Market, Ahmedabad.
Hajimiya Abdulabhai, Kalupur, Jotingsha Pir's Pole, Ahmedabad.
Janta Hosiery House, 252, Laxmi Bazar, Panchkuva, Ahmedabad.
Jamumal Shamdas, Jakaria Masjid, Relief Road, Ahmedabad.
Jashvantlal & Co., Sakar Bazar, Ahmedabad.
Kalidas Virchand, Relief Road, Ahmedabad.
Kishanlal Ratilal, Outside Kalupur Gate, Ahmedabad.
Mafatlal Vadilal & Co., Panchkuva, Ahmedabad.
Mangaldas Nagindas, Ratanpole, Marchi Pole, Ahmedabad.
Mangaldas & Co., Jakaria Masjid, Relief Road, Ahmedabad.
MEHBOOB KNITTING WORKS, Kalupur, Jotingshah Pir's Pole, Ahmedabad 1. Use MENIT prints and MENITTO Nylon Socks.
Mohanlal Chhotalal, Opp. Jumma Masjid, Ahmedabad.
Mohanlal Gulabchand, Kalupur, Near Hajapatel Pole, Ahmedabad.
Piaga Agency Corpn., Opp. Jumma Masjid, Ahmedabad.
Pitambardas Motiram, Jumma Masjid Lane, Ahmedabad.
Rama Hosiery, Sindhi Market, Ahmedabad.
Rasiklal Dahyabhai, Kalupur, Tanksal, Ahmedabad.
R. M. Jain Hosiery, Mangal Bhuvan, Relief Road, Ahmedabad.
Sarabhai & Co., Sindhi Market, Ahmedabad.
Shri Ambica Hosiery Mart, Kacharia Pole, Ahmedabad.
Velchand Raichand, Kalupur, Tankshal, Ahmedabad.

HOTELS & RESTAURANTS

CAMA HOTEL, Khanpur Road, Ahmedabad. Phones: 4281-82-83; Grams: "HOTELCAMA". Managing Directors: J. R. J. Cama 1. J. R. J. Cama 2. Only Hotel of Recognised Western Standards with all modern amenities situated on river Sabarmati.

HAV-MOR RESTAURANT, Opp. Krishna Cinema, Relief Road, Ahmedabad.

Ritz Hotel, Lal Darwaja, Ahmedabad.

INK MANUFACTURERS

Bharati Products, Vallabh Wadi, Ellis Bridge, Ahmedabad.
Harihar Research Works, Mandvi's Street, Ahmedabad.
Mirani Bros., Lambisheri, Jamalpur, Ahmedabad.
Navyug Book Depot, Gandhi Road, Balahanuman, Ahmedabad.
Ojas Corporation, New Cotton Mill Compound, Outside Raipur Gate, Ahmedabad.
Parikh & Parikh, Opp. Purnima Restaurant, Gandhi Road, Ahmedabad.
Scientific Ink Mfg. Co., Mirzapur Road, Ahmedabad.

IRON & STEEL MERCHANTS

Ahmedabad Iron & Hardware Mart, Below Fernandez Bridge, Ahmedabad.
Bechardas Hargovandas Patel, 2724, Lokhand Bazar, Ahmedabad.
C. K. Vohora & Co., Revdi Bazar, Ahmedabad.
C. Laxmichand & Co., Maskati Market, Ahmedabad.
C. Prabhudas & Co., Revdi Bazar, Ahmedabad.
Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad.
Eastern Trading Agency, Kapasia Bazar, Ahmedabad.
Gokaldas & Sons, Balahanuman, Kaveshwar's Pole, Ahmedabad.
Jayantilal Pranlal & Co., Sarangpur, Karnamukteshwar Mahadev, Ahmedabad.
J. RAMANLAL & CO., Estd. 1939, 675, Sakar Bazar, Cross Lane, Ahmedabad 2. Phone: 3143. Grams: "IRON."
Kashiparekh Bros., Reid Road, Ahmedabad.
K. S. Lokhandwala & Co., Outside Prem Gate, Ahmedabad.
M. A. Tinwala & Sons, Relief Road, Near Zakaria Masjid, Ahmedabad.
MANSUKHLAL NATHUBHAI MEHTA, 529, Lokhand Bazar, Fernandiz Bridge, Ahmedabad.
R. Nagindas & Co., Mirzapur Road, Near Sales Tax Office, Ahmedabad.
Sorabji Hormasji Vakharia & Sons, Sahakari Lati Bazar, Ahmedabad.
S. Shantilal & Co., Pankore Naka, Ahmedabad.
Tata Iron & Steel Co. Ltd., Co-operative Bank Bldg., Near Relief Cinema, Ahmedabad.

LACE MANUFACTURERS

Ahmedabad Lace Works, Madhubhai Mills Compound, Ahmedabad.
Ambalal Lallubhai Trimming & Lace Works, Hathibhai's Wadi, Ahmedabad.
Ambica Lace Works, Ghanchi's Wadi, Dabgharwada, Ahmedabad.
Bhagvandas Maneckchand Lace Factory, Kadva Pole, Dariapur, Ahmedabad.
Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad.
Bipin Border Mfg. Co., Ramkumar Mill Compound, Saraspur, Ahmedabad.
Gujarat Trimming & Lace Works, Astodia Mill Compound, Ahmedabad.
Laxmi Trimming & Lace Works, Madhubhai Mills Compound, Ahmedabad.
Mahendra Lace Works, Jamalpur, Ahmedabad.
National Border Mfg. Co., Madhubhai Mills Compound, Ahmedabad.
Prabhat Lace Works, Dariapur Chakla, Ahmedabad.
Rajkamal Lace Industries, Swaminarayan's Godown, Outside Dariapur Gate, Ahmedabad.
Rajnagar Lace Factory, Next to Prem Darwaja Police Chowky, Ahmedabad.
Sabarmati Lace Works, Outside Dariapur Gate, Ahmedabad.
Sharda Lace Works, Ghanchi's Wadi, Dabgharwada, Ahmedabad.
Star Lace Works, Madhubhai Mills Compound, Ahmedabad.

LEATHER GOODS

Beltex Pvt. Ltd., Ellis Bridge, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad 2.
Goldfield Leather Works, 666/2, Chatra Bhuj Bhavan, Gandhi Road, Ahmedabad.
H. Mansuri & Sons, Post Box 84, Ahmedabad.
JAIHIND LEATHER INDUSTRIES PRIVATE LTD., Reid Road, Railwaypura Post, Ahmedabad 2.
Leather Textilities Ltd., Ellis Bridge, Ahmedabad.
Manoj Kumar & Co., Opp. Oriental Bldg., Relief Road, Ahmedabad.
Standard Leather Products, Dariapur, Dabgarwada, Ahmedabad 1.
SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

LUBRICATING OILS AND GREASES

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
American Oil & Trading Co., Jekeri Building, Revdi Bazar, Ahmedabad 2.
Bihari Bros., Outside Panchkuva, Ahmedabad.
Burmah-Shell Oil Co., Bhadra, Ahmedabad.
Caltex India Ltd., Lal Darwaja, Ahmedabad.
Girdharlal Damodardas & Co., P. Ltd., Opp. Shakerkotda Police Station, Ahmedabad.

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G. M. PATEL & SONS, Caltex Distributors, Kapasia Bazar, Ahmedabad. Head Office : Dabhan Bhagol, Nadiad.

Karmali Janmohamed & Co., Kapasia Bazar, Ahmedabad 2.
National Oil & Trading Co., Kapasia Bazar, Ahmedabad 2.
Nima Trading Co., Cross Lane, Ahmedabad.
Standard Vacuum Oil Co., Oriental Bldg., Relief Road, Ahmedabad.

MACHINERY MANUFACTURERS, IMPORTERS, DEALERS, ETC.

A. B. Engineers, Kapasia Bazar, Ahmedabad.
A. Bhuderbhai Kishor & Sons, Gheekanta Road, Ahmedabad.
Acme Agencies (Pencil Factory), Jagannath Road, Ahmedabad.
Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Ahmedabad Iron & Brass Factory, Bharatkhand Mills Compound, Ahmedabad.
Ahmedabad Victoria Iron Works & Co., Ltd., The, Dudheswar Road, Ahmedabad.
Allied Engineers, Reid Road, Ahmedabad.
A. Raman & Co., Kapasia Bazar, Ahmedabad.
A. R. Engineering Works, Near Munshi Soda Factory, Mirzapur, Ahmedabad.
Ashok Vijay Engineering Works, Delhi Darwaja, Ahmedabad.

ASIATIC BOLT & ENGINEERING CO., Lokhand Bazar, Ahmedabad. Factory at Lokhandwala Chawl, Amraiwadi Road, Ahmedabad 8. Manufacturers of Building Fittings and Textile Machinery Parts.

A. Star Engineering Works P. Ltd., 1730, Haribhai's Dehla, Outside Prem Gate, Ahmedabad 11.
Baboo & Co., Gheekanta Road, Ahmedabad.
Ball Bearing & Machinery Syndicate, Kapasia Bazar, Ahmedabad.
Batliboi & Co., Reid Road, Ahmedabad.

B. A. PANCHAL & CO., Manufacturers of Dobbies Complete & Spares. Gheekanta, Dabbhadia Wanda, Ahmedabad 1. Phone : 20726. Grams : "DOBBYPARTS."

Bharat Iron & Brass Factory, Sarva, Haripur Road, Ahmedabad.
Bihari Brothers, Panchkuva, Ahmedabad.
B. Kapasi & Co., Khodi Ambli, Harmanwali Pole, Ahmedabad.
B. M. Panchal & Co., Gheekanta Road, opp. Masjid, Ahmedabad.
B. P. Engineering Works, Gheekanta Road, Ahmedabad.
Brass & Iron Works, Sarangpur, Madhubhai Colony, Ahmedabad.

C. B. SUTARIA BROS., Motilal Hirabhai Market, Cross Lane, Opp. Railway Station, Ahmedabad 2.

C. C. Ranchhodlal & Co., Chamunda Road, Naroda, Ahmedabad.
C. Mehta & Co., Gandhi Road, Ahmedabad.
C. Vadilal & Co., Reid Road, Ahmedabad.
Dalpatram Girdharlal & Co., Lunsawad Nariawad, Ahmedabad.
D. Shantilal & Co., Gheekanta Road, Bhutni Ambli, Ahmedabad.
Eastern Hardware & Mill Stores Co., Reid Road, Ahmedabad.
Engineer & Sons, Dariapur, Char Rasta, Ahmedabad.
Forge & Blower Co., Under Sarangpur Bridge, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad 2.
G. A. Latif & Sons, Latif Bldg., Revdi Bazar, Ahmedabad.
General Commercial Agency, Crosslane, Ahmedabad.
Gopaldas Khemchand Tijoriwala, Delhi Darwaja, P. G., Ahmedabad.
Govindlal Keshavlal, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Gujarat Corpn. (I) P. Ltd., Khadia, Ahmedabad.

GUJARAT ENGINEERING CO., Jaybharat Rangshala Compound, Saraspur, Ahmedabad. Manufacturers of Diesel Oil Engines and Importers of raw materials.

Gujarat Iron Works, Gheekanta Road, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad 2.
Harry Engineering Corporation, Danapith, Ahmedabad.
Harshad Iron & Brass Factory, Dariapur, Changi's Pole, Ahmedabad.
Herold Metal Corporation, Salapose Road, Near G.P.O., Ahmedabad.
Hind Hardware Stores, Kadia Bldg., Relief Road, Ahmedabad.
Hind Sewing Machine Works, Salapose Road, Corner Lane, Ahmedabad.
Honesty Engineering Works, Dariyapur, Char Rasta, Ahmedabad.
Hutheesing Engineering Co., Gheekanta Road, Ahmedabad.
India Metal Works, Mirzapur Road, near I.T.O., Ahmedabad.
Indian Engineering Works, Astodia, near Anjuman H. S., Ahmedabad.
Indian Iron & Brass Works, City Danapith, Ahmedabad.
Indian Textile Works, Sarangpur, Madhubhai Colony, Ahmedabad.
Industrial Engineering Works, The, Sarangpur, Madhubhai Colony, Ahmedabad.
Industrial Spare Parts Co., Relief Road, Ahmedabad.
Jagdishchandra & Brothers, Delhi Chakla, Shak Market, Ahmedabad.
Jagdish Engineering Works, Dariapur, behind Tower, Ahmedabad.
Jagdish Industrial Works, outside D. G. Chhotalal's Chali, Ahmedabad.
Jagdish Iron & Brass Factory, Pankore Naka, Ahmedabad.
Janta Engineering Co., Crosslane, Ahmedabad.
Jojtaram Bechardas & Co., Saraspur, Ambliwada, Ahmedabad.
Jubilee Iron Works, Dariapur, Rupapari, Ahmedabad.
Kant Engineering Co., Kapasia Bazar, Ahmedabad.
Kantilal & Co., Gheekanta Road, Ahmedabad.
Karsandas Bechardas & Sons, Amdupura, Saraspur, Vora's Roja, Ahmedabad.
Kashyap Brothers, Crosslane, Ahmedabad.

KASTURBHAI RAMCHAND & BROS., Pankore Naka, Ghanchi's Wadi, Ahmedabad. Manufacturers & Dealers of Iron Safes, Cabinets, Cash-Boxes, Water-Coolers, Milk-Coolers, etc.

Keshavlal Ambaram & Brothers, Gosaiji's Wanda, Gheekanta Road, Ahmedabad.
Kirtilal Nanalal & Company, Reid Road, Railwaypura Post, Ahmedabad.
Kothari Brothers Syndicate, Reid Road, Ahmedabad 2.
Krishna Sahay Brass Factory, Delhi Chakla, Bhojwada, Ahmedabad.
Kumarpal Kantilal & Co., Kapasia Bazar, Ahmedabad.

K. VADILAL & CO., Mirzapur Road, Near Haji Building, Ahmedabad. Manufacturers of all types of Gearwheels and Electric Contacts.

Large Engineering Corporation, Revdi Bazar, Ahmedabad.
Lavjibhai Mavjibhai & Sons, City Danapith, Ahmedabad.
Laxmandas Vithaldas, Mandvi's Pole, Ahmedabad.
Laxmi Moulding Works, Asarva, Haripur Road, Ahmedabad.
Laxminarayan Sharma & Co., Lunsawada, Kumbharwada, Ahmedabad.
Laxmi Vijay Iron & Brass Works, The, Gheekanta Road, Pitalia Bumba, Ahmedabad.
Machine Products (I) P. Ltd., Reid Road, Ahmedabad.
Machine Tools & Hardware Corporation, Reid Road, Ahmedabad.
Machinery Manufacturing Works, The, Khodi Anuli, Ahmedabad.
Machinery Stores Traders, 661, Kapasia Bazar, Ahmedabad.
Machinery Supplying Co., The, Kankaria Road, Ahmedabad.
Machine Tools & Hardware Corporation, Reid Road, Railwaypura, Post Box No. 1002, Ahmedabad.
M. D. Shah & Co., 570/1, Reid Road, Railwaypura Post, Ahmedabad.
Mahavir Iron & Brass Factory, Dariapur, near Ghanchi's Wadi, Ahmedabad.

MANILAL & BROTHERS, 626, Reid Road, Ahmedabad 2. Pipe Fittings, Hardware and Machinery Merchants. Office : Chawri Bazar, Delhi 6. Grams : "RUBERBELT."

METAL MOULDERS PRIVATE LTD., Dudheshwar Road, Ahmedabad.

Metropolitan Engineering Works, Delhi Chakla, Gheekanta Road, Ahmedabad.
Mistry, Ambalal Jetharam, Gheekanta Road, Ahmedabad.
Mistry, Chhaganlal Govindlal, Lunsawada, Kumbharwada, Ahmedabad.
Mistry, Damodardas Himatlal & Co., Kalupur, Panchpati, Ahmedabad.
Mistry, Jivanlal Dhanjibhai, Gheekanta Road, opp. Masjid, Ahmedabad.
Mistry, Khodidas Motiram, Mirzapur, Rentiawadi, Ahmedabad.
Mistry, Mangaldas Jethabhai I. & B. F., Dariapur, Char Rasta, Ahmedabad.
Mistry, Mohanlal Veldas & Co., Sankadi Sheri, Dedka's Gali, Ahmedabad.
Mistry, Popatlal Narsibhai, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Mistry, Shivram Ganesh & Sons, Astodia Chakla, Ahmedabad.
Mistry, Somnath Girdhardas, Tajpur, Tadni Sheri, Ahmedabad.
Mistry, Zaverbhai Rudabhai, Khadia, Wada Pole, Ahmedabad.
M. M. Panchal, City Danapith, Ahmedabad.
Model Machineries P. Ltd., Kapasia Bazar, Ahmedabad.
Modern Engineering & Moulding Co., Shahpur Mills Compound, Ahmedabad.
Natvar Engineering Works, Sarangpur, Ahmedabad.
Natverlal M. Fadia & Co., Kapasia Bazar, Ahmedabad.
Natverlal Shamaldas Shah, Sakar Bazar, Ahmedabad.
Nima Trading Co., Cross Lane, Ahmedabad.
N. K. Fadia & Co., Kapasia Bazar, Ahmedabad.
N. Mohanlal & Co., Pankore Naka, Ahmedabad.
Novatsing Rupram I. & B. F., opp. R. C. High School, Ahmedabad.
Omkar Iron & Brass Factory, Dariapur, Char Rasta, Ahmedabad.
Oriental Engineering Works, Sarangpur, Madhubhai Colony, Ahmedabad.
Oriental Mill Stores Agency, Relief Road, Ahmedabad.
Padshah Brothers, Khodi Ambli, Harmanwali Pole, Ahmedabad.
Pahelwan Rustamkhan Nawabkhan, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panchal Atmaram Ishwardas, Dariapur, Rupapari, Ahmedabad.
Panchal Atmaram Mohanlal, Mirzapur, Rentiawadi, Ahmedabad.
Panchal Banulal & Brothers, Dariapur, Rupapari, Ahmedabad.
Panchal Engineering Works, Dariapur, Char Rasta, Ahmedabad.
Panchal Fakirchand Hirachand, Gheekanta Road, opp. Masjid, Ahmedabad.
Panchal Hirachand Revandas, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panchal Iswardas Harjivandas, Dudheshwar Road, Ahmedabad.
Panchal Jatashankar Ambalal, Golwad, M. G. Road, Viramgam.
Panchal Jivanlal Mepabhai, Gosaiji's Wanda, Gheekanta Road, Ahmedabad.

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Panchal Kalidas Ranchhoddas, Gheekanta Road, Hargovan Keval Street, Ahmedabad.
Panchal Kalidas Rughnath, near Munshi Soda Factory, Mirzapur, Ahmedabad.
Panchal Keshavlal Laxmichand, Dariapur, Ghanchi's Wadi, Ahmedabad.
Panchal Lallubhai Hirabhai, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panchal, Manilal Maganlal, Rentiawadi, Mirzapur Road, Ahmedabad.
Panchal, Mathurdas Shankarlal & Bros., Gheekanta Road, Ahmedabad.
Panchal, Shivram Bhuderdas, Gheekanta Road, Dabhadia Kuva, Ahmedabad.
Panchal, Smonath Kalidas, Gheekanta Road, Ahmedabad.
Panchal, Somnath Ranchhoddas, Gheekanta Road, Butni Ambli, Ahmedabad.
Panchal, Trikamlal Maganlal, Gheekanta Road, Bhutni Ambli, Ahmedabad.
Panjab Raiht Factory, Chokha Bazar, Ahmedabad.
P. A. Panchal, Dariapur, Chagis Pole, Ahmedabad.
Patel, Ambalal Narottamdas, Shahpur, Nagoriwad, Ahmedabad.
PIONEER ENGINEERING WORKS, Prop.: C. C. Ranchhodlal & Co., Naroda Road, Ahmedabad 2. Phone: 2471. Manufacturers of Textile Processing Machinery, C.I. Pipes & Fittings, etc.
Popular Textile Company, Bharatkhand Mills Compound, Ahmedabad.
Prabhudas & Co., Rentiawadi, Mirzapur Road, Ahmedabad.
Prem Roy Bros., L. K. Trust Bldg., Panchkuva, Ahmedabad 7.
Punjabhai Vanmalidas & Sons, Gheekanta Road, Mendi's Khancha, Ahmedabad.
Radiant Electric & Machinery Co., Mangal Bhavan, 2750, Relief Road, Ahmedabad.
Rally Metal Works, Patthar Kuva, Relief Road, Ahmedabad.
Ramanlal P. Shah, Relief Road, Ahmedabad.
Ramchandra Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
Ramvijay Iron Works, 664, Gheekanta Road, Ahmedabad.
Ranjeet Electric & Engineering Corporation, Relief Road, Near Jakaria Masjid, Ahmedabad.
Rastriya Iron Works, outside Dariapur Darwaja, Ahmedabad.
Regal Trading Co., Relief Road, Ahmedabad.
R. Keshavlal & Bros., Lunsawada, Kumbharwada, Ahmedabad.
R. M. Brothers, Kapasia Bazar, Ahmedabad.
R. Maganlal & Co., Kapasia Bazar, Ahmedabad.
Rohit Iron & Brass Factory, Delhi Chakla, Gheekanta Road, Ahmedabad.
Royal Iron Works, Kankaria Road, N. C. Mills, Ahmedabad.
Sabarmati Engineering Works, Sabarmati Railway Oil Mills, Sabarmati.
Sanchal Kalidas Ranchhodas, Gheekanta Road, Hargovan Keval Street, Ahmedabad.
Saraswati Moulding Works, Shahpur Darwaja, Marwadi Chal, Ahmedabad.
Sattle Trunk Workshop, outside Prem Darwaja, Ahmedabad.
Shah Patel & Co., Kapasia Bazar, Ahmedabad.
Shantilal & Co., Kalupur, Panchpati, Navgaja Pir, Ahmedabad.
Sheth Stores Trading Co., Deepak Chambers, Station Road, Ahmedabad 2.
Shetna Iron Works & Co., Kankaria Road, N. C. Mills, Ahmedabad.
Shivlal Virchand Contractor, Gheekanta Road, Ahmedabad.
Shree Ambika Vijay & Co., Gheekanta, Gosaiji's Ullada, Ahmedabad.
Shree Ambica Vijay Iron & Brass Factory, Opp. Dariakhan Ghumat, Shahibag, Ahmedabad 4.
Shree Hanumant Vijay Iron & Brass Factory, Dariapur, Ghanchi's Wadi, Ahmedabad.
Shree Jagdish Rajnagar Iron & Brass Factory, City Danapith, Ahmedabad.
Shree Krishna Iron & Brass Factory, Lunsawada, Kumbharwada, Ahmedabad.
Shree Ramkrishna Engineering Works, Outside Dariapur Gate, Ahmedabad.
Shree Satyanarayan Iron & Brass Factory, Dariapur, Ahmedabad.
Shree Shakti Iron Works, Delhi Darwaja, Hathibhai's Wadi, Ahmedabad.
Shree Shakti Vijay Brass & Iron Works, Lunsawada, Kumbharwada, Ahmedabad.
Sitaram Iron & Brass Works, Lunsawada, Golwad, Ahmedabad.
Smith Engineering Works, Dariyapur Rupapari, Ahmedabad.
S. Sutaria & Co., Reid Road, Ahmedabad.
Standard Materials Co., Kapasia Bazar, Ahmedabad.
Star Engineering Works, outside Prem Darwaja, Ahmedabad.
Star Radio Electric Co., Relief Road, Ahmedabad.
Surendra Kumar & Bros., Relief Road, Ahmedabad.
Surendra & Co., Lunsawada, Harmanwali Pole, Ahmedabad.
Swastik Engineering Works, Gheekanta, near Dudhwali Pole, Ahmedabad.
SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.
Tankalchand Rughunath Iron & Brass Factory, Gheekanta Road, Ahmedabad.
U. D. Dave & Co., Chhotalal Building, Relief Road, Ahmedabad.
Umedram K. Mistry, City Danapith, Ahmedabad.
Unique Swastik Agency, Dhariapur, Ahmedabad.
Vinus Engineering Co., Kankaria Road, opp. Laxmi C. Mills, Ahmedabad.
Zenith Engineering Works, Kulupur Tankshal, Ahmedabad.

MANUFACTURERS' REPRESENTATIVES

BHARAT ENGINEERING CORPN., Moti Makeriwad, 2396-A/1, Relief Road, Ahmedabad 1.

MANUFACTURERS, IMPORTERS AND DEALERS

MISTRI MOHANLAL VELDAS & CO., 1341/7, Salapose Cross Road, Ahmedabad; Manufacturers of Loom Temples, Bolsters, Innertubes & other Textile Spare parts.

MARBLE AND TILES MERCHANTS

Ahmedabad Stone Supplying Co., 995, Khadia, Char Rasta, Ahmedabad.
Bharat Tiles & Marble Co., Ahmedabad.
Gupta Tiles & Marble, Guptanagar, Ahmedabad.
Jayantilal & Co., Khadia, Char Rasta, Ahmedabad 7.
Ramanlal Motilal Shah, inside Panchkuva, Ahmedabad.
Sompura & Co., 1955, Panchkuva Road, Ahmedabad.
Swastika Flooring Tiles Co., Panchkuva Road, Ahmedabad.

METAL (NON-FERROUS) MANUFACTURERS

Harichand Zaverdas, Kansara Dehla, Railwaypura, Ahmedabad 2.
Madhusudan & Brothers, Ramkumar Mill Compound, Saraspur, Ahmedabad.
Mahalaxmi Vijay Rolling Factory, Dariyakhan Ghumat, Dudheswar Road, Ahmedabad.
MAHENDRA METAL INDUSTRIES, Jay Bharat, Rangshalla Compound, Saraspur, Ahmedabad. Manufacturers of Copper, Brass, Circles, Sheets and other non-ferrous alloys.
Saraswati Metal Works, Outside Delhi Gate, Opp. Painter's Garden, Ahmedabad.
Satyanarayan Vijay Rolling Factory, Dariakhan Ghumat, Dudheswar Road, Ahmedabad.

METAL MERCHANTS

Amarchand Parthiraj, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Ambalal Keshavlal Patel, Kansara Bazar, Manek Chawk, Ahmedabad.
Ambica Metal Works, Sankdi Sheri, Manek Chawk, Ahmedabad.
Amir Metal Syndicate, Kansara Dehla, Railwaypura Post, Ahmedabad.
Amrit Metal Works, Wania Sheri, Bhanderi Pole, Kalupura, Ahmedabad.
Babulal Karsandas & Co., Mandvi Pole, Kansara Pole, Ahmedabad.
Balchand Mohanlal, Delhi Chakla, Ahmedabad.
Bhartiya Wasan Bhandar, Kansara Bazar, Manek Chawk, Ahmedabad.
Bhogilal Chotalal & Co., Mandvi Pole, Kansara Pole, Ahmedabad.
Bhogilal Devchand, New Wasan Market, Manek Chawk, Ahmedabad.
Bhimaji Hansraj, Kalupura, Bhanderi Pole, Ahmedabad.
Chaganlal Gangaram, Kansara Bazar, Manek Chawk, Ahmedabad.
Chakubhai Ganeshdas, Kansara Dehla, Railwaypura Post, Ahmedabad.
Chandulal Kalidas, Kansara Dehla, Railwaypura Post, Ahmedabad.
Chhanalal Ravchand, Delhi Chakla, Ahmedabad.
Chinubhai Dawoodji, Kansara Dehla, Railwaypura Post, Ahmedabad.
Chotalal Vithaldas, Gandhi Chawk, Saraspur, Ahmedabad.
Chunilal Kalidas & Co., Kansara Dehla, Railwaypura Post, Ahmedabad.
Dahyalal Chotalal, Madhupura Dhal, Outside Delhi Darwaja, Ahmedabad.
Dhanjibhai Kalidas, Kansara Bazar, Manek Chawk, Ahmedabad.
Ghanshyam Metal Rolling Works, Ghee Kanta, Ghanja Wadi, Ahmedabad.
Gordhandas Damodardas, Kansara Bazar, Ahmedabad.
Harichand Zaverdas, Kansara Dehla, Railwaypura Post, Ahmedabad.
Harilal Sunderji, Kansara Mandvi Pole, Ahmedabad.
Hasmukhlal Jayantilal, New Wasan Market, Manek Chawk, Ahmedabad.
Hiralal Raichand, Kansara Bazar, Manek Chawk, Ahmedabad.

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Jayantilal Chimanlal, Kansara Bazar, Manek Chawk, Ahmedabad.
Jethabhai Shivchand, Kansara Bazar, Manek Chawk, Ahmedabad.
Jijibhai Jesinghbhai Patel, Tumba Pole, Near Swami Narayan Mandir, Ahmedabad.
Jivanlal Sankalchand Kansara, Mandvi Pole, Mahajanwadi, Ahmedabad.
Kajodimal Amarchand, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Kanayalal Navnitlal Parikh, Kansara Dehla, Railwaypura Post, Ahmedabad.
Kantilal Panachand, Mandvi's Pole, Kansara Pole, Ahmedabad.
Keshavlal Devchand, Kansara Bazar, Manek Chawk, Ahmedabad.
Lalji Dayaliji, Panchkuva, Kadiawadi, Ahmedabad.
Madhavlal& Co., Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Maganlal Utamchand, Mandvi Pole, Ahmedabad.
Mahalaxmi Vijay Rolling Factory, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Mahendra Metal Works Industries, Rangshala Compound, Saraspur, Ahmedabad.
Mansukhram Chaganlal & Co., Mandvi Pole, Kansara Pole, Ahmedabad.
Mohanlal Kajodimal, Lunsawada, Kumbhar Dehla, Ahmedabad.
Mohanlal Rambilas, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Nagardas Motichand, Kansara Dehla, Railwaypura Post, Ahmedabad.
Nathalal Baxiram, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
New Malwa Metal Stores, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Prabhulal Daulatram, Chotalal Chawl, Outside Delhi Darwaja, Ahmedabad.
Ramkunvar Jagdish Chandra, Ravalia Khancha, Mandvi Pole, Ahmedabad.
Ramniklal Bhogilal, Mandvi Pole, Ahmedabad.

R. VADILAL & CO., Kansara Delha, Railwaypura Post, Ahmedabad 2. Stockists of Series of Stainless Steel, Non-ferrous Metals & alloys. Manufacturers of Nut-bolts and Machinery parts out of stainless steel, Non-ferrous Metals & Alloys.

Sankalchand M., Kansara, Sher Danapith, Ahmedabad.
Shantilal Maneklal, Kansara, Kalupura Tower, Haji Mohammed Pole, Ahmedabad.
Shri Mahalaxmi Wasan Mart, Kansara Bazar, Manek Chawk, Ahmedabad.
Shri Saraswati Metal Works, Opp. Painter Garden, Outside Delhi Darwaja, Ahmedabad.
Shyamlal M., Kansara, Mandvi Pole, Ahmedabad.
Vadilal Devchand, Kansara Bazar, Manek Chawk, Ahmedabad.

MILL GIN STORES SUPPLIERS

Agarwal Bros., Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad-2.
A. H. & Co., Reid Road, Ahmedabad-2.
A. Hasmukh & Co., L. K. Trust Building, Revdi Bazar, Ahmedabad-2.
A. H. Rolwala. Patel Market, Kapasia Bazar, Ahmedabad-2.
Ahmedabad Hardware Stores, Menit House, Relief Road, Ahmedabad-2.
Ahmedabad Wood Works, Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad-2.
Akha Stores Trading Co., Gayatri Sadan, Audichya Nagar, Kankaria, Ahmedabad.
A. K. Shah & Co., Revdi Bazar, Ahmedabad-2.
Alliance Stores Trading Co., Private Ltd., Station Road, Ahmedabad-2.
Allied Engineers, Reid Road, Ahmedabad-2.
Altex Private Ltd., Ramolia Building, Relief Road, Ahmedabad-1.
Ambalal F. Patel, Devjisaraiya's Pole, Sankadi Sheri, Ahmedabad.
Ambalal Kothari & Co., 659/16 .Kapasia Bazar, Ahmedabad-2.
Ambica Textile Traders, Opp. Aranda Hall, Kapasia Bazar, Ahmedabad-2.
A. M. Shaw & Co., Kapasia Bazar, Ahmedabad-2.
Anal Jitendra & Co., Amrat Park, Saurashtra Society, Ellis Bridge, Ahmedabad.
Anglo American Trading Corporation, Motilal Mansion, Kapasia Bazar, Ahmedabad-2.
Anglo British Trading Co., 1393, Naniali Street, Ahmedabad.
Anubhai & Co., Jeshingbhai's Wadi, Gheekanta Road, Ahmedabad.
Anjankumar & Co., 1279, Rajamehta's Pole, Kalupur, Ahmedabad-1.
Anilkant & Co., Jivan Nivas, Opp. Madhav Baug, Ahmedabad-2.
A. R. K. Traders, C/o K. P. Parikh, Devni Sheri, Mandvi's Pole, Ahmedabad.
A. Ratilal Nathalal & Co., 635, Companywala Market, Kapasia Bazar, Ahmedabad-2.

ARUN TEXTILE WOOD WORKS, Saraspur, Behind Vikram Mill, Ahmedabad 2.

Arvind Gunvant & Co., Motilal Hirabhai Market, Kapasia Bazar, Ahmedabad-2.
Arvind Hiralal, Laxmi Villa, Opp. Mithakhali, Ahmedabad-6.
Asarva Bobbin Works, Asarva Road, Behind Nilkanth Mahadev, Ahmedabad-11.
Ashok Traders, Deepak Chambers, Station Road, Ahmedabad-2.
Ashwin & Co., 535, Relief Road, Ahmedabad-1.
Asian Textile Engineering Corporation, Opp. Madhav Baug, Ahmedabad 2.
Atul Trading Co., 66-Pritamnagar, Ellis Bridge, Ahmedabad-6.
A. V. Nawab & Co., 2088, Nagjibhudar's Pole, Mandvi Street, Ahmedabad.
Babu & Co., Gheekanta Road, Ahmedabad.
Babubhai Chunilal Shah, Laxminarayan Pole, Rajamehta Pole, Kalupur, Ahmedabad-1.
Bahechardas Hargovandas Patel, 2724, Lokband Bazar, Ahmedabad.
Barrels & Machinery Supplying Co., Kapasia Bazar, Ahmedabad-2.
B. C. Mashruwala & Bros., Kapasia Bazar, Ahmedabad-2.
Bepco (India), Kapasia Bazar, Ahmedabad-2.
Bhagubhai M. Shah, Behind Parimal Soc., Tulsibag Colony, Ellis Bridge, Ahmedabad.
Bhagubhai Shambhunath Garekhan, Kapasia Bazar, Ahmedabad-2.
Bharat Chemical Agency, Vohra's Dehla, Kapasia Bazar, Ahmedabad-2.

BHARAT ENGINEERING CORPN., Moti Makeriwad, 2396-A/1, Relief Road, Ahmedabad 1.

Bharat Leather Co., 1680/1, Khiskola's Pole, Kalupur Road, Ahmedabad-1.
Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad-2.
Bharat Traders, 572/A, Reid Road, Ahmedabad-2.
Bhogilal & Co., 673, Cross Lane, Ahmedabad-2.
Bhogilal K. Shah & Co., Cotton West Merchant Assoc. Building, Relief Road, Ahmedabad.
Bihari Brothers, Reid Road, Ahmedabad 2.
Bipin & Co., Kapasia Bazar, Ahmedabad-2.
Bitex Corporation, 2088, Nagjibhuder's Pole, Mandvi St., Ahmedabad.
Bombay Mill Gin Stores, Ashok Nivas Bldg., Relief Road, Ahmedabad 1.
B. S. Banker & Co., 656, Kapasia Bazar, Ahmedabad-2.
B. Trikamlal & Co., Gheekanta Road, Bhut's Ambli, Ahmedabad.
C. A. Galiakotwala & Co. Private Ltd., Kapasia Bazar, Ahmedabad-2.
Card Clothing & Comber Re-needling Works, Govind Bhuvan, Opp. Raman Nagar Society, Maninagar, Ahmedabad-8.
C. B. Mehta & Co., Reid Road, Ahmedabad-2.
C. B. Sutaria Bros., Cross Lane, Ahmedabad-2.
C. Bangadiwala & Co., Kapasia Bazar, Ahmedabad-2.
C. C. Mashruwala, Kapasia Bazar, Ahmedabad-2.
C. Doctor & Co., Private Ltd., Khokhra Mahemdabad, Maninagar, Ahmedabad-8.
Central Trading Corporation, Vohra's Dehla, Kapasia Bazar, Ahmedabad-2.
Chandabhai Brothers & Co., Dabgarwad, Dariapur, Ahmedabad.
Chandulal Vadilal & Co., Reid Road, Ahmedabad-2.
Chandravadan Lallubhai, Near Ration Shop, Mithakhali, Ahmedabad-6.
Chemico Textile Industries, Tagara Mill Compound, Outside Raipur Gate, Ahmedabad.
Chetna Textile Trading Corporation, Zaveriwad, Sodagar's Pole, Ahmedabad.
Chemosize Agency, 566, Reid Road, Ahmedabad-2.
Chhotalal Balabhai & Bros., Kapasia Bazar, Ahmedabad-2.
Chimanlal & Sons, Cross Lane, Revdi Bazar, Ahmedabad-2.
Chimanlal Vadilal & Co., Sankadi Sheri, Nanshajivan's Pole, Ahmedabad.

CHINU VAKIL & CO., Railwaypura Post No. 2, Cross Lane, Ahmedabad 2.

Chitaranjan Bros., 1766, Khadia, Dhobi's Pole, Ahmedabad.
Chimanlal J. Banker, Prabhu Sadan, Rambaug, Kankaria, Ahmedabad.
Chokshi Trading Co., 2754/2, Relief Road, Ahmedabad.
C. K. Vohora & Co., Revdi Bazar, Ahmedabad-2.
C. S. Thacker & Co., Khadia, Char Rasta, P.B. No. 123, Ahmedabad.
C. Vadilal & Co., Reid Road, Ahmedabad-2.
C. V. Mehta Private Ltd., Khokhara Mahemdabad, Maninagar, Ahmedabad-8.
C. U. Kapadia & Sons, Kapasia Bazar, Ahmedabad-2.
Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad-2.
Dashrathlal Chimanlal & Co., Sarangpur, Sarkiwad, Ahmedabad.
Dashrathlal Chimanlal & Bros., Motilal Mansion, Kapasia Bazar, Ahmedabad-2.
Das & Co., Revdi Bazar, Ahmedabad-2.

DESAI KESHAVLAL LALJIBHAI, Mill and Handloom Stores Suppliers, Kapasia Bazar, Ahmedabad 2.

Dhuldhoya Sons & Co., Reid Road, Ahmedabad-2.
Dilip Electric Co., 63/H, Near Punit Ashram, Maninagar, Ahmedabad-8.
Dinubhai G. Desai & Co., Opp. Madhav Baug, Ahmedabad-2.
Dinker H. Desai & Co., Char Rasta, Khadia, Ahmedabad.
D. Lalbhai & Co., 1114, Gundi's Pole, Relief Road, Kalupur, Ahmedabad.
D. M. Patel & Co., A/8, Maskati Market, Ahmedabad-2.
Dwarkadas & Bros., Khadia Char Rasta, Ahmedabad.

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Eastern Trading Agency, Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad-2.
Eversharp Textile Corporation, 937, Gheekanta Road, Opp. R. C. High School, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad-2.
Gauttam Textile Co., Deepak Chambers, Station Road, Ahmedabd-2.
General Commercial Agency, Cross Lane, Station Road, Ahmedabd-2.
General Engineering Stores, Kapasia Bazar, Ahmedabad-2.
General Trading Co., C/o National Trading Co., 456, Panchkuva, Ahmadebad-2
Girdharlal Damodardas Private Ltd., Reid Road, Ahmedabad-2.
G. Narandas & Co., 442/A, Vachali Sheri, Raipur, Ahmedabad.
Gokaldas & Sons, Kaveshwar's Pole, Balahanuman, Khadia, Ahmedabad.
Gokaldas Motilal, Vohra's Dehla, Kapasia Bazar, Ahmedabad-2.
Gujarat Corporation (India) Private Ltd., Harisadan, Char Rasta, Khadia, Ahmedabad.
Haresh Chokshi & Co., 5, Arun Society, Ahmedabad-7.
H. B. Vakil & Co., Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad.
Harshvadan Kalidas, 550, Doshiwada's Pole, Kalupur, Ahmedabad.
H. Chokshi & Co., Kapasia Bazar, Ahmedabad-2.
H. Mansuri & Sons, Dariapur, Dabgarwad, Khodi Amli, Ahmedabad.
Hemant Bros., Mahalaxmi Bhavan, Dhanasutar's Pole, Relief Road, Ahmedabad.

HIMATLAL G. SHAH, 572/4, Reid Road, Ahmedabad.

Hind Hardware Stores, Kadiakuin, Relief Road, Ahmedabad-2.
Hirachand Ranchhoddas Dosi, Outside Panchkuva Gate, Ahmedabad-2.
Hiralal L. Shah, Deepak Chambers, Station Road, Ahmedabad-2.
H. Tribhovandas & Co., C/o Grand Wood Works, Reid Road, Ahmedabad-2.
I. A. Shah & Co., Kapasia Bazar, Ahmedabad-2.
Imperial Trading Co., Kapasia Bazar, Ahmedabad-2.
Indequip Private Ltd., Reid Road, Ahmedabad-2.
India Mill Stores Co., Vohora's Bldg., Kapasia Bazar, Ahmedabad-2.

INDIAN BOBBIN MANUFACTURING CO., Dahyabhai Colony, Opp. Nutan Mill, Anil Road, Ahmedabad 2.

Indravadan Maneklal & Co., Station Road, Ahmedabad-2.
Indulal & Co., Narotam Bldg., Kapasia Bazar, Ahmedabad-2.
Industrial Engineering Corp., 622, Kapasia Bazar, Ahmedabad.
Industrial Spare Parts Co., Kadiakui, Relief Rd., Ahmedabad.
International Tape Mfg. Co., C/o Messrs. Kumar Eng. Enterprize, New Cotton (No. 1) Mill Compound, Outside Raipur Gate, Ahmedabad.
International Textile Corporation, Reid Road, Ahmedabad-2.
International Traders Private Ltd., Narotam Building, Kapasia Bazar, Ahmedabad-2.
International Trading Co., Station Road, Ahmedabad-2.
Interseas Trading Co., Outside Panchkuva Gate, Ahmedabad-2.
International Suppliers, Companywala Market, Kapasia Bazar, Ahmedabad-2.
Iron & Hardware Import Trading Co., 267, Sarangpur Chakla, Sarangpur, Ahmedabad.
Jagdish Engineering Works, Dariapur, Behind Tower, Rupapari, Ahmedabad.
Jaswantlal Popatlal & Co., 656/4/4, Kapasia Bazar, Ahmedabad-2.
Jayantilal Ambalal & Co., 675/2/9, Sir Chinubhai Bldg., Cross Lane, Ahmedabad-2.
Jayantilal & Co., Reid Road, Ahmedabad.
Jayantilal Pranlal & Co., Outside Sarangpur Gate, Karanamukteshwar Mahadev Compound, Near Bagicha Mill, Ahmedabad.
Jayantilal S. Gandhi & Co., Opp. Madhav Baug, Ahmedabad-2.
Jayabharat Trading Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.
Jayhind Leather Industries Private Ltd., Station Road, Ahmedabad-2.
Jayshree Traders, Motilal Mansion, Kapasia Bazar, Ahmedabad 2.
Jitendra & Co., Relief Road, Kadikui, Ahmedabad.
Jitendra Ramaniklal & Co., Maskati Market, Ahmedabad-2.
J. M. Chokshi, Kapasia Bazar, Ahmedabad-2.

J. NANAVATI & CO., 626/32, Kapasia Bazar, Ahmedabad 2.
KAMLESH CORPORATION, 696/A/2, Reid Road, Ahmedabad 2.

Kanaiyalal Navanitlal Parikh, Kansara's Dehla, Opp. Rly. Station, Ahmedabad-2.

KANCHAN BROTHERS & CO., Reid Road, Railwaypura Post, Ahmedabad 2.

Kantilal Chimanlal, Kapasia Bazar, Ahmedabad-2.
Kantilal H. Mehta & Co., Reid Road, Ahmedabad-2.
Kantilal Jiwanlal & Co., Reid Road, Ahmedabad-2.
Kashiparekh Bros., 564, Reid Road, Ahmedabad-2.
Kashyap Bros., Kadiakui, Relief Road, Ahmedabad.
K. C. Mashruwala & Co., Reid Road, Ahmedabad-2.
K. Damodardas & Co., L. K. Trust Building, Revdi Bazar, Ahmedabad-2.
K. H. Nawab & Co., Kapasia Bazar, Ahmedabad-2.
Kirtikant & Co., Near Government Servant Soc., Navarangpura Road No. 1, Ahmedabad-9.
Kirtilal & Co., Kadiakuin, Relief Road, Ahmedabad.
Kishore Trading Corporation, Revdi Bazar, Railwaypura, Ahmedabad 2.
Kohinoor Rope & Tape Works, Kapasia Bazar, Ahmedabad-2.
K. Rasiklal & Co., Cross Lane, Revdi Bazar, Ahmedabad-2.

KUMARPAL KANTILAL & CO., Companywala Market, Kapasia Bazar, Ahmedabad 2.

Kumarpal Kantilal & Co., Companywala Market, Kapasia Bazar, Ahmedabad-2.
Laxmi Commercial Ltd., Reid Road, Ahmedabad-2.
Machine Products (India) Private Ltd., Reid Road, Ahmedabad-2.
Mafatlal K. Patel & Co., 1234, Hanuman's Pole, Dariapur, Ahmedabad.
Maganlal Manilal Seth, 1062/N/16, Sahkari Lati Bazar, Gitamandir Road, Ahmedabad.
Mangaldas Jeshingbhai & Co., Cross Lane, Revdi Bazar, Ahmedabad-2.
Manilal Jamnadas & Sons, Nava Madhupura, Ahmedabad.
Manubhai C. Shah, Motilal Mansion, Kapasia Bazar, Ahmedabad-2.
Manubhai Parikh & Co., Badshah Bhuvan, Kadiakui, Relief Road, Ahmedabad-2.
Master Traders, Aranda Hall, Kapasia Bazar, Ahmedabad-2.
Masturlal Chunilal & Co., Kapasia Bazar, Ahmedabad-2.
Mathurdas Odhavji & Co., Acharyaji's Bethak, Asarva Road, Ahmedabad.
M. D. Shah & Co., Reid Road, Ahmedabad-2.
Mehta & Co., C/o Messrs. R. Mehta & Co., Below Fernandez Bridge, Gandhi Road, Ahmedabad.
Mehta & Sons Private Ltd., Khokhara Mahemdabad, Maninagar, Ahmedabad-8.

MEHTA MILL SUPPLY CO., Reid Road, Ahmedabad ; Phone : 2627 ; Grams : " BELTING ". Direct Importers and Stockists of English Leather Beltings, Picking Bands, Fibre Card Cans, all kinds of Woollen machinery cloths and other Mill Stores Furnishers ; Branches—Bombay & Coimbatore.

Mehta Parikh & Co., Private Ltd., Kapasia Bazar, Ahmedabad-2.
Mehta Trading Co., Near Dhikawa Choki, Mali's Pole, Kalupur, Ahmedabad.
Metal Moulders Private Ltd., Dudheswar Road, Ahmedabad.
Mill Stores Co. (Bombay) Private Ltd., Kadiakui, Relief Road, Ahmedabad.
M. M. Shah & Co., 2610/Devsa's Pada, Relief Road, Ahmedabad.
Mohanlal Jamnadas Patel, Revdi Bazar Ahmedabad-2.
Mohanlal Prabhudas & Co., Reid Road, Ahmedabad-2.
Motilal Harilal Jagabhaiwala, Bipinvilla, Ellis Bridge, Ahmedabad.

M. P. KAPADIA & CO., 957, Kapasia Bazar, Ahmedabad 2.

M. Sharma & Co., Post Box No. 71, Gandhi Road, Ahmedabad.
Mukulchandra Budhalal Teli, Devkinandan Market, Revdi Bazar, Ahmedabad-2.
Mulchand Jaikishandas & Co., Reid Road, Ahmedabad-2.
Nachmo Co., 433/17, Ashram Road, Ellis Bridge, Ahmedabad-9.

NAGINDAS KILABHAI & CO., Reid Road, Ahmedabad.

Nanavati & Co., Private Ltd., Kapasia Bazar, Ahmedabad 2.
Narottamdas Chunilal & Co., Kapasia Bazar, Ahmedabad 2.
National Bobbin Co., Outside Panchkuva Gate, Ahmedabad 2.
National Trading Co., Dhanlaxmi Market, Reid Road, Ahmedabad 2.
Natvarlal & Co., 656, Kapasia Bazar, Ahmedabad 2.
Natvarlal Govindlal & Co., Kapasia Bazar, Ahmedabad 2.
Natvarlal Hiralal, Kapasia Bazar, Ahmedabad 2.
Natvarlal Shamaldas Shah, C/o Jayabharat Trading Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.
Natverlal P. Kinariwala, 148, Garden Area, Maninagar, Ahmedabad 8.
Navinchandra C. Zaveri & Co., Fanibanda Building, Reid Road, Ahmedabad 2.
Navanitlal B. Chokshi, 25, Chokshi Bhuvan, Jagabhai Park, Opp. Nagina Wadi, Kankaria, Ahmedabad.
N. C. Shah & Co., Pankore Naka, Gandhi Road, Ahmedabad.
Neo Engineering Works, Near Air India Office, Mirzapur Road, Ahmedabad 1.
New India Pickers Works, Khand Sheri, Jamalpur, Ahmedabad.
New India Trading Co., Vakil Building, Char Rasta, Khadia, Ahmedabad.
Nima Trading Co., Cross Lane, Revdi Bazar, Ahmedabad 2.
N. Mithabhai Lagowala, 570, Thengar Vado, Raipur, Ahmedabad.
Niranjan R. Shah & Co., Kapasia Bazar, Ahmedabad.
N. Kantilal & Co., 36, Ranchhodrai Market, Sakar Bazar, Ahmedabad 2.
Noble Textile Trading Co., Sundar Nivas, Opp. Kothari Pole, Gandhi Road, Ahmedabad.
Norman & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.
N. Parikh Sons, Opp. Madhav Baug, Ahmedabad 2.
Ochhavlal K. Trivedi, Cross Lane, Revdi Bazar, Ahmedabad 2.
Oriental Corporation Private Ltd., Khokhara Mahemdabad, Maninagar, Ahmedabad 8.
Oriental Textile Co., 637/2, Companywala Market, Kapasia Bazar, Ahmedabad 2.

ORIENT TRADERS (AHMEDABAD), Taiyab Bldg., Near Zakaria Masjid, Relief Road, Ahmedabad. Stewarts & Lloyds of India Private Ltd., Calcutta for fabricated Steam Pipes and Fittings, Tabular Structures, Scaffolding; Caltex (India) Ltd., for Industrial Lubricants; Kotak & Co. for Calender Bowls; United Steel Companies (India) Private Ltd., Bombay.

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Overseas Mill Stores Co. (Private) Ltd., Gandhi Road, Opp. Model Talkies, Ahmedabad.
Panalal Umabhai, Opp. Doshiwada's Pole, Kalupur, Ahmedabad.
Paradise Mill Stores Co., Kapasia Bazar, Ahmedabad 2.
Paramount Textile Agency, Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad 2.
Pargans (India) Private Ltd., A/416/C, Opp Mithakhali, Ahmedabad 9.
Parikh Trading Co., Seth Girdharlal Balabhai Market, Cross Lane, Ahmedabad 2.
Patel Harjivandas Hathibhai, 2727, Lokhand Bazar, Ahmedabad.
P. G. Gandhi & Co., Lalabhai's Pole, Mandvi's Pole, Ahmedabad.
P. G. Shah & Co., Astodia Road, Near Nagri Seth's Bungalow, Ahmedabad.
Pickmaco (India), 328/2, Revdi Bazar, Ahmedabad 2.
P. M. Hutheesing & Sons, Jesingbhai's Wadi, Gheekanta, Ahmedabad.
P. M. Shah & Co., Jani Wado, Gandhi Road, Ahmedabad.
Popatlal N. Parikh & Sons, 1295, Padi Pole, Dhanasuthar's Pole, Kalupur, Ahmedabad.
P. Prafulbhai & Co., Tribhovandas Market, Kapasia Bazar, Ahmedabad 2.
Prabhat Engineering Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

PRAKASH MILL STORES TRADING CO., Seeds Merchants Association, Kapasia Bazar, Ahmedabad 2. Specialists of Warpers, Slubbings, Rovings, Skewers, all types of bobbins and wooden articles for Mills.

Prasant Gauttam & Co., Vohora Building, Kapasia Bazar, Ahmedabad 2.
Pravin M. Patel & Co., Moti Hamam, Gheekanta Road, Ahmedabad.
Premier Mill Stores Co., 496-A/6, Reid Road, Ahmedabad 2.
Prem Roy Bros., L. K. Trust Building, Revdi Bazar, Ahmedabad 2.
P. Vadan & Co., Lunsawad, Moti Pole, Dariapur, Ahmedabad.
Rajendra B. Shah, C/o Sri Bhagubhai M. Shah, Tulsibag Colony, Behind Parimal Society, Ellis Bridge, Ahmedabad.
Rajnagar Bobbin Works, Near Gita Mandir, Ahmedabad.
Rajnagar Paper Mart, Panch Pati, Kalupur, Bakarali's Pole, Ahmedabad.
Rajnikant Bobbin Factory, Lunsawad, Opp. Moti Pole, Dariapur, Ahmedabad.
Ramanlal Sankalchand & Co., Reid Road, Ahmedabad 2.
Ramanlal Vrijvallabhdas & Co., Cross Lane, Revdi Bazar, Ahmedabad 2.
Ranchhodlal Amratlal Vasa, 664/54/5, C/o Laxmanprasad Damodardas Vasa, Maskati Market, Ahmedabad 2.
Ramesh M. Patel & Co., 1597, Jatakan's Pole, Raipur, Ahmedabad.
Ramesh Brothers, 1062/N/16, Sahkari Lati Bazar, Gita Mandir Road, Ahmedabad.
Ramprasad Chandulal Contractor, 9, Shantinagar, Ahmedabad 13.
Rasiklal D. Gandhi & Co., Mangal Bhuvan, Relief Road, Ahmedabad.
Ratilal & Co., Cross Lane, Revdi Bazar, Ahmedabad 2.
Ratilal M. Shah & Co., Shamla's Pole, Raipur, Ahmedabad.
R. D. Shah & Co., Vohra's Dehla, Kapasia Bazar, Ahmedabad.
Regal Trading Co., Mahabub Bldg., Relief Road, Ahmedabad.
R. M. Bros., 1083/84, Chhotalal Harilal's Dehla, Kapasia Bazar, Ahmedabad.
R. M. Shaw & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad.
R. N. Shah & Co., Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad 2.
R. Vadilal & Co., Kansara's Dehla, Opp. Rly. Station, Ahmedabad 2.
Sales & Service Corporation, Motilal Mansion, Kapasia Bazar, Ahmedabad 2.
S. C. Majumdar & Co., Narottam Building, Kapasia Bazar, Ahmedabad.
Seth Ratilal Maganlal, 1062/N/57, Sahkari Lati Bazar, Gita Mandir Road, Ahmedabad.
Seth Stores Trading Co., Station Road, Ahmedabad 2.
Shah & Dalal Traders, C/o M/s. R. D. Shah & Co., Vohra's Dehla, Kapasia Bazar, Ahmedabad 8.
Shalimar Traders, 690/2, Reid Road, Ahmedabad 2.
Shah Nanavati & Co., Vohra's Dehla, Kapasia Bazar, Ahmedabad 2.
Shakti Mill Stores Co., Moti Hamam, Ghee-Kanta Road, Ahmedabad.
Shambhulal Ishwardas Panchal, Chang's Pole, Dariapur, Ahmedabad.
Shantilal Manilal Vakil, 37, Brahman Mitra Mandal Society, Ellis Bridge, Ahmedabad 6.
S. Kantilal & Co., Haridas Acharatlal Market, Kapasia Bazar, Ahmedabad 2.
Sri Krishna Textile Works, Salapas Cross Road, Ahmedabad.
Sri Swastik Textile Wood Works, Dudheswar Road, Parmanand Chawl, Ahmedabad.
S. Mehta & Co., Above State Bank of India, Reid Road, Ahmedabad 2.
S. N. Shah & Co., Hiralal Trikamlal Building, Bombay Shroff Galli, 3rd Floor, Station Road, Ahmedabad 2.
Spectrum Dyes, Luck-Nau Bldg., Seth's Pole, Sankadi Sheri, Ahmedabad.
S. Sutaria & Co., Reid Road, Ahmedabad 2.
Standard Materials Co., Narottam Building, Kapasia Bazar, Ahmedabad 2.
S. Thakore & Co., Modh Srimali's Wadi, Char Rasta, Khadia, Ahmedabad.
Sumatilal Popatlal & Co., 697/1, Dhanlaxmi Market, Reid Road, Ahmedabad 2.

SURENDRA & CO., 2244, Baua's Street, Raipur, Ahmedabad. Estd.: 1942 & Resumed 1954. Complete Textile Leather goods and chemicals for sizing, printing and finishing; Dealers and Manufacturers' Representatives. Section 1: Leather goods: 4-B Pickers, Solid Drop Box Pickers and Soco. Moto type Pickers, Picking Bands, Checking Straps, Laces and Buffers with Bands. Section 2: Chemicals: Wheat Starches, sizing and finishing gums, china clay, Mineral white for resist printing, genuine Turpentine and chemical Auxiliaries such as Triethylamine, Tinchloride, Mutyl acetate, Sodium-Acetate, Glanber salt, Glue Stakes and Glue-slabs. Section 3: Weaving Accessories: Healds, Heald-Cord, Dobby-Twine, Heald Piecing yarn, Elastic cord, Shuttle-Pegs (Lignostone) and Indian Tallows. Section 4: Canes and its baskets and bandings. Section 5: Packing: Jute-Rolls, Gum-Tapes and cotton & silk advertising tapes.

Surendrakumar & Bros., Reid Road, Ahmedabad 2.

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

Taheralli Sultanalli & Bros., 1475/76, New Madhupura, Ahmedabad.
Tarkas Engineering Works, Haridas Acharatlal Cloth Market, Kapasia Bazar, Ahmedabad 2.
Texind Corporation Ltd., Reid Road, Ahmedabad 2.
Textile Commercial Co., Haridas Acharatlal Cloth Market, Ahmedabad 2.
Textile Stores Co., C/o N. Desai & Co., Nava Darwaja, Char Rasta, Ahmedabad.
Textrade Syndicate, 412, Ashram Road, Ahmedabad 9.
Thakarshi Chunilal Parikh & Co., Madhupura, Ahmedabad.
Union Mill Stores Co., Dalal Bldg., Kapasia Bazar, Ahmedabad 2.
Universal Trading Corporation, A/8, Maskati Market, Ahmedabad 2.
Vaishwaner Trading Co., Hathipura, Opp. Nava Madhupura, Ahmedabad.
Vasa Bros., 626/5, Vohora's Dehla, Kapasia Bazar, Ahmedabad 2.
V. D. Shah & Bros., 29, Girdharnagar, Ahmedabad 4.
Vijay Traders, Pakhalini Pole, Mahadevwala's Khancha, Raipur, Ahmedabad.
Vithaldas Makanji & Sons, Vohra's Dehla, Kapasia Bazar, Ahmedabad.
Welspun Bobbin Co., Gujarat Hosiery Factory Compound, Rakhial Road, Ahmedabad 10.
Weltex Industrial Trading Co., Companywala Market, Kapasia Bazar, Ahmedabad 2.
Yashwant & Co., Motilal Mansion, Kapasia Bazar, Ahmedabad 2.

OIL ENGINES AND SPARE PARTS DEALERS

RANJEET ELECTRIC & ENGINEERING CORPORATION, Madina House, Near Jakaria Masjid, Relief Road, Ahmedabad 1; Authorised Dealers for Kirloskar oil Engines, Electric Motors, all types of Pumps, Groundnut Decorticators, Sugar Cane Crushers, Hand & Power Deep-well Pumps; Dealers in all types of Rubber Hoses and Engine Spare parts.

OIL AND OIL CAKES MANUFACTURERS AND DEALERS

MANILAL & CO., 622/9, Kapasia Bazar, Ahmedabad 2.

OPTICIANS

Estd.: 1935 Grams: "CHASMAGHAR"

ANUBHAI & CO.,

Manufacturing Opticians
Gandhi Marg
Ahmedabad (Gujarat)

Sole Distributors:
Ostain De Luxe, Light of Asia, Ambassador and Comel De Luxe Frames.

Chandulal Premchand & Co., Three Gates, Ahmedabad.
C. M. & Co., Three Gates, Ahmedabad.
Dhirajlal & Co., Gandhi Road, Ahmedabad.
General Electric & Optical Stores, Khadia Char Rasta, Ahmedabad.
Jyoti Optical Co., Opp. Phatasa Pole, Gandhi Road, Ahmedabad.

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Kantilal Jeshingbhai & Co., Three Gates, Ahmedabad.
Peshotan M. Dastur & Co., Three Gates, Ahmedabad.
Ramanlal & Co., Pankore Naka, Ahmedabad.
Rajnagar General Optical Stores, Khadia Char Rasta, Ahmedabad.
Ranjanlal M. Shah, Pankore Naka, Ahmedabad.
Sarabhai & Co., Pada Pol, Gandhi Road, Ahmedabad.
S. U. S. Davey & Sons, Pankore Naka, Ahmedabad.

PAINTS, ENAMELS AND VARNISHES

Allied Engineers, Reid Road, Ahmedabad.
C. S. Vohra & Co. (Estd. 1938), Pankore Naka, Ahmedabad 1.
D. Prajapati & Co., Near Tarkos Bldg., Relief Road, Ahmedabad 1.
L. G. Amin & Co., Menil House, Kadia-Kui, Relief Road, Ahmedabad.
N. M. Shah & Co., Opp. Jumma Masjid, Ahmedabad.
Sultanally Gulamhusein & Sons, 289, Fernandiz Bridge, Ahmedabad.
S. Shantilal & Co., Pankore Naka, Ahmedabad.
United Trading Co., 1843, Near Allahabad Bank, Pankore Naka, Ahmedabad.

PAINT AND VARNISH MANUFACTURERS

Jayashree Industries, Bala Hanuman, Ahmedabad.
Mayor Paint Works, Near Chamsa Gate, Reid Road, Ahmedabad.
Pioneer Mfg. Co., Haripura Road, Asarwa, Ahmedabad 11.
Scientific Printers Materials Mfg. Co., Mirzapur Road, Ahmedabad.
Valian Paints P. Ltd., 38, Madhubhai Mills Compound, Railwaypura, Ahmedabad 2.

PAPER MERCHANTS

Ahmedabad Paper Mart, C/o Ahmedabad Type Foundry, Opp. Telephone Office, Shahpur, Ahmedabad.
Ahmedabad Paper Stores, Kagdi Bazar, Ahmedabad.
Ajit Paper Mart, Khadia, Char Rasta, Ahmedabad.
Balgovind Kuberdas & Co., Khadia, Char Rasta, Ahmedabad.
Central Paper Mart, Khadia, Char Rasta, Harnwali Pole, Ahmedabad.
Chandulal Umedchand Shah, Sankadi Sheri, Ahmedabad.
Chunilal Motichand Shah, Under Fernandiz Bridge; Dhinkavani Wadi, Ahmedabad.
Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad.
Dwarkadas & Bros., 995, Khadia, Char Rasta, Ahmedabad.
East India Paper Co., Navadarwaja Road, Ahmedabad.
F. Trivedi & Co., Near Balahanuman, Richey Road, Ahmedabad.
Ganesh Paper Mart, Sankadi Sheri, Ahmedabad.
Girdharlal Damodardas P. Ltd., 691, Reid Road, Ahmedabad.
G. M. Kakiwala, 981, Timba Pole, Panchpati, Ahmedabad.
GOKALDAS MOTILAL, Vohra Building, Kapasia Bazar, Ahmedabad 2.
Gokaldas & Sons, Balahanuman, Kavishwarni Pole, Ahmedabad.
Good Luck Paper Mart, Khadia, Char Rasta, Ahmedabad.
Gujarat Paper Stores, 1196, Karodani Pole, Panchpati, Ahmedabad.
Gunvantray & Co., Khadia, Char Rasta, Navadarwaja Road, Ahmedabad.
Habib Bhai Gulam Mohmad Hawawala, Timba Pole, Panchpati, Ahmedabad.
Harikripa Paper Co., Navadarwaja Road, Ahmedabad.
Harivadan Balkrishna Sheth, Rajamata Pole, Ahmedabad.
Harshad Kumar Bhogilal & Co., Cotton Waste Merchants' Assen. Bldg., 1st Floor, Relief Road, Ahmedabad 1.
Hawa Paper Stores, Timba Pole, Panchpati, Ahmedabad.
Hawawala Paper Mart, Panchpati, Timba Pole, Ahmedabad.
Hiralal & Co., Navadarwaja Road, Char Rasta, Ahmedabad.
Indulal & Co., Kapasia Bazar, Ahmedabad 2.
Jayant Paper Mart, Raipur, Ahmedabad.
KALYAN PAPER MART, 646, Char Rasta, Nava Darwaja Road, Ahmedabad 1. Largest Paper Dealers in the Gujarat State; Sole Distributors for: Rohtas Industries Ltd., Dalmianagar, Ratlam Strawboard Mills Private Ltd., Ratlam; The Hooghly Ink Co. (Bombay) Ltd., Standard Pulp and Paper Factory, Nasik.
Kantilal & Co., Gandhi Road, Ahmedabad.
Kasambhai Mohmadbhai Ranginwala, Panchpati Kalupur, Ahmedabad.
Khandeker Bros., Navadarwaja Road, Ahmedabad.
K. N. Mehta & Co., 1956/2, Khadia, Char Rasta, Ahmedabad.
K. SAKHIDAS & CO., Importers & Dealers in Papers, Boards & Printing Inks & Materials, New Vasan Market, Manekchowk, Ahmedabad.
Mehta Brothers, Under Fernandiz Bridge, Ahmedabad.
Miyamohmad Gulammohmad, 1086, Panchpati, Near Timba Pole, Ahmedabad.
Mukundlal H. Mehta, Ravpura Road, Baroda.
N. Desai & Co., Char Rasta, Navadarwaja Road, Ahmedabad.
Noble Paper Mart, Khadia, Char Rasta, Ahmedabad.
Ochhavlal Keshavlal Parikh, Rajamehtani Pole, Ahmedabad.
Patel & Co., Dabgarwad, Ahmedabad.
Pioneer Trading Co., 653, Sakar Bazar, Ahmedabad.
Pramod Paper Mart, Khadia Golerad, Ahmedabad.
Pravin Patel & Co., Moti Hamam, Ghee Kanta, Ahmedabad 1.
Rajhans Paper Mart, 664, Khadia, Char Rasta, Ahmedabad.
Rajnagar Paper Mart, Kalupur, Panchpati, Bakarally Pole, Ahmedabad.
Rajnagar Paper Stationery Mart, Kagdi Bazar, Ahmedabad.
Ramesh Brothers, New Vasan Market, Ahmedabad.
Ramesh Paper Mart, Khadia, Char Rasta, Haranwali Pole, Ahmedabad.
R. OCHHAVLAL & CO., 694, Khadia Char Rasta, Navadarwaja Road, Ahmedabad. Distributors for the Sirpur Paper Mills Ltd. Manufacturers of Exercise Note books, Files, etc. Phone: 3417. Grams: "FOOLSCAP."
R. Vadilal & Co., C/o Keshriaji P. Press, Gheekanta Road, Ahmedabad.
Shah Chimanlal Chhotalal, Khadia, Char Rasta, Haranwali Pole, Ahmedabad.
Shripat Gordhandas & Sons, 693, Reid Road, Railwaypura, Ahmedabad.
S. M. Bhavsar & Co., 718/4, Gheekanta Road, Ahmedabad.
Star Paper Mart, Khadia, Char Rasta, Ahmedabad.
Sudama Paper Mart, Haranwali Pole, Khadia, Char Rasta, Ahmedabad.
SUPER TRADERS, Haranwali Pole, Khadia, Char Rasta, Ahmedabad 1.
SWASTIK PAPER MART, 1962/2, First Floor, Inside Panchkuva Darwaja, Ahmedabad.
Vadilal & Co., 1268, Rajamehtani Pole, Ahmedabad.
Vinod Paper Mart, 648, Navadarwaja Road, Ahmedabad.

PERFUMERS AND OIL MANUFACTURERS

ROHIT INDUSTRIES, 1759, Gandhi Road, Ahmedabad.

PENCIL MANUFACTURERS

ACME AGENCIES PENCIL FACTORY, Near Gita Mandir, Char Rasta, Jagannath Road, Ahmedabad.

PETROLEUM PRODUCTS

American Oil & Trading Co., Jekor Building, Revdi Bazar, Ahmedabad.
Burmah-Shell Oil Storage & Distributing Co., of India Ltd., Mission Road, Bhadra, Ahmedabad.
Caltex (India) Ltd., Asarwa Station Yard, Ahmedabad.
Gulf Oil Co., Ltd., Co-operative Bank Building, Relief Road, Ahmedabad.
Standard-Vacuum Oil Co., Oriental Building, Relief Road, Ahmedabad.

PICKERS AND BUFFERS

Ahmedabad Picker Works, Near Railway Lane, Nava Vadaj, Ahmedabad.
Allied Textile Leather Industries, Outside Raipur Gate, Kot-ni-Dival, Ahmedabad.
Chandabhai Bros. & Co., P.O. Box No. 34, Dabgarwad, Ahmedabad-1.
GRADUATE PICKER WORKS, Picker Pioneers, P.O. Box No. 91, Dabgarwad, Ahmedabad 1. Pickers for Cotton, Woollen, Silk, Jute, Canvas & Durry Looms; Specialities: Northrop Pickers & Pickers for all Kinds of Parallel Picking Motion Automatic Looms.
Hides & Leather Products Ltd., Reid Road, Railwaypura Post, Ahmedabad.
Hides & Pickers Trading Co., Dabgarwad, Dariapur, Ahmedabad.
H. Mansuri & Sons, P.O. Box No. 84, Dabgarwad, Ahmedabad.
Jai Hind Leather Industries, Reid Road, Railwaypura Post, Ahmedabad.
J. Mansuri & Sons, P. O. Box No. 92, Dabgarwad, Ahmedabad-1.
Loom Leather Private Ltd., Arenda Hall, Kapasia Bazar, Railwaypura, Ahmedabad-2.
NEW INDIA PICKER WORKS, Near Khandni Sheri, Jamalpur, Ahmedabad.
Patel & Parmar Picker Works, Nava Vadaj, Ahmedabad-13.
PICKERS LIMITED, Ellis Bridge, Ahmedabad 6. Well Reputed for Superb quality of all kinds of Pickers.
Standard Leather Products, Dariapur, Dabgarwad, Ahmedabad 1.
Swastika Industries, Opp. Talao, Amraiwadi, Ahmedabad.
Swastik Leather Mfg. Co. P. Ltd., Motilal Hirabhai Market, Railwaypura, Ahmedabad-2.

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PICKING BANDS AND BELTINGS

BELTEX PRIVATE LTD., Ellis Bridge, Ahmedabad 6; Well reputed for superb quality of all their products.

PIPES AND FITTINGS MANUFACTURERS AND MERCHANTS

ABDUL SAMAD ABDUL KADAR & SONS, Panchpatti, Kalupur, Ahmedabad 1. Phone: 4543. Grams: "FOOTVALVE." Manufacturers of Gun-metal & Cast Iron Valves & Cocks for water, steam, oil, chemicals & Boiler Mountings, Pipe Fittings, Sanitary Fittings, Fire Fighting Appliances, Hose Fittings, Agricultural Implements and Textile Machinery Spares.

Alcock Cement Pipes and Concrete Works, Char Rasta, Khadia, Ahmedabad.

B. C. MASHRUWALA & BROS., 657, Kapasia Bazar, Ahmedabad 2. Importers & Stockists: All sorts of Pipes, Pipe-fittings, Boiler Tubes, Beam Pipes, Hopkinsons Bronze Valves & Boiler Mountings, etc. Agents: G. M. "Venus" Valves. Branch: 87/91, Dhanji St., Bombay 3.

B. Lalbhai & Co., Pankore Naka, Ahmedabad.

BHARAT ENGINEERING CORPN., Moti Makeriwad, 2396-A/1, Relief Road, Ahmedabad 1.

C. GORDHANDAS & CO., Outside Panchkuva Gate, Ahmedabad 2. Largest Stockists of Leader Valves and Cocks.

C. K. Vohra & Co., Revdi Bazar, Ahmedabad.
C. Laxmichand & Co., Revdi Bazar, Ahmedabad.
C. S. Vohra & Co., Pankore Naka, Ahmedabad.
Dahyabhai Nanalal & Co., Kapasia Bazar, Ahmedabad.
Eastern Trading Agency, Kapasia Bazar, Ahmedabad.

FADIA BROS., 1099, Pankore Naka, Ahmedabad.

G. A. LATIF & SONS, Revdi Bazar, Ahmedabad 2; Dealers in all sorts of Pipe-Fittings, Packings, Brass and Copper Tubes and Manufacturers of Gun-metal, Cast Iron and Stainless Steel Valves, etc.

Gokaldas & Sons, Kaveeshverni Pole, Ahmedabad.
Gujarat Cement Pipe Co., Nachiketa Bungalow, Opp. Municipal Market, Maninagar, Ahmedabad 8.

H. CHOKSHI & COMPANY (CHOKSHI & CO.), Kapasia Bazar, Ahmedabad 2.

Indian Hume Pipe Co. Ltd., Saraspur, Ahmedabad.
Jitendra & Co., Relief Road Naka, Ahmedabad.
J. Ramanlal & Co., Cross Lane, Ahmedabad.

KANTILAL & CO., Ramakada Market, Pankore Naka, Ahmedabad.

Kashiparekh Bros., 564, Reid Road, Ahmedabad.
K. C. Mashruwala & Co., Reid Road, Ahmedabad.
Madhavlal & Co., Pankore Naka, Ahmedabad.
Natwarlal & Co., Kapasia Bazar, Ahmedabad.
Navanitlal Manilal Shah, Dhalnipole, Jagabhai's Street, Ahmedabad.
Rajendrakumar Navanitlal & Co., Kapasia Bazar, Ahmedabad.

SHETH STORES TRADING CO., Deepak Chamber, Station Road, Ahmedabad 2.

Spun Pipe Co. of India Ltd., Gandhi Road, Ahmedabad.

STAR METAL INDUSTRIES, Manufacturers of Cocks, Valves, Hose Couplings, Pipe-Fittings of Gunmetal, Cast-Iron and Fire Fighting Appliances; 1769-1, Kalupur Road, Ahmedabad 1. Grams: "SMILE."

PUMP MERCHANTS

Abdul Samad Abdul Kadar & Sons, Panchpati, Kalupur, Ahmedabad.
E. A. Latif & Sons, Revdi Bazar, Ahmedabad.
Kirloskar Brothers, Opp. Navi Mohalat, Relief Road, Ahmedabad.
Manubhai Parikh & Co., Badshah Bhuvan, Near Kadia Kuin, Ahmedabad.
M. H. Brothers, Kalupur Road, Ahmedabad.
Myers Pumps, Near Ashok Nivas, Relief Road, Ahmedabad.
Ramvijay Iron Works, 664, Gheekanta Road, Ahmedabad.
U. D. Dave & Co., Near Shetia Building, Relief Road, Ahmedabad.
Well-Known Brothers, Opp. Zakaria Masjid, Relief Road, Ahmedabad.

PRINTING PRESSES

Adarsh Printery, Relief Road, Padshah's Pole, Kalupur, Ahmedabad.
Aditya Mudranalaya, Near Prarthana Samaj, Raikhad Road, Ahmedabad.
Advance Printery, Panch Kuva, Railwaypura Post, Ahmedabad.
Ahmedabad Fine Art Printing Press, Astodia Road, Ahmedabad.
Ajay Printery, Naroda Road, P.O. Railwaypura, Ahmedabad.
Alliance Printery, Ambliwali Pole, Back Side, Shahpur, Ahmedabad.
Amrat Vijay Printing Press, Ganchi's Pole, Manek Chowk, Ahmedabad.
Anandmata Printing Press, Sakar Bazar, Ahmedabad.
Aroon Art Printery, The New High School Premises, Pirmasha, Ahmedabad.
Ashok Art Printery, Astodia Road, Ahmedabad.
Bhagvati Printery, Opp. Jeshingbhai's Wadi, Gheekanta, Ahmedabad.
Bharat Vijaya Printing Press, Opp. Municipal School No. 6, Astodia Road, Ahmedabad.
Bipin Printery, Mission Road, Ahmedabad.
Chandrika Printery, Mirzapur Road, Ahmedabad.
Dharati Mudranalaya, Raikhad Mill Compound, Ahmedabad.
Dharma Vijaya Press, Ratan Pole, Limbu Pole, Ahmedabad.
Diamond Jubilee Printing Press, Salapose Road, Ahmedabad.
Dinker Printery, Dhalgarwad, Ahmedabad.
Dipak Printery, Near Raipur Darwaja, Ahmedabad.
Gold Mohor Printing Press, Harisadan Nivas, 997, Khadia, Char Rasta, Ahmedabad.
Golibar Printing Press, Near Khamasa Choki, Ahmedabad.
Grand Printing Press, Relief Road, Ahmedabad.
Harihar Printing Works, Khadia, Char Rasta, Golwad, Ahmedabad.
Honest Printery, Gheekanta, Ahmedabad.
Imperial Printery, Near Novelty Talkies, Ghee Kanta Road, Ahmedabad.
Indian Art Printery, Richey Road, Opp. Fountain, Ahmedabad.
Ishwar Printing Press, 3012, Ratan Pole, Ahmedabad.
Jain Advocate Printing Press, Jesingbhai's Wadi, Ghee Kanta, Ahmedabad.
Jay Gujarat Press, Navi Pole, Gomtipur, Ahmedabad 10.
Jay Hind Printery, Navgaja Pir, Panchpati, Kalupur, Ahmedabad.
Jyoti Printery, Near Raipur Darwaja, Ahmedabad.
Kala Printery, Outside Kalupur Gate, Opp. Police Station, Ahmedabad.
Kalpana Printery, Outside Raipur Gate, Anath Ashram Bldg., Ahmedabad.
Kalyan Vijay Printing Press, Gandhi Road, Ahmedabad.
Kamodia Printing Press, 264, Madalpur, Ellis Bridge, Ahmedabad 6.
Khadayata Murran Kala Mindar, Ghee Kanta, Ahmedabad.
Krishna Printing Press, Jainwadi, Manek Chowk, Ahmedabad.
Kumar Printery, 1454, Raipur, Ahmedabad.
Kasoti Printing Press, Revdi Bazar, Ahmedabad.
Lordkin Printery, Khadia, Sir Chinubhai Road, Ahmedabad.
Mahavir Printing Press, Khadia, Char Rasta, Ahmedabad.
Mahendra Printing Press, Golwad, Ratan Pole, Ahmedabad.
Mahesh Mudranalaya, Shankar Bhuvan, Shahpur Bridge, Ahmedabad.
Mangal Mudranalaya, Ratan Pole, Ahmedabad.
Manhar Printing Press, Katpitia, Mahajan Wadi, Outside Kalupur, Ahmedabad.
Manorath Printery, Tankshal, Kalupur, Ahmedabad.
Monarch Printery, Reid Road, Ahmedabad.
Nagori Printing Press, Germansilverwala Market, Ratan Pole, Ahmedabad.
Narayan Printing Press, Jain Wadi, Near Central Bank, Gandhi Road, Ahmedabad.
Navajivan Mudranalaya, Navarangpura, Ahmedabad.
Nav Prabhat Printing Press, Gheekanta, Ahmedabad.
New City Printing Press, Dhalgarwad, Ahmedabad.
New Rasik Printing Press, L. K. Trust Bldg., Panchkuva, Ahmedabad.
Nil Kamal Printery, Ghee Kanta, Opp. Civil Hospital, Jesingbhai Kalidas Bldg., Ahmedabad.
N. M. Printing Press, Dabhgarvad, Dariapur, Ahmedabad.
Oriental Printing Press, Ghanchi's Wadi, Pankore Naka, Ahmedabad.
Phoenix Printing Works, Outside Delhi Gate, Opp. Painter Garden, Ahmedabad.
Praja Bhandhu Press, Gujarat Samachar Bldg., Khanpur, Ahmedabad.
Prakash Printing Press, Panch Khadki Pole, Panchpati, Kalupur, Ahmedabad.
Prashant Printery, Nagori Shala, Ratan Pole, Ahmedabad.
Purohit Printing Press, Gheekanta Road, Ahmedabad.
Radha Krishna Printing Press, Manek Chowk, Ahmedabad.
Rajni Printery, Shethia Bldg., Relief Road, Ahmedabad.
Ram Vijay Printing Press, Sakar Bazar, Ahmedabad.
Ramesh Printery, Khadia, Char Rasta, Ahmedabad.
Royal Printing Works, Kapasia Bazar, Ahmedabad.
Rasik Printery, Khadia, Golwad, Ahmedabad.
Sahitya Printing Works, Richey Road, Near Post Office, Ahmedabad.
Santi Vijay Printing Press, Dhinkwa Chowky, Kalupur, Ahmedabad.
Saraiya Art Printery, Patasa Pole, Richey Road, Ahmedabad.
Saraswati Printing Press, Sandesh Ltd., Gheekanta, Ahmedabad.
Sastu Sahitya Mudranalaya, Swami Akhandanand Road, Bhadra, Ahmedabad.
Shah Printing Press, Ratan Pole, Zaveri Wad, Ahmedabad.
Shakti Printing Press, Raipur, Bhow's Street, Ahmedabad.
Shanker Art Printery, Near Laxmi Vilas Hotel, Gandhi Road, Ahmedabad.
Shree Krishna Mudranalaya, Nava Darwaja Road, Char Rasta, Ahmedabad.

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Shri Ambika Printing Press, Near Bala Hanuman, Gandhi Road, Ahmedabad.
Shri Jagdish Printing Press, No. 552/2, Railwaypura, Panchkuva, Ahmedabad.
Shri Kamlesh Printing Press, Gujarat Vaishya Sabha, Jamalpur, Ahmedabad.
Shri Kesariaji Printing Press, Ghee Kanta, Ahmedabad.
Shri Krishna Printing Press, Richey Road, Near Bala Hanuman, Ahmedabad.
Shri Narayan Litho Press, Near District Court, Bhadra, Ahmedabad.
Shri Narayan Printing Press, Bhadra, Ahmedabad.
Shri Ram Printing Press, Khanpur, Ahmedabad.
Shri Shakti Mudranalaya, Sarangpur, Sarkiwad, Ahmedabad.
Shri Sharda Mudranalaya, Opp. Jumma Masjid, Pankore Naka, Ahmedabad.
Shri Sharda Vijay Printing Press, Near Bala Hanuman, Richey Road, Ahmedabad.
Subhash Printery, Homestead Bldg., Dr. Tankaria Road, Shahpur, Ahmedabad.
Sun Rise Printing Press, Raikhad, Mission Road, Ahmedabad.
Swastik Printery, Raipur, Kotani Rang, Ahmedabad.
Taj Printing Press, Astodia Road, Ahmedabad.
Trivedi Printing Press, Sakar Bazar, Ahmedabad.
Utkrishna Mudranalaya, Near Fernandiz Bridge, Ahmedabad.
Vasant Printing Press, Ghelabhaini Wadi, Gheekanta, Ahmedabad.
Vatan Printing Press, Baluchwad, Kalupur, Ahmedabad.
Vijay Printery, Opp. Desai's Pole, Khadia, Ahmedabad.
Vikas Printers, Manek Chowk, Ahmedabad.
Vir Vijaya Printing Press, Salapose Cross Road, Ahmedabad.

PRINTERS, ENGINEERS AND PROVIDERS

Bombay Picture House, Kalupur Road, Near P. O., Ahmedabad 1.
GUNVANTRAY & CO., Khadia, Char Rasta, Nava Darvaja Road, Ahmedabad & Crescent Chambers, 1st Floor, Tamarind Lane, Fort, Bombay 1.

PRINTING MACHINERY AND MATERIALS MERCHANTS

C. MEHTA & CO., Opp. Gandhi Road Post Office, Ahmedabad. Dealers in all sorts of Printing Materials and Ink.

RADIO MFRS., DEALERS AND PART SUPPLIERS

Ahmedabad Radio & Electric Corporation, Panchkuva, opp. School, Ahmedabad.
Amin Gramophone Mart, Near Bridge, Gandhi Road, Ahmedabad.
Arun Radio Electric Co., Near Dhana Suthar's Pole, Relief Road, Ahmedabad.
Bharat R. Electric Co., Near Arun Society, Ellis Bridge, Ahmedabad.
BOMBAY GARAGE (Ahmedabad) LTD., Shahibag Road, Ahmedabad 4. Tel. Address: "PARKCHIN." Phone: 4615.
Cine Radio Laboratory, Near Cinema, Panchkuva, Ahmedabad.
Dalal & Co., opp. School, Panchkuva, Ahmedabad.
Dave Radio Corporation, Near Town Hall, Ellis Bridge, Ahmedabad.
Deepak Radio Electric Co., Panchkuva, Ahmedabad.
Eastern Radio Service, Panchkuva, Ahmedabad.
Electro Airconditioning Corporation, Mirzapur Road, Ahmedabad.
Emergency Radio House, Near Model Talkies, Gandhi Road, Ahmedabad.
Erose Sound, opp. Cinema-De-France, Gandhi Road, Ahmedabad.
Fadia Radio Crafts, opp. School, Panchkuva, Ahmedabad.
Gandhi & Sons, Pankore Naka, Ahmedabad.
Geeta Radio Corporation, Near Pada Pole, Gandhi Road, Ahmedabad.
Golden Radio Service, opp. Kothari Pole, Gandhi Road, Ahmedabad.
Gupta Radio Service, opp. Noyri Mills, Rajpur, Ahmedabad.
Hillmens Stores, Near Pritamnagar Dhal, Ellis Bridge, Ahmedabad.
Hiralal B. Trivedi & Co., Near Bridge, Gandhi Road, Ahmedabad.
H. V. Kumar & Co., Opp. Doshiwada Street, Kalupur, Ahmedabad.
Imperial Radio House, opp. School, Panchkuva, Ahmedabad.
International Electric, Equipment Company, opp. Police Station, Reid Road, Ahmedabad.
Jagdish & Co., opp. Khadia Post Office, Ahmedabad.
Janata Radio Co., Near Grand Hotel, Khanpur, Ahmedabad.
JAIHIND RADIO CORPORATION, Near Lighthouse, Gheekanta Road, Ahmedabad.
Jayant Radio Corporation, Bhadra, Ahmedabad.
Jayshree Trading Co., Prajapali Bldg., Khadia Char Rasta, Ahmedabad.
J. K Radio Electric & Engineering Co., Panch Pipli, Astodia, Ahmedabad.
J. K. Radio Electric Co., opp. Advance Cinema, Bhadra, Ahmedabad.
J. L. Kharidia & Co., Nagar Bordi's Street, Raipur, Ahmedabad.
Jyoti Radio & Electric House, Parabadini Pole, Raipur, Ahmedabad.
Kachwala Radio Co., Near Lighthouse, Gheekanta, Ahmedabad.
Kamal Radio House, Near City Mills, Kankaria Road, Ahmedabad.
K. B. Vakil & Co., Bala Hanuman, Gandhi Road, Ahmedabad.
Kiran Radio & Electric Stores, Opp. Bhow Pol, Raipur, Ahmedabad.
Kiran Radio Service, Near Khara Kuva's Pole, Relief Road, Ahmedabad.
K. M. Parghi & Co., opp. School, Panchkuva, Ahmedabad.
K. Purnima Sound Corporation, Opp. Dhanasutar Pole, Relief Road, Ahmedabad.
Krishna Kumar & Co., Near Dhanasutar Pole, Relief Road, Ahmedabad.
Listeners Radio Service, Raja Mehta's Pole Naka, Kalupur, Ahmedabad.
Lucky Radio Service, Astodia Chakla, Ahmedabad.
Manu Contractor, opp. Pada Pole, Gandhi Road, Ahmedabad.
Manubhai Parikh & Co., opp. Madhu Baug, Ahmedabad.
Mehta Radio Service, 1446, Sheth's Pole, Mandvi's Pole, Ahmedabad.
Model Radio Service, Piperdi's Pole Naka, Relief Road, Ahmedabad.
M. C. Trading Co., 141, Sindhi Cloth Market, Panchkuva, Ahmedabad.
Metro Sound Co., Nadavala Pole, Madangopal Haveli, Ahmedabad.
MISRA RADIO CORPORATION, Manufacturers, Stockists and Suppliers of all sorts of Radio Parts & Electrical Accessories and M.R.C. Radios; 141, Sindhi Cloth Market, Panchkuva, Ahmedabad 2.
M. J. Vakil & Co., Near Bridge, Gandhi Road, Ahmedabad.
Mohan Radio Service, Bhadra, Ahmedabad.
Mukundrai Trivedi, Near Rly. Crossing, Ellis Bridge, Ahmedabad.
National Radio Co., Manekchowk, Ahmedabad.
Navdurga Radio Electric Co., Dudhia Bldg., Ahmedabad.
Navin Electric Stores, Nagjibhudar Pole, Mandvi St., Ahmedabad.
Orient Radio Electric Co., Rugnath-Bamb Street, Sankdisheri, Ahmedabad.
Paramount Radio Experts, Char Rasta, Khadia, Ahmedabad.
Popular Radio Electric Co., Near Town Hall, Ellis Bridge, Ahmedabad.
Quality Radio Service, Behind Parimal Society, Ellis Bridge, Ahmedabad 6.
Radio Television & Sound System Institute, opp. Model Cinema, Gandhi Road, Ahmedabad.
Ramesh Electric Co., Ganchini Vadi, Dariapur, Ahmedabad.
R. Tolat & Co., Manekchowk, Ahmedabad.
Regal Radio Service, opp. School, Panchkuva, Ahmedabad.
Reliable Radio House, Station Road, Ahmedabad.
Star Radio Electric Co., Philips House, Relief Road, Ahmedabad.
Shree Radio Service, Bhadra, Ahmedabad.
Sweet Radio Service, Raipur Chakla, Ahmedabad.
Super Radio Service, Kharakuva Pole Naka, Relief Road, Ahmedabad.
Unique Radio Service, Bala Hanuman, Gandhi Road, Ahmedabad.
Vanguard Radio Corporation, Near Khadia Police Station, Ahmedabad.
Western Road Co., Char Rasta, Ahmedabad.

REEDS

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

REFRIGERATOR (DOMESTIC)

BOMBAY GARAGE (Ahmedabad) LTD., Shahibag Road, Ahmedabad 4. Tel. Address: "PARKCHIN." Phone: 4615.

ROOF WATERPROOFING

GLADSTONE LYALL & CO. LTD.—Agency Office: Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: CMDR. J. S. Simmons. Head Office: 4, Fairlie Place, Calcutta.

ROPERIES

Bharat Rope & Lace Mfg. Co., Kapasia Bazar, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad, 2.
Nima Trading Co., Cross Lane, Ahmedabad.

RUBBER GOODS MANUFACTURERS

Ahmedabad Hardware Stores, Relief Road, Ahmedabad.
Dunlop Rubber Co. (India) Ltd., Mirzapur Road, Ahmedabad.
Firestone Tyre & Rubber Co. of India Ltd., Near Bagicha Mills, outside Sarangpur, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad.
GOOD YEAR TYRE & RUBBER CO. OF INDIA PRIVATE LTD., 19 20, Bharat Khand Mills Compound 2, Ahmedabad.

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Gujarat Rubber Works Ltd., Station Road, Ahmedabad.
H. Chokshi & Company, Kapasia Bazar, Ahmedabad.
India Tyre & Rubber Co. (India) Ltd., "Patdi House", Ahmedabad.
Rubber Products Ltd., Dudheshwar Road, Bhadra, Ahmedabad.
S. Thakore & Co., Khadia Char Rasta, Ahmedabad.

SANITARYWARE MERCHANTS

Ahmedabad Sanitary Stores, Khadia Char Rasta, Ahmedabad.
Ahmedabad Stone Supplying Co., Khadia Char Rasta, Ahmedabad.
Ambica Trading Corporation, Pankore Naka, Ahmedabad.
Ashwin & Co., Dariapur, Ahmedabad.
Babulal Chimanlal, Khadia, Ahmedabad.
Bharat Sanitary Stores, Relief Road, Kadia Kui, Ahmedabad.

BACHUBHAI CHOKSHI & CO., Pritam Nagar 1st Slope, Mun. Shop No. 14; Ellis Bridge, Ahmedabad 6.

Baldevdas Chhaganlal, Astodia Chakla, Ahmedabad.
Chandulal & Co., Opp. Panchkuva Cinema, Ahmedabad.
Chimanlal Chhaganlal, Raipur, Ahmedabad.

FADIA BROTHERS, 1099, Pankore Naka, Ahmedabad.
GUJARAT TUBE & SANITARY STORES, Khadia Char Rasta, Ahmedabad. Sole Distributors for Gujarat State — Parry & Co. Ltd. (Madras) for Superfine Sanitaryware; Stockists — Asbestos Cement (Private) Ltd., (Mulund) for A.C. Pipes, Fittings & Sheets; T. D. Surekha Iron Foundry Ltd. (Calcutta) for C.I. Pipes & Fittings; The Indian Iron & Steel Co. Ltd., (Bombay) for Typhoon Cisterns.

H. Khericha & Co., Opp. Jumma Masjid, Ahmedabad.
Harilal Attmaram, Lokhand Bazar, Ahmedabad.
Hatim Brothers, Pankore Naka, Ahmedabad.
Hind Hardware & Paint Mart, Sarangpur Chakla, Ahmedabad.
Hirachand Kuberdas Shah, Raipur, Ahmedabad.

Jaintilal & Co., Opp. Panchkuva Cinema, Ahmedabad.
Jaintilal Dayabhai, Saraspur Vasan Street, Ahmedabad.
Kantilal & Co., Pankore Naka, Ahmedabad.

L. G. Amin & Co., Relief Road, Kadia Kui, Ahmedabad.
Lachhawani & Co., Kapasia Bazar, Ahmedabad.
Lallubhai Maganlal Saraspur Vasan Street, Ahmedabad.
Madhavlal & Co., Pankore Naka, Ahmedabad.
Natvarlal Baldevdas, Dariapur, Ahmedabad.

Occhavlal Gordhandas Shah, Khadia Char Rasta, Ahmedabad.
Oghadlal Lallubhai Shah, Khadia Char Rasta, Ahmedabad.
Ramanlal Motilal Shah, Khadia Char Rasta, Ahmedabad.
R. C. Thakkar & Co., Dariapur, Ahmedabad.

RUPESH TRADING CO. Agents for Gujarat — Bombay Potteries & Tiles Ltd., Bombay, Prajapati Bldg., Khadia, Char Rasta, Ahmedabad.

Sanitary Hardware Stores, Kapasia Bazar, Ahmedabad.

SHAH SANITARY STORES, Khadia Char Rasta, Ahmedabad. Phone: 4748. Grams: "EARNEST." Dealers in all kinds of Sanitarywares, Pipes, Pipe Fittings, Marble Chips and Cement Colours.

Shantilal Vadilal, Astodia Chakla, Ahmedabad.
Sumsh Trading Co., Pankore Naka, Ahmedabad.
Talib & Co., Pankore Naka Ahmedabad.
Vamanbhai & Co., Khadia Char Rasta, Ahmedabad

SHUTTLES

SWASTIK TEXTILE TRADING CO. PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

SILK FACTORIES AND MILLS

The Crown Silk & Rayon Mill, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2.

THE DIAMOND SILK & RAYON MILL, Madhowlal Ranchhodlal Colony, Railwaypura, Ahmedabad 2. Looms: 48, Manufacturers of Silk and Art Silk and mix fabrics. Specialities: Tafeta Flowers: 1085 and 1185. Kinkhab: 936. Sole Distributors: J. Kimatrai & Co., New Silk Bazar, Kalbadevi Road, Bombay 2. Proprietors: Mulchandani Bros.

The Nanikram Sobhraj Mills Ltd., Madhowlal Ranchhodlal Colony, Railwaypura, Post Box No. 1041, Ahmedabad 2.
Vijay Weaving Works (Vijay Fabrics), 676/12, Railwaypura, Ahmedabad.
Frion & Co., Reid Road, Ahmedabad.

Patel Brothers Syndicate, Opp. English Cinema, Panchkuva, Ahmedabad.

SOAP MANUFACTURERS

Ajaya Chemical Corpn., Sarangpur Chakla, Ahmedabad.

AHMEDABAD SOAP INDUSTRY, Itwada Chawl, Opp. Kalupur Bridge, Ahmedabad.

Amar Soap Factory, Sankdi Sheri, Ahmedabad.
Anil Soap Works, Gheekanta Road, Ahmedbad.
Arvind Soap Factory, Sarangpur Chakla, Ahmedabad.
Azad Soap & Oil Industries, Azad Bldg., Kubernagar, Ahmedabad.
Babu Soap Works, Dhalgarwad, Ahmedbad.

BHARAT SOAP WORKS, Manufacturers of High Class Washing Soap, 221, Sayadwada, Inside Astodia Gate, Ahmedabad.

Charbhuja Soap Works, Inside Raipur Darwaja, Ahmedabad.
Chatur Soap Works, Near Swaminarayan Temple, Khodi Amli, Ahmedabad.
Commercial Soap Works, Bukhara's Pole, Shahpur, Ahmedabad.
Coronation Soap Works, Jeshingbhai's Wadi, Gheekanta Road, Ahmedabad.
Everest Soap Works, Dhupelwali Pole, Kalupur, Ahmedabad.
Imperial Soap Factory, Dhalgarwad, Ahmedabad.
Indian Soap Product, Near I. N. C. Bus Stand, Kubernagar, Ahmedabad.

JAGDIP SOAP WORKS, Chamanpura, Asarva, Ahmedabad.

Janta Soap Works, Bhutni Amli, Raipur, Ahmedabad.
Jaswant Soap Industries, Khamasa Gate, Ahmedabad.
Kailas Soap Factory, Sarabhai's Wanda, Gheekanta Road, Ahmedabad.
Kamal Soap Industries, Dhalgarwad, Ahmedabad.
Kanaya Soap Factory, Dhalgarwad, Ahmedabad.

K. D. CHEMICAL WORKS, Delhi Chakla, Ahmedabad. Washing Soaps and Spritons Medical & Toilet preparations.

Kheda Soap Factory, Gheekanta Road, Ahmedabad.
Kohinoor Soap Factory, Dhalgarwad, Ahmedabad.
Kotiyark Soap Factory, C/o Kotiyark Society, Kankaria, Ahmedabad.
Maher Soap Factory, Jayabharat Rangshala Compound, Saraspur, Ahmedabad.
Makim Soap Factory, New Cotton Mill Compound, Outside Raipur Darwaja, Ahmedabad.
Naaz Soap Works, Dhalgarwad, Ahmedabad.
Naresh Chemical Industries, Medikuva, Outside Shahpur Gate, Ahmedabad.
Nimco Soap & Chemical Industries, Potalia Talao, Ahmedabad.
Ojas Corporation, New Manekchowk Mill Compound, Outside Raipur Darwaja, Ahmedabad.
Paramount Soap Factory, Potalia Talao, Behind Vikram Mill Compound, Saraspur, Ahmedabad.
Paras Soap Factory, Rughnathpurani Pith, Outside Raipur Gate, Ahmedabad.
Patel Trading Co., Cement Chawl, Gomtipur, Ahmedabad.
Prabhat Soap Works, Potalia Talao, Saraspur, Ahmedabad.
Prakash Soap & Chemical Industries, Girdhar Master's Compound, Saraspur, Ahmedabad.
Ranaji Soap Works, Dhalgarwad, Ahmedabad.
Ranjit Soap Factory, Opp. Khamasa Gate, Ahmedabad.
Ratilal Harjivandas Naik, Madhubhai Mill Compound, Ahmedabad.
Romesh Soap Industries, Opp. Premdarwaja, Ahmedabad.
Saraswati Products, Kapasia Bazar, Ahmedabad.
Sarvodaya Soap Works, Madhubhai Mill Compound, Ahmedabad.
Scientific Soap Works, Madhubhai Mill Compound, Ahmedabad.
Shivshanker Soap Works, Kubernagar, Ahmedabad.
Shyamsunder Soap Works, Kubernagar, Ahmedabad.
Silver Soap Works, Kubernagar, Ahmedabad.
Sudh Soap Industries, Outside Raipur Gate, Ahmedabad.
Sunrise Soap & Chemical Industries, Vastaghelji's Pole, Shahpur, Ahmedabad.
Sunder Soap Works, Dhalgarwad, Ahmedabad.
Supreme Soap Works, Potalia Talao, Saraspur, Ahmedabad.
Teli Soap & Chemical Industries, Bhadra, Ahmedabad.
Universal Soap Factory, Dhalgarwad, Ahmedabad.
Vandematram Soap & Chemical Industries, Outside Sarangpur Gate, Ahmedabad.

SPORTS GOODS

Fortune & Co., Opp. Shaker Kotda Police Chowky, Gandhi Road, Ahmedabad.
Macwan Sports Co., Near Electricity House, Lal Darwaja, Ahmedabad.
New Gujarat Sports Co., Station Road, Ahmedabad.
Orient Sports Co., Near Vadilal Hospital, Ellis Bridge, Ahmedabad.
Vakil & Co., Three Gates, Ahmedabad.

STATIONERY & OFFICE EQUIPMENT MFRS. & SUPPLIERS

Bombay Garage (Ahmedabad) Ltd., Shahibag, Ahmedabad.

C. MEHTA & CO., Opp. Gandhi Road, Post Office, Ahmedabad. Manufacturers of Wedding & Greeting Cards and Envelopes Specialists.

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C. M. Brothers, Near Fuvara, Ahmedabad.
C. S. Brothers, Dhal's Pol, Astodia, Ahmedabad.
Desai & Co., Gandhi Road, Ahmedabad.
General Book Depot, Below Gandhi Road, Bridge, Ahmedabad.
Jalian Trading Co., Fuvara, Ahmedabad.
Jehangir Brothers, Oriental Bldgs., Relief Road, Ahmedabad.
Kant Desai & Co., Near Khadia Char Rasta, Ahmedabad.
Manubhai Lalbhai Shah, Near Purnima Restaurant, Gandhi Road, Ahmedabad.
Mody Brothers, Opp. Gujarat Hotel, Gandhi Road, Ahmedabad.
Mehta Brothers, Three Gates, Ahmedabad.
Navyug Book Depot, Gandhi Road, Balahanuman, Ahmedabad.
N. Dalnichand & Co., Gandhi Road, Ahmedabad.
Office Supplies Emporium, 401-1, Khadia, Ahmedabad.
Parekh & Co., Gandhi Road, Ahmedabad.
Parikh & Parikh, Gandhi Road, Ahmedabad.
Ravindra & Co., 3087 Gandhi Road, Ahmedabad.
Remington Rand Inc., Lal Darwaja Road, Ahmedabad.
R. Mehta & Co., Under Fernandez Bridge, Ahmedabad.
S. Sutaria & Co., Reid Road, Ahmedabad.

STEEL TRUNK MANUFACTURERS

HASANALI ALIBHAI RAJKOTWALA, Pankore Naka 3, Ahmedabad 1.

STRAW BOARD MERCHANTS

NARESHCHANDRA & CO., 76, Narshinh Bhuvan, Girdharnagar, Shahi Baug, Ahmedabad 4. Distributors for the Arvind Boards & Paper Products Ltd., Bilimora for their "Ashvaraj" Straw-Boards.

STRUCTURAL WATERPROOFING

GLADSTONE LYALL & CO. LTD.—Agency Office: Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: CMDR. J. S. Simmons. Head Office: 4, Fairlie Place, Calcutta.

SUPPLIERS AND STOCKISTS

BHARAT ENGINEERING CORPN., Moti Makeriwad, 2396-A/1, Relief Road, Ahmedabad 1.

SURGICAL INSTRUMENTS

Ahmedabad Surgical Co., Opp. Juma Masjid, Gandhi Road, Ahmedabad.
Jay Hind Surgical Agency, Dhalgarwad, Ahmedabad.

MODERN TRADERS (AHMEDABAD), Hospital & Laboratory Furnishers, Relief Road, Opp. Kalupur Police Station, Ahmedabad 1. Phone: 3783. Grams: "REASTAINS."

Patel Surgical & Medical Depot, 665, Girdhar Chambers, Opp. Model Talkies, Ahmedabad.
Sudhir Labo, Surgical Depot, Opp. Bala Hanuman, Gandhi Road, Ahmedabad.

TEXTILE MACHINERY AND SPARE PARTS MANUFACTURERS AND DEALERS

A. B. Brothers, 129, Gheekanta Road, Ahmedabad.
A. Bhudharbhai Kishor & Sons, Gheekanta Road, Ahmedabad.
Ahmedabad Iron & Brass Factory, Bharatkhand Cotton Mills Compound, Asarwa Road, Ahmedabad 11.
Ahmedabad Victoria Ironworks Co., Ltd., Doodhesar Road, Ahmedabad.
Altex Ltd., Ramolia Building, Relief Road, Ahmedabad.
Alliance Textile Agency, Near R. C. High School, Gheekanta Road, Ahmedabad 1.
Atmaram Mohanlal Panchal, Rantiwadi, Mirzapur, Ahmedabad.

BHARAT TEXTILE TRADERS, Dariapur, 713, Lunsawada, Opp. Nariaward, Ahmedabad-1.

Bracewell, J., Ltd., Haribhai Market, Ahmedabad.
Brady & Co., Ltd., W. H., Railwaypura Post, Reid Road, Ahmedabad.
Card Clothing & Belting Ltd., Kapasia Bazar, Ahmedabad.

CHEMICO TEXTILE INDUSTRIES, Tagara Mills Compound, Near Vora Roja, Kankaria Road, Ahmedabad.

C. Doctor & Co., Khokra Mehmedabad, Maninagar, Ahmedabad.

ENGLISH CARD CLOTHING CO., LTD., Maninagar, Ahmedabad. Branch Manager: Mr. K. M. Shah.

Frion & Co., Reid Road, Ahmedabad 2.
Gannon Dunkerley & Co., Ltd., Railwaypura Post, Ahmedabad.

GARLICK & CO. PRIVATE LTD., Maskati Market 2, Ahmedabad.

GOKALDAS MOTILAL, Vohra Building, Kapasia Bazar, Ahmedabad 2.

Indequip Ltd., Reid Road, Ahmedabad.
Indian Textile Engineers Ltd., 679/18, Station Road, Ahmedabad.
Indo Swiss Textile Machinery Mfg. Co., C/o Ideal Motors Ltd., Lal Darwaja, Ahmedabad.
India Metal Works, 1758/1-2, Mirzapur Road, Ahmedabad.
Industrial Spare-Parts Co., Relief Road, Kadia Kui, Ahmedabad.
International Suppliers, Companywala Market, K. Bazar, Ahmedabad 2.
Jagdish Iron & Brass Factory, 1175, Pankore Naka, Ahmedabad.
Jaymes Engineering Co., Relief Road, Ahmedabad.

METAL MOULDERS PRIVATE LTD., Dudhesar Road, Ahmedabad. Manufacturers of Dyeing, Bleaching and Printing Machinery and Rubber and Ebonite rollers.

Mistry Ambalal Jetharam Iron & Brass Factory, Gheekanta Road, Ahmedabad.
National Machinery Mfg. Works, Gheekanta Road, 652-10, Panchal Blocks, Ahmedabad 1.
Nima Trading Co., Cross Lane, Ahmedabad.
Ormerods (India) Ltd., Kapasia Bazar, Ahmedabad.
Sizing Materials Co., Ltd., Kapasia Bazar, Ahmedabad.
Shivlal Virchand Contractor, Near Potalia Talav, Saraspur, Ahmedabad.
Smith Engineering Works, Rupapari Pol, Dariapur, Ahmedabad.

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

T. Maneklal Mfg. Co., Ltd., Reid Road, Ahmedabad.
Tex Maco, Chotley Lal Building, Kadia Kui, Relief Road, Ahmedabad.

TEXTILE MACHINERY MANUFACTURING COMPANY, Engineers and Merchants, Lal Cinema Compound, Gomtipur Road, Ahmedabad 10.

U. M. MISTRY & SONS, 2783, Pankore Naka, Ahmedabad; Office: Crescent Chambers, Tamarind Lane, Fort, Bombay; Manufacturers of Textile Machinery, Machine Spares; Specialists—Manufacturing of Stainless Steel Dyeing plant accessories, Steel Furniture and Steel Structure.

Voltas Ltd., Mirzapur, Ahmedabad.
Williamsons (India) Ltd., 670/22, Motilal Hirabhai Market, Railwaypura, Ahmedabad.

THERMAL INSULATION ENGINEERS

GLADSTONE LYALL & CO., LTD., Agency Office: Textile and General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager: CMDR. J. S. Simmons. Head Office: 4, Fairlie Place, Calcutta.

TIMBER AND PLYWOOD MERCHANTS

MAGANLAL MANILAL SHETH, 1062 N 16, Sahakari Lati Bazar, Jagannathji Road, Ahmedabad.

Thakar, Nathalal Lallubhai, Kalupur, Ahmedabad.
Thakar Shivlal Lalubhai, Opp. Kalupura Gate, Ahmedabad.
Tobacco Trading Co., Hathipura, Ahmedabad.
Vithaldas Ranchoddas, Doshiwada Pole, Kalupura, Ahmedabad.

TRANSPORT COMPANIES

Ahmedabad Carriers Ltd., Near Purushotham Mills, Kagadapith, Ahmedabad.
Bagdi Transport Co., Zakaria Pol, Relief Road, Ahmedabad.
Bharat Service Ltd., Patel Society, Khanpur, Ahmedabad.
Kirti Transport Co., Outside Panchkuva Gate, Ahmedabad.
Munshi & Co., Near Zakaria Masjid Salapore Road, Ahmedabad.
New Era Construction & Transport Co. Ltd., Madhavbaug, Sarangpur, Ahmedabad.
Parikh Transport Co., Kalupur, Danapith Khancha, Ahmedabad.
Patel Automobiles, Near G.P.O., Salapore Road, Ahmedabad.
Rajkamal Transport Co., Relief Road, Ahmedabad.
Satnam Transport Service, Near Kalupur Gate, Ahmedabad.
Savani Transport P. Ltd., 507, Panchkuva, Darwaja Bahar, Ahmedabad 2.
Shah Transport Service Co., Sheth's Pole, Ratan Pole, Ahmedabad.
Shree Laxmi Transport Service, Near Ashok Nivas, Relief Road, Ahmedabad.
Uttam Transport Co., Relief Road, Ahmedabad.

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TRAVEL AGENTS

GLADSTONE LYALL & CO. LTD., Agency Office : Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad ; Bombay Manager : CMDR. J. S. Simmons. Head Office : 4, Fairlie Place, Calcutta.

WATCH DEALERS

Gandhi Road :

Ajit Watch Co.
Asiatic Watch Co.
Best Watch Co.
Bharati Watch Co.
Brahmbhat Watch Co.

CENTRAL WATCH CO., Gandhi Road, Ahmedabad.

C. Kumar & Co.
Coronation Watch Co.
Diamond Watch Co.
Doshi Watch Co.
E. M. M. Ghadiali & Sons.
Favourite Watch Co.
Gandhi Watch Co.
General Watch Co.
Germo-Swiss Watch Co.
Honest Watch Co.
Janta Watch Co.
Jawahar Watch Co.
Jayhind Watch Co.
Krishna Watch Co.
Laxmi Watch Co.
Laxmishanker Rugnath.
Liberty Watch Co.
Lipson Watch Co.
Manhar Watch Co.

NEW BHARAT WATCH CO., Importers & Wholesale Dealers in Watches and Parts; 667/1, Gandhi Road, Ahmedabad.

New Divan Watch Co.
New President Watch Co.
New Standard Watch Co.
Novelty Watch Co.
Parikh & Parikh.
Prabhat Watch Co.
Pratima Watch Co.
Rajnagar Watch Co.
Ramdas Watch Co.
Ramnagar Watch Co.
Royal Watch Co. P. Ltd.
Shah Watch Co.
Shaheri Watch Co.
Standard Watch Co.
Super Watch Co.
Universal Watch Co.
Varma Watch Co.
V. Bright & Co.
Venus Watch Co.
Vimal Watch Co.
Vishnu Watch Co.
Warden Watch Co.

Relief Road :

Ambica Watch Co.
Bhawani Watch Co.
Cambay Watch Co.
Dinesh Watch Co.
Kalyan Watch Co.
Master Watch Co.
New Swiss Watch Co.
Prakash Watch Co.
Prataprai K. Parmar.
Sindh Watch Co.

Kalupur :

Best Swiss Watch Co.
Bharat Watch Co.
Burhani Watch Co.
Chohan Watch Co.
Jain Vijay Watch Co.
Moti Watch Co.
Nazar Watch Co.
Nizami Watch Co.
Rajan Watch Co.
Saify Watch Co.

Delhi Chakla :

Abdul Watch Co.
Bombay Watch Co.
Darbar Watch Co.
Faithful Paleja Watch Co.
Natver Watch Co.
New Krishna Watch Co.
Popatlal Jamnadas Paleja.
Premier Watch Co.
Pyarelal & Co.
Reliable Watch Co.
Roxi Watch Co.

Raipur :

Nay Bharat Watch Co.
National Watch Co.
Rameshwar Watch Co.
Vijay Watch Co.

Dariapur :

Dilip Watch Co.
Nathalal Chaturdas Ghadiali.
Parikh Watch Co.
Sri Krishna Watch Co.

Opp. Vikram Mills :

Atmaram Shankerlal.
Kalyanji Keshavji.
Lalitchandra M. Thakkar.
Raman Watch Co.
Saurashtra Watch Co.
Udai Watch Co.

Gheekanta Road :

New Jawahar Watch Co.
Rashtriya Watch Co.
Time Shop.

Other Places :

Ambica Watch Co., Ellis Bridge.
Ambica Watch Co., Saraspur.
Ambica Watch Co., Prem Darwaja.
Anglo American Watch Co., Pitalia.
Anil Watch Co., Station Road.
Bajrang Watch Co., Khadia Gate.
Bansil Watch Co., Doshiwada Pol.
Bipro Trading Co., Khadia Gate.
Cambay Watch Co., Ratanpol.
Coronation Watch Co., Three Gates.
Happy Watch Co., Ratanpol.
Jupiter Watch Trading Co., Opp. Bala Hanuman.
Kiran Watch Co., Jamalpur.
Makwana Watch Co., Gita Mandir.
Mehta Brothers, Pankore Naka.
New Jawahar Watch Co., Gheekanta Road, Near P.O.
Patel Watch Co., Jamalpur.
Rajanlal M. Shah, Pankore Naka.
Record Watch Co., Bhadra.
Shri Watch Co., Dinkwa Gate.

WATERPROOFING PRODUCTS MFRS. & DEALERS

GLADSTONE LYALL & CO., LTD., Agency Office : Textile & General Engineering Stores, Prajapati Laladas Bldg., Khadia, Char Rasta, Ahmedabad. Bombay Manager : CMDR. J. S. Simmons; Head Office : 4, Fairlie Place, Calcutta.

WIRE HEALDS

SWASTIK TEXTILE TRADING CO., PRIVATE LTD., Motilal Hirabhai Market, Railwaypura Post, Ahmedabad 2.

YARN MERCHANTS

Amritlal Mohanlal, Sakar Bazar, Ahmedabad.
Atmaram Keshavlal, Sakar Bazar, Ahmedabad.
Azambeg Mirzabeg, Station Road, Kansara Bazar, Ahmedabad.
Balchand Vakhatchand, Dalal Bldg., Kapasia Bazar, Ahmedabad.
Balkrishna-Bhikhabhai, Cross Lane, Haribhai Market, Ahmedabad.
Bhavrilal Mahabirprasad, Chinubhai Bldg., Four Roads, Khadia, Ahmedabad.
Bhogilal Manilal, Shahibag, Girdharnagar, Ahmedabad.
Biharilal Chimanlal, Outside Maskati Market, Tower Gate, Ahmedabad.
Chandrakant Bhikhabhai, Haveli's Pole, Dariapur, Ahmedabad.
Chandrakant Somchand, Sakar Bazar, Near Maskati Market, Ahmedabad.
Chandulal Bhogilal, Hajapatel's Pole, Shantinath's Pole, Ahmedabad.
Chunilal Khushaldas, Manekchowk, Ahmedabad.
Fatebhai Kamalbhai, Maskati Market, Ahmedabad.
Girdharlal & Co., Dalal Bldg., K. Bazar, Ahmedabad.

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Harandass & Sons, Sakar Bazar, Ahmedabad.
Harilal Bhikhabhai Sons, Cross Lane, Haribhai Market, Ahmedabad.
Jashvantlal Maneklal, Relief Road, Padsha's Pole, Ahmedabad.
Jayantilal Maneklal, Parabdi's Pole, Raipur, Ahmedabad.
Kanaiyalal Harilal, Shamsanga's Pole, Sarangpur, Ahmedabad.
Kumarpal Maneklal, Sakar Bazar, Purshotam Market, Ahmedabad.
Mafatlal Mohanlal & Co., Cross Lane, Haribhai Market, Ahmedabad.
Manubhai Mohanlal, Sakar Bazar, Parshi Chawl, Ahmedabad.
Mayabhai Nathabhai, Purshotam Market, Sakar Bazar, Ahmedabad.
Mehta & Sons, Railwaypura, Ahmedabad.
Mohmed Umer Mohmedbhai Sacha, Opp. Rly. Stn., Baraf Gali, Ahmedabad.
Nathalal Lallubhai, Parsi Chawl, Opp. Maskati Market, Ahmedabad.
Natvarlal & Co., Kalupur, Mamunayak's Pole, Ahmedabad.
Neptune Trading Co., Patel Market, K. Bazar, Ahmedabad.
P. Jayantilal, Kapasia Bazar, Ahmedabad.
Parikh & Co., Sakar Bazar, Opp. Patel Market, Ahmedabad.
Pitamberdas Achratlal, Opp. Maskati Market, Sakar Bazar, Ahmedabad.
Popatlal Rasiklal, Zaverivad, Ahmedabad.
Ramanlal Sarabhai, Kapasia Bazar, Ahmedabad.
Rasiklal Velchand, Patasa Pole, Navi Pole, Ahmedabad.
Sankalchand Hathising, Sakar Bazar, Near Maskati Market, Ahmedabad.
Shambhuprasad Mohanlal, Sakar Bazar, Vrindavan Chawl, Ahmedabad.
Somabhai Dahyabhai & Bros., Sakar Bazar, Ahmedabad.
Vasant & Co., Sakar Bazar, Ahmedabad.
Vinodchandra Chandulal & Co., Purshotam Market, Sakar Bazar, Ahmedabad.

AMRELI DISTRICT*

Headquarters : Amreli.

Talukas and Mahals : Amreli, Kodinar, Dhari, Khambha, Jafrabad, Rajula, Lilia, Lathi, Kunkavav, Vadia, Babra.

The area of Amreli District is 1,730 square miles.

The District is level country broken only by Gir Hills in the Dhari Taluka. The average yearly rainfall is between 23 to 25 inches.

The Okha Port in Amreli District is one of the best deep sea ports in India. In Okhamandal Taluka, Port Okha, Mithapur and Dwarka have become industrial centres. There are some big industries at these places namely Dwarka Cement Works, the Tata Chemicals Ltd. and the Burmah-Shell Oil Storage and Distributing Co., Dwarka is famous for Ranchhodrai temples. In Kodinar Taluka, there are a number of ports, which are chiefly used by the fishing industry and country craft.

Associations

SHRI MAVJI HARIBHAI PAREKH ANANDJI VITHALDAS DOSHI KAPOLI BOARDING SCHOOL AND SHETH PARAMANANDDAS TRIBHOVANDAS KAPOLI BALASHRAM

Chairman & Trustee : Gordhandas Bhagwandas Narottamdas; *Hon. Secretary :* K. K. Parekh ; *Hon. Treasurer & Secretary :* S. M. Parekh.

SHARDA PEETH
Dwarka.

A Seat established for spiritual and cultural guidance and uplift in Western India, by the first Jagadguru Shankaracharya the Great.

An University type educational Society called Shri Sharada Peeth Vidyasabha was recently established to run an Arts College, Shri Dwarakadhish Sanskrit Academy, Indological (Oriental) Research Institute, Jnan Mandir, Museum and several cultural and Philosophical institutions at Dwarka.

Head : H. H. Jagadguru Shri Shankaracharya Shri Abhinava Sachchidananda Tirth Swamiji.

SHRI MAHILA VIKAS MANDIR
Jain Mahajanwadi, Dr. Jivaraj Mehta Road, Amreli.

President : Jagjivandas N. Mehta ; *Secretaries :* Smt. Nirmalaben M. Bhatt, Dr. Maheshkumar S. Bhatt.

SHREE LAXMI SILK WEAVING FACTORY
Manufacturers and Exporters of Art Silk Linen, Cotton Shirtings and all kinds of textiles made to order for buyers.
Mehta Wadi, Jaysinghpura, Amreli.
Grams : "LAXMISILK." Phone : 36.
Sales Office (Bombay) :—346, Kalbadevi Road, Bombay 2.
Phone : 39717.

BANASKANTHA DISTRICT*

Headquarters : Palanpur.
Talukas and Mahals : Palanpur, Deesa, Dhanera, Vadgam, Tharad, Wav, Deodar, Kankrej, Danta, Radhanpur, Santhalpur.

The area of the District is 4,663·4 square miles.

BARODA DISTRICT*

Headquarters : Baroda.

Talukas and Mahals :—Baroda, Savli, Waghodia, Padra, Karjan, Sinor, Dabhoi, Sankheda, Naswadi, Chhota-Udepur, Jabugam, Tilakwada.

The area of the District is 2,980 sq. miles.

Geological experts of the Natural Gas and Oil Commission of the Govt. of India are prospecting for oil in Baroda and have announced oil find at one of the 12 experimental bores near Vadsar. Drilling is going on at Sangnea where oil find is expected.

The District as a whole has not less than 1,210 primary schools, 87 secondary schools, 638 libraries, 300 gymnasiums and welfare associations. Boys studying in primary schools 106,081 ; girls 66,362. In Secondary Schools boys 24,236, girls 8,820.

The annual rainfall averages about 30 inches and varies only slightly from one place to another. The chief food crops are wheat, jowar, bajra, pulses, kodra, bawta, maize. Rice is now grown extensively interspaced with cotton.

Baroda, the headquarters of the District is fully modernised. The District is also well advanced in industry. In recent years a number of factories, big and small have sprung up. The more important lines of development are textiles, chemicals, oil and soaps, engineering, spectacles, a rubber factory, metal works and foundries, rolling mills and manufacture of glassware, etc., providing employment to about 30,000 workmen. It is also the Headquarters of Natural Oil & Gas Commission Establishment in Gujarat.

An Industrial Estate has been established and the important industries started are those for the manufacture of cameras, tractors and jeeps, and steel furniture.

Baroda has a full-fledged University. (See below for detailed note).

Among the larger medical institutions the most important is the Shri Sayajirao State General Hospital in Baroda city, which contains all special departments like pathology, surgery, radiology, dentistry, deep X-Ray therapy for cancer, opthalmology, midwifery, gynæcology and children's diseases. There is also the Shri Jamnabai Hospital run by the Government. A new Hospital at a cost of Rs. one crore is to be built during the Third Plan period.

The Shri Padmavatibai Tuberculosis Hospital and Sanatorium located some 8 miles from Baroda city is well-equipped with scientific appliances and a clinic provides treatment for people suffering from tuberculosis.

The Baroda Municipality has a Master Plan for the City costing Rs. 1·25 crores which is again to be revived with a view to enlarging it. There is a toy railway for children.

* See "Late Particulars" for population.

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MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA

Baroda.

The Maharaja Sayajirao University is a teaching and residential University established in 1949 under an Act of the former Baroda State and incorporated in the Statute by the Bombay (Gujarat) Government following the merger of the State with Bombay (Gujarat). All the colleges and recognised institutions situated within University area specified in the Act, became the constituent parts of the University and were with the exception of the Medical College, Museum and Picture Gallery managed by the University. These constituents include:—the Faculties of Arts, Science, Education and Psychology, Commerce, Medicine, Technology and Engineering, Fine Arts, Home Science and Social Work, Preparatory Classes Unit, College of Indian Music Dance and Dramatics, Polytechnic, the Oriental Institute and the Baroda Sanskrit Mahavidyalaya.

The University confers the following Degrees and Diplomas on students on passing the appropriate examinations:

Degrees: Ph.D. (Arts, Science, Education, Commerce), B.A., M.A., B.Sc., M.Sc., B.Ed., M.Ed., B.A. (Psycho). M.A. (Psycho), B. Com., M.Com., M.B.B.S., M.D., M.S., B.Arch., B. Text, B.E., M.E. (Civil, Mechanical and Electrical), B.A. Fine, M.A. Fine, B.Sc. (Home Science), M.Sc. (Home), Master of Social Work, Bachelor of Music, Master of Music, Vachaspati (Equivalent to Ph.D.), Acharya (Equivalent to M.A.), Shastri (Equivalent to B.A.).

Diplomas: Teaching, Co-operation, Civil, Mechanical and Electrical Engineering: Postgraduate Diplomas in (1) Guidance and Counselling, (2) Educational, Administration, (3) Applied Linguistics, (4) Banking, (5) Various medical subjects, (6) Library Science, (7) Museology, (8) Nursery Education, (9) Co-operation.

The University has introduced the three-year degree course in Arts, Science and Commerce from June 1957. The preparatory classes Unit provides instruction to the students of Preparatory Arts, Science and Commerce Classes.

Budget for 1960-61: Income: Rs. 52,71,980 including Government of Gujarat Grant of Rs. 23,28,600. Expenditure: Rs. 57,38,472.

Chancellor, His Highness Shrimant Fatesinh Gaekwad, Maharaja of Baroda, Sena Khas Khel, Samsher Bahadur, Maharaja of Baroda.

Vice-Chancellor, Dr. Jyotindra M. Mehta, M.A. (Oxon.), Ph.D. (Lond.). Bar-at-Law.

Pro-Vice-Chancellor, Dr. C. S. Patel, B.A., M.Sc. (Bom.), Ph.D. (Leeds).

Registrar, B. K. Zutshi, M.A., LL.B. (Luck.).

University Librarian, Dr. C. P. Shukla, M.A., B.T. (Bom.), M.A. (L.S.), Ph.D. (Michigan).

Deputy Registrar, B. M. Nanavaty, B.A., Dip. Ed.

Asstt. Registrar, K. A. Amin, M.com.

University Engineer, N. B. Patel, B.E. (Civil), A.M.I.E. (India).

Dy. Engineer, M. K. Dixit, B.E. (Civil).

Dy. Engineer, B. B. Nanavaty, B.E. (Civil), *Asstt. Dy. Engineer*, M. J. Thakore, Dip. in Civil Engg.

Auditor, R. A. Iyer, B.A. (Hons.).

Accountant, N. A. Parikh, B.com. (Bom.).

Members of the Syndicate: Dr. Jyotindra M. Mehta (*Vice-Chancellor*); Dr. C. S. Patel (*Pro-Vice-Chancellor*); *Director of Education:* Smt. Hansa Mehta; B. B. Joshi; J. S. Parikh; Smt. Ansuya I. Amin; Dr. B. B. Yodh; D. M. Parikh; H. R. Desai; Prof. I. P. Desai; Prof. S. N. Mukerjee; Prof. P. J. Madan; Prof. N. M. Bhatt; Dr. T. V. Patel.

Deans of Faculties: Arts.—Prof. I. P. Desai, M.A., Ph.D.; *Science.*—Prof. N. M. Bhatt, M.Sc., LL.B., Ph.D. (Edin.), F.S.S.; *Commerce.*—Prof. B. G. Shah, M.com. (Bom.); *Education and Psychology.*—Prof. S. N. Mukerjee, M.A., A.M. (Columbia), B.T., T.D. (Lond.), Dip. Edu. (Dublin), Dip Edu., Ed.D. (Columbia); *Medicine:* Dr. J. D. Pathak, B.Sc., M.D., F.C.P.S.; *Technology and Engineering.*—Prof. P. J. Madan, B.Sc. (Edin.), Dic. M.Sc. (Lond.); *Fine Arts.*—Prof. N. S. Bendre, B.A. (Painting); *Home Science.*—Kumari Justina A. Singh, M.Sc. (Oregaon and Kansas); *Social Work.*—Smt. Ammu M. Majmudar, M.A., Ph.D.

Principals: Preparatory Classes Unit, K. S. Yagnik, B.A., B.T.: *College of Indian Music, Dance and Dramatics*, Prof. R. C. Mehta, B.A.; *Polytechnic*, Prof. C. H. Khadilkar, B.E. (Civil), AMICE (Lond.), M.I.E. MIRSH, MRSH (Lond.); *Sanskrit Mahavidyalaya*, H. C. Mehta, M.A., B.T.

Director, Oriental Institute, Dr. B. J. Sandesara, M.A., Ph.D. (Bom.).

INSTITUTIONS

The Baroda Arts and Science College, Baroda; The College of Engineering, Baroda; The Pratapsinh College of Commerce and Economics, Baroda; The Kalabhavan Technical Institute, Baroda; The College of Indian Music, Baroda; Vernacular Teachers' Training College; Training College for Women Teachers; Diamond Jubilee Cotton Industries Institute, Baroda; Emporium of Arts and Crafts, Baroda; Sanskrit Mahavidyalaya, Baroda; The Women's College of Home Science, Baroda; The College of Fine Arts, Baroda; The School of Social Work, Baroda; The Secondary Teachers' Training College, Baroda; The Aryan University for Girls, Baroda; Medical College, Baroda; Railway Staff Training College, Baroda; Polytechnic, Baroda; State Home for Rescued Women.

ALL INDIA EDUCATIONAL & VOCATIONAL GUIDANCE ASSOCIATION

Faculty of Education & Psychology, M. S. University of Baroda.

President: Dr. H. P. Mehta (Asst. Director, Vocational Guidance, Ministry of Labour & Employment, Govt. of India); *Chairman:* F. S. Chothia (Director, Institute of Vocational Guidance, Bombay).

BARODA PAPER MERCHANTS' ASSOCIATION

C/o K. N. Mehta & Co., Mandvi Road, Baroda.

CENTRAL GUJARAT CHAMBER OF COMMERCE

Federation Bldg., Race Course Road, Baroda 1.

President: Indubhai C. Patel; *Vice-President:* Lalitchandra M. Patel; *Hon. Secretaries:* Jayantilal H. Mehta, Sakarlal M. Shah. *Hon. Gen. Secy.:* Dr. A. S. Patel (Reader in Psychology, M. S. Univ. of Baroda, Baroda).

BARODA COLLEGE—(FACULTY OF ARTS)

Dean: Dr. I. P. Desai, M.A., Ph.D.

BARODA GRAIN MERCHANTS' ASSOCIATION

Gendi Gate Road, Baroda.

President: M. B. Dalia; *Vice-President:* U. D. Shah; *Hon. Secy.:* K. R. Hirani.

COLLEGE OF INDIAN MUSIC, DANCE & DRAMATICS

Sursagar, Baroda.

Principal and Head of the Dept. of Music: Prof. R. C. Mehta; *Head of the Dept. of Dramatics:* J. D. Thaker.

THE FEDERATION OF GUJARAT MILLS & INDUSTRIES

Rameschandra Dutt Road (Race Course Road), Baroda 1.

The present membership is 140. The membership is open to all industrial undertakings.

President: Chandravadan C. Parikh; *Vice-President:* V. M. Talati; *Hon. Secy. and Treasurer:* Chandrakant M. Parikh.

KAMUBALA SAHAKARI AUDYOGIK VIKAS MANDIR LIMITED

Tarkeshwar, Opp. Jubilee Gardens, Baroda.

President: Smt. H. H. Jhaveri; *Vice-President:* Indoben R. Thakor; *Hon. Organiser:* Smt. Jyotsanaben K. Jhaveri; *Hon. Secretaries:* Pushpaben G. Patel, Vidyaben A. Patel.

ORIENTAL INSTITUTE

Smt. Hansa Mehta Library Building, Tilak Road, Baroda.

Director: Prof. B. J. Sandesara; *Dy. Director:* Dr. U. P. Shah; *General Editor and Head of the Ramayana Department:* Prof. G. H. Bhatt.

PARESH TECHNICAL INSTITUTE

Palace Road, Baroda, and Vayudevta Building, Bajwada, Baroda.

Principal: Madhusudan Madhavlal Desai; *Secretary:* Vasant Kumar Madhavlal Desai; *Treasurer & Organiser:* Pravin Kumar Madhavlal Desai.

SANSKRIT VIDWAT SABHA

Dwarkadhish Sadan, Narasinghjini Pole, Baroda.

President: Badrinath K. Shastri; *General Secretary:* Vidyabhaskar Pt. M. V. Upadhyaya.

TEXTILE & ALLIED INDUSTRIES RESEARCH ORGANISATION (TAIRO)

Kala-Bhavan Premises, Baroda.

Hon. Director-Secretary: B. B. Joshi; *Asstt. Secretary:* K. M. Bhatt; *Liaison Officer:* N. S. Nama.

LIBRARIES

Central Library; Shri Jaisinhrao Public Library; M. S. Univ. Library known as Smt. Hansa Mehta Library; Information Centre; Manekrao Vyayam Shala Library; Pustakalaya Mandal Library.

COTTON MILLS

BARODA SPINNING AND WEAVING CO., LTD., Spindles 34,852, Looms 658.

NEW INDIA INDUSTRIES LTD., Jetalpur Road, Baroda.

SHRI AMBICA MILLS No. 3, Padra Road, Baroda.

SAYAJI MILLS NO. 1.

SHREE DINESH MILLS LTD., Padra Road, Baroda.

SHREE YAMUNA MILLS CO., LTD., Pratapnagar, Baroda.

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TRADES & PROFESSIONS

A. Sheth & Co., Station Road, Baroda.
Abhyankar, G. K., & Co., Ganpule Building, Raopura, Baroda.
Alembic Chemical Works Co. Ltd., Baroda 3.
Alembic Glass Industries Ltd., Baroda 3.
A. Sheth & Co., Station Road, Baroda.
Ashwin Industries Ltd., Office: opp. Jubilee Bag, Baroda.
Asian Engineering Co., Pratapnagar, Baroda 4.
BARODA CRYSTAL GLASS WORKS LTD., P.O. Box 87, Pratapnagar, Baroda.
Baroda Oil & Mill Store Supplying Co., opp. Suryanarayan Bag, Raopura, Baroda.
BARODA ROLLING MILLS PRIVATE LTD., Chhani Road, Baroda 2; Manufacturers of C.I.S/S and Flanged Pipes and Fittings and heavy duty C.I. Sluice Valves.
Baroda Spg. & Wvg. Co. Ltd., Post Box 57, Baroda.
B. Bros., Raopura, Baroda.
Bharat Chemicals, Pratapnagar, Baroda.
Bharat Metal Industries, Bahuchavaji Road, Baroda.
Bharat Pickers and Buffers Mfg. Co., Bank Road, Baroda.
Cambay Saw Mill Textile Accessories Co., Madan Zampa, Baroda.
Chandra Engineering and Steel Industries, Manufacturers of M. S. Polished Bars, Roller and Crank Shaftings for Gins, M.S. Steam Flanges etc., Padi Pole, Mandvi, Baroda; Phone: 2581 (*Office*), 2330 (*Workshop*); Grams: "MACHINERY", Baroda.
CHANDAN METAL PRODUCTS PRIVATE LTD., Manufacturers of Steel Furniture & Equipment for Offices, Homes, Hospitals, Canteens, Libraries, etc., Executive Office & Works: Industrial Area, Gorwa Road, Baroda 3; Registered Office: 13, Koregaon Park, Poona 1; Branch Office: 43, Tulsi Nivas, D. Road, Churchgate, Bombay 1.
Chemitex Industries, Bank Road, Baroda.
Chimanlal Dalal & Sons, Machinery Manufacturers, Importers, Machinery Merchants, Agents and Contractors, Padi Pole, Mandvi, Baroda; Phone: 2581 (*Office*), 2330 (*Godown*); Grams: "MACHINERY" Baroda.
C. Patel & Co., Near Tarkashwer Mahadev, Baroda.
Dave, S., & Co., General Merchants, Tower Road, Baroda.
Desai & Co., Raopura, Baroda.
Desai, C., & Co., Lakshmi Bhuvan, Sayajiganj, Baroda.
Dinesh Mills Ltd., Padra, Baroda.
Everest Industrial Corpn. P. Ltd., Pratapnagar, Baroda 4.
GEETA IRON AND BRASS WORKS, Manufacturers of Cast Iron, Sluice Valves, Reflux valves, Air Valves, Fire Hydrants, C.I. Specials and other Municipal requisites; Bajura Dist., Baroda.
GENERAL SUPPLIERS & MANUFACTURERS, THE, Post Box 50, Baroda; Phone: 2116; Grams: "GESMANS"; Bombay Branch: Noble Chambers, 5th Floor, Parsee Bazar Street, Fort, Bombay 1; Ahmedabad Branch: Anand Bhavan, 3rd Floor, Tilak Road, Ahmedabad; Manufacturers and Suppliers of all kinds of office Requisites, Specialists in Steel Fabrication work, ultramodern Furniture and all other industrial requirements.
Graphite and Mineral Industries, Chhani Road, Baroda.
Gujarat Lime Works, Gendigate Road, Baroda 1.
Gujarat Rubber Works Ltd., Baroda 4.
Halifax Engineering Co., Anandpura, Baroda.
Indian Hume Pipe Co. Ltd., Pratapnagar, Baroda.
Jasmann Machine Tool Corporation, Anandpura, Baroda.
Jayendra Metal Industries Ltd., Sayajiganj, Baroda.
Joshi, Pandit & Co., Ltd., Sayajiganj, Baroda.
JYOTI LTD., Manufacturers & Engineers, Baroda 3; Phone: 2287; Grams: "JYOTIPUMPS."
Kantilal, R., & Co., Opp. College, Baroda.
Kirti Patel & Co., Raopura Road, Baroda.
Krishna Trading Corporation, Nava Bazar, Baroda.
Lalchand & Sons, Raopura Road, Baroda.
LAXMI VIJAY BRASS & IRON WORKS, Factory Area, Pratapnagar, Baroda 4; Manufacturers of "ARUN" oil Expeller, other oil Mill Machinery and Parts.
Madhukar Khandubhai & Co., Tulsidas Mansions, Kothi Road, Baroda.
M. Ambalal & Co., Raopura Road, Baroda.
Mahalaxmi Brass and Iron Foundry, Padi Pole, Mandvi, Baroda. Phone: 2581 (*Office*), Grams: "MACHINERY" Baroda, Foundry Bahucharaji Road, Baroda.
Mahalaxmi Iron & Engg. Works, Bahucharaji Road, Baroda.
Merit Oil & Trading Co., Ltd., Mehta Road, Baroda.
Mody Brothers, Raopura, Baroda.
Narayan Chemical Industries, Ganpule Building, Raopura, Baroda.

THE NEW GREAT INSURANCE COMPANY OF INDIA LTD.
Registered Office: Bank Building, Mandvi, Baroda.
Chairman:—**Shri Tulsidas Kilachand**
General Manager:—**Shri M. G. Mody**
Business Transacted: Fire, Marine, Accident and Miscellaneous insurance.

New Gujrat Trading Co., Raopura, Baroda.
New India Industries Ltd., Jetalpur Road, Baroda.
Paramount Insurance Co., Ltd., Head Office: Raopura, Baroda.
Patel, S. A., & Co., Raopura, Baroda.
Poornima Bangle Works, Pratapnagar Road, Baroda 4.
Poornima Industrial Works, Pratapnagar Road, Baroda 4.
Punjab Steel Rolling Mills, Baroda 2.
Rainbow Texdyes Corporation, Goya Darwaja, Baroda.
ROYAL INDIA INDUSTRIES, Manufacturers of High grade Writing inks and Magic Marker Pens for marking on Parcels, Felt Tips and Stencil marking inks; Mandvi Road, Zaverchand Laxmichand Street, Baroda.
Ruby General Insurance Co., Ltd., Diwali Bhuvan, Raopura, Baroda.
Sanitex Chemical Industries P. Ltd., Baroda 3.
Sarabhai Chemicals, Wadi Wadi, Baroda.
SATYADEV CHEMICALS PRIVATE LTD., Post Box 101, Pratapnagar Road, Baroda; Manufacturers of Photographic and Fine Chemicals including Hydroquinone, Sodium Sulphite, Sodium Bisulphite, Sodium Thiosulphate, etc.
Sayaji Iron and Engineering Co., Ltd., Chhani Road, Baroda.
SAYAJI MILLS LTD., (Sayaji Mills No. 1), Baroda 3.
S. B. Patel & Co., Raopura, Baroda.
Shakti Engg. Works P. Ltd., New Khanderao Road, Baroda.
Shirke & Co., Sayajiganj, Baroda.
Shree Uma Transport Co., near Baroda Talkies, Baroda.
Shree Yamuna Mills Co. Ltd., Pratapnagar, Baroda 4.
Spuupipe & Construction Co. (Baroda) P. Ltd., Jamuna Bag, Behind Rly. station, Baroda.
Suhrid Geigy P. Ltd., Wadi Wadi, Baroda.
Star Paper Mart, Raopura, Piplagate, Baroda.
SWASTIK ENGINEERING & MANUFACTURING CO. PRIVATE LTD., Bahucharaji Road, Baroda; Structural Engineers and Contractors, Engineering Workshop and Foundry, Manufacturers of Textile Machineries viz. Double folding & Plaiting; Double folding, Rolling and Plaiting machines; Roll fold Machine and Single Folding Machines, Selvedge Printing Device; Textile Spare Parts; Building Construction Machinery: "HARIHAR"—Non-Tilting Drum type concrete Mixers; other Machineries: Flour Mills—Industrial & Domestic; Rotary oil Mills, Rice Mills, Rice Hullers, Sugarcane Crushers, Building Materials; Municipal Drainage & Water Works accessories; Engineering & Machinery Spare parts, etc., etc. Phone: 2101; Grams: "SEMCO," Baroda.
Tarun Industrial Corporation, Pratapnagar Road, Baroda 3.
Textile Aniline & Chemical Co. P. Ltd., Pratapnagar Road, Baroda.
Textile Appliances & Instruments Co. P. Ltd., 81, Alkapuri, Baroda.
United India Medical Stores, opp. Secretariat, Baroda.
Vajresh P. Ltd., Kantawalla Bldg., Limdapole, Baroda.
Vasant Engineering Ltd., Pratapnagar, Baroda 4.
Vishwakarma Pen Co., Kharivav Road, Baroda.

BHAVNAGAR DISTRICT*

Area: 4,799 sq. miles.

Headquarters: Bhavnagar.

Talukas: Bhavnagar, Botad, Gadhada, Kundla, Mahuva, Palitana, Sihor, Talaja, Datha, Umrala, Vallabhipur, Gariadhar, Gogho.

The port of Bhavnagar is well-equipped, and it is one of the main trading centres of the area.

The main crops are bajra, jawar, oilseeds, rice, cotton and wheat.

ASSOCIATIONS

SAURASHTRA CHAMBER OF COMMERCE
Mahatma Gandhi Road, Bhavnagar.
President: Prabhudas Ramji Mehta; *Vice-President*: Natvarlal Amritlal Mehta; *Hon. Secretary*: Rasiklal N. Shah.

COTTON MILLS

KRISHNA KUMAR MILLS CO., LTD., Mahua, Bhavnagar.
MAHALAXMI MILLS LTD., Chavdi Gate, Bhavnagar.
NEW JEHANGIR VAKIL MILLS CO., LTD., Nilambag Road, Bhavnagar.

* See "Late Particulars" for population.

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BROACH DISTRICT*

Headquarters : Broach. *Sub-Division :* Rajpipla.

Talukas and Mahals : Broach, Vagra, Amod, Jambusar, Ankleshwar, Hansot, Nandod, Jhaghadia, Valia, Dediapada, Sagbara.

The area of the District is 2,889 sq. miles. The language spoken is Gujarati.

MILLS

BROACH TEXTILE MILLS PRIVATE LTD., Mahatma Gandhi Road, Broach.

SHRI PRITHVI COTTON MILLS LTD., Mahatma Gandhi Road, Broach.

ASSOCIATIONS

The Broach Bar Association, Court Road, Broach; The Broach Red Cross Society, Near Tower, Broach; The Broach Sanitary Museum Hall, Broach; The Majoor Mahajan, Broach Branch, Near Sevashram, Broach; The Broach Kamdar Union (Red Flag), Near Panch Fanas, Broach; The Bharat Sevak Samaj, Jahwar Bazar, Broach; The Broach Shtri Mandal, Jawahar Bazar, Broach; The Broach Education Society, Jawahar Bazar, Broach; The Broach Cine Circule Society, Navadehra, Broach; The Broach Sad Vidya Mandal, Jawahar Bazar, Broach; The Broach Jilla Vidyarthi Sahayak Mandal, Lallubhai Chakla, Broach.

LIBRARIES

Raychand Dipchand Library, near Tower, Broach.
Nrisinh Library, Jawahar Bazar, Broach.
Dadabhai Naorojji Library, Zadeswari Durwaja, Broach.

B. E. S. UNION HIGH SCHOOL MUSIC CIRCLE
Malji Road, Broach.

President : K. B. Shah, B.A., B.T., S.T.C. (Kovid); *Vice-President :* V. C. Desai, S.T.C., Dip. Visual Edn.; *Secretary :* Miss V. D. Dastur, S.T.C.

THE BROACH CHAMBER OF COMMERCE & INDUSTRIES
Lallubhai Chakla, Broach.

President : Laxminivas Rungta; *Vice-President :* Dr. N. V. Patel.

THE BROACH DISTRICT ADIVASI SEVA SANGH
Station Road, Rajpipla.

President : Chandrashanker M. Bhatt, M.P.; *Vice-President :* Harisinh B. Mahida, M.L.A.; *Secretary :* Ratansinh G. Mahida; *Jt. Secretary :* Dilipchandra C. Pandya.

THE BROACH MERCHANTS' ASSOCIATION
Eurja Road, Broach.

President : A. C. Gandhi; *Vice-President :* Chimanlal Thakorlal; *Hon. Secretary :* Govanbhai Narandas.

KALA MANDAL
Soneri-Mahel, Broach.

President : Pramodrai C. Patel; *Vice-President :* Balakrishna P. Purohit; *Hon. Secretaries :* Munir A. Khan, Vadanbhai C. Ruwala.

BROACH EDUCATION SOCIETY
Jawahar Bazar, Broach.

President : Dr. Chandulal M. Desai; *Vice-President :* Thakorlal N. Gunderia; *Secretaries :* Rajendra H. Thakore, Arvindbhai D. Desai.

LALIT KALA MANDAL
Station Road, Rajpipla.

President : Madhavsinh Muljibhai Barot; *Vice-President,* T. S. Rupdevsinhji Gohel; *Secretary :* Ratansinh Ganpatsinh Mahida; *Jt. Secretary and Treasurer :* Vithalbhai Mathurbhai Patel.

THE RAJPIPLA RIFLE CLUB
Rajpipla.

President : Ratansinh G. Mahida; *Vice-Presidents :* Adi Nasarvanji Contractor, Thakore Rupdevsinhji D. Gohel; *Secretary :* Dilipchandra C. Pandya.

DANGS DISTRICT*

Headquarters : Ahwa.

Taluka : Dangs.

Dangs District lies between north latitude 20° 33′ and 21° 3′, east longitude 73° 28′ and 73° 57′. The area is about 670 sq. miles. The rail terminus for the District is Waghai on the Billimora-Waghai line on the Western Railway and is 171 miles from Bombay.

The language spoken by the Dangis is called Dangi.

The District contains some of the richest forests in Gujarat State, which form the principal source of revenue, Dangs teak being considered as one of the best varieties of Indian teak.

JAMNAGAR DISTRICT*

Area : 4,216 sq. miles.

Headquarters : Jamnagar.

Talukas : Jamnagar; Dhrol; Kalavad; Khambalia; Jamjodhpur; Bhanvad; Jodia; Kalyanpur; Lalpur, Okhamandal.

There are seven towns and 656 villages in the District.

People live mainly on agriculture. Including both cultivated and waste land the District has an area of 21,97,674 acres. The average rainfall is 20″ to 22″. Potato is cultivated on a large scale in the district.

The main small industries are the manufacture of agricultural implements, brass and copper vessels, the making of baskets, the manufacture of tiles, lime, oil crushing, handlooms, salt, the keeping of poultry.

Sikka, Bedi and Rosy are the three ports of the district. Sikka is known for its cement industry.

ASSOCIATIONS

NAWANAGAR CHAMBER OF COMMERCE
Chamber Hall, Grain Market, Jamnagar.

President : C. N. Bhadlawala; *Vice-President :* K. D. Raithatha, *Hon. Secy. :* N. P. Shah.

POST GRADUATE TRAINING CENTRE IN AYURVEDA
Dhanvantary Mandir, Bedi Road, Jamnagar.

Principal : Prof. D. A. Kulkarni.

WOOL MERCHANTS' ASSOCIATION
Jamnagar.

President : J. K. Anjaria; *Hon. Secretary :* Kantilal R. Sanghvi.

SHREE DIGVIJAYSINGHJI SPG. & WVG. MILLS LTD., Bedeshwar, Jamnagar.

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* See "Late Particulars" for population.

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JUNAGADH DISTRICT†

Area : 3,890 sq. miles.

Headquarters : Junagadh.

Talukas and Petas : Bhesan, Junagadh, Keshod, Kutiyana, Malia, Manavadar, Mangrol, Mendarda, Patan, Porbandar, Ranavav, Talala, Una, Vanthali, Visavadar.

Agricultural land under paddy, jawar, bajra, wheat, groundnut and cotton is 14,09,400 acres in extent.

Junagadh is well-known because of the lions in the Gir forests. This is the only place in Asia where lions are found.

Porbandar and Veraval are the two important ports in the district.

The main industries of the district consist of cement, ginning and pressing, oil, etc. New industries like soda-ash and rayon are coming up.

PORBANDAR CHAMBER OF COMMERCE

Manekchowk, Porbandar.

President : Dhirendra Nanjibhai Kalidas Mehta ; *Vice-President :* Kanjibhai J. Dattani ; *Hon. Secy. :* Vallabhadas Kurji ; *Jt. Hon. Secy. :* Prabhudas Vithaldas.

COTTON MILLS

MAHARANA MILLS PRIVATE LTD., Porbandar, Junagadh District.

KAIRA DISTRICT†

Headquarters : Kaira (Revenue), Nadiad (Judicial).

Talukas and Mahals : Matar, Mehmedabad, Nadiad, Kapadvanj, Anand, Borsad, Thasra, Balasinor, Cambay, Petlad.

The area of the district is 2,533 square miles. The language spoken is Gujarati.

Tobacco which is suitable for the manufacture of cigarettes is grown in Kaira District while at Sevalia in the Thasra Taluka the Associated Cement Co., Ltd. has a cement factory.

The Government of India have opened a tobacco research institute at Anand.

Nadiad is also the headquarters of the State Transport for Ahmedabad, Kaira and Panch Mahals.

Drilling is in progress at Cambay where a team of 25 Russians are working with 150 men of the Oil and Natural Gas Commission establishment. At Lunej village, six miles from Cambay, a Russian, deep drilling rig was installed and drilling commenced on July 26, 1958. By October 1958, the tests confirmed the presence of oil and gas.

PRODUCTION OF INFANT FOOD

The inauguration of the first infant food and cheese plant by the Union Finance Minister, on October 31, 1960 at Anand constitutes an important development in the country's food industry. It is the result of collaborative efforts between scientists of the Central Food Technological Research Institute, Mysore, and the Kaira Milk Producers' Cooperative Union, Anand. The infant food will be manufactured under the name of Amul Infant food and the factory will produce 11 tons of the food per day.

It is expected that before the end of the Third Plan period, India will become largely self-sufficient in respect of this category of milk food products.

Cheese Plant : The Cheese plant at Anand also is an important achievement. The work, which has been undertaken in collaboration with an American expert, has already yielded useful results. The new plant will meet a fair portion of India's growing requirement for different types of cheese, both fresh and processed.

SARDAR VALLABHBHAI VIDYAPEETH

Vallabh Vidyanagar, *via* Anand.

The Sardar Vallabhbhai Vidyapeeth has been established under Bombay* Act No. XL of 1955 as a teaching and affiliating University in a rural setting with the object of accelerating the process of regeneration of villages by the application of modern arts, sciences and technology to rural requirements. It provides courses in five faculties namely Arts, Science, Commerce, Engineering including Technology, and Agriculture. The Vidyapeeth prepares students for the following degrees, B.A., B.Sc., B.E., B.Sc. (Agri.), M.A., M.Sc., M.Sc. (Agri.), B.Com., M.Com., M.E., and Ph.D.

The constituent Colleges with the courses of studies and number of students in each College within brackets :

Vithalbhai Patel Mahavidyalaya, Vallabh Vidyanagar (Western Rly.), (Science ; 1,418).

Nalini and Arvind Arts College, Vallabh Vidyanagar (W. Rly.) (Arts ; 695).

Birla Vishwakarma Mahavidyalaya, Vallabh Vidyanagar (W. Rly.) (Engineering College ; 791).

Bhikhabhai Jivabhai Vanijya Mahavidyalaya, Vallabh Vidyanagar (W. Rly.) (Commerce ; 852).

Bansilal Amritlal College of Agriculture, Anand (Agriculture ; 584).

Secondary Teachers' Training College : 87 ; University Post-Graduate Departments of Humanities and Social Sciences : 133 ; University Post-Graduate Departments of Basic Sciences : 91.

Chancellor, Nawab Mehdi Nawaz Jung, Governor of Gujarat.

Vice-Chancellor, Babubhai J. Patel, B.A., LL.B.

Acting Registrar, K. A. Amin, B.Com.

Members of the Syndicate : Vice-Chancellor Babubhai J. Patel, B.A., LL.B. ; Director of Education, Gujarat State, or his nominee; Director of Education, Gujarat State ; Principals of Colleges at Vallabh Vidyanagar; Dr. Ambalal Ramchhodbhai Patel, M.Sc., Ph.D. (Lond.), Principal, Vithalbhai Patel Mahavidyalaya; R. H. Chokhavatia, Principal, Birla Vishvakarma Mahavidyalaya ; M. M. Shah, Principal, Bhikhabhai Jivabhai Vanijya Maha Vidyalaya ; Dr. R. M. Patel, Principal, Bansilal Amritlal College of Agriculture, Anand; I. J. Patel, Principal, Secondary Teachers' Training College ; H. M. Patel, I.C.S. (Retd.), Chairman, Charutar Vidyamandal, Vallabh Vidyanagar ; S. B. Junnarkar, B.A. (Bom.), B.Sc. (Eng.) (Lond.) ; T. K. Patel ; Shrimati Sushila Desai ; Utsav Parikh, M.A., LL.B., Nadiad ; S. M. Amin, B.E. (Civil), Vallabh Vidyanagar ; R. K. Amin, M.A., M.Sc. (Econ.) (Lond.), Vallabh Vidyanagar.

Deans of Faculties : Arts.—M. B. Pant, M.A. ; Science.—Prof. R. D. Patel, M.Sc., Ph.D. (Liverpool) ; Technology including Engineering.—R. H. Chokhavatia, B.E. (Civil), A.M.I. Struct. E. ; Commerce.—R. K. Samant, M.Sc., Econ. ; Agriculture.—Dr. R. M. Patel, B.Sc. (Agri.), M.Sc., Ph.D. (Wisc., U.S.A.).

BUDGET ESTIMATES FOR 1960-61.

	Recurring. Rs.	Non-recurring. Rs.
Total income	4,18,900	45,41,628
Total expenses	15,43,950	52,29,427
Bombay Government* Grants ..	9,98,895	19,59,045
University Grants Commission Grant if any	1,26,155	25,82,583
Loan from the Ministry of Education, Government of India	—	—
Loan from other sources	—	—

BIDI TOBACCO RESEARCH STATION

Institute of Agriculture, Anand.

Director : Dr. R. M. Patel ; *Research Officer :* Dr. G. J. Patel.

BIRLA VISHVAKARMA MAHAVIDYALAYA (ENGINEERING COLLEGE)

P.O. Vallabh Vidyanagar (W. Rly.).

Principal : R. H. Chokhavatia, B.E., M.E. (Roorkee), M.I.E. (India), A.M.I. Struct. E. (Lond.).

CHAROTAR EDUCATION SOCIETY, ANAND

The institutions conducted by the Society, *viz.* Dadabhai Naoroji High School, Kasturba Kanya Vidyalaya, Shishuvihar, Ambalal Balgriha Shala (a primary school with a residency) and Motibhai Amin Primary Teachers' Training College stand on their own premises. The society runs 236 reading rooms.

Secretary—Raojibhai C. Patel, B.A. (G.V.).

INSTITUTE OF AGRICULTURE, ANIMAL HUSBANDRY & DAIRYING

Anand.

Chairman: K. M. Munshi, B.A., LL.B.; *Director :* Dr. M. D. Patel, M.Sc. (Cornell), Ph.D. (Wisconsin); *Extension Trg. Officer :* Dr. R. M. Patel, M.S., Ph.D. (Wisconsin).

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* Bilingual. † See "Late Particulars" for Population.

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THE KAIRA DISTRICT CO-OPERATIVE MILK PRODUCERS' UNION LTD.

Anand (W. Rly.).

This Co-operative Union daily collects 2,50,000 lbs. of milk in winter and 1,00,000 lbs. of milk in summer from its 200 affiliated village societies. Out of this 80,000 lbs. milk is daily sent to the Aarey Milk Colony, Bombay and after meeting local requirements, the remaining quantity of milk is converted into Amul Butter, Amul Ghee, Amul Sweetened Condensed Milk, Amul Milk Powder, Casein, Amul baby food etc.

The Union has received help from the U. N. Children's Fund, Government of New Zealand under the Colombo Plan, the Government of India and the Government of Bombay.*

Total turnover of the Union in 1959-60 was Rs. 1,87,00,000.

Chairman : T. K. Patel ; *General Manager :* V. Kurien.

KAIRA DISTRICT TOBACCO MERCHANTS' ASSOCIATION

Station Road, Nadiad.

President : Gokalbhai Somabhai Patel : *Vice-President :* M. M. Patel ; *Hon. Secretary :* Shanabhai Manorbhai Patel.

NADIAD KALA MANDIR

Station Road, Nadiad (Dist. Kaira, Gujarat State).

President : Pandya Devdas Someshver ; *Secretary and Treasurer :* Vyas Govindram Mohanlal ; *Joint Secretary :* Joshi Madhusudan Mohanlal.

NADIAD TOBACCO MERCHANTS' ASSOCIATION

Saloon Road, Nadiad.

President : Jashbhai B. Patel ; *Hon. Secretary :* Mangubhai P. Patel.

PETLAD COLLEGE

Petlad

Principal :—Dr. S. V. Shah, B.Sc., Ph.D.

OTHER INSTITUTIONS

American Methodist Mission Hospital, Nadiad ; Bank of Baroda Ltd., Nadiad ; Central Bank of India Ltd., Nadiad ; Charotar Medical Relief Society & Ayurvedic College, Uttar Sauda, Nadiad ; Dahi Laxmi Library, Nadiad ; Dena Bank Ltd., Nadiad ; Dr. Jayant Shah Hospital, Nadiad ; Gokaldas Bapu Library, Nadiad ; Government Agriculture Institute, Anand ; Government Tobacco Research Institution, Anand ; The J. & J. College of Science and C. B. Arts Institute, Nadiad ; Kaira Dist. Cooperative Bank, Nadiad ; Kaira Dist. Central Cooperative Board, Nadiad ; The Kaira District Co-operative Milk Union Ltd., Anand ; Kaira Dist. Land Mortgage Bank Ltd., Nadiad ; The Maha Gujarat Ayurvedic Hospital, Nadiad ; Mahendra Electricals Ltd., Kamla, Nadiad ; Oil & Natural Gas Commission, Cambay ; The Polson Model Dairy, Anand ; Punjab National Bank Ltd., Nadiad ; Ranchhodrai Temple, Dakor ; Samjulaxmi Mahdavlal Maternity Hospital, Nadiad ; Santram Mandir, Nadiad ; The Sevalia Cement Manufacturing Factory, Sevalia, started by the Associated Cement Cos. Ltd. ; The Shankerbhai Jorabhai Mahagujarat Ayurvedic College, Nadiad ; State Bank of India, Nadiad ; The Turkey Red Dye Works Ltd., Petlad ; The Vallabh Vidyanagar, Anand ; C. B. Patel Arts College, Nadiad ; Sonawala Law College, Nadiad ; I. U. Patel Commerce College, Nadiad ; Hindu Anathashram, Nadiad ; Santram Hospital, Nadiad ; Swaminarayan Temple, Vadtal ; Subbhalaxmi Mills, Cambay ; Raj Ratna Mills, Petlad.

SPINNING & WEAVING MILLS

KESHAV MILLS CO. LTD., Petlad, *via* Anand.

NEW SHORROCK SPINNING AND MANUFACTURING CO., LTD., Kapadwanj Road, Nadiad, Dist. Kaira.

PETLAD BULAKHIDAS MILLS CO., LTD., Opp. Station, Petlad.

RAJRATNA NARANBHAI MILLS CO., LTD., Petlad.

SHREE SHUBHLAXMI MILLS LTD., Station Road, Cambay (Dist. Kaira).

KUTCH DISTRICT†

Headquarters : Bhuj.

Talukas or Mahals : Bhuj, Mandvi, Mundra, Anjar, Rapar, Bhachau, Nakhatrana, Lakhpat, Abdasa, Khavda and Khadir.

The District has a land area of 17,022 sq. miles including approx. 8,000 sq. miles of Rann.

Kutch is a semi-arid region. Rainfall is very irregular and scanty. Sub-soil waters in 70 per cent of the area are saline.

Agriculture : There is a fair proportion of good cultivable land in Kutch, the principal crops being bajra, jawar, wheat, barley, cotton and pulses. The cultivation of ground-nuts is also increasing day by day.

The Second Five-Year Plan of the district reflects the emphasis on irrigation projects by a provision of Rs. 222·1 lakhs constituting nearly 30 per cent of the total plan outlay in the district. It provided for completion of the five medium and 22 minor irrigation schemes of the First Five-Year Plan as spillover works and new construction of 3 medium and 27 minor irrigation schemes. This will harness an additional catchment of 700 sq. miles providing average irrigation potential of over 40,000 acres of one foot delta crops.

When the Second Plan Schemes are completed they will harness 33 per cent of the available drainage area in the district.

The whole district is covered under the community development programme. During the Second Five-Year plan period a sum of Rs. 39·55 lakhs had been spent by March 1960 against the total plan provision of Rs. 55·15 lakhs for the C.D. programme. There are 388 co-operative societies including 63 industrial societies and 50 registered factories.

Position of road mileage in March 1960 : 786 miles under P.W.D. (Black Topped 72 miles ; W.B.M. type 207 miles ; Murum surface 507 miles). 50 miles and 2 furlongs of Murum roads are under Dist. Local Board.

Road mileage as expected at the end of the Second Five-Year Plan 1,254 (Black Topped 110 miles ; W.B.M. type 193 miles ; Murum surface 951 miles).

The above mileage includes 62 miles of National Highway but does not include the road mileage of other bodies.

Amount spent during the 1st Five-Year Plan : Rs. 40·60 lakhs. During the four years of the Second Five-Year Plan, a sum of Rs. 47 lakhs had already been utilised and it was expected to spend Rs. 38 lakhs in 1960-61 on the roads other than the National Highway in Kutch.

As regards the Kandla-Ahmedabad National Highway, the length passing through Kutch will be 62 miles of which a length of 30 miles and 6 furlongs is ready and is included in the road mileage under P.W.D.

The District is rich in gypsum, clays and limestone, and has large deposits of lignite, bauxite and ochres.

The main occupations of the people apart from agriculture and cattle rearing are embroidery and silver work, which are well-known for their beauty.

Kutchis are an enterprising and seafaring people. Over six lakhs of Kutchis are distributed in principal cities of India and over 10,000 are abroad.

The main items of export are salt, cotton, wool, castor seeds, bones, hides, skins and fish. The main items of import are foodgrains, oil seeds, cloth, condiments, etc.

The land revenue system has been changed from crop sharing to *ad hoc* Vighoti, thus providing a rational basis for Government revenue. The Jagirdari system in Kutch Dist. has been abolished from 30th Dec. 1958.

Education : There are 37 Secondary Schools including four Girls' High Schools, and 587 primary schools of which 43 are basic schools. About 38 are unrecognised schools. Besides, there are about 207 literacy centres (Samanya Gyan Shalas) in very small villages run by the District Local Board. There are also an Art School, two Basic Training Colleges for primary teachers, a school for the blind and an agriculture school. In addition to 14 pre-primary (Bal-Mandirs) institutions, adult education centres are run by different agencies, *viz.*, Education Department, National Service Extension Blocks, Dist. Local Boards and Social Welfare Department. There is a degree college both for Science and Arts. The post-graduate courses in Gujarati, English, Sanskrit and Economics are also conducted in this college.

There are 15 grants-in-aid libraries in the district. There is one senior division N.C.C. troop along with six junior division troops. There is also one junior division girls' troop.

Health : Free medical relief is available in Kutch. There are 11 hospitals, 23 dispensaries, 5 maternity homes, one T.B. Sanatorium, one T.B. Clinic, one mental hospital and one eye hospital. There are 6 mobile dispensaries and one eye mobile dispensary. There are 3 family planning centres and 3 family health centres with 3 sub-centres each under the supervision of public health department and other 3 health centres under the supervision of Community Project department. There are 27 hospitals and dispensaries under the supervision of the District Local Board. There are also 21 private hospitals and dispensaries, 2 Railway dispensaries and 2 Port dispensaries.

Transport : 349 vilages and towns are served by Road Transport Corporation on 69 different routes covering a route mileage of 2,899 miles. The chief means of communication with outside places is by rail and sea. Goods are carried by steamers, country craft and rail. The length of railway line passing through the district is 125·6 miles. Kandla is a major port. Total volume of trade at this port during the year 1959-60 was 11,23,516 tons (Export 2,95,469 tons, Imports 8,28,047 tons).

* Bilingual.

† See "Late Porticulars" for Population.

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Minor ports are Mandvi, Mundra, Jakhau, Lakhpat and Koteshwar. Total traffic handled at these ports was 80,775 tons. The main items of export are salt, cotton, wool, castor seeds, bones, hides, skins and fish. The main item of imports are foodgrains, Mineral Oils, building materials, cloth, condiments etc.

Kutch is linked with the hinterland of North India and Rajasthan. The new townships of Gandhidham and Adipur have been established near Kandla to resettle the displaced persons from West Pakistan. Gandhidham has now its own municipality. One industrial Estate is also organised near Gandhidham.

Banking : There are branches of the following banks in the District: State Bank of India at Mandvi, Bhuj, Anjar and Gandhidham, Bank of India Ltd. at Bhuj and Gandhidham, Punjab National Bank Ltd. at Mandvi and Gandhidham, Central Bank of India Ltd. at Anjar and Gandhidham, Gandhidham Co-operative Bank at Gandhidham, District Central Co-operative Bank Ltd. at Bhuj, Nalya, Bhachau and Rapar, Anjar, Mandvi, Nakhtrana Land Mortgage Co-operative Bank Ltd. at Bhuj and Mandvi, Mercantile Bank Ltd. at Gandhidham.

Associations

ANJAR MERCHANTS' ASSOCIATION
Anjar (Kutch).

President : Purshottam Shamjee Varu ; *Secretaries :* Dungarshi Purshottam Thakkar ; Odhavji Khimjee Thakkar.

SHRI GANDHIDHAM GRAIN, SEEDS & OIL MERCHANTS' ASSOCIATION
BBZ-N-41, Gandhidham.

Hon. Secretaries : Shamji Damji Thakkar, Devisahai Nandram; *Secretary :* Nagshi Dharshi Sethia.

THE CHAMBER OF COMMERCE
BBZ-N-41, Gandhidham.

President : Morarji Meghji Shah.
Hon. Secretary : Surjit Singh Aurora, M.A.

COTTON MILLS

SHAH SPINNING AND WEAVING MILLS
Anjar (Kutch).

MEHSANA DISTRICT*

Headquarters : Mehsana.

Talukas and Mahals : Patan. Chanasma, Sidhpur, Mehsana, Kheralu, Visnagar, Kalol, Vijapur, Kadi, Sami, Harij.

The area of the District is 3,712 sq. miles.

COLLEGES

M. N. College, Visnagar (*Arts and Science*).

ISABGOL MANUFACTURERS' ASSOCIATION
Bindu Sarowar Road, Sidhpur.

President : J. R. Rana, B.Com., LL.B. ; *Vice-President :* T. Lallubhai ; *Hon. Secy. :* K. P. Sud ; *Hon. Treasurer :* B. Kirparam.

NORTH GUJARAT BIDI AND TOBACCO MERCHANTS' ASSOCIATION
Hinglachar, Patan (N. G.)

PLACES OF PILGRIMAGE

Taranga Hill, Pansar, Sankeshwar, Kamboi and Bhoini (*For Jains*); Bahucharaji and Sidhpur (*For Hindus*); Delmal (*For S. Boras*); Unava (*For Muslims*).

MILLS

BHARAT VIJAYA MILLS, LTD. No. 1, Kalol.

BHARAT VIJAYA MILLS LTD. No. 2, Station Road, Kalol.

MAHENDRA MILLS LTD., No. 1 & 2, Kalol.

NAVJIVAN MILLS PRIVATE LTD., Kalol.

SHREE DURGA COTTON MILLS (Kadi) PRIVATE LTD., Kadi.

SHREE SAYAJI JUBILEE COTTON AND JUTE MILLS CO., Ltd., Near Railway Station, Sidhpur.

SIDHPUR MILLS CO., LTD., Bindu Sarovar Road, Sidhpur.

PANCH MAHALS DISTRICT*

Headquarters : Godhra

Talukas and Mahals : Godhra, Dohad, Kalol, Halol, Jhalod, Deogadh-Baria, Limkheda, Santrampur, Lunavada and Shahera talukas and Jambughoda Mahal.

The area of the District after the merger is 3,497 sq. miles. Approximate annual increase in population is about one per cent. The language spoken is Gujarati.

Agricultural produce includes cereals of all sorts, pulses, oil-seeds including ground-nuts, Til and Mahuwa seeds, Kanji seeds, cotton and tobacco. Larger areas are now being covered by fruit growing orchards and vegetation. Acreage under foodgrains showing within brackets the produce in tons : Maize 303,600 (75,961) ; Paddy 319,934 (54,097) ; Bajri 52,877 (9,861) ; Jawar 31,100 (6,601) ; Wheat 19,706 (4,891) ; Ragi 31,859 (6,812) ; Kodra 40,564 (9,653) ; Pulses 78,271 (8,382) ; Groundnuts 182,228 (39,287) ; Cotton 80,942 (11,332) ; Tobacco 2,198 (265) ; Chillies 3,884 (495) ; Cereals including miscellaneous cereals 840,028 (174,519).

The District has a forest area of 717,212 acres which produces timber such as country teakwood, Mahuwa, Sadad, Kher and Dhavda Wood. Mhowra flowers and timru leaves for bidi-manufacture and hay fodder are a principal produce of the forests. Other minor produce is bamboos, gum, lac, asotri-leaves, Khakhra-leaves, ghat-bor, Kanji-seed, Amla, honey and wax. The Panch Mahals District exports large quantities of timber to various parts in this region. It also exports groundnut oil to the Punjab and parts of Uttar Pradesh. Several Forest Kamdars Co-operative Societies have been functioning for the exploitation of forest produce.

The irrigation projects are the Pata-Dungri Dam, south of Dohad Suki Dam north of Dohad, Titodi Dam south of Jhalod town and Tanachia Irrigation project, 15 miles away from Dohad. All these projects are estimated to increase the yield of food crops by 3,800 tons.

An irrigation project with hydro-electric potentiality is under construction at Kadana in Santrampur Taluka. This will harness waters of Mahi River through erection of a bund 250 feet high.

Agriculture is the main industry in the District. National Extension Schemes are worked out in Shehera, Godhra, Santrampur, Limkheda and Kalol talukas. A multi-purpose project is also applied to the Sukhsara block in Santrampur taluka.

The District contains rich mineral deposits, such as manganese ore and galena, copper and limestone. Big manganese mines are worked at Shivrajpur, Baman Kuwa and Pani Mines which have developed into a mining colony. Saw mills on small scale and mills for fertilisers are located at Godhra while oil-mills are located at Vejalpur in Kalol Taluka, Derol Station in Kalol Taluka and at Godhra. They produce ground-nut oil.

The dry bed of the Panam River near Sant Road Station on the Godhra-Ratlam line and that of the Meshri River at Godhra and Goma River at Kalol contain quality sand used for preparing China-wares and glass and for building construction. There is a glass and Chinaware Factory at Sant Road in Godhra Taluka.

ASSOCIATIONS

The Panch Mahals District Bar Association, Civil Court, Godhra.
The Dohad Bar Association, Civil Court, Dohad.
The Panch Mahals Chamber of Commerce, Station Road, Godhra.
The Stuert District Library, Near Municipal Office, Godhra.
The Theosophical Society, Godhra Lodge, Parbha Road, Godhra.
The Sangit Kala Kendra, C/o K. J. Parikh, Station Road, Godhar.
The Panch Mahals District Development Board, (*Chairman*, Collector, Panch Mahals), Civil Lines Road, Godhra.
Godhra Medical Association (Allopaths), Godhra.
Sir P. T. Arts & Science College Students' Union, Ankleshwar Mahadev Road, Godhra.
Panchmahals District Co-operative Board, Civil Lines Road, Godhra.

PANCH MAHALS CHAMBER OF COMMERCE
Godhra.

Hon. Secretary : Natvarlal Girdharlal Parikh.

PANCH MAHALS LAND HOLDERS' ASSOCIATION
Godhra.

President : A. B. Desai ; *Secretary :* C. D. Desai.

SHREE GODHRA LAXMINARAYAN TEMPLE TRUST
3868, Sheherabhagal, Godhra.

Trustees : S. M. Shukla and K. S. Mehta.

* See "Late Particulars" for population.

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RAJKOT DISTRICT*

Area : 4,072 sq. miles.
Headquarters : Rajkot.
Talukas :
Rajkot ; Jasdan ; Babra ; Morvi ; Wankaner ; Gondal ; Jetpur ; Dhoraji ; Kandorna ; Kotda-Sangani ; Lodhika ; Maliya Padadhari, Upleta.

Rajkot District has four sub-divisions, nine talukas, 5 Mahals and one Peta Mahal.

The area of the land under cultivation is about 21,38,678 acres. The main industries of Rajkot District consist of textiles, hosiery, hand-looms, the production of hydrogenated oils, potteries, salt-making, engineering, etc.

SOCIETIES

MORVI CHAMBER OF COMMERCE & INDUSTRIES
Cotton Association Hall, Near Darbargadh, Morvi.
Secretary : C. M. Sanghvi.

SAURASHTRA KALA MANDAL
Rajkot.
President, Ravishanker M. Raval.
Chairman : Vacant.
Secretary : M. D. Trivedi.

SAURASHTRA SANGEET NATAK AKADEMI
Near Moti Tanki, Rajkot.
President : Yauvraj Saheb Udaybhansinhji of Porbandar ; *Secretary :* Jaymall Parmar ; *Principal-in-Charge :* A. V. Doshi.

SAURASHTRA SAHITYA SANGAM
Post Box 44, Rajkot.
President : Kavi Tribhuvanbhai Vyas ; *Vice-President :* Harsukhbhai Sanghvi ; *Secretary :* Narendra Dave.

WATSON MUSEUM
Jubilee Garden, Rajkot.
Curator : Raj Kumar, M.A., LL.B.

COTTON MILLS

RAJKOT SPG. & WVG. MILLS, PRIVATE LTD., Karansinghji Cross Road, Rajkot.

SHREE RAMESH COTTON MILLS LTD., Morvi.

SHRI AMARSINHJI MILLS LTD., Wankaner.

SABARKANTHA DISTRICT*

Headquarters : Himatnagar.

Talukas and Mahals : Himatnagar, Prantij, Modasa, Bayad, Idar, Khedbrahma, Bhiloda, Meghraj, Vijaynagar, Malpur.

The area of Sabarkantha is about 2,447 sq. miles.

The average yearly rainfall is between 25 and 30 inches.

The principal crops are bajri, maize, paddy, jawar, cotton, wheat, sesamum and groundnut, of which maize, bajri, groundnut and cotton cover the larger area under cultivation. About 30 per cent. of the people consist of Bhils and other backward classes. The main occupation of the people is agriculture. The north and north-eastern parts of the District are hilly tracts and abound in jungle. Except for a few ginning factories and oil mills, the District is very backward in industry.

SURAT DISTRICT*

Headquarters : Surat.

Sub-Divisions : Surat, Navsari, Bulsar, Vyara.

Talukas and Mahals : Chorasi, Olpad, Bardoli, Mandvi, Bulsar, Chikhli, Pardi, Dharampur, Bansda, Navsari, Palsana, Kamrej, Mangrol, Mahuva, Vyara, Songadh, Valod, Gandevi and Surat City.

The present area of the District is 4,509 square miles. The Language spoken is Gujarati.

Much of the soil is rich, but the western border of the District consists of less fertile lands. It has a very valuable and wide forest area.

Besides being noteworthy historically, Surat is one of the principal centres for handicrafts in the State. Nearly half the population of the city depends on handicrafts. Jari work, laces, silk and jari brocades, embroidery, ivory and sandalwood, inlay work of *varakh-nakashi* and ivory bangles are the major handicrafts for which Surat is still famous not only throughout India but even outside India. Gold thread produced here is exported to many countries. Cotton and art silk weaving is another major industry which received an impetus during the War. The taluka of Olpad is famous for its knives and nutcrackers, while Bulsar is well known for its silver engraving work. A co-operative industrial estate is being organised at Udhna three miles from Surat.

INSTITUTIONS

C.G.S. Mahila Vidhyalay Mandal, Gopipura.
Peoples' Education Society.
Sarvajanik Education Society.
Anath Mahajan Balashram, Katargam.
Union Education Society.
Shri Tapi Brahmacharyashram Sabha, Laldarwaja.
Surat Engineering Education and Research Society.

AL-JAMEA-TUS-SAIFIA (SURAT)

A 150-year-old institution originally devoted to a study of and reaserch in Arabic literature. It is now under the personal care and attention of the present Dail Mutlaq His Holiness Dr. Taher Saifuddin Saheb, and is not only a centre of Islamic Culture and learning but also of general education with courses in the arts and the sciences and awards degrees.

In 1958-59 there were 239 students. It is a residential institution and keeps in touch with the students even after they have left it.
Vice-Chancellor : Y. Najmuddin, S.D.T.

GUJARAT METAL INDUSTRIES ASSOCIATION
Station Road, Navsari.
President : Vrajbhukhandas N. Kansara ; *Hon. Secretaries :* Mohanlal H. Kansara, Hemendrabhai B. Shah, Chimanlal V. Bhuta ; *Adviser :* Gangadas Pragji Mehta.

NARMAD SAHITYA SABHA
C/o Gandiva Sahitya Mandir, Hawadio Chaklo, Surat.
President : Prof. Vishnuprasad Trivedi ; *Vice-President :* Dr. Ratan R. Marshal, Ph.D.

THE SURAT CHAMBER OF COMMERCE
Safe Deposit Chambers, Surat.
The present strength is 725.
President : Jayantilal G. Vakharia ; *Vice-President :* Jayantilal Balubhai Jariwala ; *Secretary :* Dinkarrai B. Patel, M.Com.

THE SURAT JARI GOODS PRODUCERS' CO-OPERATIVE SOCIETY, LTD.
Taj Manzil, opp. Tower, Surat.
Prop. : Sri Surat Rolling Mill (Industrial Estate, Udhana).
The society has a strength of 574 members. Seth Hiralal Ranchhoddas Jariwala, *President ;* Nagindas Chunilal Jariwala, *Vice-President ;* Dhirajlal N. Choksi, *Hon. Secretary ;* H. M. Patel, *Manager. Telegraphic Address :* Jarigoods. Phone No. 837.

THE SURAT VANKAR SAHAKARI SANGH LTD.
Kinkhabwala Wadi, Begampura, Surat.
A co-operative society of weavers.
President : Mohanlal C. Dhamanwala ; *Vice-President :* Pranlal H. Bachkaniwala ; *Manager :* Kamalkant S. Shah.

THE SURAT WEAVING ASSOCIATION
Limda Chowk, Lokhandwala Bldg., Mahatma Gandhi Road, Surat.
President : Mohanlal Vallabhram Bunki ; *Vice-President :* Pranlal Hiralal Bachkaniwala ; *Hon. Secretaries :* Manilal Bhukhandas Chevli ; Mansukhlal Chhotubhai Kapadia.

* See "Late Particulars" for population.

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Hon. Treasurers : Mohanlal Chunilal Dhamanwalla ; Uttamram Bhaichanbhai Chevli.

SWADHYAYA MANDAL
P.O. Swadhyaya Mandal (Pardi), Dist. Surat.

A literary and social institute for the propagation of Bharatiya Culture.

President : Pandit S. D. Satwalekar, Vedacharya, Sahitya Vachaspati, Gitalankar ; *Secretary :* V. S. Satwalekar, B.A.

EDUCATIONAL INSTITUTIONS

Ayurvedic College, Laldarwaja ; Surat Certified School, Katargam ; Sir K. P. College of Commerce, Athwalines ; Primary Teachers' Training College, Chawk Bazar ; Female Training College, Vanita Vishram, Surat ; Sarvajanik Law College, Athwalines ; Dr. S. &. S. S. Gandhi Engineering College, Majura Gate, Surat ; M. T. B. College, Athwalines ; Zaal F. Wadia Women's College, Athwalines ;

High Schools & Institutes :

Parekh Technical Institute, Sonifalia ; Jeevan Bharati, Nanpura ; Cambay Institute of Commerce, Kanpith ; Popular School of Commerce, Mani Road ; Smart School of Commerce, Haripura ; Shorthand and Commercial Institute, Beasant Road ; T. & T. V. Sarvajanik High School, Nanpura ; N. G. Zaveri Jain High School, Gopipura ; Sarvajanik High School for Girls, Balaji Road ; T. & T. V. Sarvajanik Middle School, Gopipura ; Haripura Sarvajanik High School, Rampura ; G. & G. V. Kadiwala Middle School, Katargam ; Ratnasagarji Jain Vidhyashala, Gopipura ; I. P. Mission High School for Girls, Muglisara ; I. P. Mission High School for Boys, Muglisara ; Anglo-Urdu High School, Sodagarwada ; Diwan Bahadur N. M. Javeri Union High School, Ranitalao ; Proprietary High School, Bundelawad ; Sir J. J. English School, Shahpore ; Pirojbai Patel Girls' High School, Machhlipith ; Madresa Taiyabiya Girls' School, Zampabazar ; Gujerat Co-operative School, Nanpura ; Vanita Vishram, Athwalines ; Chandagauri G. S. M. V. Mandal Girls' High School, Gopipura ; Ambaba Haripura Mahila Vidhyalaya Girls' School, Haripura.

F. S. PAREKH TECHNICAL HIGH SCHOOL
Sonifalia, Surat.

JEEVAN BHARATI
Greenlands, Nanpara, Surat.

Founded in 1946, the Jeevan Bharati is an experimental educational institution under the management of Jeevan Bharati Mandal. It has been recognised by the Government of Gujarat as a multipurpose school. It provides special courses in (*i*) Technical subjects, (*ii*) Fine Arts—Indian Music & Painting, (*iii*) Woodwork Technology, (*iv*) Hand Spinning & Weaving and (*v*) Sewing & Embriodery Work, upto the S.S.C. Class.

President of the Mandal : M. M. Pakvasa.
Chairman, Board of Trustees : Morarji R. Desai.

MAGANLAL THAKORDAS BALMUKUNDDAS ARTS COLLEGE
Surat.

Principal :— K. L. Desai, M.A., LL.B. (Bom.), B.A. (Cantab.).

SARVAJANIK EDUCATION SOCIETY
Surat.

The society manages four colleges, five high schools, one middle school and an institute for higher learning and research.

President : Mangaldas Manchharam Pakvasa, B.A., LL.B. ; *Chairman, Managing and Executive Committees :* Lalitmohan Chunilal Gandhi, M.A., B.Sc., LL.B. ; *Vice-Chairman :* Jashvantlal Chhaganlal Clerk, B.A., LL.B. ; *Secretary :* Prof. Jivanlal Trikamlal Parikh, M.A.

SARVAJANIK LAW COLLEGE
Surat.

Principal.—C. D. Vyas, M.A., LL.M.

DR. S. AND S. S. GHANDHY COLLEGE OF ENGINEERING AND TECHNOLOGY
Majura Gate, Surat.

Principal.—D. V. Virkar.

SIR KIKABHAI PREMCHAND COLLEGE OF COMMERCE
Surat.

Principal.—A. R. Desai, M.A., M.Sc. (Econ.) (Lond.).

HOTELS, REST HOUSES

Savoy Hotel, Opp. Station.
Jay Bharat Hindu Lodging and Boarding House, Main Road.
Ukadji Dharmashala for Parsis, Muglisara.
Government Rest House, Nanpura.
P.W.D. Guest House, Nanpura.
Evergreen Lodging and Boarding House, Buranpuri Bhagal.
Rambharose Lodging and Boarding House, Chawk Bazar.
Central Hotel, Station (Air Conditioned).

SPINNING & WVG. MILLS

GAEKWAR MILLS LTD., Billimora.

MAFATLAL FINE SPG. & MANUFACTURING CO. LTD., Vejalpur Road, Navsari.

NAVSARI COTTON AND SILK MILLS LTD., Vejalpur Road, Navsari.

NIRANJAN MILLS PRIVATE LTD., Falsawadi, Surat.

SURAT COTTON SPG. & WVG. MILLS PRIVATE LTD., Nawabwadi, Surat.

SURAT TEXTILE MILLS LTD., Varachha Road, Surat.

THE SURAT ELECTRICITY COMPANY, LTD.
Agents : Messrs. Killick Industries Ltd., Bombay.
Office & Power House : Tilak Maidan, P.O. Box 20, Surat. Tel. No. 34.
N. D. Desai, L.E.E., Mem. A.I.E.E., Chief Engineer & Manager.
C. H. Eastland, Asst. Chief Engineer & Manager (Gen.).
J. T. Modi, B.Sc. (Eng.), A.M.I.E.E., Assistant Chief Engineer and Manager (Engg.).
B. M. Desai, B.Sc. (Eng.), Asstt. Chief Engineer & Manager (Com.).
G. B. Mankar, Station Superintendent.
M. C. Desai, B.E., A.M.I.E., Assoc. Mem. A.I.E.E., Mains Engineer.
R. P. Kinariwala, D.M.E., D.E.E., Assistant Engineer (Com.).
Central Administration Department : 5, Graham Road, 4th floor, Ballard Estate, P.O. Box No. 109, Bombay 1.

SURENDRANAGAR DISTRICT*

Area : 4,249 sq. miles.

Headquarters : Surendranagar.

Tahsils :—Wadhwan (Wadhwan) ; Chotila (Chotila) ; Muli (Muli) ; Dhrangadra (Dhrangadra) ; Halvad (Halvad) ; Dasda (Dasda) ; Limbdi (Limbdi) ; Lakhtar (Lakhtar) ; Sayla (Sayla).

There are about 12 towns with a population of over 5,000 and 672 villages.

About 70 per cent of the population lives in the rural areas. The main occupation of the people is agriculture, and the important crops are bajra, jawar, cotton, paddy, groundnut, wheat and gram.

The main industries of the district consist of textiles, salt, soda ash, potteries, ginning and pressing factories.

ASSOCIATIONS

SAURASHTRA GINNING AND PRESSING FACTORIES ASSOCIATION
C/o Dhrangadhra House, Surendranagar.

SAURASHTRA MILLOWNERS' ASSOCIATION
Dhrangadhra House, Surendranagar.

President : Shantilal Mangaldas ; *Vice-Persident :* Chandulal Vardhman Shah ; *Secretary :* A. P. Shah.

COTTON MILLS

KANTI COTTON MILLS PRIVATE LTD. Mill Road, Surendranagar.

SAURASHTRA CO-OPERATIVE SPG. MILLS LTD.—Limbdi.

* See "Late Particulars" for population.

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HIMACHAL PRADESH

Area: 10,904 sq. miles; Population: 1·35 million (Provisional) 1961 census; Administration Headquarters: Simla; Strength of Territorial Council: 43 (41 elected and 2 nominated).

The Centrally administered territory of Himachal Pradesh comprises 22 former Punjab Hill States and their 9 tributaries. The 22 States are Baghal, Baghat, Balsan, Bilaspur, Bushahr, Bhaji, Beja, Chamba, Darkoti, Dhami, Jubbal, Keonthal, Kumarsain, Kunihar, Kuthar, Mehlog, Mandi, Mangal, Sangri, Sirmur, Suket and Tharoch.

The 9 tributaries are Delath, Dhadi, Ghund, Khaneti, Koti, Madhan, Ratesh, Rawingarh and Theog.

The State came into being on April 15, 1948.

Bilaspur was merged into Himachal Pradesh on July 1, 1954.

Himachal Pradesh lies between North Latitude 30° 22′ 40″ to 33° 12′ 40″ and East Longitude 75° 47′ 55″ and 97° 4′ 20″. It is bounded on the north by the Jammu and Kashmir State, on the south by Tehri-Garhwal and Dehra Dun Districts of Uttar Pradesh and the Ambala District of Punjab; on the west by Ambala, Hoshiarpur and Kangra. On the east the boundaries are undefined.

The Territory is divided into six administrative districts, Mahasu, Sirmur, Mandi, Chamba, Bilaspur and Kinnaur.

Mahasu District is divided into the following tehsils and sub-tehsils.

Tehsils: Rampur (Bushahr), Rohru, Chopal, Jubbal, Theog, Arki, Solan and Kasumpti. Sub-Tehsils: Kumarsain, Suni and Kotkhai.

About 95 per cent of the total population are agriculturists.

Kinnaur District, the border district which was constituted in May 1960, was carved out of areas which originally formed part of the Mahasu district. For administrative purposes, the district is sub-divided into three sub-divisions: Kalpa, Nichhar and Pooh which are administered by Sub-divisioned Offices. The district is mainly inhabited by Kinner tribesmen.

Sirmur District is divided into four Tehsils, Nahan, Pachhad, Rainka and Paonta. About 95 per cent the total population depends upon agriculture.

Mandi District contains the Tehsils of Mandi Sadar, Karsog, Sundernagar, Joginder nagar, Sarkaghat and Chachiot. A great majority of the total Population depends upon agriculture.

Chamba District is divided into the Tehsils of Chamba, Churah and Bhattiyat and the Sub-tehsils of Bharmaur and Pangi. Practically all persons are agriculturists.

Bilaspur District lies on both the banks of the Sutlej River and is divided into two tehsils Bilaspur and Ghumarwin. Agriculture is the main occupation of the people.

For population of Districts according to 1961 census see "Late Particulars."

ECONOMY

The main agricultural wealth of the Territory consists in potatoes and fruits such as apple, apricot, plum, peach, nuts, pomegranate.

The climatic conditions in this Territory are suitable for the growing of a large variety of fruits. Citrus and other sub-tropical fruits like mango, guava, loquat, pomegranate are grown in the valleys while stone fruits are grown in low and mid-hills. Apples and pears are grown in the cooler regions. The superior varieties of apples which were restricted to a few progressive areas like Kotgarh and Kotkhai are now grown extensively in other parts of the Pradesh. At present about one lakh maunds of apples are exported to various parts of India. With the new orchards fast coming up, the production of fruit will increase considerably during the 3rd Five Year Plan.

Salt is another important item; while forests yield timber, fire-wood and charcoal. Handicrafts which include Pashmina shawls, wool of fine quality, resin, herbs, musk and skins are another source of income.

Himachal Pradesh forests supply the largest quantities of coniferous timber in Northern India. They are the main source of revenue in the Territory, the estimated revenue during 1959-60 being Rs. 181 lakhs including revenue from the sale of resin and turpentine. The entire Territory is divided into three forest circles which are further sub-divided into 12 territorial divisions. Circles: Chamba, Simla, Sirmur. *Sub-divisions: Simla:* Upper Bushahr, Lower Bushahr, Simla, Solan and Bilaspur. *Chamba:* Chamba, Chaurah, Mandi and Suket. *Sirmur:* Jubbal, Rajgarh and Nahan.

A forest utilization division has recently been opened to develop the forest resources of the Territory. A separate circle for Soil conservation will be started during 1961-62. The forests are also useful in ensuring the safety of the catchment areas of the Jumna, Sutlej, Beas, Ravi and Chenab rivers. On the protection of these catchment areas depends the steady and constant flow of water in these rivers, and the success of irrigation and engineering works in the plains.

Seed potato is the chief cash crop in which the Territory has established itself as an important supplier to the plains of India. In 1959-60 alone, seed potatoes worth Rs. 1·25 crores were sold to other parts of India. The total acreage under potatoes, which was about 18,000 in 1950-51, stood at 24,000 in 1958-59.

One of the oldest foundries of the country is located at Nahan besides a resin and turpentine factory.

Five year plan investment for 1961-62: about Rs. 5·209 crores. The total investment for the whole plan is likely to be about Rs. 16·363 crores.

Electricity.—The length of transmission lines of electricity is 678 miles in the Territory and the number of Sub-Stations 172. The total installed capacity by the end of the Second Plan was expected to be 830 kW.

During the Second Plan period, a micro or baby hydel set was installed at Chhaila, for harnessing the waters of the Giriganga. This power house has been meeting the demands for electricity from the nearby villages.

JAMMU AND KASHMIR STATE

Capital: Srinagar.

Area: 84,471 sq. miles; Population: 3·58 million (Provisional) (1961 census).

Official language: Urdu; Regional languages: Kashmiri, Dogri, Balti, Dardi, Punjabi, Paheri, Ladakhi. There are three municipalities, 26 town area committees and four notified area committees in the State.

The State has now a Legislative Assembly (100 including 25 for occupied areas) and a Legislative Council (36).

For administrative purposes, the State is divided into two provinces: Kashmir (including the Frontier District) and Jammu.

Districts: in Kashmir Province: Srinagar, Baramulla, Anantnag and the Frontier District of Ladakh; in Jammu Province: Jammu, Kathua, Udhampur, Doda and Poonch.

For population of districts and tehsils according to the 1961 Census see "Late Particulars."

The Jammu and Kashmir State constituting the extreme western section of the Himalayas, lies between 32°17′ and 36°58′ north latitude, and 73°26′ and 80°30′ east longitude.

Non-Muslims form about 23 per cent of the total population. Culturally both Muslims and Hindus belong to the same group. Consequently, they speak the same language and have common customs and conventions, and sometimes even places of common worship.

About 10·3 per cent of the total population is urban. There are 2 cities, 37 towns and 8,740 villages in the whole State.

A double tube 1½ miles long low level tunnel, the Jawahir Tunnel, was bored through the mountain of Banihal and traffic has been allowed through both the tubes. The tunnel has provided an all weather link between Kashmir Valley and the outside world. The tunnel is officially called the Jawahir Tunnel after the Prime Minister.

AGRICULTURE

Kashmir State has a delightful climate, though winter months are very cold. The maximum recorded temperature of the Kashmir Valley is 99·3 degrees and the minimum 11°. In Jammu the temperature in summer goes upto 115°, or sometimes even higher, but comes down to 30° and even to 20° during winter in some parts of the State. The average rainfall for the whole of the State is 28·45″.

Forests hold an important place in the economy of the State. They yield fine wood of many varieties, medicinal herbs and also provide game and fodder for the cattle.

The oldest forest industry is that of rosin and turpentine.

Agriculture is the main occupation of the people. But only 3·6 per cent of the total area is cultivable, and the remaining portion is full of mountains and deserts. The total amount of land actually under cultivation in the State is 2,069,767 acres. The main crops grown are rice and maize, and in Jammu wheat and maize. The State on the whole is deficit with regard to food supply.

The total area of the State in acres is 54 million. Out of this the culturable area today would be of the order of 2·1 million acres.

Total irrigation potential created upto March 1958: 10,000 acres. Total area irrigated as a result of this newly created potential upto March 1958: 3,330 acres. Percentage of utilization upto March 1958: 33.

The Government passed the 'Big Landed Estates Abolition Act' in 1951, by virtue of which the right of ownership held by a landlord owning more than 22¾ acres was extinguished without compensation and was thereafter

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vested in tillers of such lands. In pursuance of this Act, the Government distributed the land held by big landlords (as defined in the Act) among the tillers and thus landlordism, to a large extent, was abolished in the State. 8,989 persons held more than 22¾ acres each and together accounted for 900,000 acres. The area of land from which expropriation took place without compensation was 4·5 lakh acres. About 2·3 lakh acres of land were transferred in ownership right to about 2 lakh tillers with more than 7 lakh dependents. Land vested in the State amounted to 2·2 lakh acres.

The Government has a land settlement drive beginning with Baramulla and Poonch districts.

Tenants holding lands at the commencement of the Tenancy (Amendment) Act of 1955 were declared protected tenants. Landlords have a right to resume land for personal cultivation from them to the extent of two acres of wet land or four acres of dry land in Kashmir Province and four acres of wet land or six acres of dry land in Jammu Province. However, where the holding of a landlord exceeds four acres of wet land or six acres of dry land in Kashmir Province and six acres of wet land or eight acres of dry land in Jammu Province, the protected tenant will have to be left with a minimum area of two to six acres.

The maximum rent payable by tenants owning more than 12½ acres is not to exceed one-fourth of the gross produce for wet lands and one-third for dry lands. In the case of other tenants it is not to exceed half of the gross produce. Ceiling on holdings has been fixed at 22¾ acres. This limit applies to lands owned by proprietors.

Rural debts were scaled down thus bringing relief to the indebted rural population.

Various irrigation schemes with a capacity of irrigating about 19,000 acres of land were completed during 1958-59. Work of Kathua Feeder of the Ravi Pratap Canal has been intensified during 1959-60. The Government have drawn up a Master Plan for flood-protection of the Valley. Work on outfall channel from Wular Lake to Baramulla is in progress and is calculated to protect the valley against floods.

About 44 seed multiplication farms have been set up and 90,000 mds. of ammonium sulphate have been distributed during 1959-60.

INDUSTRY, MINERALS

Woollen textile manufacturing is the biggest single industry in the State. It gives employment to about 300,000 people, including both part-time and whole-time workers. Kashmir woollens, such as shawls, carpets, namdas and gabhas have a world-wide popularity.

Next in importance comes the silk industry. Kashmir filatures are the largest in the world for a single unit of production, and produce one of the finest quality silks.

Silk worm rearers number about 60,000. The total number of persons employed would be over 100,000 and the number dependent on the silk industry would be about a million. The industry is run by a Government department. (*For more details see article on Silk and Sericulture*).

The joinery mill is a unique venture, as few such industries exist outside Europe and North America. The factory has an installed capacity for the manufacture of 36,000 doors and 36,000 windows which on an average should mean a turn-over of goods worth Rs. 35 lakhs per year.

Two other factories set up are a tannery and a carpet factory.

Papier-mache, silver-ware, and wood-carving are among the other minor industries of the State.

The industrial co-operatives include carpet weaving, pashmina weaving and embroidery, chain stitch weaving, tapestry weaving, wood carving and papier-mache. The total value of the goods sold by the Induscos in one year is about Rs. 3 lakhs.

Production centres of calico printing, khadi, wooden articles, hand-made paper etc. have been started at various places in both the Provinces.

The total no. of factories in the State: about 50.

Total labour: over 5,000.

Total no. of workers in cottage industries: about 14,500.

Woollen manufactures, silks, forest products such as timber, herbs, some chemicals, furs and skins, and fruit and vegetables are the main items of export, whereas foodstuffs, textiles, sugar and tea, spices and hardware form the main imports into the State.

The following is a list of the minerals found in the State: Coal, Lignite (possibilities of petroleum), Bauxite, Iron ore, Copper ore, Lead, Zinc, Nickel ore, Manganese, Gold, Arsenic, Chromite, Ochre, Gypsum, Graphite, Kaoline, Bentonite, Fuller's Earth, Marble, Slate, Steatite, Turpentine, Barytes, Corrundum (Sapphire and Ruby), Beryl and Aquamarine and Tour-mallin.

Tertiary coal deposits in Jammu occupy an important position in the economy of north India. The two fields are Jangal Gali about 40 miles from Jammu and Kalakot about 75 miles from Jammu.

Soapstone, barytes and china clay are worked by the Mining Department of the State and products sent to the Government Paint and Mineral Factory at Jammu.

The sapphire mines are about 200 miles from Jammu.

Gypsum deposits occur about 40 miles from Jammu.

The Government Art Emporium has about 100 production centres at which local craftsmen and artisans work.

There is a State Financial Corporation. The Government have also established a corporation with an authorized capital of Rs. 5 crores for the commercial exploitation of mineral deposits in the State.

Industrial estates have been set up to encourage the private sector by affording them facilities for industrial development.

An agreement was signed on June 17, 1961 between the Kashmir Government and the Sahu-Jain Ltd. for setting up a group of plywood industries in Kashmir. Under the agreement a joint company is envisaged with an authorized capital of Rs. one crore of which Rs. 95 lakhs would be subscribed by the Sahu-Jain group.

Power Schemes: During the First Five-Year Plan, the Rs. 2·30 crore Sindh Hydro-electric Project was completed and the production of electric power increased from 5,110 kWs. to 11,461 kWs.

The Ganderbal Project, the first phase of which was completed during the First Five Year Plan and the 2nd phase of which was to be completed by the end of the 2nd Plan, envisages generation of 9,000 kWs. of power by installation of two additional generating sets of 4,500 kWs. each. Much of the work has been completed.

In addition the scheme envisages the purchase of 5,000/6,000 kWs. of power from the Punjab Government for meeting additional load in Jammu as the existing generating capacity is insufficient.

Irrigation: The Government of India has approved the Kathua Canal Project for irrigation of over 30,000 acres of land of *kharif* and *rabi* crops in the State, and has sanctioned Rs. 15 lakhs as loan for financing expenditure on the project for 1959-60.

The total estimated cost is Rs. 66·6 lakhs.

Tourism in the State: Tourist traffic is one of the main sources of income both to the State and the people.

A sum of Rs. 124 lakhs would have been spent on the development of tourism in Kashmir by the end of the Second Five-Year Plan. The State proposes to spend about Rs. two crores for that purpose during the Third Plan. Numerous schemes for providing more facilities to tourists are envisaged.

No. of tourists during 1957: 43,018 (37,172 Indians, 5,846 non-Indians); during 1958: 60,557 (54,017 Indians, 6,540 non-Indians); during 1959: 71,220 (61,560 Indians; 9,660 non-Indians); during 1960 (upto the middle of October): 69,646 (59,715 Indians, 9,931 non-Indians).

EDUCATION

Education was declared free throughout the State from Primary to the University stage, in the year 1953.

	1958–59	1959–60
Primary schools ..	2,542	2,910 (includes Maktabs, Pathshala and aided)
Secondary schools ..	456	534
Colleges	12	12

Against the total number of scholars attending educational institutions in the year 1951–52 which was 1,32,000, the number went up to 2,83,000 in 1959-60. The number of girl students in schools before the First Plan was nearly 19,500 and it has now risen to over 34,000. In 1957 a Polytechnic was also opened at Srinagar.

A Medical College has been established for the first time in 1959 with a seating capacity of 150 students every year. The State's first Engineering College has been established during 1959-60.

The budget for education has risen from Rs. 33·47 lakhs to about Rs. 2 crores in 1960-61.

In 1958 two industrial training institutes one at Jammu and the other at Srinagar, were opened.

(*For detailed statistical information on education in the State, see Education Tables under 'Late Particulars'*).

ROAD DEVELOPMENT

In respect of means of communication the State was very backward having a very poor road system. Before the Plan was taken in hand there were 2·5 miles of road per 100 sq. miles and only one mile of road per 2,000 of population. There were only 1,600 miles of motor road, 427 miles of jeep track and 2,400 miles of bridle path.

During the Plan Period, 425 miles of new road were constructed, 482 miles of existing roads improved and over 20 major bridges of 7,000 ft. aggregate length constructed.

Road building entered a distinct phase of development during the 2nd Plan period. The total length of the roads in Kashmir Province alone by the end of 1959-60 has approximately been 1,197 miles excluding bridle roads, thus achieving nearly 70 per cent of the targets in the first four years of the 2nd Plan. A net work of roads has been laid in the other parts of the State. The Leh-Kargil road, about 150 miles long, has been recently completed.

PUBLIC HEALTH

There are two central hospitals at Srinagar (450 beds) and Jammu (250 beds), two tuberculosis hospitals at Srinagar (190 beds) and Jammu (70 beds).

Number of Sanatoria: 2. One at Tangmarg with 63 beds (35 paid) and one at Balote with 30 free beds.

No. of District Hospitals: 7. Each has a bed strength of 30 with arrangements for anti-rabic treatment. Pathological, gynaecological, surgical, laboratory and dental treatment is also provided.

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There are two central laboratories attached to the two central hospitals.

Under the B.C.G. campaign 25 lakh people have been tested and 13 lakh vaccinated so far (Nov. 1960).

The table below gives the details:

CO-OPERATION

The figures relate to 1959-60:

The total no. of societies: 1,552; no. of members: 261,723; working capital: Rs. 432·85 lakhs.

Name	Number of Societies	Members	Working Capital
			Rs.
J. & K. State Cooperative Bank	1	814	10,492,964
Central Cooperative Banks	3	1,442	10,264,888
Agricultural Credit Societies, Large sized	301	160,715	11,213,000
Agricultural Credit Societies, Small sized	993	70,873	3,485,574
Non-Agricultural Credit Societies	87	3,000	657,000
Apex Marketing Societies	2	639	881,013
Primary Marketing Societies	36	7,654	3,483,001
Milk Societies	3	287	85,331
Farming Societies	5	595	20,600
Other Processing Societies	2	59	7,000
Wholesale Stores	13	91	163,651
Primary Stores	17	9,670	970,994
Housing Societies	4	236	228,533
Weavers' Societies	54	1,360	204,506
Industrial Societies	18	2,545	609,000
Other Non-Credit Societies	5	956	176,000
Kashmir Arts Cooperative	1	6	234,162
Fishermen Cooperative Societies	1	219	11,000
Spinning Societies	4	175	3,253
Mazdoor Co-operative Printing Press	1	26	79,696
J. & K. Cooperative Union	1	361	14,078

About 40 per cent of the families are in the co-operative fold.

BUDGET ESTIMATES FOR 1961-62

(*See under 'Late Particulars'*)

HOUSING

A Housing Board under the Chairmanship of the Prime Minister, Jammu and Kashmir deals with housing schemes in the State.

A sum of Rs. 95,00,000 had been allocated by the Government of India for the Low Income Group Housing, Industrial and Village Housing and Slum Clearance Schemes under the Second Five-Year Plan.

One hundred and eighty-two quarters have been built in the newly established townships of Gandhinagar, Jammu (104 quarters), and Jawaharnagar, Srinagar (50 quarters), on Government account. About 700 houses have been constructed by Government servants in the low-income group in both the townships.

The loan assistance offered to various classes of Government servants in different income groups is Rs. 2,500, Rs. 3,000, Rs. 3,500 and Rs. 4,500.

FIVE-YEAR PLANS

The State Government revised the First Five-Year Plan to meet the genuine requirements and needs of the people. The provision for the Plan was raised from Rs. 700·00 lakhs to Rs. 973·21 lakhs in the Central Sector and from Rs. 300·00 lakhs to Rs. 300·94 lakhs in the case of the State Sector.

The State's Second Five Year Plan is estimated to involve a total outlay of Rs. 3,392·07 lakhs as against Rs. 1,274·2 lakhs of the First Five-Year Plan. The Plan gives high precedence to the development of agriculture and industry and the expansion of educational and medical facilities. It is estimated that employment opportunities to the tune of 14·85 lakh man-months will be created during the Plan-Period.

THIRD PLAN: The Planning Commission has pruned the outlay on Kashmir's Third Plan from Rs. 169 crores to Rs. 95 crores.

The outlay on the core of the Plan will be Rs. 75 crores. Of this amount, the State Government has undertaken to raise Rs. 13 crores during the next five years. Besides this, a sum of Rs. 6 crores has been allocated for matching schemes.

The Planning Commission has fixed the ceiling at Rs. 14 crores for projects to be sponsored by the State Mining and Mineral Products Corporation.

CONSTITUTION

A Constitution was finally approved and adopted unanimously on November 17, 1955. It came into effect on January 26, 1957.

The Constitution declares the State of Jammu and Kashmir to be "an integral part of the Union of India." This is irrevocable. For another section lays down that no amendment seeking a change in this can be moved in the legislature.

Every person who is, or is deemed to be, a citizen of India shall be a permanent resident of the State, if on the 14th of May, 1954 he was a State subject of Class I or of Class II or having lawfully acquired immoveable property in the State, he has been ordinarily resident in the State for not less than 10 years prior to that date. Any person who, before the fourteenth day of May, 1954, was a State Subject of Class I or of Class II and who, having migrated after the first day of March, 1947, to the territory now included in Pakistan, returns to the State under a permit for re-settlement in the State or for permanent return issued by or under the authority or any law made by the State Legislature will on such return be a permanent resident of the State. The permanent residents will have all the rights guaranteed to them under the Constitution of India.

The Constitution lays down that the Executive of the State should consist of the Sadar-i-Riyasat who will be elected by a majority of the total membership of the Legislative Assembly. He will hold office during the pleasure of the President. The executive power of the State will be vested in him and shall be exercised by him. The Sadar-i-Riyasat will hold office for a term of five years.

The Legislature of the State will consist of the Sadar-i-Riyasat and two Houses, to be known respectively as the Legislative Assembly and the Legislative Council. The Legislative Assembly will consist of one hundred members chosen by direct election from territorial constituencies in the State.

The Kashmir Legislative Assembly on 21st Feb. 1961 passed a Bill amending the State Constitution to continue reservation of seats in the Legislative Assembly for the Scheduled Castes till 1970.

Twenty-five seats in the Legislative Assembly will remain vacant to be filled by representatives of people living in Pakistan-occupied areas of the State.

The official language of the State will be Urdu, but English will, unless the Legislature by law otherwise provides, continue to be used for all official purposes of the State.

The emoluments of the Sadar-i-Riyasat will be Rs. 5,500 a month.

The Municipal Councils and Town Area Committees now consist wholly of elected representatives. The powers of the Municipal Councils have been increased. Similar changes have been brought about in the case of Town Area Committees.

The State has been moving towards greater and greater integration with the rest of the country.

First the responsibility to administer departments like National High Ways, Telephones, Telegraphs, Income Tax, Broadcasting and Customs etc. was transferred to the Government of India. The Accounts and Audit Department of the State came under the Auditor General of India. The accounts of the revenue and expenditure were subject to the audit scrutiny of the Auditor General. Customs barrier and the permit system which regulated the entry and exit of people into and from the State were abolished.

As from May 1957, the State Government was put on par with other States in respect of financial matters including proportionate allocation of funds from the centre. Under this arrangement the State now receives its due share of financial allocation strictly in accordance with the principles that apply to other States. The Schemes and Projects under the Five-Year Plan are now vetted and approved by the Planning Commission and expenditure on these is sanctioned on the recommendation of the Commission. Every major project is examined by various Central agencies like the Central Water and Power Commission to ascertain their technical and economic feasibility.

Another step towards unity was the creation of a State cadre of IAS and IPS officers.

The National Sample Survey now operates in the State as it does elsewhere.

The Indian Election Commission now exercises jurisdiction over Kashmir.

The Judges of the Kashmir High Court have now the same rights and emoluments as Judges of other High Courts. This also means that they will now be appointed by the President of India.

Finally, the jurisdiction of the Supreme Court now extends to Kashmir as it extends to the rest of the country.

The laws of the Government of India however apply to Kashmir through orders made by the President of India. The residuary legislative powers thus rest with the State legislature.

JAMMU & KASHMIR STATE FINANCIAL CORPORATION†

ADMINISTRATIVE PERSONNEL

(See under 'States Administrative Personnel').

LEGISLATIVE ASSEMBLY

(See under 'General Elections').

LEGISLATIVE COUNCIL

(See under 'General Elections').

THE UNIVERSITY OF JAMMU AND KASHMIR

Chancellor: Yuvaraj Karan Singh Ji, Sadar-i-Riyasat.*

Pro-Chancellor: Bakshi Ghulam Mohammed, Prime Minister.

Vice-Chancellor: K. M. Panikkar.

Registrar: Ghulam Mohammad.

Treasurer: Sirdar M. A. K. Lodi.

Deputy Registrar: R. K. Sapru.

Deans of Faculties:

Arts: S. L. Pandit; *Science:* Ghanashyam; *Oriental Learning:* G. N. Mattoo; *Education:* Agha Ashraf; *Commerce:* G. P. Singh; *Social Science:* Dr. J. N. Bhan; *Medicine:* G. V. S. Murthi.

Number of affiliated colleges: 26.

Number of students who appeared for the previous examinations in 1959-60: Men 8,981; Women 3,686.

† See "State Financial Corporations".

* The Govt. of India has recognised Yuvaraj Karan Singh Ji as successor to the late Maharaja Hari Singh with effect from April 26, 1961.

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Budget for 1959-60 :
Actual Income : Rs. 16,53,925·51.
Actual Expenditure : Rs. 11,56,968·06.
Govt. grant : Rs. 5,15,000·00.
Central Govt. grant and U. G. C. grant : Rs. 4,54,155·00.

COLLEGES

Amar Singh College, Srinagar.
Sri Pratap College, Srinagar.
Govt. Women's College, Srinagar.
Gandhi Memorial College, Srinagar.
Govt. Gandhi Memorial Arts College, Jammu.
Govt. Gandhi Memorial Science College, Jammu.
Govt. Women's College, Jammu.
T. T. College, Srinagar.
T. T. College, Jammu.
Govt. Medical College, Srinagar.
S. P. M. Rajput Commerce College, Jammu.
Govt. Inter College, Anantnag, Kashmir.
Govt. Inter College, Sopore, Kashmir.
St. Joseph's College, Baramulla, Kashmir.
Govt. Inter College, Bhadarwah.
Govt. Inter College, Poonch.
Jamia Madinatul Uloom, Hazratbal.
Mahila Maha Vidyalaya, Srinagar.
Government Oriental College, Srinagar.
Shri Rugh Nath Sanskrit Mahavidyalaya, Jammu.
Rupa Devi Shardha Peeth, Srinagar.
Vishwa Bharti Girls' College, Rainawari, Srinagar.
Hindu Kanya Maha Vidyalay, Chinkral Mohalla, Srinagar.
Sanatan Dharm Kanya Vidyalaya, Jammu.
Vidya Peeth Mahila Oriental College, Jammu.
Nusrat-ul-Islam Oriental College, Srinagar.

The medium of instruction is English except in classical and modern Indian language classes, where the medium of instruction is the language concerned or an allied language.

ASSOCIATIONS

BEOPAR MANDAL
Sri Ranbir Ganj, Srinagar 2.
President : Haji Abdul Aziz Mir ; *Vice-Presidents :* L. Girdhari Lal; Kh. Noor-ud-Din ; *General Secretary :* O. P. Kapoor ; *Jt. Secretary :* R. N. Kaula.

KASHMIR CHAMBER OF COMMERCE
Srinagar.
President : S. K. Kaul ; *Vice-President :* G. R. Matto ; *Secretary-General :* D. S. Sawhny.

KERALA

Area : 14,992 sq. miles.

Coastal line : 360 miles.

Total population : 16·88 million (Provisional) (1961 census).

Density of population (1961) : 1,125 (Provisional). Sex ratio : 1,022. Literacy per 1,000 : 462.

Figures for March 31, 1959 : Number of districts 9 ; talukas 55 ; villages 1,633 ; municipal towns 26 ; corporations 1 ; panchayats 892.

Capital : Trivandrum.

Names of Districts with names of District Headquarters within brackets : Trivandrum (Trivandrum); Quilon (Quilon); Kottayam (Kottayam); Alleppey (Alleppey); Trichur (Trichur); Cannanore (Cannanore); Kozhikode (Kozhikode); Palghat (Palghat); Ernakulam (Ernakulam).

For population of districts according to the 1961 census, see "Late Particulars."

Geography : The climate of the whole region is generally temperate and the rainfall heavy. Languages spoken in the State are Malayalam, Tamil and Kannada.

BUDGET ESTIMATES FOR 1961-62

(*See 'Late Particulars'*).

INDUSTRIES

Important industries of the State : Coir, textiles, tea, rubber, manufacture of bricks and tiles, cashew nut processing, printing, saw milling including plywoods and manufacture of splints and veneers for matches, rice milling and extraction of oils.

Main large-scale industries of State : Rubber, Plywood, Fertilisers and Chemicals, Rayons, Glass, Paper, Aluminium, Sugar, Cement, Textiles, Titanium Diocide, Soaps, Shark liver oil, Ceramics, Rare Earths and Engineering.

Chief products of the large-scale industries of the State : Chemicals, ammonium sulphate, ammonium chloride, ammonium phosphate, superphosphate, sulphuric acid, ammonia, caustic soda, chlorine, calcium carbide, copper sulphate, titanium dioxide, rare earth salts, cycle rims, crockery and sanitary wares, electric porcelain, fire-bricks etc.

Miscellaneous : Aluminium ingots, glassware, cement, rayon, transparent paper, vegetable oils and soaps, vanaspati, alcohol, pharmaceuticals, galenicals, plywood, ceramic ware, rubber goods, paper, cotton textiles and engineering materials, agriculture implements, dyeing and printing, manufacture of jewellery, canning and preservation of fish, starch, cutlery, locks, etc.

State-owned Industrial Undertakings : Travancore Rubber Works, Trivandrum ; Travancore Plywood Industries, Punalur ; Government Press, Trivandrum ; Government Press, Ernakulam ; Government Stamp Manufactory, Trivandrum ; Station Workshop, E.M.E., Cochin Wellington Island ; Government Engineerin-Workshops, Trivandrum ; Government Tramway Workshop, Chalakudy ; Government Hydrogenation Factory, Kozhikode ; Cochin Harbour Workshops, Dry Dock and Power station, Wellington Island ; Kerala Soap Institute, Kozhikode ; Pallivasal Hydro-Electric Generating Station, Chithirapuram ; Indian Rare Earths, Udyogamandal, Alwaye ; Government Oil Factory, Kozhikode ; State Transport District Garage, Thayakathukara Pakuthy, Alwaye ; State Transport District Garage, near Boat jetty, Quilon ; State Transport District Garage, Pulamon, Kottarakara ; State Transport District Garage, Alleppey ; State Transport District Garage, Kottayam ; State Transport District Garage, Trivandrum City ; State Transport Garage, Ernakulam ; State Transport Boat Building Yard, Perumanoor, Ernakulam ; State Transport Central Works, Pappanamcode ; State Transport Central Depot, Thampanoor ; Body Building Workshop, State Transport, Pappanamcode, Trivandrum ; Kerala Cycles Private Ltd., Trivandrum ; Kerala Cycle Rim Factory, Trivandrum ; The Shark Liver Oil Factory, Trivandrum ; Kerala Government Ceramic Concern, Kundara ; The Government Ceramic Concerns, Kundara ; The S.K.V.G.A. Pharmacy, Trichur.

(The various Transport garages in the State are registered as factories according to the Factories Act, 1948).

State-sponsored Industrial Undertakings : The Fertilisers and Chemicals (Travancore) Ltd., Alwaye ; The Travancore Cochin Chemicals Ltd., Alwaye ; The Travancore Rayons Ltd., Perumbhavoor ; The Travancore Ogale Glass Mfg. Co., Ltd., Alwaye ; Punaloor Paper Mills Ltd., Punaloor ; Aluminium Industries Ltd., Kundara ; The Travancore Sugars and Chemicals Ltd., Trivandrum ; The Travancore Electro-Chemical Industries Ltd., Chingavanom ; The Travancore Cements Ltd., Kottayam ; Forest Industries Travancore Ltd., Perumbhavoor ; The Vijayana Mohini Mills Ltd., Trivandrum ; The United Electrical Industries Ltd., Quilon ; West Coast Fisheries (Travancore) Ltd. ; The Indian Aluminium Co., Ltd., Alwaye ; Pallathra Tiles and Bricks Private Ltd., Kottayam ; The Travancore Titanium Products Ltd., Trivandrum ; and the Travancore Minerals.

Private Sector (Important Industrial Undertakings) : The A. D. Cotton Mills Ltd., Quilon ; Sri Chitra Mills, Alwaye ; The Ashok Textile Mills Ltd., Alwaye ; The Jumna Thread Mills Ltd., Koratti Angadi : Harrisons & Crosfield Ltd., Quilon ; Tata Oil Mills Company Ltd., Ernakulam ; Western India Plywood Ltd., Balipattam ; Commonwealth Trust Ltd., Calicut ; Chackola Spinning & Weaving Mill Ltd., Alwaye ; Indian Transformers Ltd., Alwaye ; Metropolitan Engineering Co. (P.) Ltd., Trivandrum ; Parvathee Mills (Private) Ltd., Quilon ; Alagappa Textiles (Cochin) Ltd., Alagappanagar ; Cannanore Spinning and Weaving Mills, Cannanore.

The management of the Malabar Spinning & Weaving Co., Ltd., Calicut and the Electrical and Allied Industries, Kundara, was taken over by Government and they have been reopened under Government auspices.

Steps for the organisation of two major sugar factories in the Co-operative Sector have already been taken in advance of the Third Plan. Investigation for a third one on the Periyar Valley and another in Devikulam is in progress now. The establishment of the Rayon Grade Wood Pulp Factory in Calicut District and the Premier Tyres in Ernakulam District is being accelerated. Active steps for substantial expansion of the existing major industries such as the F.A.C.T., Travancore Cochin Chemicals, Indian Aluminium Co., and the Travancore Rayons are also in progress. Some other major projects in the Private Sector with foreign collaboration for high tension insulators, a second Tyre Factory, a major Fish Processing Industry with trawlers and factory vessels, a Nylon Factory, a Paper Mill, a Sewing Machine Factory and Titanium Tera Chloride Factory are also being set up in the State. In the Central Sector steps are being taken for the establishment of two major projects *viz.*, Second Ship Building Yard, Cochin and the Phyto Chemical Industry at Neriyamangalam.

Main cottage industries with their location in brackets : Coir (Alleppey and coastal areas); Handloom (many parts of the State); Ivory, horn, coconut shell and wood carving (Trivandrum); Screwpine Mats (Quilon and Alleppey); Bee-keeping (throughout the State); Pottery making (Trivandrum and Kozhikode); Poultry farming (throughout the State); Bell-metal (Trivandrum, Mannar, Changanacherry, Trichur, Irinjalakuda, Kunhimangalam); Koragrass mat weaving (Chittoor, Killimangalam); Bamboo, rattan and cane work (Throughout the State); Carving of Kathakali figures and wood carving (Trichur); Lacquer work and toys (Trivandrum).

Number of workers employed in the Coir Industry : About 5 to 6 lakhs.

Total number of workers engaged in the Handloom Industry under co-operative fold : 40,000.

Chief minerals produced in the State : The beach sands contain the much valued and strategic mineral monazite besides five others of great economic value namely ilmenite, rutile, zircon, sillimenite and garnet. The extensive white clay deposits contribute to the ceramic industry. Other minerals available are mica, graphite, limestone, quartz-sand and lignite.

LABOUR

Names of industries in which a minimum wage is fixed : For the whole State : Rice mill, flour mill or dhall mill, beedi making, cigar industry, plantations (coffee, tea, rubber & cardamom), oil mills, municipalities, panchayats, road construction or building operations, stone breaking

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or stone crushing, public motor transport, tanneries & leather manufactures, match industry, shops and establishments including hotels and restaurants, cashew factory, tile industry, printing presses, timber industry, toddy tapping industry.

For Residuary Trav-Cochin Region only: Coir industry and agriculture.

For Malabar region only: Woollen carpet making or shawl weaving establishment.

Number of registered factories in the State as on 31st December 1959: 2,262; Number of working factories which submitted the annual returns: 1,264; Average daily employment in the working factories: 1,57,754.

Employment figures in some cases are estimates.

Number of accidents in registered factories during 1959 (including fatal cases): 1,235.

Number of fatal accidents: 4.

Number of Trade Unions as on 31st March '60: 1,663.

Names of important State Laws affecting trade disputes: The Kerala Maternity Benefit Act (1957); The Kerala Industrial Employment (National and Festival Holdings Act (1958)); The Travancore-Cochin Shops & Establishments Act (1125 M.E.); The Madras Shops & Establishments Act (1947).

Number of strikes, lock-outs pending settlement as on October 1, 1959: 1; Number of fresh strikes and lock-outs during the period October 1, 1959 to September 30, 1960: 195; Total number of cases pending at the end of the period (30th June, 1960): 4; Number of token strikes during the period: 140. Number of disputes settled: Successful 33; partially successful 11; indefinite 6; unsuccessful 2.

Number of workers affected due to these strikes & lockouts: 78,020. Number of man days lost due to these strikes & lock-outs: 1,59,083.

(The strikes and lock-outs in which the number of workers affected is less than 10 are not included).

All the rubber, tea and coffee holdings in the State together employ about 1·6 lakh workers on a permanent basis and about 0·3 lakh workers on a temporary basis.

AGRICULTURE

Of the total population 53·6 per cent depend upon agriculture, though the per capita extent of cultivated land is only 30 cents. The non-agricultural population is about 6·3 millions.

Main food crops of the State: Rice and Tapioca.

Annual rice deficit in the State: 700,000 tons.

Quantity of rice required to meet the needs of the fair price shops: 10,000 to 12,000 tons a month.

Main cash crops of the State: Coconut, Arecanut, Tea, Coffee, Cardamom, Rubber, Pepper, Ginger, Lemon grass, Groundnut, Cashewnut.

AREA, PRODUCTION AND AVERAGE YIELD OF IMPORTANT CROPS IN KERALA
(July '57-June '58 and July '58 — June '59)

Name of Crop	1957–58			1958–59		
	Area (in acres)	Production (Tons)	Average yield per acre (lbs.)	Area (Acres)	Production (Tons)	Average yield per acre (lbs.)
(1) Rice	1,894,701	910,900	1,077	1,898,804	939,700	1,108
(2) Other cereals and millets	31,037	10,733	775	30,584	10,709	784
(3) Pulses	111,444	17,509	351	109,676	17,383	355
(4) Sugarcane	21,570	348,400	36,180	21,759	350,210	36,050
(5) Black pepper	224,658	26,020	260	223,916	25,030	250
(6) Ginger (Dry)	22,907	9,198	899	22,034	7,662	779
(7) Turmeric (Dry)	15,093	5,391	800	10,597	3,785	800
(8) Cardamom	69,658	1,242	40	73,756	1,316	40
(9) Betelnut	122,827	6,754†	54,988@	123,833	6,795†	54,872@
(10) Bananas	100,245	292,868	6,545	98,336	287,964	6,559
(11) Cashewnut	108,815	68,010	1,400	114,189	71,368	1,400
(12) Tapioca	528,708	14,871	6,300	553,207	15,273	6,200
(13) Groundnut	33,800	10,980	728	35,468	15,647	988
(14) Sesamum	50,300	6,419	286	48,560	5,270	264
(15) Cocoanut	1,144,766	3,199†	2,800@	1,175,425	3,248†	2,765@
(16) Cotton	21,490	9,630	176	19,650	7,860*	157
(17) Tea	98,640	34,175	776	92,988	39,737	957
(18) Coffee	41,123	7,101	387	40,060	6,961	389
(19) Rubber	246,793	21,496	195	270,626	22,158	183
(20) Tobacco	1,293	689	1,194	1,320	700	1,187

@ Numbers of nuts. † Million nuts. * Bales of 392 lbs. each.

Classification of area in acres (1958-59): Barren and unculturable waste 4,15,180; land put to non-agricultural uses 4,92,328; cultivable waste 4,67,968; permanent pastures and grazing lands 1,10,762; land under miscellaneous tree crops 4,93,595; current fallows 1,78,142; other fallows 2,00,617; net area sown 45,86,914; area sown more than once 9,49,799; total cropped area 55,36,713.

1956 census figures: Ploughs (wooden 5,70,327; iron 10,225); Carts 27,283; sugarcane crushers (power 230; bullocks 1,185); oil engines 2,504; electric pumps 723; tractors 187; ghanis (more than 5 seers 1,858; less than 5 seers 2,366).

No. of rubber, tea and coffee plantations (less than 25 acres each) as on 31st Dec., 1959) 972, 237 and 212 respectively.

About 21,000 tons of manufactured rubber, 40,000 tons of manufactured tea and about 7,000 tons of Coffee respectively were produced during the year.

FORESTS

The figures relate to 1959-60.

Total forest area in State: 4,778 sq. miles (Reserved Govt. forests 3,485 sq. miles; Private forests (only in Malabar) 1,213 sq. miles).

Location of forest: The main forest tract lies north to south bordering the eastern boundary of the State.

The main type of forests: Evergreen, deciduous and semi-evergreen.

Total revenue from the forests for the year (1959-60): Rs. 3,29,88,852.

Total expenditure (1959-60): Rs. 1,06,77,262.

Main forest produces: Timber, Firewood, Charcoal, Bamboo, reeds and Ivory.

Quantity of each variety: Timber 87,125·26 tons; Firewood 1,65,866 tons; Bamboos 8,75,514 Nos.; Ivory 639 lbs.; Reeds 71,49,465 Nos.; Air dry reeds 5,472 tons.

TRANSPORT

Total mileage of roads: 10,739.
Metalled roads: 3,089 miles.
National highways: 276 miles.
Total mileage of waterways: About 1,100.
Total number of aerodromes: Two.
Number of ports and harbours: 11.

Mileage of railways in the States as on 31st March 1957: 465.

Number of broadcasting stations: 2.

Transport has been partly nationalised in the State.

Name of Transport Authority: Kerala State Transport Department, Telegraphic Address: Kertrans, Trivandrum.

Capital invested: Rs. 2,97,13,067 (as on 31-3-1960).

Figures for the following items are as on 30-9-1959:

Road mileage monopolised: 573·3.

Road mileage over which services are operated along with private operators: 1,369·6.

Number of routes: 353.

Route mileage: 6,059.

Number of buses owned: 622.

Number of lorries owned: 85.

Total number of employees: 5,805.

The following three figures represent the average for September 1960:

Mileage operated per day by buses: 66,420.

Mileage operated per day by lorries: 2,236.

Number of persons transported per day: 2,55,614.

Total amount of goods carried: about 20 lorries of 5 tons each a day.

The pay scales of 3,000 odd State Transport employees were revised in June 1957 fixing the lowest grade of an employee at Rs. 30 to Rs. 50 as against Rs. 20 existing before.

POWER PROJECTS

Projects in Operation

Pallivasal H.E. Project: In the high ranges in Devicolam below Munnar. Started in 1940. Installed capacity 13,500 kW.

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Installed capacity of the 1st stage increased to 37,500 kW at the 2nd stage. Actual production during 1959-60 : 245·429 million units.

Sengulam Hydro-Electric Scheme : The power station is located at Vellathuval below Pallivasal and is a tail race development of Pallivasal scheme. The installed capacity is 48,000 kW. The project was commenced in 1947. The work was completed in May, 1957. The cost of the scheme is Rs. 364·73 lakhs. Production during 1959-60 was 149·194 million units.

Poringalkuthu Hydro-Electric Scheme : The power station is located at Poringalkuthu on the Chalakudy river in Trichur District. The installed capacity now is 32,000 kW comprising four generating sets of 8,000 kW each. The fourth generating set was commissioned in Feb., 1960. The cost is Rs. 399·30 lakhs. Production during 1959-60 was 93·288 million units.

Projects in Execution

Neriamangalam Hydro-Electric Scheme : The power station is located at Panankutty on the right bank of the Periyar river. The installed capacity will be three units of 15,000 kW each. Work was started in January 1955. The project was inaugurated on April 12, 1961. Estimated cost is Rs. 360 lakhs.

Panniar Hydro-Electric Scheme : The power house site is on the left bank of the Muthirapuzha river almost opposite to the Sengulam power house. The installed capacity will be two sets of 15,000 kW each. The estimated cost is Rs. 324 lakhs. The first unit will go into service in 1962.

Sholayar Hydro-Electric Scheme : This scheme is located on the bank of the Sholayar river, a tributary of the Chalakudy river in Trichur District. The generating station will have three sets each of 18,000 kW capacity. The estimated cost of the scheme is Rs. 432 lakhs.

Pamba Hydro-Electric Project 1st stage : This envisages development of power from the waters of the Pamba and Kakki rivers. The preliminary works connected with the first stage of the project have been started. The power station will have an installed capacity 300,000 kW, consisting of six units of 50,000 kW each, involving an expenditure of Rs. 2,491 lakhs.

The project comprises the construction of a 165-ft. high dam across Pamba river, and a 346-ft. high dam across Kakki river, with a saddle dam and inter-connecting tunnel between Pamba and Kakki reservoirs. The saddle dam will be 101 ft. high, and the tunnel 10,000 ft. long.

The head-race tunnel, about 19,300 ft. long, having a capacity of 2,300 cusecs, will take off from Kakki reservoir.

The scheme is proposed to be completed by the end of the Third Five Year Plan.

PROJECTS OF THE THIRD FIVE YEAR PLAN

Idikki H.E. Project : The scheme which is estimated to cost Rs. 35·00 crores will have a power potential of 317,000 kW at 60 per cent load factor and will be the largest scheme to be launched in the State. It is proposed to commence work on the scheme during the Third Five-Year Plan, for which a provision of Rs. 300 lakhs has been made. The scheme is under investigation of the Central Water & Power Commission.

Kuttiadi H.E. Project : The project envisages power development from the Kuttiadi river in Malabar area of this State. The scheme has a power potential of 45,000 kW at 60 per cent load factor. The scheme is estimated to cost Rs. 450 lakhs and a provision of Rs. 300 lakhs has been made in the Third Plan.

It is proposed to inter-connect the Kerala and Madras power systems through a 220 kV transmission line during the Third Five Year Plan.

By the end of the 2nd Five Year the installed capacity of the hydro-electric stations in the State was expected to be 145,000 kW. The present demand is of the order of 112,500 kW. Though the installed generating capacity is in excess of this, the available plant capacity (which is limited by water availability) is only 100,000 kW, creating a shortage of power which will be partly made good by installing thermal plant. The energy output for the year 1960-61 was expected to be of the order of 600 million units.

Power for distribution in Malabar area of the State, is received from the Madras State Electricity Board. When the transmission lines under construction are completed, this part of the State will be linked with the hydro-electric grid now existing.

IRRIGATION

Major Irrigation Schemes : The following are the major irrigation projects :

Name of Scheme.	Estimated cost in Rs. lakhs	Area to be served in acres
1. Malampuzha	532·00	47,600
2. Walayar	116·66	8,000
3. Mangalam	104·15	8,000
4. Vazhani	107·57	8,810
5. Peechi	235·00	46,000
6. Chalakudy		
(1st stage)	153·25	28,400
(2nd stage)	60·00	20,250
7. Neyyar		
(1st stage)	226·00	19,000
(2nd stage)	170·00	19,000
8. Kattampally	48·63	5,000
9. Meenakara	135·00	10,700
10. Pothundy	170·00	13,000
11. Cheerakuzhy	47·34	4,000
12. Periyar Valley	348·00	63,300
13. Thannirmukkom Regulator	150·00	—

Of the above schemes Malampuzha, Walayar, Mangalam, Vazhani and Peechi Schemes and the 1st stages of Chalakudy and Neyyar schemes were started during the First Five Year Plan and carried over to the Second Five Year Plan. It was expected that by the end of the Second Five Year Plan all these irrigation projects would be fully commissioned.

Besides these, six new schemes namely Meenkara, Pothundy, Neyyar II, Cheerakuzhy and Periyar Valley and Chalakudy II were included in the Second Plan and the works are in various stages of execution. Land improvement schemes such as Kattampally and Bed Regulator at Thannirmukkom are also taken up.

Vazhani and Peechi schemes and the 1st stage of Chalakudy scheme have been completed. The other First Plan schemes are nearing completion (Feb. 1960).

The Chalakudy Irrigation Project 1st stage, 10 miles east of Chalakudy was started in 1948 and completed in 1958.

Chalakudy Irrigation Project (2nd Stage) started in 1956.

Vazhani Irrigation Project, six miles east of Wadakkancherry, was started in 1953.

Neyyar Irrigation Project (1st Stage), 16 miles south-east of Trivandrum, was started in January 1952.

Neyyar Irrigation Project (2nd Stage), started in 1956. Probable date of completion : 1961.

Malampuzha Irrigation Project, eight miles east of Palghat, was started in 1949.

Walayar Irrigation Project, 12 miles east of Palghat, was started in 1953.

Mangalam Irrigation Project, 20 miles south east of Palghat, was started in 1953.

Periyar Valley Scheme, 30 miles south-east of Alwaye, was started in 1956.

Meenakara Irrigation Project, six miles east of Kollengode, was started in 1956.

Peechy Irrigation Project, 15 miles south-east of Trichur, was started in 1953 ; Kattampally Irrigation Project, 6 miles north of Cannanore, (under Land Improvement scheme), in 1958 ; Pothundy Irrigation Project, 20 miles north-east of Vadakancherry, in 1957.

Apart from the major schemes, a number of medium, minor and lift irrigation schemes are also in progress.

A sum of Rs. 20 lakhs had been allocated in 1959-60 for the Malampuzha scheme. Total amount spent on this upto the end of March 1959 was Rs. 4·61 crores. Work on the dam and left bank canal had been completed. Work on right banks canal and Edathara Channel was nearing completion.

There are extensive lands located on a higher level from the rivers by the side of Chalakudy, Periyar, Muvattupuzha and Pampa. A series of schemes have been started by the Government whereby water is lifted from rivers by means of electric pumps and led on to the fields through channels. During the year 1960-61 a provision for Rs. 25 lakhs had been included in the budget towards lift irrigation scheme.

The State has a proposal to develop the Kuttanad area. The development Plan includes construction of a spillway at Thottapally 12 miles south of Alleppey, a bed regulator across Vembanad lake at Thanneermukkom.

The spillway at Thottapally which is a flood control work was started in 1951 and completed in 1956 at a cost of Rs. 59·61 lakhs.

The Thanneermukkom bed regulator estimated to cost Rs. 150 lakhs is a salt water exclusion work designed to prevent saline intrusion into the paddy lands of Kuttanad. Work was started on this project in 1958 and it is expected to be completed in 1963.

Antisea Erosion Works :—The State has a coastline of about 350 miles. The only permanent method of preventing sea erosion is by constructing sea walls and groynes. Works on these lines had been taken up during the 1st Five Year Plan and some of the works included in the 2nd Plan has been completed and others are in progress. During 1960 there was a provision of Rs. 30 lakhs in the budget for these works.

Shipyard : The work on the second shipyard at Cochin would start during the Third Plan period.

The shipyard will take eight to nine years for completion. The Kerala Government has already acquired the land required for the purpose.

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Established 1902

Vaidyaratnam P. S. Varier's

ARYA VAIDYA SALA

KOTTAKAL (Kerala State)

Head Office : KOTTAKAL Phone No. 44 (TIRUR EXCHANGE)

Branches :

1. Kozhikode (Phone No. 2155) — Kallai Road.
2. Tirur (Phone No. 31)— Station Road.
3. Palghat (Phone No. 104)— Vadakkanthara.
4. Palghat Sales Depot—G. B. Road.
5. Ernakulam (Phone No. 674) —Mahatma Gandhi Road.
6. Trivandrum (Phone No. 3924)—Statue Road.
7. Erode (Phone No. 172)— Opp. Municipal Bus Stand.

Genuine Standard Ayurvedic Medicines and expert medical advice available at our Head Office at Kottakal and Branches. Medical advice through correspondence given by our Chief Physician at Kottakal.

Special treatments like Pizhichil, Navarakkizhi etc., are conducted under the supervision of our Chief Physician

At Our

GOLDEN JUBILEE NURSING HOME

Managing Trustee

The Union Government proposes to build at Cochin ocean-going steamers with 20,000-ton displacement.

Kerala Engineering Research Institute :—For the efficient and economic design, construction and operation of the several projects a Research Station at Peechi has been started. Studies on various projects and other problems are being conducted here.

All the above works are executed by the Irrigation Wing of the Kerala Public Works Department.

Land Tenure : There are a number of land tenure systems in the State. Janmam lands, Pandaram, Kanapattam, Verumpattam, Adima, Anubhogam, etc., are some of these.

Edavagai Abolition Act abolished special tenancy rights of four ancient chieftains and conferred full rights on tenants. This bill was part of one of seven bills *viz.* Special Rights Abolition Bills.

The Agrarian Relations Act came into force from March 1, 1961.

Panchayat : Government have decided to endow the Village Panchayats with such powers as may be necessary to enable them to function as units of self-government. As a first step towards this scheme, Government passed orders vesting in the Panchayats several additional functions and powers. The Scheme was formally inaugurated on 18th January 1960 at Ernakulam. Under the scheme 146 panchayats in the State gain administrative powers for the implementation of development projects.

EDUCATION

Position in the area covered by the Kerala State during 1959-60 : Number of lower primary schools 6,282 (both departmental and private); upper primary schools 1,789 (both departmental and private); high schools 877 (both departmental and private); post-basic schools 2; senior basic schools 102; Junior basic schools 444.

Special Schools : Basic training schools 79; nursery training schools 2; pre-basic schools 8; pre-primary (kindergarten schools) 25; music, dancing and fine arts schools 6; technical schools 2; fishery lower primary schools 35; fishery upper primary schools 16; commercial schools 29; adult schools 5; certified schools 2; schools for the handicapped 7; post-graduate basic training college 1.

Number of students under instruction 31,52,764 (boys 17,41,468; girls 14,11,296).

Percentage of the total number of pupils under instruction to the total population : 23·26.

Percentage of literacy : 46·2.

Enrolment in lower primary schools: Boys 8,25,779; girls 7,17,815; Upper Primary schools :—Boys 4,04,122; girls. 3,31,706. Secondary schools (High schools) Boys 4,03,224; Girls 2,77,925. Post Basic schools—Boys 139; Girls 34; Senior Basic schools :—Boys 26,664; Girls 19,710. Junior Basic schools—Boys 70,364; Girls 55,040. Special schools :—Boys 11,176; Girls 9,066. Total enrolment of Boys 17,41,468, Girls 14,11,296.

Total number of arts and science colleges (Govt.) as in Dec. 1960 : 9.

Total number of professional colleges : Medical Colleges 2; Law Colleges 2; Engineering Colleges 3; Ayurveda College 1; Training Colleges 12; (Govt. 4) Veterinary College 1; Agricultural College 1; Technical institutions 11; Physical Education Colleges 2.

Total number of students in the colleges under the Kerala University during 1958-59 33,217.

Technical institutes in Kerala State under the Directorate of Technical Education : *Public Sector :* College of Engineering, Trivandrum; College of Enginering, Trichur; Central Polytechnic, Trivandrum; Government Polytechnic, Kalamassery; Maharaja's Technological Institute, Trichur; Kerala Government Polytechnic. Calicut; Government Polytechnic, Cannanore; School of Arts, Trivandrum; Institute of Textile Technology, Trivandrum; Diploma Course in Shorthand and Typewriting, Fort, Trivandrum.

Private Sector : Thangal Kunju Musaliar, College of Engineering, Quilon; S. N. Polytechnic, Quilon; Carmel Polytechnic, Alleppey; N.S.S. Polytechnic, Pandalam; S. R. Polytechnic, Valapad; Alagappanagar Polytechnic, Alagappanagar.

Craft education in various subjects such as bookbinding, cutting and tailoring, coir work, rattan work, gardening, spinning and weaving, fishing, wood work, etc., has been introduced in all the upper primary and secondary schools, the subjects chosen in each school being dependent upon the availability of raw materials and local conditions.

The compulsory primary area of Travancore, the entire Cochin area and a few towns in Malabar had a system of free noon-feeding for needy children of lower primary schools. The total expense on this noon-feeding rose to Rs. 53 lakhs in 1958-59. Government are considering the modification of the system so as to bring other areas in the State also within the purview of the benefit.

Expenditure on the Education Department: Rs. 13 crores (1958-59); Rs. 14 crores (1959-60).

Expenditure on education for 1959-60: Primary: Rs. 7,28,62,500 (Government Rs. 3,72,55,800; Non-Govt. Rs. 3,56,06,700); Secondary: Rs. 3,14,79,600 (Govt. Rs. 98,77,000; Non-Govt. Rs. 2,16,02,600); Special: Rs. 80,02,600;

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(Govt. Rs. 69,38,600; Direct grant to Non-Govt. special schools Rs. 9,98,000; Grant-in-aid, contribution etc. to technical institutions Rs. 66,000).

Number of libraries as on 31st March 1957: 2,057.

PUBLIC HEALTH

Figures as on 31-3-1960:

Number of medical institutions 390; Government hospitals 65; Govt. dispensaries 191; public health centres 81; grant-in-aid institutions 43; secondary health centres 10; beds 12,810; out patients treated 1,01,47,718; in-patients treated 4,78,149.

A phyto chemical plant proposed to be set up as an Indo-Soviet venture in Kerala under the public sector is likely to be located at Neriamangalam in the high ranges midway between Ernakulam and Munnar.

The plant is designed to manufacture caffein from tea wastes and other drugs from medicinal herbs available in the forests of this hilly region.

About 1,200 persons are expected to get employment in this plant when it goes into production.

SECOND FIVE-YEAR PLAN

Kerala has a Central Planning Advisory Board to advise the Government generally on matters connected with development and planning.

KERALA FINANCIAL CORPORATION

(*See State Financial Corporations*).

UNIVERSITY OF KERALA

Trivandrum.

(The University of Travancore was reconstituted as the University of Kerala with effect from 30th August 1957).

Chancellor.

V. V. Giri (*Governor of Kerala*).

Pro-Chancellor.

Pattom A. Thanu Pillai (Chief Minister and Minister for Education, Kerala State).

Vice-Chancellor.

Dr. K. C. K. E. Raja, L.M. & S. (Madras), L.R.C.P. & S. (Edin.), L.R.F.P.S. (Glasgow), D.P.H. (Cambridge), D.T.M. & H. (Cambridge).

Registrar.

A. M. N. Chakiar, B.A.

Type of University: Teaching and Federal. Subjects in which there is provision for post-graduate teaching and or research: English, History, Economics, Politics, Philosophy, Psychology, Education, Mathematics, Physics, Allied Physics, Chemistry, Analytical Chemistry, Botany, Zoology, Statistics, Malayalam, Sanskrit, Hindi, Marine Biology, Oceanography, Law, Engineering and Medicine.

There are also facilities for research courses leading to the M.Sc., Ph.D. and D.Sc. Degrees of the University in the following branches of pure and applied Science: Pure and Applied Chemistry, Statistics, Marine Biology and Oceanography and Pure and Applied Geology.

University Teaching Departments: University Department of Education, Trivandrum; Department of Politics, Trivandrum; Department of Psychology, Trivandrum; Department of Statistics, Trivandrum; Department of Marine Biology and Fisheries, Trivandrum; Department of Applied Chemistry, Trivandrum.

Number of colleges under the University: Arts and Science Colleges 46; Professional Colleges 29; Colleges under the Faculty of Oriental Studies 7.

Total number of students in the University during 1960-61: 44,399.

List of Colleges under the University:

Agricultural College, Vellayani, Trivandrum.
Assumption College, Changanacherry.
Ayurveda College, Trivandrum.
Bishop Chulaparambil Memorial College, Kottayam.
Catholicate College, Pathanamthitta.
Christ College, Irinjalakuda.
College for Women, Trivandrum.
College of Engineering, Trichur.
College of Engineering, Trivandrum.
C. M. S. College, Kottayam.
Farrook College, Feroke.
Fatima Mata National College, Quilon.
Govt. Brennen College, Tellicherry.
Govt. College, Chittur-Cochin.
Govt. College, Kasargod.
Govt. College, Madappally, *via* Badagara.
Govt. Training College, Kozhikode.
Govt. Training College, Tellicherry.
Govt. Training College, Trichur.
Govt. Victoria College, Palghat.
Guruvayurappan College, Kozhikode.
Karmela Rani Training College, Quilon.
Law College, Ernakulam.
Law College, Trivandrum.
Little Flower College, Guruvayur.
Madeenathul Uloom Arabic College, Pulikkal P.O., Via Feroke.
Mahajana Sanskrit College, Perdalla.
Maharaja's College, Ernakulam.
Mahatma Gandhi College, Trivandrum.
Malabar Christian College, Kozhikode.
Mar Athanasius College, Kothamangalam.
Mar Ivanios College, Trivandrum.
Mar Theophilus Training College, Trivandrum.
Mar Thoma College, Tiruvalla.
Medical College, Kozhikode.
Medical College, Trivandrum.
Mount Carmel Training College, Kottayam.
Mt. Tabor Training College, Pathanapuram.
Nirmala College, Muvattupuzha.
Noorul Huda Arabic College, Kanjirappally.
N.S.S. College for Women, Trivandrum.
N. S. S. College of Engineering, Palghat.
N.S.S. College, Pandalam.
N.S.S. Hindu College, Changanacherry.
N.S.S. Training College, Changanacherry.
N. S. S. Training College, Ottappalam.
N.S.S. Training College, Pandalam.
Peet Memorial Training College, Mavelikkara.
Providence Women's College, Kozhikode.
Rouzathul Uloom Arabic College, Feroke.
Sacred Heart College, Thevara.
Sahitya Deepika Sanskrit College, Pavarathy.
Sanatana Dharma College, Alleppey.
Sanskrit College, Trivandrum.
S. N. M. Training College, Moothakunnam, N. Parur.
Sree Kerala Varma College, Trichur.
Sree Narayana College for Women, Quilon.
Sree Narayan College, Quilon.
Sree Narayana Training College, Nedunganda.
Sri Neelakanta Sanskrit College, Pattambi.
Sree Sankara College, Kalady.
St. Albert's College, Ernakulam.
St. Berchmans' College, Changanacherry.
St. Joseph's College, Devagiri, Kozhikode.
St. Joseph's College for Women, Alleppey.
St. Joseph's Training College for Women, Ernakulam.
St. Joseph's Training College, Mannanam.
St. Mary's College, Trichur.
St. Teresa's College, Ernakulam.
St. Thomas' College, Kozhencherry.
St. Thomas' College, Palai.
St. Thomas' College, Trichur.
St. Thomas' Training College, Palai.
Sulamasslam Arabic College, Areacode.
Thangal Kunju Musaliar College of Engineering, Karikode, Quilon.
Titus II Teachers' College, Tiruvalla.
Training College, Trivandrum.
Union Christian College, Alwaye.
University College, Trivandrum.
University Intermediate College, Trivandrum.
Veterinary College, Mannuthy, Trichur.

Medium of instruction: English.

Finance:

The year 1959-60 opened with a balance of Rs. 58,36,552. The total receipts during the year, under Govt. grant, fees and miscellaneous accounts amounted to Rs. 69,80,221.

The total expenditure during the year under the various heads came to Rs. 59,15,363. The closing balance for the year came to Rs. 69,01,410.

ADMINISTRATIVE PERSONNEL

(*See under States Administrative Personnel*)

ASSOCIATIONS, ETC.

ALL INDIA MANUFACTURERS' ORGANISATION

(Kerala State Board)

Mohan Vihar, Karikamuri Road, Ernakulam 1.

Hon. Secy.: R. Krishna Aiyar.

ALLEPPEY OIL MILLERS' & MERCHANTS' ASSOCIATION

Alleppey.

Secretary, R. Padmanabhan.

ALLEPPEY PRODUCE MERCHANTS ASSOCIATION

Alleppey.

President: A. R. Sulaiman Sait; *Vice-President:* V. J. Joseph; *Hon. Secretary:* Karamsee Morarji.

ANANDA NRITYA KALALAYAM SCHOOL OF KATHAKALI DANCE

Head Office: Palace Ward, Thevalli, Quilon P.O. *Branch:* Kakkad, Kunnamkulam P.O.

V. Gangadharan, *President;* P. V. Eapen, *Vice-President;* C. P. N. Nambisan, *Dance Director & Secretary.*

ARCHDIOCESE OF CHANGANACHERRY

Archbishop's House, Changanacherry.

Metropolitan: Most Rev. Dr. Mathew Kavukatt; *Vicar-General:* Rt. Rev. Mgr. L. J. Chittoor; *Chancellor:* Very Rev. Fr. Louis Neriamparampil; *Oeconomus:* Very Rev. Fr. Stanislaus Gnallyil; *Secretary:* Rev. Fr. James Kattuparampil.

ARCHDIOCESE OF TRIVANDRUM

Archbishop's House, Trivandrum 4.

His Grace the Most Rev. Benedict Mar Gregorios, O.I.C., M.A., D.D., *Archbishop of Trivandrum.* Rt. Rev. Msgr. Philipose Remban, *Vicar-General.* Rt. Rev. Msgr. C. T. Kuruvilla, *Vicar-General.*

ARYA VAIDYA SALA

(Vaidyaratnam P. S. Warrier's)

Kottakal (*Via* Tirur), (Kozhikode Dt.).

Ayurvedic institution with pharmacy and clinic.

Runs an Ayurvedic college and hospital.

Branches at: Kozhikode, Tirur, Palghat, Ernakulam, Erode & Trivandrum.

Managing Trustee: Aryavaidyan P. K. Warrier; *Chief Physician:* Aryavaidyan S. Warrier; *General Manager:* K. Govinda Warrier.

AUTOMOBILE ASSOCIATION OF SOUTHERN INDIA

Luiz Hall, Broadway, Ernakulam.

Hon. Area Secy., A. A. D. Luiz.

BADAGARA SHIPPERS' ASSOCIATION

Badagara.

President: Jekishandas Dahyabhai; *Secretary:* Chatrabhui Kalyanji; *Treasurer:* Thakorlal Harikrishnadas.

THE CALICUT CHAMBER OF COMMERCE

Beach Road, Calicut 1.

Chairman: A. D. Bolland; *Hon. Secretary,* G. Mahadev.

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THE CALICUT PIECEGOODS MERCHANTS' ASSOCIATION
Huzur Road, Calicut.
President, Janab S. M. Syed Mohammed Saheb & Bros.; *Vice-Pres.*, V. R. Goray; *Hon. Secretaries*, K. Dinkar Rao, V. P. Syed Ali Koya Thangal.

THE CALICUT TOBACCO MERCHANTS UNION
Big Bazaar, Kozhikode 1.
President, K. Unnikrishna Pillai; *Secretary*, G. Umanath Maller; *Treasurer*, M. L. Patel.

THE CASHEW & PEPPER EXPORT PROMOTION COUNCIL
Willingdon Island, Cochin 3.
Chairman: A. V. Thomas, M.L.A. (A. V. Thomas & Co., Ltd., Madras); *Vice-Chairman:* K. I. Thomas (*Dy. Chief Controller of Imports & Exports, Ernakulam*); *Secretary:* R. K. Pillai.

CENTRAL COCONUT RESEARCH STATION
Kayangulam, Ochira P. O.
Director: Dr. K. P. V. Menon; *Entomologist:* Dr. Chandy Kurian; *Soil Chemist:* E. J. Verghese.

CENTRAL COCONUT RESEARCH STATION
Kasaragod.
Joint Director: Dr. K. M. Pandalai, M.Sc., Ph.D., F.R.I.C.; *Cyto-Anatomist:* S. R. Gangolly, B.Sc. (Ag.), M.Sc.; *Agronomist:* M. M. Krishna Marar, B.Sc. (Ag.).

CENTRAL FISHERIES TECHNOLOGICAL RESEARCH STATION
XXI/29, Kochangadi, Cochin 5.
Asstt. Directors: G. K. Kuriyan, M.Sc. (*Gear*); R. Balasubramanyan, B.Sc. (*Craft*); R. Venkataraman, M.Sc. (*Processing*); R. L. Roy Choudhury, B.Tech. (*Fishing Boat Designs*); N. K. Velankar, M.A. (*Research Officer*); Dr. V. Krishna Pillai, M.Sc., Ph.D. (*Quality Control Officer*); Dr. S. V. Suriyanarayana Rao, M.Sc. Ph.D., P. V. Kamasastry, M.Sc., M. Rajendranathan Nair, M.Sc., M. Swaminathan, B.E. (*Asst. Research Officers*); S. D. Deshpande, B.Sc., A. V. V. Satyanarayana, B.Sc., S. Gopalan Nayar, B.Sc., M. Velu, B.E., K. Balachandra Menon, Dip-in-Engg. (*Technologists*); T. K. Govindan, M.Sc. (*Asst. Inspector*).

THE CENTRAL KERALA TILE MANUFACTURERS' ASSOCIATION
Trichur.
(Formerly The Cochin State Tile Manufacturers' Association)
President: P. Devaraja Iyer; *Vice-Presidents:* T. K. Joseph, T. O. Paul; *Hony. Secretaries:* C. T. Kurian, E. P. Kuriappan.

CENTRAL RESEARCH INSTITUTE
University of Kerala, Trivandrum.

THE CENTRAL TRAVANCORE PLANTERS' ASSOCIATION
Glenmary Estate, Peermade P.O.
Chairman, G. Ammesley-Cooke, M.B.E., M.C. *Honorary Secretary*, E. S. J. Davidar.

CHAMBER OF COMMERCE
The Chamber of Commerce, Pullikanam Buildings, K.K. Road, Kottayam.

CHAMBER OF COMMERCE
Trichur.
President, Chackola Lonappen Palu; *Vice-President*, Chalissery Antony Pyloth; *Secretary*, Kurian S. Manavalan, B.A.; *Jt. Secretary*, C. M. George, B.A., B.L.

CHAMBER OF COMMERCE
Chalai, Trivandrum.
President, S. V. Pandit; *Vice-President*, K. V. Ramaswamy; *Secretary*, A. Subramoniam; *Treasurer*, T. Sivan Pillai.

THE CHANGANACHERRY MERCHANTS ASSOCIATION
Market, Changanacherry.
President, V. K. Chacko, B.A., B.L.; *Secretary*, Joseph M. Thomas; *Treasurer*, Cherian Sacaria.

CHRISTIAN LITERATURE SOCIETY
Malayalam Branch.
Tiruvalla P.O.
Chairman: Rt. Rev. Dr. M. M. John, B.A., M.Th.
Acting Branch Secretary, Rev. E. J. Chacko, B.Sc.
Acting Editorial Secretary, Mammen Philip, B.Sc.

COCHIN CHAMBER OF COMMERCE
P. O. Box No. 16, Cochin 1.
President, W. H. Nicoll; *Vice-President*, R. Nievergelt; *Secretary:* K. Sukumaran. Grams: "Cochincham". Phones: 4209, 4604.

COCHIN PAPER, CUTLERY & ALLIED TRADERS' ASSOCIATION
V/1-(B), New Road, Cochin 2.
President, N. V. Shenoy; *Vice-President*, Narothamdas Jethabhai; *Hon. Secy.*, L. D. Kilikar.

COIR BOARD
Post Box No. 80, Ernakulam.
Chairman: P. V. S. Sarma; *Secretary:* M. Vasu Menon; *Controller of Coir Exports:* T. N. S. Menon; *Director of Central Coir Research Institute:* Dr. C. V. Padmanabhan.

DAIRY PRODUCTS IMPORTERS' ASSOCIATION
IV/122, Kottukulam Road, Cochin 2.
President, L. Krishna Bhat; *Vice-President*, K. A. Narayanan; *Hon. Secy.*, L. D. Kilikar.

THE DIOCESE OF KOTTAYAM
Kottayam.
Rt. Rev. Mar Thomas Tharayil, Ph.D., D.D., M.A., LL.D., *Bishop of Kottayam.*

DIOCESE OF QUILON
Bishop's House, Quilon, Kerala.
Bishop of Quilon: Rt. Rev. Dr. Jerome Fernandez; *Vicar-General:* Rt. Rev. Mgr. B. D'Cruz; *Chancellor:* Rev. Fr. Angelus V.; *Secy.:* Rev. Fr. Peter Thekevolayil.

DIOCESE OF TRICHUR
Catholic Bishop's House, Trichur.
Bishop, Rt. Rev. Dr. G. C. Alapatt, Ph.D., D.D.; *Vicar-General:* Mgr. Paul Chittilapilly; *Chancellor:* Mgr. Sebastian Chereath; *Secretary:* Very Rev. Fr. Mathew Muringathery.

ERNAKULAM CHAMBER OF COMMERCE
Ernakulam 1.
President, A. B. Kochunny; *Vice-President*, Joseph Chakola; *Secretary*, John P. Valavi.

ERNAKULAM PRESS OWNERS' ASSOCIATION
Deepam Press Bldgs., Basin Road, Ernakulam 1.
President, Thomas Cheryan; *Hon. Secy.*, A. A. Antony; *Hon. Treasurer*, D. P. Ayer.

FAMILY PLANNING ASSOCIATION OF INDIA
Shanthi Bhavan, Bhakthi Vilas Road, Trivandrum.
President: Dr. K. Ponnamma, M.D.; *Hon. Secretary:* Mrs. N. Krishnan Tampi; *Jt. Secretary:* Mrs. G. K. Nair.

FILARIASIS TRAINING CENTRE
(Malaria Institute of India)
Post Box 44, Ernakulam.
Asstt. Director (NFCP) & Officer-in-Charge: Dr. S. Pattanayak, M.B.B.S., D.T.M., M.P.H.

GANDHI SEVA SADAN
Gandhi Sevasadan P.O., *Via* Ottapalam, Dist. Palghat.
Activities:—Pre-Basic School, Senior Basic School, Post Basic School and Basic Training School; Gandhi Seva Sadan Kathakali and Classic Art Academy for Kathakali; Pottery, Khadi and Mat Weaving, Soap making, Ghani manufacturing, Ambar Charkha making, Goseva, Handmade Paper, Handpounding of Paddy etc.; Harijan Hostel, Orphanage, Maternity & Child Welfare Centre, etc.
Chairman: K. Kaleppan; *Secretary:* K. Kumaran.

GOVT. MENTAL HOSPITAL
Kozhikode 4.
Superintendent: Dr. N. M. Nair, M.B.B.S.
Asstt. Surgeon: Vacant.

GOVERNMENT MUSEUM AND ZOO
Trivandrum 1.
Director: M. Govindankutty Menon; *Curators:* E. S. Simon, N. V. Nair, S. P. Potti, C. P. Radha Bai.

HOMOEOPATHIC MEDICAL MISSION
Pattom Palace, Trivandrum 4.

INDIA PEPPER AND SPICE TRADE ASSOCIATION
XIV/245A, Jew Town, Cochin 2.
President: V. M. Patel; *Vice-President:* Shamji Narshi; *Offg. Secy.:* S. Ramaier.

INDIAN CENTRAL ARECANUT COMMITTEE
(Ministry of Food & Agriculture)
Kozhikode 1.
A Society constituted by the Govt. of India for the development of arecanut industry in India.
President: V. Shankar, I.C.S. (*Vice-Pres.*, Indian Council of Agri. Research); *Vice-President:* C. M. John; *Secretary:* B. S. Varadarajan.

INDIAN CHAMBER OF COMMERCE
P.O. Box No. 136,
Cochin-2.
President: Kantilal Raychand Mehta; *Vice-Presidents:* Jos T. Mooken, S. B. Rao; *Secretary:* S. Krishna Warrier.

INDIAN CONFERENCE OF SOCIAL WORK
(Kerala State Branch)
Post Box No. 6, Ernakulam 1.
President: Prof. L. M. Pylee; *Hon. Gen. Secretary:* John P. Valavi; *Hon. Treasurer:* Mohamed Ebrahim Sait.

INDIAN RED CROSS SOCIETY
(Kerala State Branch)
Near General Hospital, Trivandrum 1.

INDUSTRIAL & COMMERCIAL RESEARCH SOCIETY OF INDIA
Vallia Veedu, Kozhencheri.

INSTITUTION OF ENGINEERS (INDIA)
12/33B, Observatory Hill, Trivandrum 1.

INTERNATIONAL FELLOWSHIP
Mahilagiri, Thottumukkam P.O.
(Dt. Alwaye).
Chairman, Prof. P. A. Wadia; *Hon. Gen. Secy.*, A. A. Paul; *Ex Secy.*, S. V. V. Narasayya.

KERALA BLIND WELFARE ASSOCIATION
Mankada-Pallipuram P.O.
Malappuram.
Conducts a blind school 'Kerala School for the Blind' at the above place.
President, P. Vishnu Namboodiri; *Vice-President*, K. K. Shankaran Nair; *Secretary*, S. Chandrasekharan Nair.

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KERALA COIR PRODUCERS' AND DEALERS' ASSOCIATION
Alleppey.
President, N. Narayanakurup; *Vice-President*, M. K. Gopalan; *Secretary*, M. Janardhanan.

KERALA KALAMANDALAM
Cheruthuruthy P.O.
An arts institution imparting training on scientific lines in Kathakali, Oottanthullal, Mohiniyattam and Bharatanatyam. Is managed by the State Govt. through a Managing Committee consisting of 11 members.
Chairman: Komattil Achutha Menon, B.A., B.L.; *Secretary*: C. V. Subramania Iyer, B.A.; *Asstt. Supdt., Arts Section*: K. M. Vasudevan Nambudripad.

KERALA SAHITHYA AKADEMI
Trichur.
President: Sardar K. M. Panikker; *Vice-President*: K. P. Kesava Menon; *Ex-Officio Secretary*, Director of Collegiate Education, Govt. of Kerala; *Asstt. Secy. & Treasurer*: P. K. Sivasankara Pillai.

KERALA SANGEETHA NATAKA AKADEMI
Trichur 1.
Chairman, Smt. Manku Thampuratti; *Vice-Chairman*, C. I. Parameswaran Pillai; *Secretary*, P. Bhaskaran.

THE KERALA SOAP INSTITUTE
(A State Govt. Concern).
Post Box 44, Kozhikode 1.
Oil Technologist: V. Sreedharan Moosad, B.Sc., A. M. Tech. I.

KERALA STATE COUNCIL FOR CHILD WELFARE
15/674, Bhaktivilas Road, Trivandrum 1.
President: Chief Minister; *Hon. Secretary*: Dr. N. Krishnan Tampi; *Hon. Treasurer*: C. Narayanan Nair.

THE KERALA STATE OIL MILLERS' ASSOCIATION
Ernakulam Mills Buildings, Ernakulam.
President: K. P. Madhavan Nair; *Vice-President*: V. A. Ananthanarayana Iyer. *Secretary*: T. O. Paul.

KERALA STATE SMALL INDUSTRIES ASSOCIATION
New Road, Cochin 2.
President, L. D. Kilikar; *Vice-President*, Dr. S. B. Rao.

KERALEEYA AYURVEDA MAHAPATASHALA
C/o Keraleeya Ayurveda Samajam, Shoranur.
President: A. V. Govinda Menon; *Secretary*: P. R. Subramania Iyer; *Principal*: K. V. Vydialinga Iyer.

THE MALABAR BUS OWNERS' ASSOCIATION
Oyitty Road, Kozhikode.
President, C. Kunhikutty; *Vice-President*, C. T. Raman Nambiyar; *Hony. Secretary*, M. Raghavan.

THE MALABAR CHAMBER OF COMMERCE
Calicut 1.
President: U. K. Sankunni.
Vice-President: Rao Bahadur V. K. Eradi, B.A., B.L.; B. V. Abdulla Koya (*Treasurer*).
Hon. Secretaries: C. C. Vulson, R. Ramakrishna Chettiar. *Manager*: M. K. Krishnan.

THE MALABAR MARKET COMMITTEE
8/80, Silk Street, Post Box No. 171, Kozhikode 1.
A Quasi-Government institution constituted under the Madras Commercial Crops Markets Act 1933 for the regulation of buying and selling of commercial crops.
Secretary, N. Balaraman Nair, M.A.

THE MALABAR PRODUCE MERCHANTS' ASSOCIATION
Silk Street, Kozhikode 1.
President: C. P. Kunhammed.
Vice-Presidents: Narayandas Murarji Parekh; Haji M. Bavooty; Haji S. Umbichi Koya.
Hon. Secretaries: K. M. Ahammed Koya, Sriram.

THE MALABAR UMBRELLA STICKS MANUFACTURERS' ASSOCIATION
Kuttichira, Calicut 1.
President, T. Balakrishnan Nair; *Vice-President*, C. Achutha Menon, Advocate; *Hon. Secretary*, P. A. Ahamed Koya.

NAIR SERVICE SOCIETY
Perunnai.
Founder, Mannath Padmanabhan; *President*, A. S. Damodaran Asan; *Gen. Secretary*, P. S. Vasudevan Pillai; *Secretary*, P. R. Parameswara Panicker.

NATANA NIKETANAM
Trichur.
Founded in 1955. Only institution of its kind for imparting advanced and specialised training in the art of Kathakali to girls.
Founder-President, K. Krishnan; *Secretary*, K. Balakrishnan; *Guru*, M. R. Balakrishna Kurup.

NORTH MALABAR CHAMBER OF COMMERCE
Fort Road, Cannanore.
President, Purushotham Goculdas; *Vice-President*, B. Madhava Baliga; *Hon. Secy.*, Wesley C. Aaraon.

NORTH TRAVANCORE CHAMBER OF COMMERCE
Bank of Alwaye Buildings, Alwaye.
President: M. M. Abdul Hameed; *Vice-President*: K. Raghunath Kamath; *Secretary*: T. O. Abdullah.

THE PALGHAT CHAMBER OF COMMERCE
Palghat.
President: T. G. Sesha Iyer; *Vice-Presidents*: K. Vasudevan, M. S. Sheik Rowther; *Hon. Secretaries*: R. S. P. Swaminathan, P. K. Krishnaswamy; *Treasurer*: R. V. Govindaraj Gowder.

THE PALGHAT DISTRICT MERCHANTS CHAMBER
Big Bazar, Palghat.
President: N. S. Harihara Iyer; *Vice-President*: V. S. Sivaramakrishnan; *Secretaries*: N. S. Kunji Bava Sahib, T. C. Velappan.

SAHITYA PARISHATH
Hospital Road, Ernakulam.
President, N. Gopala Pillai; *Secretary*, Mathew Ulakamthara; *Manager*, Vidyaratnam N. V. Sankaranarayana Iyer.

SAMASTHA KERALA SAHITYA PARISHATH
Ernakulam.

SOUTH INDIA SOAP MAKERS' ASSOCIATION
Oyitty Road, Post Box 74, Calicut 1.
President: Liladhar N. Mehta; *Vice-Presidents*: K. L. Pai, B. A. Basith; *Hon. Secretary*: P. M. Kurup, M.A.

SOUTH KERALA PLANTERS' ASSOCIATION
Isfield Estate, Kalthuritty P.O.
President: E. T. Whittaker; *Hon. Secretary*: A. A. Lopez.

SPICES EXPORT PROMOTION COUNCIL
Mohamed Manzil, T. D. Road, Ernakulam 1.
Chairman, C. R. Krishnaswamy; *Members*, K. I. Thomas, Smt. A. K. R. Lakshmi.

SRI MULA RAMA VARMA ASSOCIATION
Karamanai, Trivandrum 2.
President: Justice K. Sankara Subbiar, B.A., B.L.; *Vice-President*: P. Subramonia Iyer, B.Sc., B.Sc. (Eng.); *Secretary*: M. Krishnan.

TEA TRADE ASSOCIATION OF COCHIN
P. O. Box No. 84, Cochin.
Chairman: R. J. Watson; *Vice-Chairman*: G. McLeish; *Secretary*: N. K. Rajan.

TRAVANCORE CHAMBER OF COMMERCE
Alleppey.
Chairman, A. R. Sulaiman Sait; *Vice-Chairman*: Revi Karunakaran; *Ag. Secretary*, N. Venkitasubban.

TRAVANCORE-COCHIN COIR YARN MERCHANTS' ASSOCIATION
Rajagopala Mandiram, Mullakkal, Alleppey.
President, S. Venkatasubramania Iyer; *Vice-President*, K. K. Varghis; *Hon. Secy.*, P. M. Abdulla.

TRAVANCORE COIR MATS AND MATTING MANUFACTURERS' ASSOCIATION
Alleppey.
President, S. Narayanswamy.
Vice-President, M. R. K. Moorthi.

THE TRAVANCORE OIL MILLERS' ASSOCIATION
Naga Mahal, Alleppey.
President, V. J. Joseph; *Vice-President*, E. K. Varghese; *Honorary Secretary*, V. Ananthanarayana Iyer.

TRAVANCORE TILE MANUFACTURERS ASSOCIATION
Quilon.
Chairman: C. P. Mammen; *Hon. Secy.*: A. Karunakaran.

THE WEST COAST EMPLOYERS' FEDERATION
Cochin 1.
President, W. E. Northey, M.B.E.; *Vice-President*, R. J. Watson; *Secretary*, K. Sukumaran.

THE WEST COAST INDUSTRIALISTS' ASSOCIATION
Empress Hotel Road, Kozhikode 1.
President: V. K. Eradi.
Hony. Secretary: D. M. S. Rao.

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LACCADIVE, MINICOY AND AMINDIVI ISLANDS

Administrator, C. K. Balakrishnan Nair ; *Headquarters (temporary)* : Kozhikode.
Secretary, P. Kelukutty Menon.

Area : 10 sq. miles ; Pop. : 24,108 (1961 census) (Provisional).

Island	Area	Population	Density
Minicoy	1·75 sq. miles	4,138	Not available
Kalpeni	1·02 sq. miles	2,613	
Androth	1·67 sq. miles	4,183	
Agathy	1·08 sq. miles	2,411	
Kavarathy	1·35 sq. miles	2,828	
Ameni	0·97 sq. mile	3,531	
Kadamath	1·17 sq. miles	1,851	
Chetlat	0·39 sq. mile	953	
Kiltan	0·62 sq. mile	1,520	
Bitra	0·05 sq. mile	80	

With the reorganisation of States, in Nov. 1956 the Government of India took over the administration of the Laccadive, Minicoy and Amindivi group of Islands, a small sprawling group of coral islands in the Arabian Sea, lying between the latitudes of 8° and 12° north lat.

They now constitute a Union Territory under an Administrator.

Ten of the islands are inhabited out of a total number of 19. Minicoy, Kalpeni, Kavarathy, Agathy and Androth lie in the Laccadive group and Ameni, Kadamath, Kiltan, Chetlat and Bitra in the Amindivi group.

The islands lie from north to south, Minicoy being the southernmost and Chetlat the northernmost. They are within 20 to 114 miles away from one another except Ameni and Kadamath which are only six miles apart. They are 125 to 250 miles off the Kerala coast.

There is no scope for colonisation in the small satellite islands on any appreciable scale.

All the inhabitants of the Islands are Muslims. Originally Hindus, from Malabar* (except for Minicoites) the islanders appear to have been converted to Islam sometime in the sixth century. In appearance, mode of dress, manners and customs, the islanders, except those from Minicoy, are indistinguishable from the Moplahs of Malabar.* Their dialect is old Malayalam, with local variations peculiar to each island. The Minicoites are more akin to the inhabitants of the Maldives and their language, Mahl, is said to be allied to primitive Sinhalese. In appearance too they are strikingly different from the inhabitants of the Laccadives and the Amindivis. Their customs and manners are also different.

Mainly as a result of isolation, the islanders have remained backward economically, though in point of intelligence and initiative they are in no way inferior to the Moplahs of Malabar.* They have been declared 'Scheduled Tribes' but in reality are far more advanced than tribes elsewhere.

In the islands formerly administered from South Kanara, a Tahsildar exercises the powers of a Second Class Magistrate, a Police Officer, a Revenue Officer and a Port Officer in the Amindivis. He is also a Civil Judge without monetary limits operating under the customary laws of the islands and is assisted both in his civil and criminal work by Panchayats known as Mukthesars in Ameni and by Moopans in the other Islands.

In the Malabar group the present system is based on Amins appointed from among competent and influential islanders, assisted by clerks. Neither post is hereditary. In the place of Mukthesars or Moopans in the Amindivi group there are here Karanavans or assessors to assist the Amins in the administration of civil and criminal justice, which is governed by the Island Regulation of 1912. The Amin is usually selected from Karanavans.

Appeals now lie to the Secretary to the Administrator who is a I Class Magistrate and to the Administrator who has been invested with powers of a District Magistrate.

The Union Territory is now under the jurisdiction of the Kerala High Court.

There are two more Tahsildars now, one for Minicoy and the other for the Laccadive group with a view to improving the existing administrative machinery. The Deputy Tahsildar, Ameni, has now been designated as Tahsildar.

There is no land tax on any of the islands of the Laccadive group but only a tree tax on Government land.

The total revenue from these sources can never be a large amount, because the occupied area of the islands is only about 9 sq. miles. The present average annual income from this source is only about Rs. 20,000.

There is no tax of any kind in the Amindivi group of islands except from two minor leases of Government Pandaram lands and also from court fees, search fee, copying fees, magisterial and customary fines.

The Minicoy Island, which deserves separate mention, pays a lease amount on Pandaram lands, a poll tax of 25 nP. per unmarried woman, 37 nP. per unmarried man, and 75 nP. per married couple, and two other lease amounts for garden crops and village sites. The poll tax is subject to exceptions.

To set right the existing system of land ownership and collection of taxes it was proposed to conduct a survey of all islands for changing the basis of ownership from one of trees to one of land. The survey is now going on island by island.

ECONOMY

The islanders are given rice in exchange for coir at depots on monopoly basis at the exchange rates fixed by Government from time to time by reference to market rates for coir and rice on the mainland. Government have coir depots in all the islands except Minicoy which is not subject to this monopoly. Islanders are prohibited from selling coir to the public. The object is to ensure the islanders, whose main occupation is coir twisting, a regular supply of rice in exchange for coir, thereby minimising the chances of middlemen interfering in the coir trade. The scheme is worked on no-profit-no-loss basis.

The only agriculture on the island is coconut cultivation but no scientific approach to the question was ever made before. Cultivation of coconuts is now done scientifically with departmental advice and direction.

Fisheries development has been taken on a fairly big scale. On Minicoy, the bonito or 'mas' fishing forms an important and valuable industry.

The main health problems are the eradication of leprosy and filariasis.

Leprosy is on the increase in two islands, Minicoy and Androth. A leper colony started in 1952 at Androth with the aid of a local committee has been taken over by the Government.

In Minicoy too there is a leper colony. At Kadamath another colony was started on Sept. 22, 1960.

In the Laccadive group, each island has a Government dispensary, with a Civil Assistant Surgeon, a pharmacist and a maternity assistant. The dispensary at Minicoy has been converted into a hospital in 1960.

In the Amindivi group there is a Government dispensary at Ameni in the charge of a Civil Assistant Surgeon which caters for the medical needs of all the five islands. Another dispensary was opened in this group at Kiltan early in 1958.

Nine Health Inspectors have been appointed to combat the spread of filariasis and other dire diseases.

There are nine primary schools, one in each island except Bitra where free midday meals and books and slates are given to the students. Four primary schools have now been upgraded into upper primary schools and one as a high school. There are also two feeder schools in one island (Androth).

Girls' schools have already been started in Agathy, Androth, Ameni and Kalpeni islands.

Lack of proper communication is however the biggest single handicap of the administration. The normal communication to the islands is by means of island sailing boats during the months of October to May when the islanders buy all their requirements from the mainland and sell their produce especially copra, coconuts, cadjan leaves, vinegar, palm gur, mass fish and coir in the mainland markets. For the rest of the year the islands are practically cut off from any contact with the mainland. In Minicoy there is a wireless station. In other islands there were not even postal facilities. Wireless stations have now been opened at Kavarathy, Androth and Ameni islands also. Inter-island communication is also rare because the islanders have more contact with the mainland than among themselves.

A steamer service has been introduced by chartering a power vessel for service to the islands during fair season. A small power launch has also been purchased by the Administration for inter-island communication of touring officials.

Seasonal branch post offices have now been established in seven of the islands, which will work only during the fair season.

SECOND FIVE-YEAR PLAN

As approved by the Planning Commission, the broad proposals for improvement of these islands under a Second Five-Year Plan, that is, for the three and a half years, were as below :

	Rs.	
Agriculture and Community Development including development of Fisheries ..	19·69	lakhs
Transport and Communications	19·75	,,
Industries	4·11	,,
Education	12·40	,,
Publicity	0·92	,,
Public Health	15·40	,,
Electricity	1·00	,,
C.P.W.D.	0·58	,,
Total	73·85	,,

* Kerala.

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Under agriculture which on the islands consists mainly of coconut cultivation the plan target of 50 to 60 coconuts per tree per year has been nearly achieved.

Fisheries improvement, which is a major development scheme for the islands, consists of mechanised fishing through pablo boats in off-shore waters, new types of fishing gear, expansion of 'mas' fishing, extraction of shark liver oil and research.

The most important item in reconstruction will however be a monthly steamer service. A vessel will be purchased soon.

A new lighthouse will be opened in Androth and the existing lighthouse at Kiltan will be improved.

Under industry, coir twisting is being developed through training-cum-production centres.

To improve sanitation safe drinking water will be introduced through a scheme of subsidised draw wells. Water seal squatting slabs will be distributed to the islanders practically free. A lady doctor has been appointed. The training of 18 Dais has been completed as envisaged in the Second Five Year Plan. One of the island dispensaries has been converted into a hospital. Two maternity centres one at Kadamath and the other at Chetlat, were opened during 1959-60.

The scheme for the electrification of Minicoy island has been taken up for execution. The Planning Commission has agreed to an increase in outlay on this scheme from Re. one lakh to Rs. 1·992 lakhs.

It is also proposed to move the headquarters of the Administrator to the islands after a regular steamer service is established and wireless stations opened in all the islands. A land revenue system was to be organized by the end of the Plan period. A regular administrative machinery will gradually come into existence.

An Advisory Council has been constituted by the Ministry of Home Affairs with five islanders to advise the Administrator.

One member is nominated to the Lok Sabha from the islands.

MADHYA PRADESH

Area : 171,201 square miles.

Population (1961): 32·39 million (Provisional). Percentage of increase 1951-61: 24·25; density 189; sex ratio 952 females for every 1,000 males; literacy 16·9 per cent. For district population see "Late Particulars".

Main languages spoken in the State are: Hindi, Urdu, Marathi, Rajasthani, Gujarati, Sindhi.

ADMINISTRATIVE SET-UP

For administrative purposes, the State has been split up into seven divisions with a Commissioner at the head of each. The headquarters of each of these are located at Bhopal, Bilaspur, Gwalior, Indore, Jabalpur, Raipur and Rewa. The following are the names in italics of the headquarters of the divisions with the area in sq. miles of each division and names of districts (headquarters in brackets) under their charge :—

1) *Bhopal* (22,178): Sehore (Sehore); Raisen (Raisen); Bhilsa (Vidisha); Hoshangabad (Hoshangabad); Betul (Betul); Rajgarh (Rajgarh); Shajapur (Shajapur).
2) *Bilaspur* (21,257): Bilaspur (Bilaspur); Raigarh (Raigarh); Surguja (Ambikapur).
3) *Gwalior* (17,199): Gwalior (Gwalior); Bhind (Bhind); Morena (Morena); Shivpuri (Shivpuri); Guna (Guna); Datia (Datia).
4) *Indore* (27,327): Indore (Indore); Ratlam (Ratlam); Ujjain (Ujjain); Mandsaur (Mandsaur); Dewas (Dewas); Dhar (Dhar); Jhabua (Jhabua); Nimar (Khargone); Nimar (Khandwa).
5) *Jabalpur* (29,345): Jabalpur (Jabalpur); Balaghat (Balaghat); Chhindwara (Chhindwara); Seoni (Seoni); Sagar (Sagar); Mandla (Mandla); Damoh (Damoh); Narsimhapur (Narsimhapur).
6) *Raipur* (30,876): Raipur (Raipur); Bastar (Jagdalpur); Durg (Durg).
7) *Rewa* (22,870): Rewa (Rewa); Sidhi (Sidhi); Satna (Satna); Panna (Panna); Chhatarpur (Chhatarpur); Tikamgarh (Tikamgarh); Shahdol (Shahdol).

Number of Districts	43
Number of Tahsils	190
Number of Municipalities	157

Panchayats

The State Rural Local Self-Government Committee recommended a three-tier system, *viz.* Gram Panchayat at Village level, Janapada Panchayat at Block level and Zila Panchayat at District level. The Committee have also recommended a Nyaya Panchayat for a unit of 25,000 population, subject to the maximum of three in a block. These recommendations are being considered by a select committee of Madhya Pradesh Legislative Assembly (Dec. 1960).

The total No. of G.P.'s in M.P. is 12,256. Out of this, there are 57 Adim Jati Panchayats working in tribal areas of the State. The total No. of Nyaya Panchayats is 1,610 in the State.

The separation of Judiciary from the executive remained to be effected only in the Mahakosal region of the State (April 1961).

MINERALS

The State is minerally rich abounding in reserves of iron ore, coal, bauxite, manganese, limestone, clays, corundum, sillimanite, copper ore, diamond and some atomic minerals. Nearly 25 various minerals are at present being exploited from 591 mines. In 1951, the estimated value of the output of these mines was round about Rs. 8·4 crores.

Huge deposits of Iron-ore occur in Durg and Bastar districts. In the Bastar district the deposit is confined to the Dhalli-Rajhara range of hills with a reserve of 114 million tons and is linked to Bhilai by a branch line for supplying the steel plant there. The Balladilla reserves here have been estimated at 610 million tons of high grade ore. There are six deposits at Ronghat also with a reserve of 824·8 million tons.

There are four coal bearing areas namely North Chhattisgarh Basin, South Chhattisgarh Basin, North Satpura Basin and South Satpura Basin. Besides, there are five principal coal-fields in the Rewa Division. The total reserves in this State down to a depth of 1,000 ft. is estimated at 160,373 million tons.

Large deposits of manganese ore occur in the Balaghat and Chhindwara districts. The total reserves of the erstwhile M.P., including Nagpur and Bhandara, are estimated at 100 million tons.

Bauxite occurs in Jabalpur, Shahdol, Bilaspur, Mandla, Sarguja, Durg, Seoni and Raigarh districts. In the Amarkantak Plateau there are extensive cappings of bauxite.

In Katni tehsil of Jabalpur district there are extensive quarries of limestone spread from Katni to Jhukehi supporting a flourishing lime and cement industry at Kymore. A.C.C.'s Kymore cement factory is said to be the biggest in the East. Besides, large deposits of limestone also occur in Bilaspur, Raipur, Nimar and Satna districts.

The Panna Diamond Field is well known for its yield of diamonds in alluvial gravels, conglomerates and pipe rock.

A quality grade marble deposit with estimated reserves of 17,00,000 tons occurs at Sukma in Bastar District. Marble is also found in Sabalgarh of Morena District.

Some radio-active minerals have recently been found in Sidhi and Shahdol districts. Possibilities of richer occurrences of Beryl, an atomic energy mineral, are not excluded.

Other minerals with location in brackets: Glass sand (Satna, Jabalpur, Morena); Graphite (Betul); Barytes (Sidhi, Jabalpur, Tikamgarh, Dewas); Felspar (Chhindwara, Shahdol); Talc (Jabalpur, Jhabua); Soap stone (Durg Jabalpur, Sidhi, Jhabua, Chhattarpur); Yellow Ochre (Satna, Datia); Red Ochre (Gird, Shivpuri); Red Oxide of Iron (Jabalpur); Kaolin (Jabalpur, Shahdol, Dewas); White Clay (Satna, Jabalpur); Fuller's Earth (Jabalpur); Fire Clay (Surguja, Bilaspur, Shahdol, Chhindwara, Mandsaur, Narsimhapur, Raigarh, Sidhi); Dolomite (Bilaspur, Khargone); Slate-pencil-Shale (Mandsaur).

The following non-ferrous metals are reported to occur in districts shown in bracket against each.

Lepidolite (Bastar); Mica (Surguja, Balaghat); Fluorspar (Durg, Jabalpur, Raigarh); Lithographic stone (Damoh, Nimar); Copper (Bastar, Sidhi, Jabalpur, Balaghat, Narsinghpur, Sheopuri, Dewas); Lead Ore (Jabalpur, Sheopuri, Gird, Surguja, Raipur, Durg); Alluvial gold (Raipur, Surguja, Raigarh, Balaghat, Bastar).

The total value of minerals during the years 1958 and 1959 was Rs. 15,96,43,780.

TRANSPORT (End Dec. 1959)

1,916 private owned buses daily cover 1,28,565 miles on 1,281 routes and C.P. T.S. & M.B. Roadways (Nationalised) with 477 buses operating on 257 routes cover 37,117 miles daily.

LARGE-SCALE INDUSTRY

Main large-scale industries of the State with location in brackets :—

Cotton Textile (Indore, Gwalior, Ujjain, Mandsaur, Jabalpur, Dewas, Bhopal, Ratlam, Burhanpur, Rajnandgaon); Newsprint (Nepanagar); Cement (Kymore, Panmore, Satna, Dure); Sugar (Dabra, Dalauda, Joara, Sehore and Mahidpur); Potteries (Gwalior, Jabalpur, Ratlam, Chandia); Biscuits (Gwalior and Indore); Art-Silk (Gwalior, Ujjain, Indore, Burhanpur, Nagda); Glass (Jabalpur); Jute (Raigarh); Rayon (Gwalior, Nagda); Heavy electricals (Bhopal); Textile machinery (Gwalior); Engineering (Gwalior, Indore, Jabalpur, Ujjain); Iron and Steel (Bhilai); Refractories (Jabalpur, Katni); Viscose staple fibre (Nagda); Strawboard (Bhopal, Ratlam); Vanaspati (Indore); Flour (Bhopal, Basoda, Ujjain, Raipur); Ginning and Pressing (Nimar, Indore, Ujjain, Shajapur, Dhar, Mandsaur and Ratlam).

The cotton textile industry in the State has 12,500 looms and 5,19,500 spindles in 20 mills. Average number of workers employed in the textile mills (all shifts) is about 41,907. The biggest cement factory of the country is located at Kymore near Katni. The licensed capacity of the three cement factories at Satna, Barmore and Kymore is 9,53,000 tons per year. The Durg factory under installation has a licensed capacity of 2,50,000 tons per year. The country's only newsprint mill is located at Nepanagar with a rated capacity of 30,000 tons of newsprint

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per annum. The Bhilai Steel Plant near Durg has started production. The capacity of this plant is one million tons of steel per year. The Heavy Electricals of Bhopal have gone into production in Nov. 1960. Other important industries are potteries, biscuits, sugar, art silk, diesel engines, jute, glass, engineering goods and rayon.

Total no. of registered factories, 1958-59: 2,125.

COTTAGE INDUSTRIES

The State is also famous for traditional village and home crafts. The handloom industry has earned a good reputation for its Chanderi and Maheshwari sarees, Kosha Silk and other traditional fabrics. The well known handicrafts are printing (chunari, Nanada, Tie and Dye), leather toys, papier-mâché, lacquerware articles, dolls, sari, supari work, soft stone work and others.

Main Cottage Industries in the State with location in brackets:—Handloom (nearly 1,00,000 looms) spread all over the State but best developed at (Chanderi, Maheshwar, Burhanpur, Jabalpur, Raipur and Sauser); Kosa Tussar silk (Raigarh, Champa, Bilaspur, Surguja); Mulberry (Indore, Jhabua, Depalpur, Dhar); Fine sarees (Chanderi, Maheshwar, Burhanpur); Wood work and lacquerware (Sheopur, Sabalgarh, Budhni, Rewa, Gwalior); Wooden toys (Rewa, Bhopal, Gwalior, Ratlam); Soft-stone (Jabalpur, Chhatarpur); Lac (Seoni, Raipur, Bilaspur, Umria and Rewa); Saw Milling (Betul, Bhopal, Balaghat, Bilaspur and Mandla); Brassware (Balaghat, Chhindwara, Raipur and Chhatarpur); Textile handprinting (Ujjain, Mandsaur, Morena, Indore, Hoshangabad); Diamond cutting and polishing (Panna); Papiermachie (Gwalior, Ujjain Indore); Zari embroidery (Bhopal); Art metalware (Bastr, Betul, Hoshangabad, Satna, Mandla).

AGRICULTURE

The M.P. Vidhan Sabha passed (Apr. 7, 1960) a bill providing for fixation of ceiling on land at 28 standard acres.

Main food crops of the State: Rice, Juar, Wheat, Gram, Tur, Maize, Bajra, Barley.

Main cash crops of the State: Cotton, Sugarcane, Tobacco, Groundnut, Castor, Sesamum, Rape, Mustard, Linseed.

Final forecast estimates for 1958-59:

Total production of food crops in tons: 8,041,900.

Production of individual food crops in tons: Rice 3,255,100; Wheat 1,895,000; Juar 1,209,300; Maize 220,200; Barley 171,400; Bajra 77,100; Gram 904,500; Tur 308,900.

Total production of cash crops: 666,800 tons and 396,600 bales (cotton).

Production of cash crops in tons: Sugarcane 1,13,600 (Gur); Groundnut 304,500; Castor 1,790; Sesamum 68,100; Rape and Mustard 53,000; Linseed 123,600; Tobacco 2,300; Cotton 396,000 (bales of 392 lbs.).

Total area cultivated (net area sown): 37,665,622 acres (1957-58).

Total area under wet cultivation (total net irrigated area: 24,36,010 (1957-58).

Total area under food-crops: 35,145,501 acres (1957-58).

Area under individual food-crops in acres; Rice 9,775,500; Wheat 6,781,700; Juar 4,740,100; Maize 1,101,500; Barley 427,300; Bajra 427,500; Gram 3,808,500; Tur 928,700.

Area under cash crops in acres: Sugar cane 109,000; Groundnut 954,100; Castor 15,400; Sesamum 838,300; Rape and Mustard 359,800; Linseed 1,293,300; Tobacco 10,200; Cotton 1,926,200.

Plantation in State: Jute.

Forests: Total Forest Area of State: 34,087,084 acres (1957-58).

Main forest produce: Timber, Firewood and Charcoal wood, Katha.

(For more statistical information see main article on Agriculture.)

ELECTRIC POWER

The total Second Five Year Plan provision for the State on electricity schemes was Rs. 2,804·81 lakhs.

The following are some of the major works that were taken up in the Second Plan:

Bhilai Diesel Station: To meet the power requirements of the Bhilai Steel Factory during construction stage, a 6,000 kW diesel station was established and was commissioned in 1957.

Raipur Thermal Station: To meet the shortage of power demands of the Raipur, Bilaspur and Durg area, the capacity of the Raipur Thermal Station was augmented by 4,200 kW and the extension was commissioned in 1957.

Korba Thermal Station Scheme: To meet the power demands of Bhilai Steel Project, the National Coal Development Corporation and other industries, a 90,000 kW thermal power station was planned at Korba in the Bilaspur District near the Korba coal fields. The station and the associated transmission lines were completed and two turbines of 60,000 kW capacity were commissioned in 1958-59 and the third set of 30,000 kW was commissioned in 1960. Power to the Bhilai Steel Factory is transmitted in a 132 KV double circuit transmission line, feeding Bilaspur enroute. The mining areas at Jharandalli and Deorjhal of the Bhilai Steel Factory are also fed from this system. Further extension by 200 kW of the Korba Station is also proposed during the Third Plan to meet increased demands of the Bhilai Steel Project and Collieries as also other industries in the area.

To facilitate development of the Chirimiri coal field area the work on the Korba-Chirimiri 132 kV transmission line has been started.

Itarsi Thermal Station: The work on the 3,000 kW thermal station at Itarsi which was commenced during the 1st Plan was completed during the Second Plan and the station commissioned in March 1957.

Bhopal Thermal Station: At Bhopal one more 2,500 kW generating unit has been added during the Second Plan period. Another unit of the same capacity was ready for commissioning in December, 1960. The Bhopal and Itarsi Thermal stations have been interconnected by a 33 KV transmission line to meet the increased demand of power at Bhopal.

Satna Thermal Station: The work on the Satna Thermal Station of 1,850 kW and the associated transmission lines which was commenced during the 1st Plan period was completed and the station was commissioned in 1958. This station now feeds the Satna-Rewa-Maihar areas.

Birsinghpur (Amarkantak) Power System: As a result of the reorganisation of the States the Board proposed to establish a 60 mW power station instead of the three isolated sanctioned stations of (*a*) 20 mW Thermal Station at Burhar in Vindhya Pradesh, (*b*) 10 mW extension at Satna Thermal Station, (*c*) 20 mW Thermal Station at Katni in Mahakoshal. The work is in progress.

Chandni System: The increasing demand of the Nepa Mill has necessitated further augmentation of the Chandni Power Station by 10 mW. The work on the extension scheme has been taken in hand.

The interconnection of Indore and Chandni Power Stations by a 132 KV transmission line has been started.

Chambal Hydel Project: Power to the extent of 40 mW will now be available from the Gandhi Sagar Power Station inaugurated on 19-11-1960 and another 45 mW from the Ranapratap Sagar Power Station is expected to become available during the Third Plan period for being utilised in the Madhya Bharat and Bhopal regions of the State.

In all, 24 diesel stations have been put up so far in the Second Plan period for supply of power to isolated places in the state.

Rural Electrification: About Rs. 4 crores had been provided in the Second Plan for this purpose. The benefit of electricity has been extended to 492 places so far; out of these 398 are villages with population less than 10,000.

The progress of development of electricity in the State is as indicated below:—

Particulars	Commencement of 1st Plan.	End of first Plan.	Position 1959-60.	Expectations end of Second Plan.
Installed capacity in mW	39·00	81·00	159·4	231·41
Transmission line in Kilometers (11 kV and above)	26	920	3,163	4,000
Yearly generation (Million kWh) ..	76	176·5	370	600
No. of consumers in thousand ..	53	77	130	200
Per capita generation in kWh	3	6	12	20
No. of towns/villages electrified ..	59	142	450	554

CO-OPERATION

(See under article on Co-operation.)

LAND TENURE

The Madhya Pradesh Land Revenue Code, 1959 came into force on 2nd October 1959, to provide a single uniform legislation for the whole State. The salient features of the Code are described below.

Since the abolition of the rights of intermediaries, land has been directly held from the State Government by cultivators who will now be known as Bhumiswamis. They will be the real owners of the land they hold.

The Bhumiswamis will be able to mortgage their land both by simple or usufructuary mortgage. In respect of unirrigated land, no mortgage shall be valid unless at least 10 acres of land is left with the Bhumiswamis free from any encumbrance or charge.

A Bhumiswami shall be owner of all trees standing in his holding subject to certain safeguards provided only in public interest. Lands which are not fit for permanent cultivation or over which it is not desirable to create permanent rights or over which buildings are to be erected will be given on leases on such terms and conditions as may be justified in each case.

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OCCUPANCY TENANTS

All persons who hold land from Bhoomiswamis shall now be called occupancy tenants. The Bhumiswamis will have the right to resume land from their occupancy tenants for their personal cultivation provided that the total area after such resumption is within the ceiling of 25 acres of unirrigated land, subject to the condition that the occupancy tenant must be left with at least ten acres of unirrigated land. After the Bhumiswamis have exercised right of resumption within the specified period, the occupancy tenants will be conferred Bhumiswami rights on their paying 15 times the land revenue in five equal annual instalments. If after resumption the Bhumiswami fails to cultivate personally land resumed from the occupancy tenant, the latter shall be entitled to restoration of that land.

The maximum rent payable by an occupancy tenant shall not exceed four times the land revenue in the case of irrigated land; three times the land revenue in the case of lands under Bandhs and twice the land revenue in other cases.

Sub-letting of land: No subletting or leasing of land shall now be permitted except in very emergent cases once in three years or by certain classes of persons.

The rights of residents of a village in the unoccupied land and its produce are governed by entries in the village Wajibul-arz at present.

Tanks over which villagers exercised rights of irrigation or any kind of nistar on the day of abolition of the rights of intermediaries, will now vest in the State Government for purposes of nistar of the residents of the village on compensation being paid to the ex-proprietors.

Village Management: Village management is to be entrusted to elected Patels for the time being and ultimately to elected Gram Panchayats.

Land Improvement: The Code provides for planting of fruit bearing trees, with the previous permission of Revenue Officers on unoccupied land of Government. It also provides for "Shramdan" for maintaining works of public utility and for laying down standards of efficient cultivation and management to be followed by certain cultivators in the interest of grow more food.

Zamindari and Jagirdari abolition: Laws for abolition of Zamindari and Jagirdari (Madhya Bharat Zamindari Abolition Act, Samvat 2008, and Madhya Bharat Jagirdari Abolition Act, Samvat 2008) have been enacted and enforced. Compensation payment to zamindars and jagirdars already commenced.

Provision of compensation: Eight times the net income for zamindars and seven times the net income for jagirdars.

In the former Vindhya Pradesh region 1/3 area was under the Jagirdari system. The V.P. Abolition of Jagirs and Land Reforms Act, 1952 was passed and the Jagir rights were abolished by 30-6-1954. According to this Act, rights of 21,722 jagirdars were abolished and the State revenue increased by Rs. 40,44,000.

The dispossessed jagirdars have challenged the Abolition of Jagirs and Land Reforms Act before the Supreme Court and meanwhile receive interim compensation.

In about ⅓th of former State of Bhopal there were Jagirdars and their rights were abolished by the Bhopal Abolition of Jagirs and Land Reforms Act, 1953.

The following table gives an idea of the progress in the payment of compensation as at the end of October 1960:

Region	Amount payable (in lakhs) Rs.	Amount paid (in lakhs) Rs.	Balance payable (in lakhs) Rs.
Mahakoshal	300	265	35
Madhya Bharat	900	868	32
Vindhya Pradesh	250	133	117
Bhopal	7·51	7·41	00·11
TOTAL	14,57·51	12,73·41	184·11

EDUCATION AND PUBLIC HEALTH

The figures relate to 1960:

Total no. of Degree Colleges: 71 (Govt. colleges 40; Private 31).

Total number of Teacher Training Colleges: 49.*

Total no. of Professional Colleges: 17.

(Medical 4; Engineering 4; Agriculture 4; Veterinary 2; Ayurvedic 2).

Polytechnics: 13.

Number of Universities: 4.

Names of the Universities with location in brackets:—University of Sagar (Sagar), Jabalpur University (Jabalpur), Vikram University (Ujjain), Indira Kala Sangeet Vishwavidhyalaya (Khairagarh).

PUBLIC HEALTH

Figures for 1959-60:

Common diseases in the State: Malaria, Filaria and Tuberculosis.

During the year 5,92,229 patients were treated for Malaria and 92,708 patients for T.B.

Number of Medical Institutions: 1,274 (upto 31st March 1959).

Number of beds: 12,789.

Number of Medical Colleges: 4.

No. of allopathic hospitals: 222.

No. of allopathic dispensaries: 504.

Total no. of beds in the allopathic hospitals: 6,853.

No. of T.B. hospitals: 11.

No. of T.B. clinics: 23.

No. of leprosy clinics: 83.

No. of leprosy homes: 8.

No. of primary health centres: 170.

No. of Maternity Homes: 73.

No. of Maternity and Child Welfare Centres: 80.

No. of V. D. clinics: 9.

No. of dental clinics: 5.

No. of family planning centres: 75.

No. of mental hospitals: 2.

LABOUR

Position as on 31st Dec. 1959:

Number of registered factories (excluding ordnance factories): 2,104.

Number of workers employed in registered factories: 149,820.

Important industries with the number of units (employing more than 100 workers) and workers employed respectively in each industry within brackets:

Textile (18; 41,251); Sugar (5; 3,236); Cement (3; 3,411); Potteries (6; 2,874); Engineering (7; 3,453); Paper and strawboard (3; 1,573); Rayon silk (2; 1,423); Jute (1; 650); Biscuits and confectionery (1; 349).

On March 31, 1960, the number of registered trade unions was 401, out of which 214 unions have submitted their returns for 1959-60. After scrutiny 109 returns have been accepted by the Registrar of Trade Unions, membership of which comes to 54,037.

Total number of employments covered under the Minimum Wages Act: 15 (1959).

Approximate number of workers employed in the above employments: 221,331 (1959).

Important categories of employments under the Minimum Wages Act and the approximate number of workers employed in each category:

Tobacco manufacturing including bidi making 84,630; Road construction and building operations 21,511; Local authorities 63,879; Cotton ginning and pressing 7,093; Stone breaking and stone crushing 11,592; Rice, dal and flour 8,176; Public Motor Transport 4,631; Cement 5,082; Potteries 2,260; Leather goods manufactories and tanneries—not available; Lac manufactories 1,500; Printing Presses 653; Agriculture—not available; Oil mills 9,824.

Minimum wages for agricultural labourers under the Minimum Wages Act were enforced throughout Madhya Pradesh State with effect from December 31, 1959. The Act prescribes for the first time minimum wages for agriculture labour all over the State.

The monthly minimum wages prescribed for agricultural labourers engaged on a permanent basis were Rs. 30 in areas with a population of 50,000 and above, Rs. 25 in areas with a population of 5,000 and above and Rs. 20 in areas with a population below 5,000.

The Shops and Establishments Act was in force in 44 towns in the State on July 24, 1959.

Number of factories covered by the Employees' Provident Fund Scheme (March 31, 1959): 159; number of factories exempted: 18; number partly exempted: 8; total number of workers contributing under the scheme: 82,808.

Number of employees covered by the Employees' State Insurance Scheme (March 31, 1959): 88,742. The Scheme was in operation in Gwalior, Ujjain, Ratlam, Burhanpur, Jabalpur and Indore (March 1959).

The following new Acts were passed during the Calendar years 1958 and 1959:—1. Madhya Pradesh Maternity Benefit Act, 1958 passed on 12th September, 1958. 2. The Madhya Pradesh Shops and Establishments Act, 1958, passed on 20th September 1958; 3. Minimum Wages (Madhya Pradesh) Amendment Act, 1959, passed on 20th May 1959; 4. Industrial Workmen's (Standing Orders) Act 1959, passed on 29th July, 1959.

* Includes 9 post-graduate basic training colleges and 40 other training institutions.

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IRRIGATION

Name of Project.	Location District.	When started.	When to be completed.	Capacity M. cft.	Area proposed for irrigation (in acres).	Total cost (lakhs of Rs.)	Estimated rise in output after completion.
Projects in execution :							(Foodgrains in Tons)
Chambal Valley Development Scheme	Mandsaur	1952	1962	..	14,00,000 (5,50,000 M.P.)	2,900·00	2,00,000
Dudhawa Tank Project ..	Bastar	October 1953	March 1963	10,119	1,40,000*	250·00	28,000*
Sarodha Tank Project	Durg	January 1954	,,	1,853	18,000	115·00	3,600
Chandra Kesar Tank Project ..	Dewas	..	March 1966	1,600	12,000	88·59	2,400
Tawa Project	Hoshangabad	1958	..	2,955	7,50,000	2,710·00	1,50,000
Satak Tank Project	West Nimar	1956	June 1961	..	10,000	65·00	..
Nahlesara Tank Project ..	Balaghat	1956-57	March 1964	..	11,300	63·40	2,260
Bila River Project	Sagar	1957	March 1966	..	26,000	157·00	5,200
Kedar Nala Project	Raigarh	February 1957	March 1964	..	11,500	37·00	2,300
Keswa Nala Project	Raipur	October 1956	March 1963	..	8,000	46·50	1,600
Development of Maniari ..	Bilaspur	,,	,,	..	24,000	25·00	4,800
Segwal Tank Project	West Nimar	1957	June 1962	..	4,500	35·00	..
Morwan Tank	Mandsaur	1957	March 1963	..	6,600	48·60	1,320
Sivgarh Bhedli	Ratlam	..	1960-61	..	3,600	20·10	720
Barodia	Rajgarh	1957	1961-62	..	3,000	20·50	600
Kundanala	Dhar	..	June 1960	..	4,000	24·30	800
Devendranagar	Panna	1959	March 1965	..	6,380	30·90	1,270
Nandanwana	Tikamgarh	,,	March 1963	..	4,325	12·00	865
Beniganj	Chhatarpur	,,	March 1965	..	10,000	45·5	2,000
Sagar Nadi	Seoni	..	March 1963	..	3,940	26·00	790
Dhuandhar	Mandla	December 1956	,,	..	3,440	23·00	690
Daroli	Damoh	,,	,,	..	3,600	24·00	720
Remodelling of Mahanadi Canal	Raipur	1957	March 1966	..	1,40,000*	245·00	28,000
Projects in Operation :							
Gangulpara Tank Project ..	Balaghat	May 1953	March 1959-60	387·47	8,500	49·75	1,700
Dukrikheda Tank Project ..	Hoshangabad	,,	March 1960	406·998	6,600	39·00	1,320
Gondli Tank Project	Durg	October 1953	,,	3,080·01	7,200	89·20	1,440
Sampna Tank	Betul	,,	,,	528·87	9,500	48·80	1,900
Mola Dam	Guna	,,	,,	..	5,000	36·45	1,000

* In addition to existing area.

Total irrigation potential created upto March 1958 : 25,000 acres. Total area irrigated as a result of this newly created potential upto March 1958 : 16,408 acres. Percentage of utilisation at the end of March 1958 : 66.

SECOND FIVE-YEAR PLAN

The Second Five-Year Plan of the State involved a financial outlay of Rs. 19,090 lakhs. The First Five-Year Plan of the four units envisaged a total outlay of only Rs. 6,732 lakhs. The Second Plan, in contrast, was much bigger in size as well as in scope. The outlay on various sectors of development was as follows :—

Head of development	Total (in lakhs of Rs.)
1. Agriculture & Community Development	5,048
2. Irrigation & Power	6,479
3. Industry & Mining	1,035
4. Transport & Communications ..	1,290
5. Education	2,063
6. Health	1,446
7. Housing	450
8. Other Social Services	938
9. Miscellaneous	341

Broadly speaking, 74·70 per cent of the total outlay represents real investment which would lay the foundations of the State's growing prosperity, both in industrial as well as in agricultural fields. The remaining outlay of 25·30 per cent will be spent on social services including education, health, housing etc. Besides, there are the Central Government Projects such as the Rs. 131-crore Steel Plant at Bhilai, opening of the Korba Coal Mines with an approximate cost of Rs. 21 crores and the establishment of a Heavy Electrical Equipment Plant at Bhopal.

Agriculture : Continued emphasis had been given to agriculture during the first two Plans, resulting in an additional production of more than 8 lakh tons and directly benefiting an area of nearly 170 lakh acres. During the Second Plan period the production of food grains was expected to be raised from 76 lakh tons to 86 lakh tons and there was to be an additional production of 12,250 tons of Gur, 12,500 bales of cotton and 5,000 tons of oilseeds. In all 1·76 lakh tons of fertilisers, 20 lakh tons of compost and 2·23 lakh maunds of green manure seeds would have been distributed. During the same period consolidation of holdings was to be undertaken in 36 lakh acres, tractor ploughing in about 5 lakh acres and contour bunding in 0·73 lakh acres. The total irrigation potential created during the two plans under minor irrigation will be 3·25 lakh acres. 700 families of landless persons will have been settled in 10,000 acres during the period. In the field of animal husbandry, there were to be more than 300 veterinary hospitals and 544 outlying dispensaries in the State by the end of the Second Plan.

Irrigation & Power : 38·17 per cent of the total outlay was provided in the Plan for irrigation and power plans. Irrigation projects of the State comprise multi-purpose projects, major and medium projects, minor irrigation projects, tube-wells and flood protection works. These include the Chambal Hydel & Irrigation Project, remodelling of Mahanadi Canal in Raipur district, Bila River Project in Sagar, Sukta River Project in Nimar, Pampavati Tank Project in Jaora District, Choral River Project in Indore District, Chillar River Project in Shajapur District, Ravigawan Canal Project in Panna and the Nagod Canal in Satna District.

The Chambal project alone will irrigate about seven lakh acres of land in M.P. and generate 2,10,000 kW. of power. The Korba Thermal Scheme will generate 90,000 kW of power.

By the end of the Second Plan the total irrigation potential of the State was expected to increase by 4·54 lakh acres and the installed capacity of power was to be raised from 78 M.W. to 147 M.W. 136 towns and 396 villages were to be electrified.

The total mileage of surfaced and unsurfaced roads will increase to 18,886 and mileage under asphalted roads to 2,190 by the end of the Second Plan.

In the field of education, enrolment in the primary schools was expected to reach 17 lakh students and the total number of primary schools was to increase to 31,000. All villages having population of 500 or even less will have a primary school.

Sixty-eight towns will have water works by the end of the Second Plan. There will be 210 primary health centres and 630 subsidiary health centres. The total number of general and maternity beds in the State will be raised to 12,000 by 1960-61.

By the end of the Second Plan 1,33,000 scholarships will have been awarded to middle school students. 1,750 scholarships to high school students and 1,000 stipends to normal school students of Scheduled Tribes. The scheme of mid-day meals will benefit 33,000 students of Scheduled Tribes.

Industry & Mining : During the Second Plan period a spinning mill of 12,500 spindles was expected to be started which will have a production capacity of 10,000 bales per year, a vegetable oil and solvent extraction Plant and a distillery for power and industrial alcohol was started. Preliminary works were expected to be completed on these schemes by the end of the Plan. These units will go into production within the first two years of the Third Plan. During the Third Plan period the manufacture of organic chemicals based on industrial alcohol will be undertaken and the power alcohol plant will be further expanded. Nearly 800 industrial co-operatives would be opened to help small scale industries.

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All these besides the three major industrial undertakings, viz. the Bhilai Steel Plant, the Heavy Electrical Equipment Plant and the exploitation of the Korba Mines, as also the harnessing of the rich deposits of a variety of mineral resources will make Madhya Pradesh an important industrial area.

Paper Mill: The Rs. 14-crore paper mill being set up in the private sector with foreign financial and technical assistance at Amlai, near Shahdol in Madhya Pradesh, is expected to go into production by the middle of 1963.

Spread over an area of 1,200 acres, the mill will produce 150 tons of paper per day.

The U.S. Government, has granted a loan of 18·5 million dollars (about Rs. 9 crores) for the mill which is being set up by the Orient Paper Mills, Calcutta.

BUDGET ESTIMATES FOR 1961-62

(*See under 'Late Particulars'.*)

ADMINISTRATIVE PERSONNEL

(*See under 'States Administrative Personnel'.*)

LEGISLATIVE ASSEMBLY

(See under 'General Elections'.)

UNIVERSITIES

JABALPUR UNIVERSITY

Shaheed Smarak Bhawan, Golbazar, Jabalpur.

The Jabalpur University was established on 11th March 1957. It is a teaching and affiliating University.

Chancellor, H. V. Pataskar, B.A., LL.B., Governor of Madhya Pradesh.

Vice-Chancellor, Col. Pandit Kunjilal Dubey, B.A., LL.B., M.L.A.

Rector, U. Misra, M.A., LL.B.

Registrar, K. R. Pandya, M.A.

Number of affiliated colleges : 20. (The status of colleges as constituent colleges to be decided later.)

Number of students in the University : Approximately 9,557.

Affiliated Colleges : G. S. College of Commerce & Economics, Jabalpur ; Mahakoshal Mahavidyalaya, Jabalpur ; Prantiya Shikshan Mahavidyalaya, Jabalpur ; Govt. Engineering College, Jabalpur ; Govt. Veterinary College, Jabalpur ; Hitkarini Mahavidyalaya, Jabalpur ; Hitkarini Law College, Jabalpur ; New Education Society Law College, Jabalpur ; Hawabagh Teachers' Training College for Women, Jabalpur ; D. N. Jain College, Jabalpur ; St. Aloysius College, Jabalpur ; M. H. College of Home Science for Women, Jabalpur ; Mahila Mahavidyalaya, Jabalpur ; Govt. Polytechnic, Jabalpur ; Govt. Agriculture College, Jabalpur ; Govt. Medical College, Jabalpur ; Institute of Languages & Research, Jabalpur ; Shyam Sunder Agrawal College, Sehora (Jabalpur); Tilak Rashtriya Mahavidyalaya, Katni (Jabalpur).

NORMAL BUDGET 1960-61

	Rs.
Receipts ..	8,94,370
Expenditure ..	7,52,860
Govt. of India Special Grant	—
State Government	
(*a*) Maintenance Grant ..	93,000
(*b*) Special Grant	—

DEVELOPMENT BUDGET 1960-61

	Rs.
Receipts ..	67,27,545
Expenditure ..	67,27,545
University Grants Commission ..	40,82,965
State Government	26,44,580

SAGAR UNIVERSITY

Founded : 1946.

Chancellor, Dr. K. N. Katju, Chief Minister, Madhya Pradesh.

Vice-Chancellor, Dr. D. P. Mishra, B.A., LL.B., D. Litt.

Registrar, Prof. Ishwar Chandra, M.A.

It is a teaching, affiliating, examining and residential University.

Number of affiliated Colleges : 45.

Number of Students : Teaching Departments : 1,649 (men 1,525 ; women 124) ; Affiliated Colleges 12,310 (men 11,327 ; women 993).

Library : 71,720 volumes ; 11,000 journals ; 500 pamphlets.

Budget (1960-61).

Total income : Rs. 53,31,886 } Including building grants.
Total expenditure : Rs. 50,08,095 }

The medium of instruction for all classes is Hindi upto degree course examination and it is optional for all post-graduate examinations in Arts. The medium is English for all post-graduate examinations in Science.

Affiliated Colleges

Government Colleges : College of Science, Raipur ; Govt. College of Engineering & Technology, Raipur ; D. S. V. Sanskrit Mahavidyalaya, Raipur ; Govt. Ayurvedic College, Raipur ; Govt. Training College, Raipur ; Govt. Girls' Degree College, Raipur ; Thakur Ranmat Singh College, Rewa ; Govt. Training College, Rewa ; Maharaja College, Chhatarpur ; Govt. Degree College, Satna ; Govt. Degree College, Shahdol ; Govt. Degree College, Datia ; Govt. Degree College, Tikamgarh ; Chhatrasal Degree College, Panna ; Govt. Degree College, Balaghat ; Govt. Arts & Science College, Durg ; Kirodimal Govt. Arts & Science Degree College, Raigarh ; Govt. Training College, Khandwa ; J. H. Govt. Degree College, Betul ; Govt. Agriculture College, Rewa ; Govt. Degree College, Jagdalpur ; Govt. Degree College, Sidhi ; Govt. Degree College, Ambikapur ; P. G. Basic Training College, Bilaspur.

Private Colleges : Chhattisgarh College, Raipur ; New Arts & Commerce College, Raipur ; Law College, Raipur ; Law College, Satna ; Shree Nilkantheshwar College, Khandva ; S. B. R. College, Bilaspur ; C. M. Dubey Degree College of Arts & Commerce, Bilaspur ; Damoh Art College, Damoh ; Lahiri College, Chirimiri ; Narmada Mahavidyalaya, Hoshangabad ; Seva Sadan Arts College, Burhanpur ; Rani Durgavati Mahavidyalaya, Mandla ; Digvijai Mahavidyalaya, Rajnandgaon ; Jayavanti-Haksar College, Betul ; Janjgir College of Arts & Commerce, Janjgir ; Mahatma Gandhi Memorial College, Itarsi ; Shri Shikharchand Jain Science & Arts College, Seoni ; Narsimhapur Degree College, Narsimhapur ; Law College, Khandwa ; L. P. Sanskrit Degree College, Dhana (Dt. Sagar) ; Vanijya Mahavidyalaya, Satna ; Satpura Mahavidyalaya, Chhindwara.

VIKRAM UNIVERSITY

(Ujjain)

The Vikram University was established by law under Act 18 of 1955 and came into being on March 1, 1957. It is an affiliating and teaching University. The media of instruction are English and Hindi.

Chancellor : H. V. Pataskar, B.A., LL.B., Governor of Madhya Pradesh.

Vice-Chancellor : Dr. G. L. Datta, M.A., Ph. D.

Treasurer : Rai Bahadur Lalchand B. Sethi.

Registrar : G. D. Widhani, M.A.

DEANS OF FACULTIES

Arts : P. C. Malhotra, M.A., Principal, Govt. Hamidia College, Bhopal.

Science : Dr. W. V. Bhagwat, D.Sc., Principal, Holkar College, Indore.

Commerce : Dr. G. P. Gupta, M.Com., Ph.D., Prof. & Head of the Deptt. of Commerce, Madhav College, Ujjain.

Law : Balvant Singh Johar, B.A., LL.B., Part-time Professor of Law, Holkar College, Indore.

Agriculture : Dr. P. S. Lamba, M.Sc. (Ag.), Ph.D. (Win.), Principal, M. P. College of Agriculture, Gwalior.

Medicine : Dr. B. C. Bose, M.D., D.Sc., Principal, M. G. Medical College, Indore.

Engineering : N. N. G. Dastidar, B.Sc. (Tech.), A.M.C.T. (Mech.), M.I.E., Principal, Madhav Engineering College, Gwalior.

Veterinary Science & Animal Husbandry : C. N. Kelkar, G.B.V.C., A.I.D.R.I., M.S., Principal, College of Veterinary Science & Animal Husbandry, Mhow.

Education : Dr. G. C. Chaurasia, M.A., LL.B., D.Ed., Principal, P. G. B. T. College, Bhopal.

Physical Education : P. M. Joseph, B.Sc., D.P.Ed., B.P.E., M.Ed., Principal, Laxmibai College of Physical Education, Gwalior.

The University has started Post-Graduate departments from 1960 in Physics, Mathematics and Statistics at Ujjain, Chemistry at Indore, Botany and Zoology at Gwalior and Geology at Bhopal.

Number of Constituent Colleges : 11.

No. of affiliated Colleges : 36.

No. of Students : 12,287 (1958-59) (appeared in the different examinations of different faculties).

Total income including Govt. grants (1959-60) : Rs. 21,23,200·00.

Central Govt. grants : Nil.

University Grants Commission : Rs. 1,50,000·00.

State Govt. grants : Rs. 5,45,000·00.

Total expenditure : Rs. 21,88,375·00.

The names of the constituent and affiliated colleges are given below :

CONSTITUENT COLLEGES :

(These colleges provide post-graduate course also).

Indore Christian College, Indore (Arts, Law and Diploma in Social works) ; Holkar College, Indore (Arts, Science, Commerce and Law) ; Madhav (College, Ujjain (Arts, Science, Commerce & Law) ; Mahatma Gandhi Memorial Medical College, Indore ; Maharani Laxmibai College, Gwalior (Arts, Science, Commerce & Law) ; G. R. Medical College, Gwalior ; Government Hamidia College, Bhopal (Arts, Science, Commerce & Law) ; College of Agriculture, Gwalior ; Rafi Ahmed Kidwai Agricultural Research Institute, Sehore ; Post Graduate Basic Training College, Bhopal (Education) ; Post-Graduate Basic Training College, Ujjain (Education).

AFFILIATED COLLEGES :

Girls' Degree College, Indore (Arts Science) ; Shri Govindram Sekseria Technological Institute, Indore (Engineering) ; Kamla Raje Girls' College, Gwalior (Arts & Science) ; Government Degree College, Ratlam (Arts, Science & Commerce) ; G. P. Degree College, Morena (Arts, Commerce & Science) ; M. P. College of Veterinary Science and Animal Husbandry, Mhow ; P.G.B.T. College, Dewas (Education) ; Madhav Maha Vidyalaya, Lashkar, Gwalior (Arts & Commerce) ; Gandhi Medical College, Bhopal ; Madhav Engineering College, Gwalior ; Govt. Degree College, Barwani (Arts, Science & Commerce) ; Govt. Degree College, Mandsaur (Arts, Science & Commerce) ; Govt. Degree College, Guna (Arts, Science & Commerce) ; Anand College, Dhar (Arts, Science & Commerce) ; S. S. L. Jain College, Vidisha (Arts, Science & Law) ; P. M. B. Gujrati College, Indore (Science, Commerce & Arts) ; Govt. Degree College, Rampura (Science & Commerce) ; Government Degree College, Neemuch (Arts, Science & Commerce) ; Government Degree College, Mhow (Arts, Science & Commerce ; Govt Degree College, Dewas (Arts,

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Commerce & Science); Government Degree College, Rajgarh (Arts & Commerce); Govt. Degree College, Khargone (Arts, Commerce & Science); Maharani Laxmibai Girls' Degree College, Bhopal (Arts & Science); Govt. Degree College, Sehore (Arts & Science); Naveen Degree College, Shajapur (Arts & Commerce); Lakshmibai College of Physical Education, Gwalior (Physical Education); Govt. Degree College, Bhind (Arts, Commerce & Science); Vijayaraje Girls' Degree College, Ujjain (Arts & Science); Saifia Degree College, Bhopal (Arts, Commerce & Science); Degree College, Ambah (Arts & Science); Maulana Azad Technological Institute, Bhopal (Science & Engineering); V. T. P. Degree College, Shivpuri (Arts, Commerce & Science); Govt. Degree College, Jhabua (Arts); Samrat Ashok Tech. Institute, Vidisha (Engineering).

MADHYA PRADESH FINANCIAL CORPORATION

(*See under "State Financial Corporations" in Late Particulars.*)

ASSOCIATIONS, SOCIETIES, ETC.

A.C.C. ENGINEERING INSTITUTE

P.O. Kymore (Via Jukehi), C. Rly.

Technical Training Centre in metal working trades and in diesel mechanics course.

Superintendent: H. P. Bhadury, B.Sc. (Eng.), M.I.E. (India), M.I. Prod. E.

ALL-INDIA LOCAL BODIES FEDERATION

"Chandra Lok", Satna (M.P.).

President: Dr. L. P. Khare; *Gen. Secy.:* K. Narasimha Rao; *Joint Secretary:* B. N. Saojee.

BHATKHANDE LALITKALA SHIKSHA SAMITI

Gandhi Chowk, Raipur.

President: Laxminarayandas; *Chief Directress,* Smt. Anita Sen.

CENTRAL INDIA CHAMBER OF COMMERCE

Bambakhana, Ujjain.

President, C. L. Saboo; *Vice-Presidents,* M. D. Singh, A. M. Arora; *Hon. Gen. Secy.,* B. M. Agrawal; *Hon. Jt. Secy.,* M. D. Gupta.

CENTRAL TRAINING INSTITUTE & INDUSTRIAL TRAINING CENTRE

(Government of India—Ministry of Labour and Employment).

Koni—Bilaspur (M.P.).

Principal: B. M. Bose; *Vice-Principal:* M. S. Garwdachar; *Registrar:* P. Shrivatsava.

THE CHAMBER OF COMMERCE

Ratlam.

GOVERNMENT AGRICULTURAL INSTITUTE

Laxmipur P.O., Panna, M.P.

The Institute under the management of the Directorate of Public Instruction, Madhya Pradesh, imparts two-years post-matriculate training leading to award of Diploma in Agriculture.

Principal, Dr. Shiva Nand Jha, M.A., B.Sc. (Ag.), Ph.D.

GOVERNMENT CENTRAL TECHNICAL INSTITUTE

Jhansi Road, Gwalior.

SHRI GOVINDRAM SEKSARIA TECHNOLOGICAL INSTITUTE

Opposite Nehru Park, Indore.

Principal & Secretary and Head of Civil Engineering Department, Prof. V. H. Acharya, B.A., B.Sc. (Hons.) (Bom.), B.Sc. (Hons.) (Edin.), M. Inst., M.E. (Lond.).

Professor & Head of the Electrical Engineering Department, Prof. N. R. Das Gupta, B.Sc. (Hons.), Cal., B. Eng. (Sheffield), M.I.E., M.M.G.I., Dip. in Admn. (Man.).

INDIAN ASSOCIATION OF PATHOLOGISTS

Dept. of Pathology, Medical College, Indore.

President: Dr. G. L. Sharma; *Secretary:* Dr. C. Mohan Rangam; *Treasurer:* Dr. M. Balasubrahmanian.

INDORE PAPER MERCHANTS' ASSOCIATION

Gupta & Co., 16, Khajuri Bazar, Indore.

INSTITUTE OF PLANT INDUSTRY

Old Residency Area, Indore.

Principal, College of Agriculture, Indore: H. P. Dwivedi.

INSTITUTION OF ENGINEERS (INDIA)

C/o Govt. Engg. College, Jabalpur.

JABALPUR PRESS OWNERS' ASSOCIATION

468, Marhatal, Jabalpur.

JIWAJI INDUSTRIAL RESEARCH LABORATORY

(M. P. Govt.)

Tansen Road, Gwalior.

Director: Dr. C. N. Haksar, M.Sc., Ph.D. (Bristol).

KASTURBA GANDHI NATIONAL MEMORIAL TRUST

Address:—P. O. Kasturbagram, Dist. Indore.

Aims and Objects:—Welfare of women and children in rural areas of India. The Trust trains women workers for educational, vocational and health programmes and after training deputes them to rural areas.

The Fund at present amounts to Rs. 85 lakhs which have been invested in Government Securities. The sources of income are:—Corpus of the original Trust Fund; Interest on Government Securities; Grant from the Gandhi Smarak Nidhi; from Central Social Welfare Board and subscriptions collected in States towards part of the expenses of the village centres.

The Trust at present runs about 250 village centres in pre-basic, basic, adult education and craft centres, maternity homes, leprosy relief centres, etc.

Besides running 16 training Centres in the States the Central Training Institute is located at Kasturbagram, five miles from Indore, where Social Education Organisers' Training, Gram Sevika Training, Pre-basic Teachers' Training, Home Science Wing and Midwifery Training are being conducted by the Trust.

The Trust had been the principal agency for training gram sevikas of the Central Social Welfare Board, who work in their welfare extension projects. The Trust had so far trained nearly 4,000 trainees of the Board.

Chairman: Mrs. Premlila Vithaldas Thackersey.

Vice-Chairman: Mrs. Rameshwari Nehru.

Secretary: Smt. V. Rajalakshmi.

MADHYA PRADESH CHAMBER OF COMMERCE AND INDUSTRY

"Chamber Bhavan", Dharma Mandir Road, Lashkar, Gwalior.

President, D. P. Mandelia.

Vice-President, G. G. Bansal.

Hony. Secretary, Shrikrishnadas Garg.

Hony. Jt. Secy., Kannomal Jain.

MADHYA PRADESH MILLOWNERS' ASSOCIATION

8, South Tukoganj, Street No. 1, Indore.

Chairman, Mahavirprasadji R. Morarka.

Vice-Chairman, Raja Bhadur Singhji.

Secretary, Dr. V. R. Trivedi, M.A., Ph.D.

MADHYA PRADESH STATE COUNCIL FOR CHILD WELFARE

Old Assembly ('F' Block) Building, Bhopal.

President: H. V. Pataskar (Governor of M. P.)

Hon. General Secretary: V. S. Krishnan.

MADHYA PRADESH WELFARE ASSOCIATION FOR THE BLIND

Shakti Eye Hospital, Jawahar Marg, Indore.

President, Chandansinghji Barkhatta; *Vice-President,* Dr. R. P. Dhanda; *Secretary,* M. V. Shirdhonkar.

MAHAKOSHAL CHAMBER OF COMMERCE

Jawaharganj, Jabalpur.

President: M. C. Jain.

Vice-Presidents: F. Jain; R. N. Chopra; *Secretary:* Rajendranath.

THE MALWA CHAMBER OF COMMERCE

57, Sitlamata Bazar, Indore City.

President, Seth Chandansinhji Bharkhatia; *Vice-President,* Seth Radhakishanji Muchhal; *Honorary Secretary,* Muntazim Bahadur Seth Chhaganlalji Mital; *Honorary Jt. Secretary,* Seth Laxminarayanji Jhaveri.

MASIHI SEVA MANDAL

Malwa Church Council.

The Masihi Seva Mandal works under the auspices of the Malwa Church Council of the United Church of Northern India.

Secretary and Executive Officer, Rev. I. Khimla, United Church of Northern India, Ratlam.

Treasurer, Prof. C. W. David, Indore Christian College, Indore.

RAIPUR CHAMBER OF COMMERCE & INDUSTRIES

Sadar Bazar, Raipur.

SCINDIA ORIENTAL INSTITUTE

University Road, Ujjain.

Owns a manuscripts library containing over ten thousand ancient manuscripts, besides a rich reference library of printed volumes and journals on Indology. Also publishes a research journal and has hitherto published critical editions of 10 ancient works. The Institute is now managed by the Vikram University of Ujjain.

Curator: Prof. S. L. Katre, M.A.

SHANKAR GANDHARV MAHAVIDYALAYA

(Music College).

Hujarat Road, Lashkar, Gwalior.

Principal: Sangeetratnalankar Dr. Krishnarao Shankar Pandit (Winner of President's Award); *President:* P. S. Apte.

TOBACCO & BIDI MERCHANTS' ASSOCIATION

Saugar.

President: Chintaman Rao; *Treasurer:* Manibhai Patel; *Secretary:* S. R. Shrivastava.

THE TRIBAL RESEARCH INSTITUTE

Chhindwara.

Director, Dr. K. M. Bhouraskar.

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MADRAS STATE

Area: 50,111·81*† sq. miles; Population: 33,650,917 (1961 Census) (Provisional) (males 16,915,454; females 16,735,463). Percentage of increase 1951-61: 11·73. Density per sq. mile 671. Literacy 30·22 per cent—males 42·98 per cent; females 17·32 per cent.

Capital: Madras.

Districts with District headquarters in brackets: Madras (Madras), Chingleput (Saidapet), South Arcot (Cuddalore), Tanjore (Tanjore), Madurai (Madurai), Ramanathapuram (Tallakulam, at Madurai), Tirunelveli (Tirunelveli), North Arcot (Vellore), Salem (Salem), Tiruchirapalli (Tiruchirapalli), Coimbatore (Coimbatore), Nilgiris (Ootacamund), Kanyakumari (Nagercoil).

The Andhra-Madras (Alteration of Boundaries) Act 1959, drafted on the basis of the proposals made in the Pataskar Award, came into force on April 1, 1960.

Under the provisions of the Act, 319 villages of Tiruttani, Chittoor and Puttur talukas of Andhra, covering an area of 405 square miles and with a population of 240,000 (158,000 Tamilians and 77,200 Andhras), were transferred to Madras State.

One hundred and fifty-one villages in Tiruvallur, Ponneri and Hosur talukas of Madras State, covering an area of 326 square miles and with a population of 95,546 (61,500 Andhras and 31,990 Tamilians) were transferred to Andhra Pradesh.

Languages spoken: Tamil, Malayalam, Telugu. The vast majority of the people is of the Dravidian race.

Panchayats Act: The Madras Panchayats Act provides for the establishment of panchayats at village/town level and panchayat unions at the block level. The District Development Councils Bill, which has been passed by the Legislature, provides for the establishment of Development Councils at the district level. The panchayat unions will be coordinating, supervisory and executive bodies, while the roles of the Development Council will be only advisory and supervisory.

The Act estimates the expenditure of new local bodies at Rs. 6 per head of the population per annum.

While the panchayat unions are in formation the District Boards will be administered by Collectors who are called Special Officers for this purpose.

The first batch of 75 panchayat unions was inaugurated on 2nd Oct., 1960. The second batch was to be constituted on 14th April, 1961 and the third one was scheduled in Oct. 1961.

Tamil has been introduced as official language in many Government Offices in the State from January 1, 1958, in pursuance of State Official Languages Act, passed by the last Assembly in December 1956, calling for the progressive introduction of Tamil as State's official language.

Tamil was to be made the official language at district level by the end of the Second Plan.

Government have also decided that Tamil will be the medium of instruction at the college level from the academic year 1963-64.

The Madras Government has passed orders raising the pay scales of a large section of its employees on the recommendation of its Pay Commission from June 1960.

BUDGET (1961-62)

(*See 'Late Particulars'*)

POPULATION

For full details about Population (1961 census) see "Late Particulars".

INDUSTRIES

Chief Industries in this State are Textiles, General and Electrical Engineering, Sugar, Cement, Tobacco including bidis and cigar manufacture, bricks and tiles, tanning, glassware, chemicals, bicycles, leather and footwear and manufacture of utensils.

There were 124 cotton spinning and weaving mills at the end of 1958 (73 mills in Coimbatore District; 21 in Madurai District, 10 in Tiruchirapalli District and 12 in Tirunelveli District). One mill in Madras City is one of the biggest in the country employing 13,727 workers. Another large mill in the State is in Madurai, which employs 12,341 workers. The largest employer of labour in the State is the Textile Industry.

On Aug. 31, 1960, there were 136 mills.

The production of yarn and cloth for sale for civil consumption during the year 1958 in the State was 2,376 lakh lbs. and 419 lakh lbs. respectively, valued at Rs. 73·71 crores. The number of spindles as on Aug. 31, 1960 was 31,99,952 and number of looms was 7,853. Average number of workers employed (all shifts) was 1,01,498 and the approximate quantity of cotton consumed 32,99,226 cwts.

Handloom: 1959-60: Number of looms registered in the State: 4·62 lakhs.

Number of weavers within the co-operative fold as on April 1, 1960: 2,04,288.

There were 981 weavers' cooperative societies in 1958 with 1·85 lakh looms representing 40 per cent of the looms in the State. These co-operatives together produced cloth worth Rs. 938 lakhs and sales amounted to Rs. 1,098·28 lakhs.

Sugar:—There are five sugar factories in the State including the newly installed one at Pettaivayatalai, Tiruchi District. These factories have a daily crushing capacity of 5,100 tons. During 1958-59 season 68,246 tons of sugar was produced by the five factories. The factory constructed at Amaravathy in Coimbatore district has started production.

Arrangements had been made for expanding the capacity of the sugar industry to about two lakh tons of fine sugar a year.

The new sugar mills on co-operative basis in Chingleput and North Arcot districts are under construction.

Total crushing capacity: 2,500 tons.

Five more are to be established at Lalgudy (Trichy), Namakkal (Salem), Samayanallur (Madurai), Thanjavur and Tirunelveli.

Cement:—There are three cement factories in the State. The installed capacity of these factories at the end of April 1958 was 7,43,178 tons. Actual production in 1959 was 8,92,987 metric tons.

Cycles:—There are seven bicycle factories in the State. The Factory at Ambathur near Madras with an installed capacity of 2 lakh bicycles a year is one of the four biggest factories in the country. The expansion scheme of T. I. Cycles to increase their production to three lakh cycles per annum has been finalised. The State produced 2,11,000 cycles in 1959.

Raw Film Factory: A site had been selected at Ootacamund for the setting up of a factory for producing photographic raw films. The Government of India had formed a company named the Hindustan Photo Films Manufacturing Company to establish and run the factory. Preliminary arrangements in this connection had been taken in hand.

The factory was being set up with French collaboration.

Matches:—There are nearly 100 match factories using power and also not using power. The number of workers employed in the 23 power factories in 1959 was about 6,869. The production of matches in these factories during that year was 12·1 million gross boxes.

Paper Mill: Steps were being taken to set up a paper mill near Cauvery railway station in Tiruchengode taluka, Salem District., in the private sector.

The authorised capital was Rs. 10 crores and the issued capital Rs. 3·5 crores, of which the contribution of the Madras Industrial Investment Corporation would be Rs. 1 crore.

The factory was expected to go into production in about two years' time. The factory, which would have a production capacity of 20,000 tons a year, would for the present manufacture only writing paper and not newsprint.

Steel Rolling Mill: Provision had been made for a steel rolling mill, with a capacity of about 20,000 tons per year.

In the industrial sphere, the integrated Neyveli project would greatly assist the establishment of a pig-iron plant in Salem.

Work had already begun on a teleprinter and surgical instruments plants in Madras.

Tanneries:—There are nearly 300 tanneries in the State and most of them are non-power tanneries. The number of persons employed in the tannery using power in 1957 was 5,703. Value of exports of tanned hides and skins to overseas markets in 1959 was Rs. 20·69 crores.

Magnesite, bauxite and iron ores occur in Salem District. The Government have encouraged the setting up of pilot pig iron plants in the private sector to utilise the iron ore and a pig iron plant has already switched into production at Coimbatore.

Magnetite and titanium deposits have been located in the Nilgiris District by the State Geographical Survey Unit.

The availability of bauxite deposits has encouraged the setting up of an aluminium plant at Mettur and tests on this ore are being conducted. The following are the important minerals with their output during 1957-58 as shown within brackets: Limestone (10,78,907 tons); Gypsum (67,225 tons), Magnesite (87,724 tons) and Bauxite (2,807 tons).

Ilmenite and Monazite deposits are being exploited in Kanyakumari District.

There is an Industrial Investment Corporation in Madras.

Main cottage industries: metals, leather goods manufacture, silk worms rearing, brass and bronze metal ware, conch shell.

The National Industrial Development Corporation was expected to set up an iron smelting plant in Salem utilising local ore. A new paper mill has been licensed at Papanasam. Work on the Rs. 4 crore Government of India printing press located halfway between Coimbatore and Mettupalayam was expected to be taken up in 1958. The Rs. 5 crore raw film production unit is to be set up in Nilgiris by 1961.

Dunlop has started a Rs. 2·5 crore tyre factory at Ambathur with an installed capacity of 1·5 mln. cycle tyres and 134,000 giant truck tyres. In Feb. 1959 an English Electrical company started at Pallavaram near Madras a switch and switchgear manufacturing plant to meet 20 per cent of the nation's needs.

Licences have been granted for the establishment of a number of units for the manufacture of electric motors, power-driven pumps, electrical distribution transformers and switchgear. The Government have given assistance to small-scale business men.

In the private sector, a plant for the manufacture of rayon and staple fibre yarn has been licensed and the sponsors have succeeded in securing substantial financial assistance from Italy.

* Population and area have changed slightly with the putting into force of the Andhra-Madras Alteration of Boundaries Act on April 1, 1960.

† There is a slight discrepancy between this figure and the Central Govt. figure.

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In Tirunelveli a new caustic soda factory has been set up in the private sector. The new plant at Avadi for the manufacture of steel tubes commenced production early in 1957.

Preliminary works in connection with the setting up of a sheet glass factory in the private sector have been completed and experts from Belgium have arrived to finalise the project.

The Russian experts who visited India in 1958 in connection with the setting up of a Drug Project in the public sector, have submitted their report. Necessary survey including the selection of site for setting up the plant has been completed.

The Government of India has decided to locate the proposed plant for the manufacture of tanks at Avadi near Madras. Negotiations are in progress with British and German firms regarding collaboration in the project (June 1961).

The Integrated Lignite Project at Neyveli in North Arcot Dist. will be the centre of a big industrial area.

(See under 'Government Industrial Undertakings').

AGRICULTURE

The figures are for 1959-60.

Total area cultivated (gross area): 17·15 mln. acres.

Total area irrigated (net area): 5·5 mln. acres.

Net area sown and its percentage to the total area: 13·91 million acres and 43·7 per cent.

Classification of area.	Area in acres.	Percentage to total area.
Forests	4,391,308	13·7
Barren and unculturable land	2,453,607	7·7
Land put to non-agricultural uses.. ..	3,090,270	9·6
Cultivable waste ..	2,179,120	6·8
Permanent pastures and other grazing lands..	935,541	2·9
Land under miscellaneous trees, crops and groves not included in the net area sown	675,360	2·1
Current fallows ..	2,592,549	8·1
Other fallow lands ..	1,717,222	5·4
Net area sown ..	13,989,261	43·7
Total area according to village papers ..	32,020,484	100·0

Statement showing the area under important food crops and the yield in 1959-60.

Crops	Area in acres	Yield in tons
Paddy	5,726,000	5,346,000
Millets	5,625,400	1,551,800
Pulses	887,000	97,000
Sugarcane.. ..	144,600	408,540
Potatoes‡.. ..	21,250	63,680
Sweet Potatoes‡..	9,280	36,340
Tapioca‡	36,320	148,900

‡ 1958-59 figures.

The principal commercial crops of the State in order of the acreage under cultivation in 1959-60 were as follows:

Crops	Area in acres	Yield in tons
Groundnut ·	1,856,000	898,000 (in shell)
Cotton* ..	1,129,000	401,400 (Bales of 392 lb. lint).
Gingelly ..	337,800	43,900
Coconut ..	162,100	715,728 (nuts)
Tobacco† ..	38,600	221,300 (cured leaf)
Coffee ..	45,920	2,960 (tons)
Pepper ..	540	40

* The production of long staple cotton in 1959-60 formed 92·77 per cent of the total cotton production in the State. † Area under tobacco has been going down since 1953-54. In 1959-60 it was 4·9 per cent lower than that of 1953-54.

Yield in 1959-60: 36·56 lakh tons in terms of rice.

Production of foodgrains in Madras State in 1959-60: 52 lakh tons.

Bananas, mangoes and citrus are the most important fruit crops of the State. The average area for three years ended 1958-59 under bananas was 74,500 acres with an yield of 531,080 tons; under mangoes 62,000 acres yielding 215,000 tons; under citrus fruits 10,560 acres yielding 27,510 tons.

Total forest area: 8,600 Sq. miles.

Fisheries:

Total quantity of fish produced (Marine and inland 1959-60): 155,750 tons.

The estimated marine fish landings for the State (1959-60): 87,750 tons.

ZAMINDARI ABOLITION

The Estates Abolition Act provides for the repeal of the Permanent Settlement and for the acquisition of the rights of land-holders in certain estates in the State by payment of equitable compensation to the several persons having interest in the estates and for the introduction of the ryotwari settlement in them.

Upto the end of June 1960, 4,736 estates had been taken over and only 13 estates remained to be taken over. The total compensation amount payable in respect of the estates taken over is about Rs. 5·12 crores, of which about Rs. 2·78 crores had been paid upto the end of June 1958.

A comprehensive agrarian legislation limiting the extent of land-holdings of a family consisting of not more than five members to 30 standard acres was introduced in the State Assembly on April 6, 1960.

The Bill allows an additional five acres for every member of a family having more than five members.

The Bill also provides for relaxing the limit to the extent of an additional 10 standard acres in case of a holding acquired by a female member of the family as dowry.

The Bill prescribes a ceiling of 200 standard acres in respect of lands held by religious or charitable trusts.

Further acquisitions also are limited to 30 standard acres.

Lands held by the Central or State Government, any local authority, university or co-operative society, lands in the hill area, all plantations, lands used for the cultivation of sugarcane, etc., are exempted from the purview of the Bill.

IRRIGATION

Total land area	: 32·99 million acres.
Cultivated area	: 14·03 million acres.
a) Total area irrigated	: 5·00 million acres.
b) Total area which was expected to be irrigated at the end of the First Five-Year Plan	: 4·8 million acres.
c) Total area which was expected to be irrigated when the projects under the Second Plan were completed	: 4·95 million acres.
d) Anticipated extra food production at the end of the Second Plan	: 90,000 tons of food grains and 1·5 lakh bales of cotton and 70 lakh tons of oilseeds.
e) Anticipated extra food production on completion of all irrigation projects	: 200,000 tons of foodgrains and 1·5 lakh bales of cotton.
f) Total investment	: Rs. 3,705·57 lakhs

Number of major projects: 11 (excluding those completed in first Plan).

Name of Project	Date begun	Date for Completion	Estimated cost in Rs. lakhs	Area to be benefited (acres)
Lower Bhavani Reservoir Project (Coimbatore and Tiruchirapalli Districts)	January 1949	1955-56†	951	207,000
Mettur Canals Scheme (Salem and Coimbatore Districts)	June 1949	March 1957†	183·0 (revised)	45,000 (half wet and half dry)
Cauvery Delta Drainage Scheme	1945-46	1956-57	30	—
Manimuthar Reservoir Project (Tirunelveli Dist.) ..	November 1950	December 1957§	505	20,000 dry converted into wet.
Araniar Reservoir (Chingleput Dist.)	July 1951	December 1956†	104	83,000 existing. 3,000 new 11,000 existing ayacut (gross).
Amaravathi Reservoir (Coimbatore Dist.)	1954	September 1957†	310	21,000 half wet and half dry. 32,000 existing.
Vaigai Reservoir (Madurai Dist.)	April 1954	December 1958†	330	13,000 dry to wet. 7,000 existing.
Sathanur Reservoir Project (North and South Arcot) ..	October 1954	September 1957†	289	16,700 dry to wet. 3,300 existing.
Krishnagiri Reservoir (Salem Dist.)	December 1954	September 1957†	202	6,540 new, 2,460 existing.
New Kattalai High Level Canal Scheme	Aug. 1957	September 1959†	130	8,622 dry new lands, 12,000 acres existing.
Pullambadi Canal Scheme	Aug. 1957	September 1959†	142	22,114 acres.
Vidur Reservoir Project	Dec. 1957	December 1959†	61	3,200 acres.
Neyyar II Stage	July 1958	—	105 (Madras share 98)	10,000 acres
Parambikulam Irrigation-cum-Electricity Project ..	Nov. 1958	—	2,300	2·5 lakhs acres.

§ Commissioned in January 1958. † Completed.

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Extra production of foodgrains on completion of projects: Mettur Canals Scheme—10,000 tons rice; 7,500 tons millets; Manimuthar Project—20,000 tons rice; Aaniar Reservoir Projects—5,000 tons rice; Amaravathi Reservoir Project—5,500 tons rice and 2,150 tons millet; Vaigai Reservoir Project—7,500 tons rice; Sathanur Reservoir Project—8,000 tons rice; Lower Bhavani Project—33,000 tons rice. Also 14,700 tons of cotton; Krishnagiri Reservoir —2,855 tons rice.

The Neyyar Dam, a Kerala-Madras project and situated about 19 miles south of Trivandrum was inaugurated on February 9, 1959. This will irrigate 36,000 acres and will produce 20,000 tons of rice more annually. The dam will cost Rs. 240 lakhs and will be completed in 1961.

Of the area to be irrigated 9,000 acres are now in Madras State.

The Minor Irrigation Programme for the State comprises four categories of work with a total provision of Rs. 338 lakhs in the Second Plan. During the 2nd Plan period 749 irrigation tanks and small schemes have been completed besides sinking 1,114 filter point wells. Additional food production through these schemes works out to 60,000 tons.

Total irrigation potential created upto March 1958: 4,40,302 acres.

Total area irrigated as a result of this newly created potential upto March 1958: 3,83,602 acres.

Percentage of utilisation at the end of March 1958: 87.

1959:—

MINOR IRRIGATION

Name of the Scheme	No. of works	Programmed expenditure in lakhs	Actual expenditure in lakhs	Area to be benefited (acres)
Special Minor Irrigation Programme works†	436	121·24	35·22	12,405
Desilting-cum-reclamation of irrigation tanks	–	5·94	6·60*	–

† Against a total number of 998 works taken up for execution, 436 works were completed during the year.

* Represents cost of machinery purchased.

ELECTRIC POWER

Total installed capacity: 4,32,268 kW (July 1960).

Total production: 1,903 million units (July 1960).

Madras has built up an electricity grid extending to almost all the districts and rural areas. In fact, Madras leads the rest of India in rural electrification especially for agricultural purposes. In 1960 alone 1,400 villages were connected with electricity bringing the total number of electrified villages to 10,000. Among the new connections reported for 1960 were 19,000 for agricultural purposes, 1,568 for industrial purposes, 42,961 domestic and 3,028 street lights.

Power Grid: The grid comprises seven hydro-electric Power Houses at Pykara, Moyar, Mettur, Papanasam, Periyar, Kundah and two Thermal Power Houses at Madras and Madurai with the total installed capacity of 5,01,700 kW, 14,713 miles of high tension transmission lines of voltages varying from 11,000 to 1,10,100, 20,975 miles of low tension distribution lines and 60 EHT and 65 HT sub-station and 9,000 distribution stations.

In 1960-61, two more hydro sets of the Kundah Hydel project began to spin and raised the installed capacity of the State power grid from 3,21,500 kW to 5,01,700 kW. The power demand which stood at 3,90,250 kW in 1959 rose to 4,90,250 in 1960. The total power output of the system registered 25 per cent increase from 1,431·2 million units in 1958 to 1,787·7 million units in 1959. There was no power cut in 1960 as seasonal conditions were favourable.

The total capital investment to the end of 1960 is Rs. 123 crores and the gross revenue earned during 1959 was Rs. 15·43 crores.

The Mettur Dam is 176 feet high and can impound a total of 93,500 m.c. ft. of water mainly for irrigation purposes. Part of this water is utilised for the generation of hydro-electric power. Power is generated at 11,000 volts, 50 cycles, 3 phase and stepped upto 110,000 volts for transmission to various load centres.

At Erode the Mettur System is linked with the Pykara network. Power is transmitted to Singarapet in the north and Erode in the south (a total of 100 miles) taking off from the power station.

Second Five Year Plan: The power schemes for the Madras State included in the Second Five Year Plan are estimated to cost Rs. 53·25 crores. This period was to be confined to the construction of 3 new power plants, two at Kundah and one at Periyar and extensions to the existing thermal station at Madras. With the completion of these schemes, the installed capacity will be more than doubled. It was also proposed to erect about 8,200 miles of Extra High Tension and 8,000 miles of Low Tension lines during the period to extend supply to about 1,000 villages and 10,000 pumpsets per annum.

Two thousand five hundred villages were to be electrified in the State during the Second Plan. A sum of Rs. 14·88 crores had been set apart for this purpose.

Periyar Hydro-Electric Scheme: The Periyar Hydro-Electric Scheme, estimated to cost Rs. 10·09 crores will add 105,000 kW of installed capacity on completion of the scheme. The first unit of 35,000 kW. about 80 miles from Madura at the foot of Periyar Hills on Kerala border, was commissioned on October 12, 1958.

Madras Plant Extensions: Erection of the two Nos. 150,000 lbs./hr. boilers and one No. 30,000 kW turbo-set was completed and the set commissioned on April 26, 1958.

Kundah Hydro-Electric Scheme: Works in respect of Kundah Hydro Electric Scheme, the sixth and the biggest Hydro Electric Scheme so far undertaken by the Madras Government were in progress. The scheme is estimated to cost Rs. 35·44 crores. The first power house with a 40,000 kW. capacity was commissioned on March 25, 1960. The second power house capable of generating 70,000 kW. was commissioned on 18th Jan., 1961.

This scheme gets aid under the Colombo Plan from the Canadian Government to the tune of 25 million dollars by way of machinery and materials.

Work on the Rs. 32 crore Parambikulam-Aliyar Project is in full swing. (March 1960.) This project will have seven reservoirs five of which will be on the Anamallai Hills and two in the plains interconnected by 12½ miles of tunnels. The scheme will be commissioned in stages as and when the reservoirs and canals are completed. The project will irrigate 250,000 acres of the District. The estimated value of grains produced annually will be Rs. 5·34 crores. Electric power to the tune of 125 mW will also be developed utilising two drops in the canal systems.

A Rs. 10 crore rayon factory manufacturing rayon yarn, staple fibre, sulphuric acid and carbon disulphide, situated about 28 miles from Coimbatore along the Bhavani river, was expected to go into production by the end of 1960. It is an Indo-Italian venture, the machinery worth about six crores of rupees being supplied by Italian industrialists on a deferred payment system.

TRANSPORT

Total mileage of roads as on 31st March 1960: 41,744.

Different classes of roads and the mileage of each class: National Highways (1,142 miles); State Highways (2,820 miles); Major District Roads (10,400 miles); Other District Roads (5,425 miles): Village Roads (12,424 miles); Public Works Department Roads (1,044 miles); Municipal Roads (3,874 miles).

Types of roads and their mileage: Cement Concrete surfacing (4,243 miles); Black Top surfacing (6,044 miles); Metalled roads (18,362 miles); Unmetalled roads (10,416·7 miles).

Links of National Highways within towns having a population of 20,000 are maintained entirely from State Funds.

The Bus Transport in Madras City is Government owned. The transfer to public ownership was carried out in stages starting in October 1947 and ending in June 1948.

Position as in Jan., 1961:

Number of routes served by the Department: 115 out of which 72 are regular routes and the rest peak-hour routes operated during peak hours only.

Total daily mileage: 44,750.

Number of suburban routes: 17.

Number of long distance routes: 15. (district routes)

The mofussil services (District services) operate from Madras to Kancheepuram, Madras to Tirupathi, Madras to Venkatagiri, Madras to Salem, Madras to Trichy, Madras to Tanjore and Trichy to Nagercoil.

The total number of buses operated by the Government: 544.

The Madras-Bangalore service via Hosur and Krishnagiri was added in 1959 to the list of routes operated by the Government State Transport.

CO-OPERATION

Number of co-operative societies on 31st Mar. 1960: 15,463. Members: 30,94,420 (30-6-1959).

Share capital: Rs. 1,979·10 lakhs.

Working capital: Rs. 116·42 lakhs.

Total deposits held by the State Co-operative Bank on 30th June 1960: Rs. 621·16 lakhs.

Total loans issued to Central Banks in 1960: Rs. 1,415·45 lakhs.

Working capital of the co-operative central banks: Rs. 2,020·24 lakhs.

Their net profits: Rs. 15·11 lakhs.

Number of primary co-operative stores on 30th June 1959: 494 with 235 branches and sales depots and 13 co-operative wholesale stores.

The sales turnover of both primary and wholesale stores: Rs. 1,225·93. lakhs.

EDUCATION

The figures* given below are for 1958-59 unless otherwise stated.

General Education:

Elementary Schools: 26,300. Enrolment: 33·50 lakhs.

Basic Schools: 3,142 (2,841). Enrolment: 3·0 (2·6) lakh boys and 1·9 (1·6) lakh girls.

Secondary Schools: 1,304 for boys and for girls. Indian secondary schools: 952 (939) for boys and 173 (170) for girls. Enrolment in Indian secondary schools: 6·65 lakh boys and girls.

* Figures within brackets refer to 1957-58.

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Post-Basic schools: 2 for boys and one for girls. Enrolment: 119 (122) boys and 99 (91) girls.

University and Collegiate Education:

The medium of instruction in colleges is English. The Government have decided to substitute Tamil as the medium from 1963-64.

Universities: 2. Enrolment: 3,685 (3,403) composed of 3,396 men and 289 women.

Colleges: 57 colleges for men of which nine were Honours, 52 first grade and 5 second grade. Enrolment in the various university classes was 46,099 men and 9,007 women.

Training Colleges: 12 colleges for men and 4 colleges for women. Enrolment: 702 (725) men and 327 (301) women.

Training schools—ordinary: 17 (21) training schools for men and 16 (20) for women. Enrolment 1,864 (2,210) men and 2,079 (2,356) women.

Training schools—basic: 67 (64) training schools for men and 38 (34) training schools for women. Enrolment: 8,663 (7,949) men and 4,711 (4,178) women.

Training of teachers for pre-primary education: 4 (4) institutions for training. Enrolment: 278 (257) women.

Training of physical education: institutions: 3. Enrolment 440 (464) men and 123 (101) women.

Training of Music Teachers: 2 colleges—1) The Teachers' College of Music, Royapettah. 24 (23) underwent training. 2) The Central College of Karnataka Music, Madras. Enrolment: 67 (36 in the 1st year and 31 in the 2nd year).

Technical Teachers' Training: 30 (21) men for wood-work and 11(18) women for weaving.

Professional and technical education:

Medical Colleges (allopathic): 4. Enrolment: 2,252 (2,162) men and 681 (605) women.

Veterinary College: 1. Enrolment: 446 (410) men and 7 (3) women.

Agricultural College: 1. Enrolment: 491 (420) men and 19 (15) women.

Forest College: 1. Enrolment: 179 (168) men. Engineering and Technology: 7 excluding Annamalai University. Enrolment including the Engineering Faculty of Annamalai University and the Technology Faculty of Madras University: 4,388 (3,435) men and 4 (3) women.

Law: 1. Enrolment: 1,125 (1,049) men and 18 (14) women.

Industrial Schools: 52 (53) for men and one for women. Enrolment: 4,404 (3,710) boys and 216 (244) girls.

Polytechnics: 21 excluding Annamalai University. Enrolment: 5,600 students.

Schools for Arts and Crafts: 15 centres. Enrolment: 814 girls and 10 boys.

Schools for Fine Arts: 3. Enrolment: 389 (419) men and 10 (45) women.

Commerce: 367 (350) commercial schools. Enrolment: 23,160 (22,410) men and 4,647 (3,916) women.

Social Education:

Social (Adult) Schools: 1,422 (1,529). Enrolment: 35,131 (37,860) men and 6,442 (5,672) women.

Other types of education:

Pre-primary: 28 (29) pre-primary schools. Enrolment: 1,113 (1,063) boys and 1,004 (942) girls.

Music: Enrolment: 26 (48) men and 135 (168) women.

Oriental Education: 15 Oriental Colleges. Enrolment: 1,345 men and 104 women; 12 Oriental Schools. Enrolment: 526 (457) boys and 182 (191) girls.

Education of the Handicapped: 13 (12) institutions. Enrolment: 1,009 (887) boys and 474 (465) girls.

Education of Anglo-Indians: 46 schools consisting of 33 high schools, 8 middle schools, 4 primary schools and one training school. Enrolment: 9,249 (8,642) boys and 8,149 (7,745) girls.

Miscellaneous:

Audio-visual education: 496 (495) schools equipped with 16 mm. projectors and 527 (495) schools equipped with 35 mm. filmstrip projectors, 638 (624) secondary schools equipped with radio receiving sets.

Under the Unemployment Relief Scheme, the Government of India allotted to Madras State 900 teachers, 18 inspecting officers and 72 quarters for women teachers in rural areas. 881 schools were opened. Against the 2nd Five Year Plan target of 1,735 additional classes 2,502 were actually opened.

No. of centres under the Mid-day Meals Scheme: 21,347. No. of pupils fed in these centres: 10 lakhs. Expenditure on the scheme during the year 1960-61: Rs. 60 lakhs.

No. of secondary schools in which the scheme was functioning on a purely voluntary basis: 750.

No. of pupils fed in these schools: 19,256.

Revision of syllabuses: According to the recommendations of the Legislative Committee on White Paper on Education, syllabuses for elementary schools and secondary and higher schools were revised to provide for a 7 year Integrated course of Elementary Education followed by a 4-year course of secondary education leading to the degree classes of the University. The new syllabus has been introduced in the first 3 classes of all non-basic elementary schools and primary standards of secondary schools. A committee is going into the question of revising the syllabus relating to the oriental schools.

Budget estimates of the Department for 1959-60: Rs. 15·07 crores.

The Madras Govt. has decided to continue special grants to Anglo-Indian schools for another three years from 1961.

THE CORPORATION

Ripon Buildings,

Madras 3.

Mayor, V. Munuswamy.

Dy. Mayor, A. Selvaraj.

Commissioner, R. Balasubramanian, I.A.S.

Dy. Commissioner and Educational Officer, N. Sankaran, M.A., L.T.

Revenue Officer, T. Thirugnanam, M.A.

Health Officer, Dr. B. V. Sundarababu, M.B.B.S., D.P.H. (Calcutta).

Engineer, Mohideen Meeran, B.E., M.I.E.Struct.E., A.M.I.E. (Ind.), Am.Soc.C.E.

Special Engineer, N. Bhaskaran, B.E., A.M.I.E.

Electrical Engineer, P. Balasubramaniam, B.A., B.E., A.M.I.E.

Water Works Engineer, O. T. Raghavan, B.A., B.E., C.E. (Hons.), A.M.I.E.

Chief Accounts Officer, K. Krishnan Nair, B.A.

Mechanical Engineer and Conservancy Officer, T. V. Rangaswamy, B.E., M.E. (Hons.), A.M.I.E.

Lady Superintendent, Child Welfare Scheme, Dr. Mrs. V. S. Krishnaswamy, M.B.B.S., D.M.C.W. (Cal.), C.P.H. (Lond.).

Secretary to the Council, C. Venkatarama Reddy, B.A., B.L.

Chairman, Taxation Appeal Committee, M. Murugesa Mudaliar, B.A., B.L.

MEMBERS OF THE CORPORATION COUNCIL

Total number of members: 100.

Total electorate: 9,40,195; Total votes polled in the 1959 elections: 4,31,847; Percentage: 45·93.

Party position in the Corporation Council: Dravida Munnetra Kazhagam 43; Congress Municipal Front 37; Municipal Welfare Front 9; Communists and Independent Group 5; City Front 5; Muslim League 1.

Names of the members of the Corporation Council showing within brackets the names of the divisions they represent, in the strict order from 1 to 100.

G. Kannan (New Washermanpet); M. Vedachalam (Tondiarpet); M. Varadappa Naicker (Grace Garden); N. Thiruvengada Naicker (Sanjeeviroyanpet); S. G. Vinayagamurthy (Mottai Garden); G. Nagarajan (Narayanappa Naick Garden); G. Rajarathinam (Singara Garden); N. Jeevarathinam (Royapuram); S. Thiagarajan (Meenakshiammenpet); T. Govindasamy (Old Washermanpet); V. Munuswamy (Seven Wells/North); G. Rajamannar (Ammen Koil/North); A. Selvaraj (Muthialpet); A. K. A. Abdus Samad (Harbour); K. Kuppuswami (Mannady); K. Sultan Mohideen (Ammen Koil/South); T. Damothara Mudaliar (Seven Wells/South); B. Krishnamoorthy (Sowcarpet); S. C. V. Gopal (Kothwalchavadi); M. S. Samkandam (Kachaleeswarar); Dr. P. Srinivasan (Korukkupet); V. D. Selva Pillai (Kumaraswami Nagar); P. Karuppannan (Dr. Vijyaraghavalu Nagar); G. Kuchelar (Basin Bridge); A. Venkatesan (Kondithope); C. R. Balasundaram (Peddunaickenpet); M. R. Kannan (Perumal Koil Garden); M. K. Nagendran (Trevelyan Basin); E. Narayana Pillai (Elephant Gate); R. Sivasankar Metha (Edapalayam); M. A. Muthukrishnan (Perambur); S. A. D. Velu (Vyasarpady); N. Jagatheesan (Pulianthope); M. V. Elumalai Naicker (Wadia Nagar); K. A. Nagalingam (Thiru-Vi-Ka Nagar); S. Balan (Pattalam); M. Varadarajulu (Thattankulam); T. S. Nallathambi (Dr. Besant Nagar); T. Krishnamoorthy (Choolai); P. E. Rubalingam Chetty (Hospital Maidan); C. Damodaran (Sembiam); T. Andiappan (Siruvallur); N. Jambulingam (Agaram); S. R. Krishnamurthy (Naga Ammaiyar Nagar); B. E. Bakthavachalam (Ayanavaram); T. S. Govindaswamy (Nammalsarpet); T. P. Ranganathan (Otteri); K. Varadan (Kosapet); T. K. Daivasigamani (Perumalpet); V. S. Govindarajan (Purasawalkam); N. S. Devarajan (Shenoy Nagar); Smt. T. Indrani (Kilpauk); K. Murugesan (Chetput); P. Sivasankaran (Nungambakkam); R. Sambantham (Sevagram); G. Krishnan (Thousand Lights/West); G. Subramani (Thousand Lights/East); C. Chitti Babu (Pudupakkam); T. N. Krishnan (Amrimahal); G. Elavarasu (Royapettah); A. Kannan (Gangadareeswarar Koil); S. Kabali (Dr. Ambedker Nagar); K. Madanagopal (Periampet); P. C. Ramadas (Park Town); A. A. Kapalamoorthy (Adikesavapuram); T. Manivannan (Chintadripet); R. Nagarajan Egmore); M. S. Abdul Khader (Pudupet); K. Sampathu (Komaleeswaranpet); A. P. Arasu (Narasingapuram); Munaver Hussain (Nehru Nagar); Smt. Subhadra Mannulal (Thiruvatteeswaranpet); T. Doraikannu (Chepauk); Smt. Alamelu (Marina); P. T. Pakshi Rajagopalan(Triplicane); M. S. Sambandappa (Jam Bazaar); M. S. Abdul Rahim (Mirsahibpet); K. Parthasarathy (Azad Nagar); D. Jayaraman (Dhurgapuram); S. Thulukanam (Krishnampet); R. Kannappan (Teynampet); P. S. Chettiar (Vivekanandapuram); A. C. Thulasingam (Madhavaperumalpuram); K. Govindasami (Karaniswararpuram); T. Thambi Durai (Santhome); S. Padmanabhan (Mylapore); K. Subramania Iyer (Bheemannapet); T. M. Shanmugam (Alwarpet); T. K. Kapali (Raja Annamalaipuram); A. Kadirvelu (Adyar); A. S. Jesu Bathem (Aminjikarai); S. Ganesan (Vadapalani); S. Krishnamoorthy (Thyagaraya Nagar); R. Sadagopan (Sathyamurthy Nagar); Dr. K. Sourirajan (Rajaji Nagar); M. S. Subramaniyam (Kamaraja Nagar); M. A. Ponnuswamy Mudaliar (Saidapet/North); P. Kumaraswamy (Periapet); M. Gopal (Guindy); P. Annamalai (Saidapet/South).

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BUDGET ESTIMATES OF REVENUE, EXPENDITURE, GOVERNMENT GRANT, Etc., FOR 1960-61

	Rs. (lakhs)
Revenue	386·28
Expenditure	403·75

MADRAS INDUSTRIAL INVESTMENT CORPORATION LTD.

(*See under 'Corporations' in Late Particulars*).

COIMBATORE DISTRICT

Dt. Hqrs.: Coimbatore.

The Coimbatore District, next in importance to the City of Madras, has an area covering 6,024 square miles with a population of 3,154,296. It is one of the major districts in Tamil Nad. The Anamallais (elephant hills) which form part of the District in the south have large coffee and tea plantations covering 40,000 acres and employing 40,000 workers whose annual wage bill is nearly Rs. 3 crores. Some 35 million lbs. of tea and 1,000 tons of coffee are produced. There are also cardamom and cinchona plantations. The finest teak in India is produced on these hills.

After agreement with Kerala in sharing the waters of the west-flowing Parambikulam and Sholayar rivers, work on the Rs. 32-crore multi-purpose Parambikulam-Aliyar Project has been commenced. This project envisages the construction of 7 reservoirs—5 in the Anamallais, 2 in the plains and 12½ miles interconnecting tunnels. A special feature of the project is that all canals and distributaries will be concrete lined. The project will irrigate 250,000 acres and produce 100,000 kW. power.

Coimbatore, the District Headquarters, is the largest industrial city in Madras State. The district has 71 textile mills, 57 of which are spinning mills and the rest weaving mills. The spinning mills have a spindlage of 1,743,984 and weaving mills 3,171 looms. All the mills employ approximately 55,000 workers of whom 12,000 are women. There are also 60 ginning factories with an additional labour of about 10,000 and the city itself is officially called "the Manchester of South India." It is the largest textile manufacturing centre with ring and mule spindles totalling 1,566,846 producing on an average 27,000 bales of yarn monthly.

There are also a number of iron foundries, Coimbatore being the first in India to manufacture pump-sets for irrigation. A medium-sized blast furnace is in operation. An Associated Cement factory produces 1,500 tons a day.

A 22-lakh synthetic gem factory, the first of its kind in Asia, was opened in 1957. The factory which is an Indo-Swiss venture, hopes to meet the full demand for synthetic gems, which are now being imported, in a couple of years—producing in the first year alone gems valued at Rs. 20 lakhs.

The finishing part will be done at Tiruchirapalli and Jaipur by cottage industry groups.

OTHER INDUSTRIES

A Rs. 10-crore Indo-Italian venture, M/s. Viscose Ltd., manufacturing rayon-pulp, four miles from Mettupalayam, is expected to go into production during this year (1961).

Another Rs. ten-crore venture with Italian aid is an aluminium factory at Mettur.

At Udumal taluk, Rs. one-crore Amravati co-operative sugar factory went into production in 1960.

Two factories are engaged in the production of textile machinery and parts. The ultimate plan of the factories is to manufacture all modern equipments required for textile Industry.

Three factories in Coimbatore produce nut and plastic buttons.

The Central Govt. has a plan to build an industrial estate on the northern outskirts of the city.

The Regional Agricultural Research Institute caters to the needs of Madras, Kerala, Mysore and Andhra Pradesh and is open to 40 post-graduates. The institute awards the highest degrees of M.Sc. (Ag.) and Ph.D. to successful candidates.

Other specialised institutions are the Union Government's Sugarcane Breeding Institute, the Southern Herbarium of the Botanical Survey of India and the Regional Research Station of the Indian Council of Agricultural Research for cotton, millets and oilseeds.

A privately sponsored polytechnic, the Nachimuthu Industrial Institute, Pollachi, was opened in the year 1960.

Taluks with headquarters within brackets: Coimbatore Taluk (Coimbatore); Avanashi Taluk (Avanashi); Palladam Taluk (Tiruppur); Bhavani Taluk (Bhavani); Dharapuram Taluk (Dharapuram); Erode Taluk (Erode); Gobichettipalayam Taluk (Gobichettipalayam); Udumalpet Taluk (Udumalpet).

BANKS

The State Bank of India, Bank Road, Coimbatore; The Coimbatore Central Co-operative Bank Ltd., Bank Road, Coimbatore; The Central Bank of India Ltd., Variety Hall Road, Coimbatore; Bank of Baroda, Big Bazar Street, Coimbatore; Bank of Bikaner Ltd., Oppanakara Street, Coimbatore; Bank of India, Head Post Office Road, Coimbatore; Bank of Jaipur Ltd., Variety Hall Road, Coimbatore; Bank of Mysore Ltd., Oppanakara Street, Coimbatore; Thomasco Bank, Raja Street, Coimbatore; Coimbatore National Bank Ltd., Variety Hall Road, Coimbatore; The Canara Bank Ltd., Oppanakara Street, Coimbatore; The United Commercial Bank, Oppanakara Street, Coimbatore; Pandyan Bank Ltd., Oppanakara Street, Coimbatore; Indian Overseas Bank Ltd., Big Bazar Street, Coimbatore; Andhra Bank Ltd., Oppanakara Street, Coimbatore; South Indian Bank Ltd., Raja Street, Coimbatore; United Bank of India, Oppanakara Street, Coimbatore.

COMMERCIAL ASSOCIATIONS

The South Indian Millowners' Association, Race Course, Coimbatore, having a membership of 100 textile mills from all over South India; The Indian Chamber of Commerce, Post Box No. 200, Coimbatore.

The South Indian Textile Research Association, was inaugurated on Oct. 13, 1958 by Vice-President Dr. Radhakrishnan.

COLLEGES

The Agricultural College, Lawley Road, P.O., Coimbatore; The Forest College, Lawley Road, P.O., Coimbatore; The Government Arts College, Coimbatore; The College of Technology, Lawley Road, P.O., Coimbatore; Polytechnic, Avanashi Road, Coimbatore: Nirmala College for Women, Redfields, Coimbatore; P.S.G. College of Technology, Peelamedu, Coimbatore; The Coimbatore Institute of Technology, Peelamedu, Coimbatore; P.S.G. Arts College, Peelamedu, Coimbatore; The Coimbatore Training College for Women, Big Bazar Street, Coimbatore; The Indian Air Force College for training ground personnel.

The Avinashilingam Trust runs a Home Science College. The College has been granted affiliation for M.Sc. course in Home Science by the Madras University.

Under the Ramakrishna Mission a Teachers' College, a College of Rural Higher Education and a College of Physical Education are run at Perianaickanpalayam.

SOCIAL ORGANISATIONS

Y.M.C.A., Post Office Road, Coimbatore; Y.W.C.A., Avanashi Road, Coimbatore; Madras State Conference of Social Work, Race Course, Coimbatore; Guild of Service and Indian Red Cross Society, Opposite Sessions Court, Coimbatore; Inter-Collegiate Social Service League, Peelamedu P.O., Coimbatore.

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF MADRAS

This University, founded in 1857, was re-organized in 1923 as a Teaching and Residential University, and it continues to exercise control over the quality of the teaching given by its constituent and affiliated colleges. The Vice-Chancellor is a whole-time salaried officer. The authorities of the University include a Senate, Syndicate, Academic Council, Faculties and Boards of Studies.

Laboratories for research in Zoology, Botany, Physics, Geology, Organic Chemistry, Biochemistry, Physical Chemistry and Textile and Chemical Technology, are provided. There are also Departments of study and research in the following subjects: Anthropology, Indian History and Archaeology, Indian Economics, Indian Philosophy, Psychology, Mathematics, Statistics, Geography, Politics and Public Administration, Constitutional and International Law, Business Administration, Sanskrit, Tamil, Telugu, Kannada, Malayalam, Hindi, Arabic, Persian and Urdu, and Indian Music.

Degrees: B.A., M.A., M.Litt., Ph.D., D.Litt., B.L., M.L., LL.D., B.Sc., M.Sc., (by Exam.), M.Sc., Ph.D., D.Sc., B.E., M.Sc., Engg., B.Com., M.Com., B.Sc., (Ag.), M.Sc., (Ag.), B.V.Sc., M.V.Sc., M.B.B.S. M.D., M.S., B.S.Sc., B.Pharm., B.D.S., B.Sc., (Nursing), Bachelor of India Medicine (B.I.M.), B.Sc. (Tech.), B.T., M.Ed., B.Sc., Home Science, M.Sc., Home Science, B.Lit.Sc., M.Lit.Sc., B.Arch.

Diplomas: Gynaecology and Obstetrics, Venereology, Dermatology, Ophthalmology, Oto-Rhino-Laryngology, Radiology, Orthopaedics, Tuberculosis, Child Health, Clinical Pathology, Anaesthesia, Radio Therapy, Radio Diagnosis Archaeology, Anthropology, Modern European Languages (French and German), Journalism, Physical Education, Social Service, Analytical Chemistry, Horticulture, Economics, Politics and Public Administration, Indian Music, Co-operation, Statistics, Geography and Business Management, Criminology and Forensic Science.

Oriental Titles: Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Adib-i-Fazil, Tabib-i-Kamil, Afzal-ul-Attibba, Malpan and Soppar, Sangita Siromani.

Chancellor, Bishnu Ram Medhi, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras.

Pro-Chancellor, C. Subramaniam, B.A., B.L., Minister for Education, Madras.

Vice-Chancellor, Lt.-Col. Sir A. Lakshmanaswamy Mudaliar, B.A., M.D., LL.D., D.Sc., D.C.L., F.R.C.O.G., F.A.C.S., M.L.C.

Registrar, R. Ravi Varma, M.A. (Lond.).

Deputy Registrar, Capt. D. Sivasubramania Mudaliar, M.R.C.S. (Eng.), L.R.C.P. (Lond.).

Asstt. Registrar, P. S. Vaidyanathan, B.A., Dip. com.

Total number of Colleges (Arts, Science and Professional)—91; Total number of Students over 54,000.

ARTS AND SCIENCE COLLEGES (56)

Constituent Colleges (13):

Agurchand Manmull Jain College, Meenambakkam, Madras 27.

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Government Arts College, Mount Road, Madras 2.
Loyola College, Cathedral, Madras 31.
Pachaiyappa's College, Chetput, Madras 30.
Presidency College, Triplicane, Madras 5.
Sir Theagaraya College, Washermanpet, Madras 21.
Vivekananda College, Mylapore, Madras 4.
Ethiraj College for Women, Egmore, Madras 8.
Queen Mary's College, Mylapore, Madras 4.
Stella Maris College, Cathedral, Madras 6.
Women's Christian College, Nungambakkam, Madras 31.
The New College, Royapettah, Madras 14.
The South Indian Educational Trust Women's College, Teynampet, Madras 6.

Affiliated Colleges (43) :

Government Arts College, Coimbatore.
Alagappa College, Karaikudi.
Government College, Kumbakonam.
The American College, Madurai.
Madura College, Madurai.
Lady Doak College, Madurai.
Thiagarajar College, Madurai.
Sarah Tucker College, Palayamkottai.
St. John's College, Palayamkottai.
Scot Christian College, Nagercoil.
South Travancore Hindu College, Nagercoil.
St. Xavier's College, Palayamkotta.
Raja's College, Pudukottai.
Govt. College, Salem.
Rajah Doraisingam Memorial College, Sivaganga.
Madras Christian College, Tambaram.
The M.D.T. Hindu College, Tirunelveli.
Holy Cross College, Tiruchirapalli.
Jamal Mohamed College, Khajanagar, Tiruchirapalli.
National College, Tiruchirapalli.
St. Joseph's College, Tiruchirapalli.
Sacred Heart College, Tirupattur (N. Arcot Dt.).
St. Mary's College, Tuticorin.
V. O. Chidambaram College, Tuticorin.
Sri G. V. G. Visalakshi College for Women, Udumalpet.
Islamiah College, Vaniyambadi (N. Arcot Dt.).
V. H. N. Senthikumara Nadar College, Virudhunagar.
Khadir Mohideen College, Adhirampattinam, Tanjore Dt.
P.S.G. Arts College, Peelamedu, Coimbatore.
Nirmala College for Women, Coimbatore.
Chikkia Naicker Mahajana College, Erode.
Pachaiyappa's College, Kancheepuram.
Auxilium College, Katpadi (N. Arcot Dt.).
Fatima College, Madurai.
Ambanathapuram Vahaira Charities College, Mayuram.
Government Arts College, Ootacamund.
Sri Pushpam College, Poondi, Tanjore.
The Rajah Serfoji College, Tanjore.
Sitalakshmi Ramaswami College, Tiruchirapalli.
Hajee Karutha Rawther Howdia College, Uthamapalayam.
Voorhees College, Vellore (N. Arcot Dt.).
The Avinashilingam Home Science College, Coimbatore.
Nallamuthu Gounder Mahalingam College, Pollachi.
Palani Andavan College of Oriental Culture, Palani.

PROFESSIONAL COLLEGES (33)

Law :

Madras Law College, Madras 1.

Medicine :

Madras Medical College, Park Town, Madras 3.
Stanley Medical College, Madras 1.
Christian Medical College, Vellore (N. Arcot District).
Madurai Medical College, Madurai.
Medical College, Pondicherry.

Engineering :

College of Engineering, Guindy, Saidapet, Madras 25.
Government College of Technology, Laley Road, Coimbatore.
P.S.G. College of Technology, Peelamedu, Coimbatore
Coimbatore Institute of Technology, Coimbatore.
Alagappa College of Technology, Karaikudi.
Thyagaraja College of Engineering and Technology, Tiruparamkundram P.O., Madurai.

Teaching :

Lady Willingdon Training College, Triplicane, Madras 5.
Meston Training College, Royapettah, Madras 14.
St. Christopher's Training College, Vepery, Madras 7.
Teachers' College, Saidapet, Madras 15.
Government Training College for Women, Coimbatore.
Sri Ramakrishna Mission Vidyalaya Teachers' College, Perianaickenpalayam (Coimbatore Dt.).
Dr. Alagappa Chettiar Training College, Karaikudi.
Thiagaraja College of Preceptors, Madurai.
St. Ignatius' Training College, Palayamkottai,
Government Training College, Komarapalayam. Salem Dt.
Govt. Basic Training College, Orathanad, Tanjore Dist.
St. Xavier's Training College, Palayamkottai.
Government Training College, Pudukottai.
Vivekananda Training College, Thirupparoyathurai, Tiruchirapalli Dt.
V. O. Chidambaram Training College, Tuticorin.
Government Training College, Vellore, N. Arcot Dt.

Veterinary :

Madras Veterinary College, Vepery, Madras 7.

Agriculture :

Agricultural College, Lawley Road P.O., Coimbatore.

Technology :

Alagappa Chettiar College of Technology, Guindy, Madras 25.

Physical Education :

Y.M.C.A. College of Physical Education, Saidapet, Madras 15.
Alagappa College of Physical Education, Alagappa College P.O., Karaikudi.

GOVERNMENT POLYTECHNICS

Central Polytechnic, Guindy, Madras 16.
Tamilnad Polytechnic, Madurai.
Government Polytechnic, Peelamedu, Coimbatore.
Institute of Leather Technology, Madras 21.
Regional School of Printing, Madras 1.
Government Polytechnic, North Arcot at Madras.
Government Polytechnic, Kanyakumari at Nagercoil.
Institute of Film Technology, Madras 1.

PRIVATE POLYTECHNICS

C. N. T. Institute, Vepery, Madras 7.
Ramakrishna Mission Technical Institute, Madras 4.
Alagappa Polytechnic, Karaikudi.
P. S. G. Polytechnic, Peelamedu, Coimbatore.
Annamalai Polytechnic, Chettinad.
Nachimuthu Polytechnic, Pollachi.
Murugappa Chettiar Memorial Polytechnic, Avadi, (Near) Madras.
Seshasayee Institute of Technology, Tiruchirapalli.
Virudhunagar S. Vellaichami Nadar Polytechnic, Virudhunagar.
Thyagaraja Polytechnic, Salem.
Valivalam Desigar Polytechnic, Nagapattinam.
Sankar Institute of Polytechnic, Thalaiyuthu-Post, Tirunelveli District.
Bhakthavatsalam Polytechnic, Kancheepuram.
Srinivasa Subbaraya Polytechnic, Sirkali.
Rajgopal Polytechnic, Gudiyattam.

ANNAMALAI UNIVERSITY

Annamalainagar P.O.
South India.

CHANCELLOR

Bishnu Ram Medhi, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras.

PRO-CHANCELLOR

Dr. Rajah Sir M. A. Muthia Chettiar, Kt., B.A., D.Litt., M.L.A.

VICE-CHANCELLOR

V. Subramanya Nadar, B.A., B.L.
Registrar, T. D. Meenakshisundaram, B.A., B.L.
Bursar, R. Nagaraja Pillai, B.A.
Total number of students in the University : 3, 553.
Accounts and Government Grant (1959-60) :
Total income from grants from Government and other sources : Rs. 74,74,610.
Total estimated expenditure on salaries, contingencies, buildings and equipment : Rs. 73,99,330.
Recurring grant receipts : Rs. 10,73,100.
The medium of instruction is English.

ASSOCIATIONS, SOCIETIES, ETC.

ACADEMY OF TAMIL CULTURE
Madras 7.

President : Dr. R. P. Sethu Pillai ; *Vice-Presidents :* V. Subramaniam, Karumuthu Thiagarajan Chettiar, A. Subbiah ; *Hon. Secretaries :* K. Kothandapani Pillai, C. Amritaganesan, Dr. S. Sankar Raju Naidu ; *Hon. Treasurers :* V. S. Thyagaraja Mudaliar, V. Shanmugasundaram.

THE ADYAR LIBRARY & RESEARCH CENTRE
Adyar, Madras 20.

Head : N. Sri Ram ; *Adviser :* Dr. V. Raghavan ; *Directors :* Smt. Radha Buriner, Prof. J. B. Dorab.

AGRI-HORTICULTURAL SOCIETY OF MADRAS
St. George's Cathedral Road, Madras 6.

Patron : The Governor of Madras ; *Chairman :* V. T. Rangaswamy ; *Hon. Secy. :* C. S. Krishnaswamy, J.P. ; *Jt.Hon. Secy. :* C. Audiseshu, J.P. ; *Hon. Treasurer :* Dr. M. S. Giri.

ALL INDIA ANGLO INDIAN ASSOCIATION
17, Salai Street, Vepery, Madras 7.

President : E. W. F. Maitland ; *Vice-Presidents :* A. V. Pereira, F. B. Rabel ; *Secretary :* A. P. McIntyre.

ALL INDIA AUTOMOBILE ASSOCIATION
Cherry Road, Salem.

ALL-INDIA CARROM FEDERATION
28, Second Line Beach, Madras 1.

President : D. Sanjivayya ; *Secretary :* R. S. Cunniah ; *Treasurer :* P. S. K. Murthy.

ALL INDIA CHESS FEDERATION
317, Thambu Chetty St., Madras 1.

President : Dr. B. Gopala Reddy (Union Minister for Works, Housing & Supply) ; *Hon. Secy. :* S. K. Narasimhan ; *Treasurer :* K. N. Kalyanasundaram.

ALL INDIA COFFEE MERCHANTS' ASSOCIATION
22/48, 49, Raja Street, Coimbatore.

President : A. N. Nayak ; *Vice-President :* L. S. Sankaranarayanan ; *Secretary :* A. V. L. Narayan.

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ALL INDIA FEDERATION OF MASTER PRINTERS
42, Broadway, Madras 1.

President: H. K. Dass; *Vice-Presidents:* A. F. Varawalla, A. P. Nagar; *Hon. Gen. Secy.:* R. Venkateswaran.

ALL INDIA MANUFACTURERS' ORGANISATION
(Madras State Board)
52/53, Jehangir Street, Madras 1.

Chairman: S. Anantharamakrishnan; *Vice-Chairman:* V. Pandurangiah; *Hon. Secy.:* M. V. Arunachalam.

ALL INDIA RADIO MERCHANTS' ASSOCIATION
22, General Patters Road, Madras 2.

President: G. K. Shankar; *Vice-President:* K. V. Sabnis; *Hon.Secy.:* G. Natarajan.

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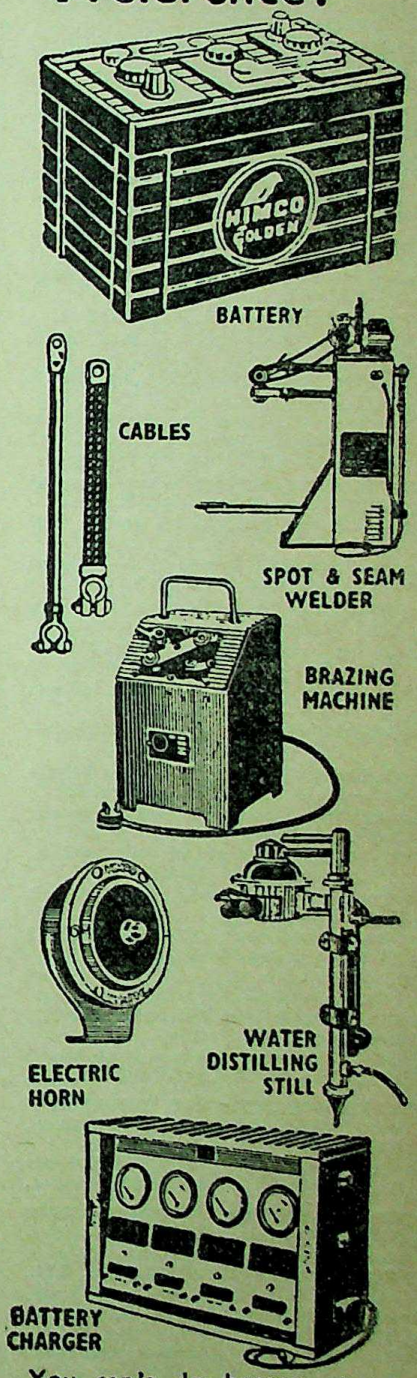

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Scientific Instruments Co. Ltd.—30, Mount Road, Madras 2.

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Somayajulu & Co.—337, Thambu Chetty St., Madras 1.

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Soundararajan & Co. Ltd.—221, Govindappa Naick St., Madras 1.

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South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1.

South India Surgical Co.—142, Nyniappa Naick St., Madras 3.

South India Timber Trading Co.—34, Basin Bridge Road, Madras 1.

South India Trade Expansion Co.—109, Sydenham's Garden Road, Madras 7.

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Southern Constructions Private Ltd.—Luz Avenue, Madras 4.

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Southern India Skins Corporation.—7, Varasidhi Vinayagar Koil St., Madras 3.

Southern India Trading Corpn.—3, H.D. Rajah Nagar, Eldams Road, Madras 18.

Southern Industrial Corpn. P. Ltd.—6, Armenian St., Madras.

SOUTHERN LANGUAGES BOOK TRUST, 3, Wheatcroft Road, Nungambakkam, Madras 31.

Southern Roadways Private Ltd.—28, Broadway, Madras.

Southern Structurals Ltd.—14, Boag Road, Madras 17.

Speed-A-Way Private Ltd., 35/5, Mount Road, Madras 2.

Spence Ltd.—24, General Patters Road, Madras 2.

Spencer & Co., Ltd., Mount Road, Madras 2.

Sreeramulu Chetty & Sons.—Gandavadi, 207/208, Netaji Bose Road, Madras 1.

Sreevatsa Chemicals & Drugs Ltd.—4, Lakshmi Talkies Road, Madras 30.

Sri Jothi Waste Paper Co.—21, Anna Pillai St., Madras 1.

Srimagal Co., 122, Varathamuthiappan St., Madras.

Sri Rama Machinery Corpn. Private Ltd.—5/6, Armenian St., Madras 1.

Standard Drugs & Chemicals Co.—131, Nyniappa Naick St., Madras 3.

Standard Printing Machinery Co.—12/81, Sembudoss St., G. T., Madras 1.

Standard Motor Products of India Ltd.—Assemblers and Progressive Manufacturers of Standard Cars and Ferguson Tractors, 29, Mount Road, Madras 2.

Standard-Vacuum Oil Co., Bombay Mutual Bldg., Esplanade, Madras 1.

Steel & General Traders, 19, Sembudoss St., Madras.

Sundaram & Co., A.—158, Broadway, Madras 1.

Sundaram Motors Private Ltd.—37, Mount Road, Madras 6.

Sunderdas Trading & Mfg. Co.—193, Mount Road, Madras 2.

Sundra Ramier & Co., M. P. V.—464, Mint Street, Madras 3.

Surajmall Lallubhai & Co.—313, Esplanade, Madras 1.

Swastik Agency, 165, G. Naick Street, Madras 1.

Swastik & Co.—106, Armenian Street, Madras 1.

T. A. TAYLOR & CO. MADRAS PRIVATE LTD.,—(Estd.: 1878), 100 Armenian Street, Post Box No. 51, Madras-1; Phones: 21201 & 21202; Grams: "TAYLORS"; Importers, Exporters and Indenting Agents; Dealing in Piece-goods, yarn, Motor Vehicle Parts and Accessories, Liquors, Industrial crucibles, Hardware, Timepieces, Photographic Materials, Rubber goods, Synthetic Essential Oil etc.; Exporters of Woollen Druggets and Madras Curry Powder; Insurance Surveyors; Clearing and Forwarding Agents.

T. A. S. Ratnam Brothers, Post Box 1151, Madras 21.

Tablets Private Ltd.—11/12, First Line Beach, Madras 1.

Tatanagar Transport Corporation.—58, Mount Road, Madras 2.

Tecalemit (India) Ltd., Bombay Mutual Building, Esplanade, Madras 1.

Technical Engineering Products Co.—C-22, Industrial Estate, Madras 16.

Teddington Chemical Factory Private Ltd.—Arcot Road, Vada Palani, Madras 26.

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Thadhani & Co., J.—16, Broadway, Madras 1.
Thomas & Co. (India) Ltd., A. V.—2/21, First Line Beach, Madras.
Thos. Cook & Son (Continental and Overseas) Ltd., 4/5, First Line Beach, George Town, Madras.
T. I. Cycles of India Ltd.—Ambattur, Madras.
Tiffin Barytes Asbestos & Paints Ltd.—322/23, Linghi Chetty St., Madras 1.
Tinplate Dealers' Association P. Ltd.—9, Sembudoss Street, Madras.
T. O. A. P. Ltd., 17, Armenian Street, Madras.
Toshniwal Brothers P. Ltd., 9, Blackers Road, Madras 2.
Travancore Cements Ltd.—10, Mount Road, Madras 2.
Travancore Rayons Ltd.—216, Second Line Beach, Madras.
Tube Investments of India Ltd.—52/53, Jehangir St., Madras 1.
Tube Suppliers P. Ltd.—6, Armenian Street, Madras 1.
Tullis Woodroffe & Co. P. Ltd., 1/21, North Beach Road, Madras.
Turner Hoare & Co. Ltd.—3/33, Mount Road, Madras 2.
Typewriter & Office Appliances (India) Co. Ltd.—17, Armenian St., Madras 1.
Uberoi Ltd., 22, Mount Road, Madras.
Unicorn P. Ltd., 29, Mount Road, Madras 2.
Union Carbide (I) P. Ltd.—Hakim Mansion, Loane Square, 14, Stringers St., Madras 1.
Union Co. (Motors) Private Ltd.—29, Mount Road, Madras 2.
United Bearing Co.—45, Thambu Chetty St., Madras 1.
United Concerns, 54, Bunder Street, Madras.
United Liner Agencies of India Ltd.—7, 2nd Line Beach, Madras 1.
United Pharma (I) P. Ltd.—Post Box 521, Madras 3.
United Printers Syndicate P. Ltd., 42, Broadway, Madras 1.
United Scientific Co., The, 9, Sunkurama Chetty Street, Madras 1.
United Steel Companies India P. Ltd., 19, Agurchand Mansion, Mount Road, Madras.
Upper India Trading Co. P. Ltd.—1/18, Mount Road, Madras 2.
Usha Safety Pin Industries.—4/441, Mint St., Madras 3.
Vasant Electronic Co.—1/34, Mint St., Madras 3.
Vattson Corporation.—117, Armenian St., Madras 1.
V. C. Ramalingam & Sons, 2/422, Thangasalai Street, Madras.
V. D. Swami & Co. P. Ltd.—3/1, Cathedral Road, Madras 6.
VAMAN BROS.—39, Spurtank Road, Chetput, Madras-31; Photographers and Portrait Specialists.
Venkataraman & Co.—322/323, Linghi Chetty St., Madras 1.
Venkataraman & Co. Private Ltd., K. S.—5, Dr. Thomas Road, Madras 17.
Venkatesh Trading Co.—19, Godown Street, Madras 1.
Vernon & Co., Ltd., 36, Second Line Beach, Madras 1.
Vidlo Food Products Co.—20, Gopalakrishna Road, T. Nagar, Madras 17.
Vikrama Engineering Co. (Agencies), P.O. Box 909, Adyar, Madras 20.
Viswanathan & Co., K.—17, Angappa Naick St., Madras 1.
Vivekanda Industrial Engineers, Perambur, Madras.
Volkart Brothers.—5/6, Armenian Street, Madras.
Voltas Limited, 115/116, Armenian Street, Madras 1.
V. S. T. Motors Private Ltd., 34, Mount Road, Madras 2.
Vulcan Trading Co. Private Ltd.—38-C, Mount Road, Madras 6.
Vummidi Bangaru Chetty & Sons, 226, G. Naick Street, Madras 1.
VUMMIDI RAMIAH CHETTY GURUSWAMY CHETTY & CO.—23 to 25, N.S.C. Bose Road, Madras-1.
Vummidiars (Mfrs.) P. Ltd., Mfrs. of stainless steel utensils, 162, Mount Road, Madras 2.
Wakefield & Co. Ltd., C. C.—58/59, North Beach Road, Madras 1.
Water Supply Specialists Ltd.—45, Thambu Chetty St., Madras 1.
Western India Match Co., Ltd., Manufacturers of Matches, 38-C, Mount Road, Madras 6.
Western India Plastic Trading Co.—7, Narayana Mudali St., Madras 1.
Westrex Company India (Formerly Western Electric Company of India), Khaleel Mansions, 35, Mount Road, Madras 2.
Wheatley & Yate.—Hakim House, 11/12, Jaffar Syrang Street, Madras 1.
W. I. Oil Distributing Co. Ltd.—310/311, Linghi Chetty St., Madras 1.
Wheel & Rim Co. of India Private Ltd., Sembiam, Madras 11.
Wilfred Pereira Private Ltd.—Vepery, Madras 7.
William Jacks & Co., Ltd., National Bank Building, First Line Beach, Madras 1.
Wilson & Co., North Railway Terminus Road, Royapuram, Madras 13.
Wirenetting Industries Corpn.—17, Rundalls Road, Vepery, Madras 7.
World Trade Agencies.—4, Bunder Street, Madras 1.
Wren, Bennett & Co. India Ltd., 34, Mount Road, Madras 2.
Yousuf Khan & Co., 8/32, Jones Street, Madras.
Zainulabdeen Sahib & Co., C. H., 27-28, Sydenham's Road, Periamet, Madras 3.

CLASSIFIED LIST OF TRADES & PROFESSIONS

ABRASIVES

Ajax Products Ltd.—106, Armenian Street, Madras.
Best & Co. Ltd.—First Line Beach, Madras 1.
Carborundum Universal Ltd.—Swastik House, 106, Armenian Street, Madras 1.
East Asiatic Co. (India) Ltd., The.—Mercantile Bank Bldg., First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Gordon Woodroffe & Co. (Madras), Ltd.—1/21, North Beach Road, Madras 1.
Murugappa & Sons.—"Swastik House", 106, Armenian Street, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Verma & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ACID & DISTILLED PRODUCTS

Best & Co., Ltd.—First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.

ADDING, CALCULATING AND ACCOUNTING MACHINES

Comptometer—Felt & Tarrant (India) Co.—12/13, Angappa Naick Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Hollerith (India) Ltd.—38, Mount Road, Madras 6.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Powers-Samas Accounting Machines (Sales) Ltd.—150B, Mount Road, Madras 2.

ADDRESSING AND LISTING MACHINES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Gillanders Arbuthnot & Co., Ltd.—North Beach Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.

ADVERTISING AGENTS AND CONSULTANTS

Anuradha Advertising Service.—Lattice Bridge Road, Adyar, Madras 20.
Aruna & Co.—36-B1, Mount Road, Madras 1.
Associated Advertisers & Printers.—83, Gopathy Narayanaswamy Chetty Road, T. Nagar, Madras 17.
Beebees, C/o Balu Bros.—2, Thayar Sahib Street, Madras 2.
Bomas Ltd.—3/18, Mount Road, Madras 2.
Chari Advertising.—174, Broadway, Madras 1.
Criterion Publicity Ltd.—19, Woods Road, Madras 2.
D. V. ADVERTISING.—50, Mount Road, Madras 6.
Eastern Advertising Consultants.—2/16, Mount Road, Madras 1.
Efficient Publicities P. Ltd.—Dinroze Estate, Mount Road, Madras 2.
Elegant Publicities.—77, General Patters Road, Madras 2.
Everest Advertising P. Ltd.—Airlines Hotel, Mount Road, Madras 2.
Ganesh Publicities.—8, Bells Road, Triplicane, Madras 5.
Grant Advertising Inc.—Grant House, 7-A, Briethopt Road, Vepery, Madras.
Jupiter Advertisers.—6, Deenadayalu Street, Madras 17.
Kayorcee Advertising.—54, Bunder Street, Madras 1.
Krishnaswami & Co., V.S.—106, Armenian Street, Madras 1.
L. A. Stronach & Co. (India) Ltd.—193, Mount Road, Madras 2.
L. R. Swami.—23, Royapettah High Road, Madras 14.

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MADRAS ADVERTISING CO., PRIVATE LTD.—200, Mount Road (Entrance Ritchie St.), Madras-2. Phone: 85537; Grams: "FORCEADS".

Mani & Co., P.S.—2/4, Mount Road, Madras 2.
Moulvi Advertising.—193, Mount Road, Madras 2.
Nalin Publicity Bureau.—Vanguard House, Second Line Beach, Madras 1.
Neena Publicities, C/o Bharat Studios.—Opp. Mount P.O., Madras 2.
P. S. Mani & Co.—2/4, Mount Road, Madras 2.

RAVI PUBLICITY SERVICE.—186, Mount Road, Madras-2. Sole Agents for Slide Advertisements in Prabhat and Saraswathi Talkies, Madras; Undertake to exhibit Cinema Slides and advertisement shorts in Theatres in principal towns and cities of India; specialists in display of advertisement boardings, preparation and supply painting etc. of dealer/stockists signboards.

Sastry's Advertising.—Indian Chamber Buildings, Esplanade, Madras 1.

SWASTIK ADVERTISING.—3, Thambu Chetty Street, Madras 1.

United India Publicity Corpn.—337, Thambu Chetty Street, Madras 1.
Vijaya Publicities.—Vijaya Gardens, Vadapalani, Madras 26.
Walter Thompson & Co. P. Ltd., J.—38-C, Mount Road, Madras 6.

AERATED WATER

A. G. Raju & Sons.—Chintadripet, Madras.
A. M. Rajam & Co.—G. T. Road, Madras.
Baby Aerated Water Works.—Royapuram, Madras.
City Ice & Cold Storage Co.—12, General Patters Road, Madras 2.
Gemini Soda Factory.—Roypettah, Madras.
Indian Herald Aerated Water Works.—Waltax Road, Madras.
J. James & Co.—Soda Factory, Park Town, Madras.
Johnson & Co.—Aerated Water Works, Madras.
Labour Soda Factory.—Seven Wells Street, Madras.
Mazda Ice Mfg. Co.—1-22A, Vepery High Road, Madras 7.
Mc. Dowells Aerated Water Works.—2nd Line Beach, Madras.
New Elphinstone Soda Fountain.—Mount Road, Madras 2.
Phoenix Aerated Water Works.—10, General Patters Road, Mount Road, Madras.
R. Maclure Aerated Works.—Mount Road, Madras.
South Indian Royal Ice Factory.—Egmore, Madras 8.
Star Aerated Water Works.—Chintadripet, Madras.

AGRICULTURAL IMPLEMENTS

Agricultural Equipment Co., Ltd.—235, Poonamallee High Road, Madras 3.
Amalgamations Ltd.—202, Mount Road, Madras 2.
Gillander's Arbuthnot & Co., Ltd.—North Beach Road, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
S. Jagannatham & Co.—84, Nyniappa Naick Street, Madras 3.
South Indian Export Co., Ltd.—5, McLean Street, Madras 1.
Tecalemit (India) Ltd.—Bombay Mutual Bldg., Esplanade, Madras.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
V. Venugopal Pillai & Co.—2/27, Broadway, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

AGRICULTURAL MACHINERY

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Rallis (India) Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

AIR COMPRESSORS

Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams Broadway, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gillander's Arbuthnot & Co. Ltd.—3, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Tecalemit (India) Ltd.,—Bombay Mutual Bldg., Esplanade, Madras.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

AIR CONDITIONING AND VENTILATING PLANT

Best & Co., Ltd.—First Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—North Beach Road, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

AIR CONDITIONING PLANT EQUIPMENT

Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

W. A. BEARDSELL & CO. (PRIVATE) LTD.—8, Second Line Beach, Post Box No. 7, Madras-1.

AIRCRAFT, AIRCRAFT PARTS & ACCESSORIES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Tecalemit (India) Ltd.—Bombay Mutual Building, Esplanade, Madras.

AIR FILTERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras.

AIR MOTORS, PUMPS AND WASHERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United Life Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

ALUMINIUM (FOIL)

Beardsell, W. A., & Co., Ltd.—8, Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ALUMINIUM PRODUCTS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Jeewanlal (1929) Ltd.—127, Mint Street, Madras 3.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Imperial Chemical Industries (India) Ltd.—Spring Haven Road, "The Harbour", Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

VUMMIDIARS (MFRS.) PRIVATE LTD.—162, Mount Road, Madras-2.

ARC WELDING EQUIPMENT AND ELECTRODES

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021/2; Grams: "MANDARIN"; P.O. Box No. 146.

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.

GUEST, KEEN, WILLIAMS, LTD.—202, Mount Road, Madras 2.

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Indian Oxygen and Acetylene Co., Ltd.—7/A, Vaithianatha Mudali Street, Tondiarpet, Madras 21.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Robert McLean & Co., Ltd.—200, Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

ANTISEPTICS

Amrutanjan Ltd.—7, Thambu Chetty Street, Madras.
Chemical & Pharmaceutical Enterprises.—368/369, Tiruvottiyur High Road, Tondiarpet, Madras 21.
Little's Oriental Balm & Pharmaceuticals Ltd.—No. 10, Purasawalkam High Road, Vepery, Madras.

ARMS AND AMMUNITION DEALERS

McDowell & Co., Ltd.—Second Line Beach, Madras 1.
P. Orr & Sons Ltd.—Orrs Building, Mount Road, Madras 2.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras 2.

ASBESTOS PRODUCTS

Best & Co., Ltd.—First Line Beach, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Hassanally & Co., A. M.—34, Linghi Chetty Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Scott & Pickstock P. Ltd.—Catholic Centre, Armenian Street, Madras 1.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ASPHALT AND BITUMEN

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Standard-Vacuum Oil Co.—United India Building, Esplanade, Madras 1.

AUTOMOBILES (TRUCKS, MOTORCARS & MOTOR-CYCLES)

George Oakes Ltd.—36-D, Mount Road, Madras.

MADRAS MOTORS PRIVATE LTD., THE.—Motorcycle Specialists, 36-C, Mount Road, Madras 2. Phones: 86031 & 86032. Grams: "MOTOGLYDE." Sole Selling Agents for Royal Enfield Motor Cycles and Three Wheelers manufactured by the Enfield India Ltd., Madras.

V. S. T. MOTORS (P) LTD.—34, Mount Road, Madras 2.

AUTOMOBILE & ANCILLARY INDUSTRIES

Best & Co. Pvt. Ltd.—13/15, North Beach Road, P.B. No. 63, Madras 1.
Enfield India Ltd.—"Royal Enfield" Bldgs., P.B. No. 5284, Tiruvottiyur, Madras.
Engine Valves Ltd.—No. 5, Patullos Road, Mount Road, Madras 2.
Hydraulics Pvt. Ltd.—P.B. No. 331, 29, Mount Road, Madras 2.
India Pistons Pvt. Ltd.—"Huzur Gardens", Sembiam, Madras 11.
India Radiators Ltd.—6, Armenian Street, Madras 1.
Simpson & Co., Ltd.—202/203, Mount Road, Madras 2.

AUTOMOBILES, AUTOMOBILE PARTS AND ACCESSORIES

Abdulla & Brothers.—20, Harris Road, Mount Road, Madras.
Abdul Rahim—14-A, General Patters Road, Mount Road, Madras.
Addison & Co. P. Ltd.—158, Mount Road, Madras 2.
Anand Automobiles—24, General Patters Road, Mount Road, Madras.
Annamalai Trading Co.—82, Harris Road, Mount Road, Madras.
Ashok Automobiles—44, General Patters Road, Mount Road, Madras.
Associated Accessories (P) Ltd.—11, General Patters Road, Mount Road, Madras.
Associated Trades.—Tool House, Pattulos Road, Madras 2.
Auto & General Supplies Co.—Bharath Insurance Bldg., 1/18, Mount Road, Madras.
Automobiles Components—7, Imperial Bank Street, Mount Road, Madras.
Automotive Agencies (P) Ltd.—12, Smith Road, Mount Road, Madras.
Automotive & Allied Industries (P) Ltd.—52, General Patters Road, Mount Road, Madras.
Auto Parts Trading Co.—22, General Patters Road, Mount Road, Madras.
Auto Sales Co.—2, Imperial Bank Street, Mount Road, Madras.

BAWA MOTORS.—10, Imperial Bank Lane, Mount Road, Madras 2. Specialists in Benz & Perkins genuine Parts.

BHARAT MOTORS.—(Proprietors: N. R. Private Ltd.), 35, Mount Road, Madras 2. Phones: 86203 & 86204. Grams: "BHARAT CARS." Head Office: Modi Chambers, Sandhurst Bridge Corner, Bombay 4. Showroom: 144, Mount Road, Madras 6. Service Station: 5, Greams Road, Madras 6.

Bombay Motor House—28-A, General Patters Road, Mount Road, Madras.
Central Automobiles—7-A, Imperial Bank Street, Mount Road, Madras.
Ceylon Agencies—17, Mount Road, Madras.
Chimanlal Desai & Co.—6, Sunkurama Chetty Street, Madras.
City Auto Stores—16, Ramanan Street, Elephant Gate, Madras.
Continental Distributing Co.—Post Box No. 2223, Madras.
D. V. Grover—5, Imperial Bank Street, Mount Road, Madras.
Deens Garage—14, Imperial Bank Street, Madras.
Eastern Automobile & Engineering Co., (P) Ltd.—24, General Patters Road, Mount Road, Madras.
Foreign Agencies—Singanna Chetty Street, Mount Road, Madras.
Garage P. Ltd.—Armenian Street, Madras 1.
Gemini Automobiles—12-A, Imperial Bank Street, Mount Road, Madras.
General Automobiles—18, General Patters Road, Mount Road, Madras.
George Vint Bhalla (P) Ltd.—7, Woods Road, Mount Road, Madras.

G. M. AUTOMOBILES (JEEP CENTRE).—41, General Patters Road, Mount Road, Madras-2.

Globe Traders.—7-B, Imperial Bank Street, Madras 2.

HIMCO BATTERIES (MADRAS) PVT. LTD.—144, Mount Road, Madras 6.

Hindustan Motors Ltd.—83, Peters Road, Madras 14.
India Motor Parts & Accessories P. Ltd.—1/115, Mount Road, Madras 2.
India Pistons P. Ltd.—Sembiam, Madras 11.
Indian Engineering & Trading Co.—26, Wallers Road, Mount Road, Madras.
Inland Agencies—153, Ramakrishna Mutt Road, Mylapore, Madras.
Jupiter Agencies—1, Motilal Street, T. Nagar, Madras.
Kannappan Motor Stores—34, General Patters Road, Mount Road, Madras.
Kapur Auto Agencies—41, General Patters Road, Mount Road, Madras.
Khaliq Automobiles—12, Imperial Bank Street, Mount Road, Madras.
Khanna Auto Corpn.—18, General Patters Road, Mount Road, Madras.
Kishore Automobiles—22, General Patters Road, Mount Road, Madras.
Lakshmi Motors—35, General Patters Road, Mount Road, Madras.
Laxmi Traders—15, Stringer Street, Madras.
Madras Auto Service Pvt. Ltd.—37, Mount Road, Madras.
Madras Auto Diesel House.—8-A, Pattulos Road, Madras 2.
Madras Ball Bearing House—17-A, General Patters Road, Mount Road, Madras.
Madras Mercantile Agencies (P) Ltd.—1/18, Mount Road, Madras.
Madras Sales Corporation—22, General Patters Road, Madras.
Majestic Motor Parts—15, General Patters Road, Madras.
Mani's Modern Mart—35, General Patters Road, Mount Road, Madras.
Marikar (Motors)Ltd.—18, General Patters Road, Mount Road, Madras.
Modern Automobiles—4/17-A, Mount Road, Madras.
Modern Distributing Co.—65, Singanna Chetty Street, Mount Road, Madras.
Modern Motors—16, General Patters Road, Mount Road, Madras.
Motor & Allied Agencies—1/17-H, Mount Road, Madras.
Motor Industries Co., Ltd.—1/155, Mount Road, Madras.
Motor & General Trading Co.—P. B. No. 361, Mount Road, Madras.
M. M. Kasim Bros.—14 & 15, Harris Road, Mount Road, Madras.
M. P. Narayanan—81 & 82, Harris Road, Mount Road, Madras.
Narayan Automobiles—8, Imperial Bank Street, Mount Road, Madras.
Nathan Trading Co.—99, Poonamallee High Road, Madras.
Narayan Trading Co.—P. B. No. 2245, Madras.
National Automobiles—15, Imperial Bank Street, Mount Road, Madras.

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New Motor House—16, General Patters Road, Mount Road, Madras.
Neson's—48, General Patters Road, Mount Road, Madras.
NISHAT TRADING CO.—52, General Patters Road, Mount Road, Madras.
Odeon Automobiles—82A, General Patters Road, Madras 2.
Overseas Manufacturers Sales Co.—22, General Patters Road, Mount Road, Madras.
Pai & Co., G.N.—28-A, General Patters Road, Madras 2.
Pioneer (Madras) Pvt. Ltd.—23, Mount Road, Madras.
Premier Auto-Electric P. Ltd.—4, Pattulos Road, Madras 2.
Presidency Motors—33, General Patters Road, Mount Road, Madras.
Radhakrishna Motor Stores—17, Mount Road, Madras.
Rane (Madras) Ltd.—5, Pattullos Road, Mount Road, Madras.
Ravindra Trading Co.—43-A, General Patters Road, Mount Road, Madras.
Rayala Corpn. (Madras) Pvt. Ltd.—1/155, Mount Road, Madras.
Reliance Motor Co. P. Ltd.—160, Mount Road, Madras 2.
Reliance Trading Co.—3, General Patters Road, Madras.
Royal Cycle & Motor Co.—13/14, Broadway, Madras 1.
Rudolphus & Co.—51-4 ,General Patters Road, Mount Road, Madras.
Sat Pal Bros.—53/1, General Patters Road, Mount Road, Madras.
Scott & Pickstock Pvt. Ltd.—Catholic Centre, Armenian Street, Madras.
Singson & Co. (India)—1/2, Imperial Bank Street, Mount Road, Madras.
South India Automobile Corpn. P. Ltd.—24, Whites Road, Madras 1.
Sundaram Motors P. Ltd.—37, Mount Road, Madras 6.
Unicorn P. Ltd.—30, Peddu Naick Street, Kondithopa, Madras 1.
Union Com. P. Ltd.—29, Mount Road, Madras 2.
United Auto Supplies Co.—62, G. Patters Road, Madras 2.
Upper India Trading Co. (P) Ltd.—1/18, Mount Road, Madras.
Vijay Trading Co.—8, Imperial Bank Street, Madras.
Visram Motors—38-C, Mount Road, Madras 6.
V. S. T. Motors P. Ltd.—34, Mount Road, Madras 2.

AUTOMOBILE MANUFACTURERS

Ashok Leyland Ltd.—Bank of Mysore Bldgs., N. S. C. Bose Road, Madras.
Simpson & Co., Ltd.—202/203, Mount Road, Madras.
Standard Motor Products of India Ltd.—29, Mount Road, Madras.

BAILING PRESSES

Marshall Sons & Co. (India) Ltd.—Marshall House, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BATTERIES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Chloride & Exide Batteries (Eastern) P. Ltd.—Exide House, 150-B, Mount Road, Madras.
Exide Batteries.—Mount Road, Madras 2.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Himco Batteries Madras Private Ltd.—144, Mount Road, Madras 6.
Oldham & Sons (India) P. Ltd.—P. Box 1304, Madras 1.
South India Export Co., Ltd.—5, McLean Street, Madras 1.
Sridhar & Co.—11-B, Mount Road, Madras 2.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BEARINGS (BALL AND ROLLER)

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Malhotra Mill Store Co.—33, Mooker Nallamuttu Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Robert Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras.
William Jacks & Co., Ltd.—National Bank Building, First Line Beach, Madras 1.

BELTING TEXTILES (MFRS. AND SUPPLIERS)

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co., Ltd.—7, Armenian Street, Madras1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—3, North Beach Road, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Hassanally & Co., A. M.—34. Linghi Chetty Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Robert Mclean & Co., Ltd.—200, Mount Road, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BICYCLES

Rapid Industries—Rapid Nagar, Kovur Road, Near Madras.
T.I. Cycles of India Ltd.—Ambattur, Near Madras.

BISCUIT & CONFECTIONERY MANUFACTURERS

Madani Biscuit Factory—12, Poonamallee High Road, P.O. Kilpauk, Madras.
Parry's Confectionery Ltd.—Dare House, 1st Line Beach, Madras.
Roshan Biscuit Factory—Mount Road, Madras 2.

BLOCK MAKING PLANT—CONCRETE

Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

BOILERS AND BOILER ACCESSORIES

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South India Export Co., Ltd.—5, McLean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BOLTS, NUTS AND SCREWS

Bombay Co., Ltd.—169, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
GUEST, KEEN, WILLIAMS, LTD.—202, Mount Road, Madras 2.
McDowells & Co., Ltd.—Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BOOKSELLERS (WHOLESALERS)

BOOK DISTRIBUTION SERVICE.—Wholesale Booksellers, 7, State Bank Lane, Mount Road P.O., Madras-2.

BOOKSELLERS AND PUBLISHERS

Amudha Nilayam P. Ltd.—91, Mount Road, Madras 18.
Ananda Vikatan—Publishers, Mount Road, Madras 2.
ARUNA PUBLICATIONS.—23, G. N. Chetty Road, Thyagarayanagar, Madras 17. Publishers of Popular Literary Works in Tamil at moderate prices.
Arunodayam Publications—Royapettah, Madras.
Association Publishing House—94/95, New Street, Mannady, Madras 1.
Avvai Noolagam, Publishers—4/141, Broadway, Madras 1.
B. G. Paul & Co.—4, Francis Joseph Street, Madras.
Balasaraswathi Book Depot—6, Sunkurama Chetty Street, Madras.
Balkumar & Co.—Appah Buildings, Esplanade, Madras 1.
Basuram & Co.—2/27, Meeran Sahib Street, Mount Road, Madras.
Bharathi Pathippagam—14, Usman Road, T'Nagar, Madras 17.
Bible Society of India & Ceylon—P.B. No. 502, Park Town, Madras 3.
Blackie & Sons—3, Rajamannar Street, Madras 17.
BOOK CENTRE, THE.—Publishers, 3, Kondi Chetty Street, Madras-1. H. O. Raja Street, Coimbatore-1.

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The Book Distribution Service—7, Imperial Bank Lane, Mount Road, Madras.
The Books India (Private) Ltd.—135, Coral Merchant Street, Madras.
C. Subbiah Chetty & Co.—62, Big Street, Triplicane, Madras 5.
Central Art Press—Publishers, 11, McNichol Road, Chetput, Madras 31.
Central Book Depot—B1, Pycrofts Road, Triplicane, Madras 5.
Chandamama Publications—2 & 3, Arcot Road, Madras 26.
Christian Literature Society—Post Box No. 501, Madras 3.
Coomaraswamy & Sons—N.S.C. Bose Road, Madras 1.
Damodaram & Co., M.—Appah Bldgs., Esplanade, Madras 1.
Express Newspapers (P) Ltd.—P. B. No. 333, Madras 2.
Ganesh & Co. (Private) Ltd.—Madras 17.
Grama Jothi Noolagam—1, Robertson Lane, Madras 28.

HIGGINBOTHAMS (PRIVATE) LTD. (ESTD. 1844).—Post Box No. 311, Madras. Phone : 86556. Grams : "BOOKLOVER". Booksellers, Publishers, Stationers, etc. Branches at:—Bangalore, Ootacamund and Trivandrum. Bookstalls on all important Rly. Stations, Aerodromes and Harbours in S. India.

Himalaya Publications—14, Warren Road, Madras 4.
The Inba Nilayam—34, Kutchery Road, Mylapore, Madras 4.
India Book House—Purushotham Bldgs., 193, Mount Road, Madras 2.
Indian Publishing House Ltd.—14, Sunkurama Chetty Street, Madras.
International Publishing Co.—12, North Tank Square, Nungambakkam, Madras.
Jaico Publishing House—7, Imperial Bank Lane, Mount Road, Madras 2.

JAYAM & CO.—Nungambakkam, Madras 6. School and General Publishers (for forty-nine years) since 1911.

The Jyothi Nilayam—Muslim High School Compound, Triplicane, Madras 5.
Kalaignan Pathippagam—T'Nagar, Madras 17.

KALAIMAGAL PUBLICATIONS.—55/56, M. K. Amman Koil Street, Post Box No. 604, Mylapore, Madras-4. Publishers of "KALAIMAGAL", a most popular Monthly Magazine in Tamil, "Mangari", a Readers Digest in Tamil and "Kannan", a Magazine for children ; Besides books of general interest, fiction etc. are published.

Kapali Book Centre—Book-sellers & Distributors, 61, Kutchery Road, Madras.
Kaviya Kazhagam—4, Rajagopala Naicken Lane, Chintadripet, Madras 2.
The Little Flower Co.—8, Ranganathan Road, Thyagarayanagar, Madras 17.
Macmillan & Co. Ltd.—6, Patullo Road, Mount Road, Madras 2.
Madras Premier Co.—Educational Publishers, 33, Broadway, Madras 1.
The Malar Nilayam—133, Broadway, Madras 1.
Mangala Noolagam—2, Josier Street, Nungambakkam, Madras 6.
Mercury Publishing House—38, Sambanda Mudaliar Street, Madras 28.
N.C.B.H. (Private) Ltd.—6, Nallathambi Chetty Street, Ellis Road, Mount Road, Madras 2.
N. V. Gopal & Co.—63, Krishnappa Naick Tank Street, Madras.
Natesan & Co., G. A.—3, Sunkurama Chetty Street, Madras 1.
National Publishing Co.—6, Kondi Chetty Street, Madras 1.
New Century Book House.—Mount Road, Madras 2.
Orient Longmans (P) Ltd.—36-A, Mount Road, Madras.
Oriental Publishing House—286, Esplanade, Madras.
Ottrumai Office—8, Vyasarao Street, T'Nagar, Madras 17.
Our India Directories & Publications (P) Ltd.—11, 2nd Main Road, Madras 28.
The Oxford University Press—Mount Road, Madras 2.
P. L. Arunachalam—70, Padavathamman Koil Street, Madras 12.
The Paari Nilayam—59, Broadway, Madras 1.
Palani Prachuram—3, Pycrofts Road, Triplicane, Madras 5.
Palaniappa Bros.—4, Venkatesanaicken Street, Madras 5.
Paul & Co., B.G.—4, Francies Joseph Street, Madras 1.
Pearl Publications—Purushotham Bldgs., 193, Mount Road, Madras 2.
Presidency Book Supplies—8-C, Pycrofts Road, Madras 5.
Protima Books—49, Mukathal Street, Madras 7.
Rajeswari Book House—28, V. S. V. Koil Street, Mylapore, Madras 4.
Rayalu & Co.—32, Narayanamudali Street, Madras 1.
S. Meenakshi Ammal—99, Ramakrishna Mutt Road, Mylapore, Madras 28.
Sakthi Karyalayam—1/142, Mount Road, Madras 6.
Samskriti Nilayam—88, Kutcheri Road, Mylapore, Madras 4.
South India Saiva Siddhantha Works Publishing Society—1-140, Broadway, Madras.
Srimagal Co.—122, Varada Muthiappan Street, Madras.
Star Publications—Big Street, P.B. No. 423, Triplicane, Madras 5.
T. N. Jayavelu—49, Venkatachala Mudali Street, Choolai, Madras 7.
T. V. Chellappa Sastry & Sons—No. 2, Philips Street, Madras 1.
The Teachers' Publishing House—53-56, Coral Merchant Street, Madras.

THAMIZHAGAM.—59, Broadway, Madras 1.

Thyagaraja Vilasam : Dr. Swaminatha Ayyar's Publications—53, Pillaiyar Koil Street, Madras.
Union Publishing House—Educational Publishers, 286, Esplanade, Madras.
Valluvar Pannai—137, Broadway, Madras.
Vanathi Pathippagam—82/1, Pondy Bazaar, T'Nagar, Madras 17.
Varadachary & Co., P.—8, Linghi Chetty Street, Madras 1.
Vidya Sagar Corpn. (P) Ltd.—35, Katchaleswaran Agraharam, Madras 5.
Vindhya Publications—19, Stringers Street, Madras.
V. Sadanand—Post Box No. 2447, Madras 2.

BRASS & COPPER PRODUCTS

Hindusthan Metal Refinery & Rolling Mills Ltd.—124, Mint Street, Madras.
Indian Metal & Metallurgical Corpn.—498, Mint Street, Madras.

BRICKS AND TILES MFRS. & DEALERS

Best & Co., Ltd.—First Line Beach, Madras.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

BROKERS (STOCK AND SHARE)

B. N. Viswanathan & Co.—310/311, Linghi Chetty Street, G. T., Madras 1.
Chitra & Co.—110/111, Armenian Street, Madras 1.
Dalal & Co.—National Insurance Building, Esplanade, Madras 1.
Kothari & Sons—Oriental Building, Armenian Street, Madras 1.
Maconochie & Co.—Mercantile Bank Building, Madras 1.
Paterson & Co.—22, Errabalu Chetty Street, Madras 1.

RAJ & CO.—107/B, Armenian Street, Madras 1.

Ramlal & Co.—17, Angappa Naick Street, Madras 1.
Somayajulu & Co.—Andhra Insurance Buildings, 337, Thambu Chetty Street, Madras 1.

SWASTIK & CO.—Stock & Share Brokers, Safaiya Chambers, 7, Second Line Beach, Madras 1.

Trojan & Co.—New India Buildings, 13/14, Second Line Beach, Madras 1.
Venkataraman & Co.—Bombay Mutual Building Annexe, 322/323, Linghi Chetty Street, Madras 1.

V. S. KRISHNASWAMI & CO.—106, Armenian Street, Post Box 265, Madras-1.

BUILDING ENGINEERS AND CONTRACTORS

Associated Constructions.—Venkatachala Mudali Street, Madras.
Associated Industrial & Engg. Corpn. Ltd.—14, Boag Road, Madras 17.
British & Eastern Engineering Co.—16, General Patters Road, Madras 2.
Construction Engineering Corpn.—1, Club House Road, Madras 2.
Coromandel Engineering Co., Ltd.—106, Armenian Street, Madras 1.
Durai Bros.—1/11, Umpherson Street, Madras 1.
Gajendra Prasad, B.—48, Venkatrangam Pillai Street, Madras 5.
Gally & Co.—28, General Patters Road, Madras 2.
Gannon Dunkerley & Co.—14, Boag Road, T. Nagar, Madras 17.
General Engineering Co.—27, Narasingapuram Street, Mount Road, Madras 2.
Harold & Co.—57, General Patters Road, Madras 2.
Joshi & Co.—24, Thambu Chetty Street, Madras 1.
Kesari Construction Co.—5, Burkitt Road, Madras 17.
King & Co.—321, Thambu Chetty Street, Madras 1.
K. S. Venkataraman & Co.—4, Dr. Thomas Road, Madras 17.
Krishna & Co.—25, Thambu Chetty Street, Madras 1.
Kutti & Rao.—1/95, Broadway, Madras 1.
M. Arunachalam & Co.—34, Lloyds Road, Mylapore, Madras 4.
Madras Builders.—15-C, Vijayaraghavachari Road, Madras 17.
Madras Engineering Syndicate.—83, Poonamallee High Road, Madras 10.
Masseys Engineers.—4-B, North Rly. Terminus Road, Madras 13.
Minerva Trading Co.—Andhra Insurance Bldg., Thambu Chetty Street, Madras 1.
Modern Construction Co.—14, Srinivasa Iyengar Road, Alwarpet, Madras.
Modern Housing Construction & Properties Ltd.—13, Westcott Road, Madras 14.
Murali Construction Co. P. Ltd.—9/62, Royapettah High Road, Madras 14.
Murugappa & Sons.—Swastik House, Armenian Street, Madras 1.
Nathan & Co.—42, Harrington Road, Chetpet, Madras 31.
National Co.—Dr. Besant Road, Madras 5.
National Engineering Co. (M.) P. Ltd.—379, N.S.C. Bose Road, Madras 1.

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Pathy & Co.—186, Triplicane High Road, Madras 5.
Rathnam & Co.—311, Thambu Chetty Street, Madras 1.
Satyanarayana Brothers.—25, Edward Elliot Road, Madras 4.
Simplex Concrete Piles (India) Ltd.—Casamajor Road, Madras 8.
South India Corporation (Madras) Ltd.—Catholic Centre, Armenian Street, Madras 1.
Southern Constructions P. Ltd.—Luz Avenue, Madras 4.

S. SUBRAMANYAM & CO.—Building Engineers & Contractors, 5, Sir C. V. Raman Road, Alwarpet, Madras 18. Partners: S. Subrahmanyam, B.A., B.E., A.M.I.E. (Ind.); S. Ramamurthy, B.E.

Tarapore & Co.—175/1, Mount Road, Madras 2.
Techno Engineering Co.—14-D, Sterling Road, Nungambakkam, Madras 31.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BURNERS (OIL AND GAS)

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—United India Life Building, Esplanade, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

BUTTER & GHEE MERCHANTS

A. Muthuswami Chetty.—3/126, A. R. H. Road, Mylapore, Madras 4.
A. Ramaniah Naidu.—76, Pycrofts Road, Triplicane, Madras 5.
A. R. Kuppuswami Chettiar.—41, Purasawakkam High Road, Madras 7.
A. V. Raghavan & Co.—56, Usman Road, T. Nagar, Madras 17.
Ananda & Co.—No. 6, Audiappa Naick Street, Madras 1.
Annamalai, M. M. Chokkalingam Chetty & Co.—3, Audiappa Naick Street, Madras 1.
B. Bhattu, Butter Merchant.—16, Polathope, Mylapore, Madras 4.
B. Shunmuga Ghowder.—26, Tippur Sahib Street, Mount Road, Madras.
B. Venkateswara Rao & Co.—136, Purasawakam High Road, Madras.
Bhaskaran & Co.—No. 5, Audiappa Naick Street, Madras 1.
C. Radha Krishnan.—9/88, Mannadi Street, Madras.
C. V. Raju.—140, Thambu Chetty Street, Madras.
Coimbatore Ghee Stores.—Audiappa Naick Street, Madras.
D. Sambanda Mudaliar.—291-B, High Road, Triplicane, Madras 5.
D. V. Dairy Farm (Nambisan).—No. 7, IV, Trust Cross Street, Mandavalipakkam, Madras.
Dega Malla Kondiah Naidu.—32, Mala Ponnappa Mudaly Street, Triplicane, Madras 5.
Dhanalakshmi Stores.—55, Big Street, Triplicane, Madras 5.
Drowpathi Stores.—105, Royapettah High Road, Madras 4.
G. Janakiram Mudaliar.—Thiruvathiyur High Road, Washermanpet, Madras 21.
Gajapathi.—1, Arthoon Road, Madras 13.
Geetha Butter House.—Audiappa Naick Street, Madras 1.
Govindaswamy Chetty & Co., T.—Audiappa Naick Street, Madras.
Jayalakshmi Stores.—9, Solaiappa Mudaly Street, Mylapore, Madras 4.
K. A. Palaniapper Chettiar.—12, Mahalakshmi Street, T. Nagar, Madras 7.
K. P. Venkatachala Iyer.—27, Car Street, Triplicane, Madras 5.
K. Pedha Penchalaiah.—4, T. P. Koil Street, Triplicane, Madras 5.
K. R. Eakambaram Chetty.—64 & 65, Rasappa Chetty Street, P. T., Madras 3.
K. S. Munuswamy Pillai.—10, Mangapatu Naicken Street, Chintadripet, Madras 2.
K. S. Padmanabha Iyer.—4, Singarachari Street, Triplicane, Madras 5.
K. Subbarayan.—C/o Murugan Ghee Stores, 88, Thambu Chetty Street, Madras.
K. Sundarrajan, C/o South Indian Ghee Stores.—11, Lalithapuram Street, Royapettah, Madras 14.
K. Venu Chettiar.—118, Royapettah High Road, Luz, Mylapore, Madras.
Kamadenu Stores.—101, Tana Street, Madras 7.
Kannan Butter House.—No. 5, Audiappa Naick Street, Madras.
M. Muthuswamy Chettiar.—61, Pakkir Sahib Street, Triplicane, Madras.
M. S. Sambandam.—115/116, Pycrofts Road, Triplicane, Madras 5.
M. S. Thangappa Nadar.—2/1, Krishnappa Naicken Tank Street, Madras.
M. Sundaram Chetty.—19, Samichari Street, Royapettah, Madras 14.
M. Thangavelu Chetty.—58, T. P. Koil Street, Triplicane, Madras 5.
M. Venkatesam Chetty, 2/63, Big Street, Triplicane, Madras 5.
Malisetty Mangaiah Chetty, 28, Car Street, Triplicane, Madras 5.
Minerva Stores.—21, Krishnan Koil Street, Madras.
Murugesa Mudaliar, K.—483, T. H. Road, Washermanpet, Madras 21.
Muthuswamy Chettiar.—1/96, Big Street, Triplicane, Madras 5.
N. G. Annamalai Chettiar.—4, Ganapathi Mudaly Street, Triplicane, Madras 5.
N. Narayanan, 13, Garden Street, Kilpauk, Madras 10.
N. Venkataswamy Chettiar.—48, Kuppu Muthu Mudaly Street, Triplicane, Madras 5.
New Golden Dairy.—36, Perumal Chetty Street, Madras 7.
O. M. Sivaswamy.—9/99, Coral Merchant Street, Madras.
P. K. Sundaram Chettiar.—C/o Sundaram & Co., Ponnambala Vodyar Street, Mylapore, Madras.
P. Narasimhachari.—15, Sala Vinayagan Koil Street, Muthyalpet, Madras.
P. Pitchiah.—3, Ramaswamy Maistry Street, Triplicane, Madras 5.
P. Srinivasa Rao.—2/11, Avadanam Ramaswamy Iyer Street, Madras 21.
P. Venkatappa Naidu.—26, Partha Sarathi Naidu Street, Triplicane, Madras 5.
P. V. Srinivasan, Srinivasa Provision Stores.—18, Pycrofts Road, Triplicane, Madras.
Padma Stores.—1-A, Mobarays Road, Royapettah, Madras 14.
Panduranga & Co.—Audiappa Naick Street, Madras 1.
Perumal & Co.—137, Audiappa Naick Street, Madras.
R. Raghavachari.—Jaya Stores, 58, T. Nagar, Madras 17.
R. P. Pulliah Chetty & Co.—Audiappa Naick Street, Madras.
R. P. Chinniah.—17, Kuppaiah Chetty Street, Madras 17.
S. Batachai Mudaliar.—31, Venkatesa Battan Street, Poriamet, Vepery, Madras.
S. Ganapathi.—18, South Mada Street, Mylapore, Madras 4.
S. Lakshmipathy.—36, Ayya Mudali Street, Chintadripet, Madras 2.
S. P. Krishnaswamy Nayagar.—33, Paper Mills Road, Porambur, Madras.
S. V. Gopalakrishnan.—97, Egmore High Road, Egmore, Madras.
Sanjeevi & Co.—136, Audiappa Naick Street, Madras.
Seshaiah Naidu.—23, Pallappan Street, Triplicane, Madras 5.
Sivaram & Co.—Audiappa Naick Street, Madras.
Sreenivasa Ghee Stores.—Audiappa Naick Street, Madras.
Subramani Ghee Stores.—28, Singara Chari Street, Triplicane, Madras.
Subbaram Reddy.—14, Alangatha Pillai Street, Triplicane, Madras.
Swami Bros.—28, North Meda Street, Mylapore, Madras 4.
Swathantra & Co.—13, Subrayan Street, Triplicane, Madras 5.
T. D. Subramanian (National Provision Stores).—97, Tana Street, Purasawalkam, Madras 17.
T. Subbiah Chetty & Co.—130, Audiappa Naick Street, Madras.
Thiruvengadathan Iyer.—20, Kuppiar Street, Madras 1.
V. K. Parthasaradhy.—46, Purasawakam High Road, Madras 7.
V. Munuswami Naidu.—13, Hajee Husain 1st Lane, Royapettah, Madras.
V. Thirupathi Naidu.—41, Chinnappa Rowther Street, Triplicane, Madras.
Vadivamba & Co.—Audiappa Naick Street, Madras 1.

CABLES AND CABLE BOXES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CANVAS AND TARPAULINS (WATERPROOFING MATERIAL)

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Gordon & Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 1.

CARD CLOTHING

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

CEMENTS & CONCRETE COMPANIES

Amalgamations Private Ltd.—202, Mount Road, Madras.
Asbestos Cement Ltd.—202, Mount Road, Madras 2.
Associated Cement Companies Ltd.—Mount Road, Madras 2.

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India Cement Ltd.—Vanguard House, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd.—379, Netaji Bose Road, Madras 1.
Wilson & Co., Ltd.—North Railway Terminus Road, Royapuram, Madras.

CHEMICAL DEALERS

Al. Sp. Pl. Subramanyam Chettiar.—Govindappa Naik Street, Madras 1.
Ameer Trading Corporation Ltd.—Govindappa Naik Street, Madras 1.
Amritlal & Co., Ltd.—Linghi Chetty Street, Madras 1.
Aniline Dyes & Chemicals Co.—Govindappa Naik Street, Madras 1.
A. T. Meherwada.—Govindappa Naik Street, Madras 1.
Capco Private Ltd.—16, Armenian Street, Madras 1.
Carl & Co.—44, Purasawalkam High Road, Madras 7.
Chandra Veerabhadrappa & Bros.—Govindappa Naik Street, Madras 1.
Chowgule & Co. (Hind) P. Ltd.—7/90, Wallajah Road, Madras 2.
C. J. Seth.—Bunder Street, Madras 1.
Dadajee Dhackjee & Co., Ltd.—Govindappa Naik Street, Madras 1.
Ganga Dyes & Chemicals.—Nyniappa Naik Street, Madras 3.

INDIRA CHEMICAL AGENCY.—208, Govindappa Naik Street, Madras 1. Distributors to Messrs. Anil Starch Products Ltd., Ahmedabad, Madras, Mysore, Andhra and Kerala States and to Messrs. Dharangdhra Chemical Works Ltd., for their Caustic Soda, Soda Ash and Soda-bi-Carb for the State of Mysore.

Indo-German Agencies Ltd.—67, Dr. Alagappa Chettiar Road, Madras 7.
International Trading Corpn.—Mint Street, Madras 3.

K. MOHAN & CO.—11, Govindappa Naick Street, Madras-1. Chemicals for Textile, Tanning, Sugar, Plantation, Paper, Glass, Match, Ceramics, Foundry, Inks and Pharmaceutical Industries including requisites for Disinfectants, Insecticides and Perfume Manufacturers.

Khatau Vallabhdas & Co.—Govindappa Naik Street, Madras 1.
Lakshmi Colour Co.—Govindappa Naik Street, Madras 1.
Lashmidas Dwarkadas & Co.—Govindappa Naik Street, Madras 1.
Madras Colour Co.—Govindappa Naik Street, Madras 1.
Mount Mettur Pharmaceuticals P. Ltd.—3, Greenways Road, Madras 28.
M. Mohanlal & Co.—Mint Street, Madras 3.
Nanavati & Co., Ltd.—Govindappa Naik Street, Madras 1.
Narandas Pramanandas.—Govindappa Naik Street, Madras 1.
N. K. Ramamoorthy.—Devaraju Mudali Street, Madras 1.
N. V. Kuppuswamy Iyer.—Pilliar Coil Street, Madras 3.
Oriental Mercantile Agency.—99, Armenian Street, Madras 1.

P. K. JAPEE & CO.—99, Nainiappa Naick Street, Madras 3.

Premier Indian Scientific Co. Ltd.—1/33, Varadarajulu Naidu Road, Madras 8.

RAMNATH & CO.—5, Kondi Chetty Street, Madras 1.

Seth Sheonarain & Sons.—3/202, Govindappa Naick Street, Madras 1.
South India Dyes Co.—Govindappa Naik Street, Madras 1.
Union Colour Co.—Thiruvottiyoor High Road, Madras.
Vattson Corporation.—56, Gengu Reddy Road, Madras 8.
Vijaya Chemical & Toilet Works.—'Vijaya Mansions', 15, Clements Road, Madras 7.

CHEMICALS (IMPORTERS)

Best & Co., Ltd.—First Line Beach, Madras 1.

BOB CORPORATION.—20, Anderson Street, Madras 1. Importers of Heavy Chemicals, Milk Powder and Sundry Imports.

East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
H. Chandanmal & Co.— 97, Nyniappa Naick Street, Madras 3.
Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.

JAASKO AGENCIES.—20, Anderson Street, Madras 1. Importers of Heavy Chemicals, Milk Powder and Sundry Imports.

May & Baker (India) Ltd.—Purshotham Building, 193, Mount Road, Madras 2.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Ranganadhan, N.—25, Godown Street, Madras.
Sanghavi & Co.—90, Nyniappa Naick Street, Madras 3.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras.

CHEMICALS (MANUFACTURERS)

Associated Pharmaceutical Industries Pvt. Ltd.—271, Angappa Naick Street, Madras.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Imperial Chemical Industries (India) Ltd.—Bombay Mutual Building, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Sreevatsa Chemicals & Drugs Ltd.—72, Govindappa Naick St., Madras.

CHEMICAL & PHARMACEUTICAL PRODUCTS MANUFACTURERS & DEALERS

Alvitone Laboratories.—20, Trunk Road, Madras 6.
Amrutanjan Ltd.—Church Road, Mylapore, Madras.
Arvind Laboratories.—Arcot Road, Madras 26.
Aryan Pharmaceuticals.—34, Ayya Mudali St., Chintadripet, Madras.
Asco Pharmaceuticals.—13, Errabalu Chetty Street, Madras.
Associated Pharmaceutical Industries Pvt. Ltd.—271, Angappa Naick Street, Madras.
Ayurvedashram Ltd.—29, Gopathi Narayanaswamy Road, T. Nagar, Madras.
Bapuchi Pharmaceuticals.—Linghi Chetty Street, Madras 1.

BHARATH LABORATORIES.—No. 1, Pilliar Koil Street, Arumbakkam, P. O. Box 2471, Madras 21.

BIOLOGICAL LABORATORIES.—Props. : Hahnemann Homeo Institute, P. B. No. 19, Tiruvarur.

Buckingham & Carnatic Co.—P.O. Box No. 1966, Madras.
Chemical & Pharmaceutical Enterprises.—368/69, T. H. Road, Madras 21.
Chemical Engg. Corpn. Ltd.—Aminjikarai, Madras.
Chemo Pharma Laboratories Ltd.—Purushotam Bldg., 163, Mount Road, Madras.

CITADEL FINE PHARMACEUTICALS.—32, Mint Street, Madras 3.

Cochin Pharmaceutical Co.—New Bharat Building, Mount Road, Madras.
East India Pharmaceutical Works Ltd.—22, Second Line Beach, Madras 1.
Ehrlich Laboratories.—Vasudeva Balaji Nagar, Royapettah, Madras.
Hall Mark Pharmaceuticals.—Khaleeli Mansions, Mount Road, Madras 2.
Hamsa Laboratories P. Ltd.—1/1, Cross Road, Madras 21.
Herts Pharmaceuticals Ltd.—First Line Beach, Madras 1.
Indian Chemicals & Therapeutical Works Ltd.—14-15, Second Line Beach, Madras.
Indian Health Institute Laboratory Ltd.—Broadway, Madras.
Indo French Pharmaceutical Co.—Tondiarpet 1st Dn., Madras.
Industrial & Commercial Syndicate.—17, Rundall's Road, Madras.
Jammi Venkatramanayya & Sons.—1/1, Brodies Road, Mylapore, Madras.
Jeevanjan Laboratories.—15, Westcott Road, Royapettah, Madras.
Little's Oriental Balm & Pharmaceuticals Ltd.—11-12, First Line Beach, Madras.
Kanara Pharmaceutical Works.—44, Purasawalkam High Road, Madras.
Kesari Kuteeram Ltd.—15, Westcott Road, Royapettah, Madras.

LUXONAL.—17/1, Ramakrishna Road, Madras-4. "Luxonal" Hair-Restorer for baldness, dandruff and grey hair—External /Internal ; "Luxonal" Pigment Restorer for Leucoderma and White Patches—External/Internal ; "Luxonal" Tuberculosis—Cure for Intestinal and Pulmonary Tuberculosis.

Madras Alkali & Chemical Works, Ltd.—13, Kondi Chetty Street, George Town, Madras.
Meclec Nutriments & Pharmaceuticals Ltd.—26, Errabalu Chetty St., G. T. Madras.
Narasu Chemicals & Industries.—9, Kennets Lane, Egmore, Madras.
Neo Remedies Mfg. Co.—613-H, Palm Grove, Royapettah High Road, Madras.
Oriental Research Laboratory.—147, Purasawalkam High Road, Vepery, Madras.

PHARMACEUTICAL & RESEARCH LABORATORIES.—19, Dr. Guruswami Mudaliar Road, Madras 10.

Primco Ltd.—Thambu Chetty Street, Madras.

RAKA CORPORATION PRIVATE LTD.—138, Moore Street, Madras 1. Grams : "RAKACORP" ; Branches : Vijayawada, Hyderabad, Cuttack, Ernakulam ; Importers, Pharmaceuticals Distributors.

Rangto Laboratories.—161, Purusawalkam High Road, Vepery, Madras.
South India Drug & Essence Co. Ltd.—2/5, Second Line Beach, Madras.
South Indian Products Ltd.—55, Bunder Street, George Town, Madras.
Sreevatsa Chemicals & Drugs Ltd.—72, Govindappa Naick Street, Madras.

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Standard Pharmaceutical Works Ltd.—19, Sembudoss Street, Madras.
Tablets Ltd.—11-12, First Line Beach, Madras.
Teddington Chemical Factory Ltd.—113, Arcot Road, Viriambakkam, Kodambakkam, Madras.
Thirumal Industrial & Chemical Works.—73-74, Gollawar Agraharam Road, Madras 21.
Wilfred Pereira Ltd.—2, Hunters Road, Vepery, Madras.

CHILLIES MERCHANTS

A. C. Raghavulu Chetty & Sons.—22, Chinnathambi Mudali Street, Madras.
Aitha Ramanatham Chetty & Co.—13, Chinnathambi Mudali St., Madras.
Appah & Co.—2, Chinnathambi Mudali Street, Madras.
C. P. V. Kotaiah Chetty Sons & Co.—21, Chinnathambi Mudali St., Madras.
Dalooram Jayanarayan.—25, Chinnathambi Mudali Street, Madras.
E. Ramasubbaiah Chetty & Co.—1, Chinnathambi Mudali St., Madras.
G. Lakshmaiah & Co.—1/3, Chinnathambi Mudali St., Madras.
G. V. Parthasarathy Chetty.—14, Chinnathambi Mudali St., Madras.
G. Venkatakrishnama Chetty & Co.—18, Chinnathambi Mudali St., Madras.
Guduru Sreeramulu Chetty & Co.—12, Chinnathambi Mudali St., Madras.
Munaga Perumal Chetty, Lakshmana Moorthy.—2/3, Chinnathambi Mudali Street, Madras.
M. Ramachandraiah Chetty Sons & Co.—1, Chinnathambi Mudali St., Madras.
N. Narayana Chetty & Son.—5, Chinnathambi Mudali St., Madras.
Penugonda Radhakrishnamurthy Sons & Co.—20, Chinnathambi Mudali Street, Madras.
Penugonda Venkatasubbarao & Co.—4, Chinnathambi Mudali St., Madras.
Ponnuru Venkataratnam Chetty & Co.—23, Chinnathambi Mudali Street, Madras.
S. Chenchuraghavulu Chetty Sons & Co.—19, Chinnathambi Mudali Street, Madras.
S. N. Veeraswamy Chetty & Co.—33, Anna Pillai Street, Madras 1.
Sree Rama & Co.—16-A, Chinnathambi Mudali Street, Madras.
Sri Venkateswara & Co.—6, Chinnathambi Mudali St., Madras.
T. Raghavulu Naidu & Co.—2/5, Chinnathambi Mudali St., Madras.
V. Chengalraya Reddy & Co.—16, Chinnathambi Mudali St., Madras.
Y. Ranganayakulu Chetty & Co.—24, Chinnathambi Mudali Street, Madras.

CONFECTIONERY & ALLIED PRODUCTS

Bab Confectionery Works.—Madras 21.
Bosotto Hotel Confectionery.—Mount Road, Madras.
Deccan Sugar & Abkhari Co. Ltd.—P. B. No. 12, Madras.
Devi Confectionery Works.—George Town, Madras.
Eveready Confectionery Works.—Thyagaraja Nagar, Madras.
Harrison & Co.—George Town, Madras.
K. G. P. Confectionery.—Tondiarpet, Madras.
Kohinoor Confectionery Product Co. Ltd.—Arcot Road, Kodambakkam, Madras.
Krishna Confectionery Works.—G. T. Madras.
M. A. P. Industries.—362/364, T. M. Road, Tondiarpet, Madras.
National Confectionery.—Alandur, Madras 16.
Parry's Confectionery Ltd.—Dare House, 1st Line Beach, Madras.
Sankara Confectionery Works.—Madras 21.
Spencer & Co.—Mount Road, Madras.
Verghusan & Co.—Pudupet, Madras.

CORK AND CORK PRODUCTS

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

CRANES

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South India Export Co. Ltd.—5, Mclean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CROCKERY MERCHANTS

Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
Aluminium Glassware Emporium.—289, China Bazar Road, Madras.
E. M. Abdulla & Co.—315/318, Netaji S. C. Bose Road, Madras 1.
Indian Glassware Depot.—29, Stringers Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji S. C. Bose Road, Madras 1.
Kassam Chocku & Co.—288, China Bazar Road, Madras 3.
K. S. Shivji & Co.—178/179, Broadway, Madras 1.
Madras Glassware House.—Evening Bazar, Madras 3.
Mohmed Hussain & Bros.—Rattan Bazar, Madras 3.
Noor Mohmed & Co.—288, China Bazar Road, Madras 3.
P. Alli Mohmed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohmed & Co.—287, Netaji S. C. Bose Road, Madras 1.
Poppat Jamal & Sons.—182, Broadway, Madras 1.
S. Ibrahim & Co.—10, Jones Street, Madras.

CRUCIBLES MANUFACTURERS

Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

CUTLERY MERCHANTS

Abdulla & Co., E. M.—315/318, Netaji Subhash Chandra Bose Road, Madras 1.
Abdul Rahim & Bros.—13, Evening Bazar Road, Madras 3.
A. K. Shah & Co.—28/29, Evening Bazar, Madras 3.
Aluminium Glassware Emporium.—289, China Bazar, Madras 3.
Indian Glassware Depot.—29, Stringer Street, Madras 1.
Jamal's Corner Shop.—Evening Bazar Road, Madras 3.
J. M. Jamal & Bros.—289, Netaji Bose Road, Madras 1.
Kassam Chacku & Co.—288, China Bazar, Madras 3.
K. Rajaram & Co.—8, Bunder Street, Madras.
Madras Glassware House.—Evening Bazar, Madras 3.
Mohmed Husain & Bros.—Rattan Bazar, Madras 3.
Noor Mohmed & Co.—288, China Bazar, Madras 3.
P. Alli Mohmed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Peer Mohmed & Co.—3/287, Netaji Bose Road, Madras 3.
Poppat Jamal & Sons.—Broadway, Madras 1.
S. Ibrahim & Co.—10, Jones Street, Madras.

CYCLES AND CYCLE ACCESSORIES

Best Cycle Importing Co.—Broadway, Madras.
Bombay Cycle Importing Co.—7, Broadway, Madras.
British Cycle Trading Co.—10, Broadway, Madras.
Burma Cycle Trading Co.—164, Broadway, Madras.
B. M. Davey & Co.—16-C, Broadway, Madras.
Central Cycle & Motor Co.—170, Broadway, Madras.
English Cycle & Motor Importing Co. (I) Ltd.—4/9, Broadway, Madras.
Metropolitan Cycle House.—24, Broadway, Madras.
National Cycle Importing Co.—12, Umpherson Street, Madras 1.
National Engineering Works.—107, Suryanarayana Chetty Street, Royapuram, Madras.
Poppat Jamal & Sons.—182, Broadway, Madras.
Popular Cycle Importing Co.—8/9, Broadway, Madras.
Raja Cycle Co.—6/8, Broadway, Madras.
Royal Cycle & Motor Co.—13/14, Broadway, Madras.
Saraswati Cycle Importing Co.—15, Broadway, Madras 1.
Saurashtra Cycle Importing Co.—159A, Broadway, Madras.
South India Cycle Importing Co.—7B, Broadway, Madras.
Wilson & Co. P. Ltd.—P. Box 2, Madras 1.

DISINFECTANTS AND INSECTICIDES MFRS.

Bombay Co., Ltd.—169, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Imperial Chemical Industries (India) Private Ltd.—Springhaven Road, The Harbour, Madras 1.
Jaya Bharatam Co.—5, Velders St., Mount Road, Madras.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

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DISTEMPERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co. Ltd.—National Bank Building, First Line Beach, Madras 1.
Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras.

DRILLS AND DRILLING EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Line Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

DRUGS & PHARMACEUTICALS

Alfred Berg Co. (India) Ltd.—23, Bundulls Road, Madras-7.
Associated Pharmaceutical Industries Ltd.—271, Angappa Naick Street, Madras.
Chemical & Pharmaceutical Enterprises.—368/369, Tiruvottiyur High Rd., Tondiarpet, Madras.
Jammi Venkataramanayya & Sons.—1, Arcot Road, Kodambakkam, Madras.
Little's Oriental Balm & Pharmaceuticals Ltd.—No. 10, Purasawalkam High Road, Vepery, Madras.
Spencer & Co. Ltd.—1/153, Mount Road, Madras-2.
Sreevatsa Chemicals & Drugs Ltd.—No. 4, Lakshmi Talkies Road, Aminjikarai, Madras Dist.
Tablets Ltd.—No. 10, Purasawalkam High Road, Vepery, Madras-7.
(For other Pharmaceutical Companies, See under the heading Chemical & Pharmaceutical Products Mfrs. and also under "Pharmaceuticals".)

DYES & CHEMICAL DEALERS

P. S. NARAYANAN & CO.—45, Govindappa Naick Street, Madras-1.

DYESTUFFS IMPORTERS, DEALERS, ETC.

Ameer Trading Corporation Ltd.—Govindappa Naik Street, Madras 1.
Amritlal & Co., Ltd.—Linghi Chetty Street, Madras 1.
Aniline Dyes & Chemical Co.—Govindappa Naik Street, Madras 1.
A. T. MEHARWADE.—9, Govindappa Naik Street, Madras 1.
Capcas Ltd.—Singanna Naiken Street, Madras 1.
Capco P. Ltd.—16, Armenian Street, Madras 1.
Chandra Veerabhandrappa & Bros.—Govindappa Naik Street, Madras 1.
Dadajee Dhackjee & Co., Ltd.—Govindappa Naik Street, Madras 1.
Ganga Dyes & Chemicals—Nyniappa Naik Street, Madras 3.
Indira Chemical Agency—Govindappa Naik Street, Madras 1.
International Trading Corpn.—Mint Street, Madras 3.
Khatau Vallabhdas & Co.—Govindappa Naik Street, Madras 1.
Lakshmi Colour Co.—Govindappa Naik Street, Madras 1.
Lakshmidas Dwarkadas & Co.—Govindappa Naik Street, Madras 1.
Madras Colour Co.—Govindappa Naik Street, Madras 1.
M. Mohanlal & Co.—Mint Street, Madras 3.
Nanavati & Co., Ltd.—Govindappa Naik Street, Madras 1.
P. K. Jappe & Co.—Nyniappa Naik Street, Madras 3.
Ramnath & Co.—Kondi Chetty Street, Madras 1.
South India Dyes Co.—Govindappa Naik Street, Madras 1.
Union Colour Co.—Thiruvottiyoor High Road, Madras.

EARTH MOVING & MATERIAL HANDLING EQUIPMENT

Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ELECTRIC CABLES AND WIRES (MANUFACTURE)

British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.

ELECTRICAL GOODS (ALTERNATORS, MOTORS, GENERATORS AND SETS)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Andhra Electric Co.—Andhra House, 115/A, China Bazar, Madras 1.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madas 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021/2; Grams : "MANDARIN"; P.O. Box No. 146.
Hackbridge Hewittic & Easun Private Ltd.—5/7, Second Line Beach Madras 1.
General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Industrial Stores Company, The.—2, Errabalu Chetty Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The,—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—Dare House, First Line Beach, Madras 1.
P. Natesan (Industries) Ltd.— 191, Triplicane High Road, Madras 5.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Transformer & Switchgear Ltd.—Indian Chamber Bldgs., Esplanade, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co. P. Ltd.—P. Box 2, Madras 1.

ELECTRICAL GOODS AND APPLIANCES

Andhra Electric Co.—Andhra House, 115A, China Bazar, Madras.
Bajaj Electricals P. Ltd.—3/33, Mount Road, Madras 2.
Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
Hackbridge Hewittic & Easun Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Himco (India) Private Ltd.—Dinroze Estate, 1/17, Mount Road, Madras 6.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
K. S. Shivji & Co.—178-79, Broadway, Madras 1.
Kumar Brothers—61, Netaji Subhas Chandra Bose Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Madras Electricals Ltd.—55/57, Rattan Bazar, Madras 3.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
P. Allimahomed Zinna & Co.—67/68, Rattan Bazar, Madras 3.
Patel Electric Company Private Ltd.—18, Govindappa Naik Street, Madras 1.
Ramdas Motor & Electrical Co.—194, Mount Road, Madras 2.
Scott & Pickstock P. Ltd.—Catholic Centre, Armenian Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Westrex Company India (formerly Western Electric Co. of India).—35, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERING

Addison & Co. Ltd.—158, Mount Road, Madras.
Amalgamations Private Ltd.—202, Mount Road, Madras.
Binny's Engineering Works Pvt. Ltd.—Springhaven Road, The Harbour, Madras.
Carborundum Universal Ltd.—52/53, Jehangir St., Madras.
Chitrom & Co. (Structural Engineers).—Main Road, Royapuram, Madras-31.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gannon Dunkerley & Co. Ltd.—14, Boag Road, Madras 17.
General Electric Co. of India Pvt. Ltd.—Magnet House, 202, Mount Rd., Madras.

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Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
Heatly & Gresham Ltd.—United India Bldg., Esplanade, Madras 1.
Indian Commerce & Industries Co. Private Ltd.—95, Broadway, Madras.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Metal Box Co. of India Ltd.—Elaiya Mudali Street, Tondiarpet, Madras.
Richardson & Cruddas Ltd.—First Line Beach, Madras.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Simpson & Co. (India) Ltd.—202-203, Mount Road, Madras.
South India Export Co. Ltd.—5, Mclean Street, Madras 1.
Standard Motor Products of India Ltd.—29, Mount Road, Madras.
Sundaram Motors Pvt. Ltd.—37, Mount Road, Madras.
T.I. Cycles of India Ltd.—Ambattur Near Madras.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

ENGINEERS—ELECTRICAL AND MECHANICAL

A.C.E.C. India P. Ltd.—19/21, Muker Nallamuthu St., Madras 1.
Acme & Co.—61, G. N. Chetty Road, Madras 17.
Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Associated Electricals Private Ltd.—12-A, Linghi Chetty Street, Madras 1.
British & Eastern Engineering Co.—16, General Patters Road, Madras 2.
Calcutta Electrical Mfg. Co. Ltd.—27, Vaidyaramier St., Madras 17.
Daga Commercial Corpn. P. Ltd.—433, Mint St., Madras.
Easun Engineering Co. Ltd.—5/7, Second Line Beach, Madras 1.
Electrical Engineering Equipment Co.—4, Errabalu Chetty St., Madras 1.
Electronic Service Co.—17/35, Mount Road, Madras 2.
F. & C. Osler (India) Ltd.—Post Box No. 1276, 1st Line Beach, Madras.
Fomra Brothers—"Fomra House", 392, Mint Street, Madras.
General Electric Co. of India Private Ltd.—Magnet House, Mount Road, Madras 2.
Guest, Keen, Williams, Ltd.—200, Mount Road, Madras 2.
Hindustan Dealers Ltd.—4, Stringers St., Madras 1.
India Electric Works, Ltd.—Chatnath Buildings, 19/29, Mount Road, Madras 2.
Jaigopal & Co.—119, Mount Road, Madras 2.
Jayems Engineering Co.—Errabalu Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
K. R. Kothandaraman & Co. (Private) Ltd.—Indian Chamber Bldg., Esplanade, P. O. Box 1555, Madras 1.
Kumar Brothers—61, N. S. C. Bose Road, Madras 1.
Lucas Indian Service, Ltd.—10, Patullo Road, Madras 2.
Madras Electricals Ltd.—55/57 Ratran Bazar, Madras 3.
Mahomed Ebrahim & Co. P. Ltd.—7/8, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.

MASSEYS.—Post Box 554, Royapuram, Madras-13.

MODI & MODI.—11, Linghi Chetty Street, P. B. No. 293, Madras 1. Phone : 3096. Grams : "HIGHSPEED". Electrical Merchants and Engineers. Branches : Madurai & Vijayawada.

Orient Distributors.—26, Errabalu Chetty St., Madras 1.
Radio & Electricals Ltd.—38, Mount Road, Madras 6.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
RM. S. & Co. Private Ltd.—16, Broadway, Madras 1.
R. S. M. & Co.—236/237, Devaraja Mudaly St., Madras 1.
Seeyensee & Co.—55, Anderson St., Madras 1.
Shivji & Co., K.S.—'Shivji Bldgs.,' 178/179, Broadway, Madras 1.
South India Corporation (Madras) Ltd.—2, Armenian Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach Madras 1.

ENGINEERS, HYDRAULIC

Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

ENGINES (DIESEL AND OIL)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bharat Motors.—35, Mount Road, Madras 2.
Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.

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Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Hindustan Pistons Ltd.—Madras 2.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The,—379, Netaji Subhas Chandra Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

ESSENTIAL OILS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
East Asiatic Co. (India) Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

EXPORTERS OF ORES & MINERALS

INDIAN BISELERS.—Post Box No. 1595, Madras-1.

FERTILISERS (IMPORTS)

Imperial Chemical Industries (India) Private Ltd.—Bombay Mutual Bldg., N.S.C. Bose Road, Madras 1.
Louis Dreyfus & Co., Ltd.—310/311, Linghi Chetty Street, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
V. Venugopal Pillai & Co.—2/27, Broadway, Madras 1.

FERTILISERS (MFRS.)

Imperial Chemical Industries (India) Private Ltd.—Bombay Mutual Bldg., N. S. Bose Road, Madras 1.
Mysore Fertiliser Co.—31/A, North Beach Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Scientific Fertiliser Co., Ltd.—53, Second Line Beach, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.

FILTERS AND FILTRATION PLANT

Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FIRE EXTINGUISHERS AND FIRE FIGHTING EQUIPMENT

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co., Ltd.—7, Armenian Street, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

FOUNTAIN PENS IMPORTERS, MANUFACTURERS AND DEALERS

Ethiraj Industries.—60, Mint Street, Madras 3.
Gem & Co.—225-226, Netaji Subhas Chandra Bose Road, Madras 1.
Globe Industries.—6, Gopal Das Road, Madras 2.
Gujarat Industries.—20, Kasi Chetty Street, Madras 1.

LOYAL PEN COMPANY.—23, Errabalu Chetty Street, Madras 1. Dealers in Pen and Spares—Rates rasonable—Enquiries solicited.

Pen Corner.—Netaji Subhas Chandra Bose Road, Madras 1.
The Pilot Pen Co. (India) Private Ltd.—Catholic Centre, Armenian Street, Madras 1.
Rada Pen Co.—Mint Street, Madras 3.

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RADHAKRISHNA & CO.—No. 28, Arani Rangan Street, Madras 21.

Rance Pen Co.—29, Sunkurama Chetty Street, Madras 1.
Ravi Pen Works.—8, Subramaniam Street, Madras.
Regal Products Ltd.—196, Royapettah High Road, Madras 14.
Shelat Brothers.—8, Lakmudas Street, Madras.
Vedha Fountain Pen Factory.—Tiruvallur, Madras.

FURNACES

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

GLASS & GLASSWARE MANUFACTURERS

Ashok Glass Works.—23, Gantz Road, Perambur Barrack, Madras.
Attur Glass Industries Ltd.—Attur, Salem Dist.
Central Glass Works.—Tiruvottiyur, Madras.
India Silicate Industries.—Mettupalayam, Dt. Coimbatore.
Oriental Glass Works.—25, Gandhi Road, Madras 12.
Poppat Jamal & Sons.—55/58, Konnur High Road, Madras 23.
Prakash Glass Works.—Madavaram, Chinglepet Dist.
Sayani Glass Factory.—Alanavaram, Madras.
Shimada Glass Works.—Ainavaram, Madras.
S. O. Muthunadar Glass Works.—Madavaram, Chingleput Dist.
South India Glass & Enamel Works Ltd.—Cherry Road, Salem.

GLASS AND GLASSWARE MERCHANTS & IMPORTERS

Akbarally Allibhoy.—201-202, Devaraja Mudali Street, Madras 3.
A. N. Mani & Co.—126, Devaraja Mudali Street, Madras.
Bawa Glass & Crockries (P) Ltd.—52, Devaraja Mudali St., Madras.
C. Cunniah & Co.—248-249, Devaraja Mudali St., Madras.
C. Cunniah & Bros.—58-59, Devaraja Mudali St., Madras.
Chithapuram Rajamannar Chetty & Sons.—143, Devaraja Mudali St., Madras.
C. S. Anjaneylu & Co.—100, Devaraja Mudali Street, Madras.
D. Namberumaliah.—54/57, Devaraja Mudali Street, Madras.
D. Ramiah Chetty & Sons.—230, Devaraja Mudali St., Madras.
Kannan & Co.—63/68, Devaraja Mudali Street, Madras.
K. Manavaliah.—3, Subramaniam Lane, Madras.
K. Radhakrishniah.—24, Devaraja Mudali Street, Madras.
K. R. S. Sreenivasiah & Sons.—169, Devaraja Street, Madras.

K. RAJARAM & CO.—8, Bunder Street, Madras 1.

KRISHNA GLASS WORKS.—Manufacturers of Mirrors & Glass Dealers, 26, Venkatachala Mudali Lane, Madras.

K. Ramalinga Mudaliar.—148/149, Devaraja Mudali Street, Madras.
K. Singapermaliah.—151/152, Devaraja Mudali Street, Madras.

MADDHALI RADHAKRISHNIAH & SONS.—16/110, Devaraja Mudali Street, Madras.

Madras Glass & Plywood Depot.—172/176, Devaraja Mudali Street, Madras.
M. Ramakrishna.—200, Devaraja Mudali Street, Madras.
M. Radhakrishinaih & Co.—184-185, Devaraja Mudali St., Madras.
M. Seethamma & Co.—33, Devaraja Mudali Street, Madras.
M. Sampathiah.—17, Venkatachala Mudali Lane, Madras.
M. S. P. Balakrishna Chetty & Co.—221-222, Devaraja Mudali St., Madras.
N. Ranganathiah & Sons.—71/72, Devaraja Mudali St., Madras.
N. Sreemannarayana & Co.—147, Devaraja Mudali St., Madras.
P. N. Balu Chetty & Sons.—237-239, Devaraja Mudali St., Madras.
P. Thiruvarangiah & Son.—3/5, Ayya Pillai Street, Madras.
Peermohamed & Co.—287, China Bazar Road, G.T., Madras 1.
Raja Brothers.—29, Devaraja Mudali Street, Madras.
Ramakrishna Frame Works.—230, Devaraja Mudali St., Madras.
R. Ethirajiah & Sons.—103, Devaraja Mudali St., Madras.
Ranga & Co.—2, Ayya Pillai Street, Madras.
R. Ramanujiah & Son.—87, 191, Devaraja Mudali Street, Madras.
S. Gulam Ghouse.—133, Devaraja Mudali Street, Madras.

SEKAR & SOUMYA.—Glass Dealers, 10/14, Ayya Pillai Street, Madras ; Branch: Loyal Traders, 39, Erullapan Street, Madras-1.

Selvam & Co.—192-193, Devaraja Mudali Street, Madras.
Soumya General Traders.—144-145, Devaraja Mudali St., Madras.
S. M. Yousuff.—37, Devaraja Mudali Street, Madras.
Sri Balaji & Co.—212/214, Devaraja Mudali Street, Madras.
S. V. M. Mohamed Jamaludeen & Co.—207-208, Devaraja Mudali St., Madras.
T. Janakiramiah.—105/107, Devaraja Mudali Street, Madras.
V. Panduranga Chetty.—187-188, Devaraja Mudali Street, Madras.
V. Poongavanam & Bros.—134, Devaraja Mudali Street, Madras.
Venkateswara Frame Works.—247, Devaraja Mudali Street, Madras.

GLUES AND ADHESIVES

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Imperial Chemical Industries (India) Ltd.—Bombay Mutual Bldgs., N. S. C. Bose Road, Madras 1.
Roberts McLean & Co., Ltd.—200, Mount Road, Madras 2.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

GRAPHITE AND GRAPHITE PRODUCTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co. Ltd.—19, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

GUNNY MERCHANTS

Bengal Trading Co.—29, Audiappa Naicken Street, Madras 1.
Chelliah Nadar, V. K.—63, Monegar Choultry Road, Madras 21.
Chenchuraghavulu Chetty, S., & Sons.—2/139, Anna Pillai Street, Madras 1.
Chinniah Chetty, V.—46, Elephant Gate Carts Stand, Madras 1.
Dawood Trading Co.—109, Audiappa Naicken Street, Madras 1.
Devarajulu Chetty, B.C.—21, Ramanan Road, Madras 1.
Devarajulu Chetty, R.E., & Co.—1/34, Audiappa Naicken Street, Madras 1.
Gopal Chetty, K. & Bros.—103, Audiappa Naicken Street, Madras 1.
Govindaswamy Chetty, Kota.—1/34, Audiappa Naicken Street, Madras 1.
Govindaswamy Chetty, M. and Sriramulu Chetty, M. S.—1/38, Audiappa Naicken Street, Madras 1.
Govindaswamy Chetty, T.—99, Audiappa Naicken Street, Madras 1.
Gunniah Chetty, T.—2, Ramanan Road, Madras 1.
Gunny Trading Co.—105, Audiappa Naicken Street, Madras 1.
Guruviah Chetty, J.—105-A, Audiappa Naicken Street, Madras 1.
Jambulingam, S.—29, Monegar Choultry Road, Madras 21.
Joseph Pandian.—66, Monegar Choultry Road, Madras 21.
Kesavulu Chetty, Kota.—10, Ramanan Road, Madras 1.
Kothandaram Chetty, B.C.—133, Audiappa Naicken Street, Madras 1.
Krishniah Chetty, T.—26, Ramanan Road, Madras 1.
Kuppuswamy Chetty, Polur.—19, Ramanan Road, Madras 1.
Kuppuswamy Chetty, R., & Son.—17, Ramanan Road, Madras 1.
Madras Stores.—89, Audiappa Naicken Street, Madras 1.
Mahalingam Pillai, M.—73, Narasu Iyer Street, Madras 21.
Mahalinga Nadar, A.S.P.—24/25, Audiappa Naicken Street, Madras 1.
Mayandi Nadar, S.S. & M.—110, Audiappa Naicken Street, Madras 1.
Munuswamy Chetty, J., & Co.—91, Audiappa Naicken Street, Madras 1.
Munuswamy Chetty, M.C.—40/41, Audiappa Naicken Street, Madras 1.
Muthyala Subbarangiah Chetty.—113, Audiappa Naicken Street, Madras 1.
Narayanaswamy Chetty, K.—6, Ramanan Road, Madras 1.
Narayanaswamy Chetty, V.—6, Ramanan Road, Madras 1.
Padmanabha Chetty, P., & Sons.—27, Ramanan Road, Madras 1.
Palanichamy Nadar, S.P.—71, Monegar Choultry Road, Madras 21.
Pandian & Co.—67, Monegar Choultry Road, Madras 21.
Periasamy Nadar, P.K.—31, Monegar Choultry Road, Madras 21.
Ponnuchamy Chettiar, S.V.S.—92-A, Audiappa Naicken Street, Madras 1.
Radhakrishniah Chetty.—26, Ramanan Road, Madras 1.
Raghavulu Chetty, T.—22, Ramanan Road, Madras 1.
Rajan, P. K.—37, Monegar Choultry Road, Madras 21.
Ramaswamy Nadar, P.K.—39, Monegar Choultry Road, Madras 21.
Sambandan, P.—27, Monegar Choultry Road, Madras 21.
Seeniah Chetty, T.—44, Corporation Lorry Stand, Elephant Gate, Madras 1.
Somasundara Nadar, P.R.S.—13, Monegar Choultry Road, Madras 21.
Sree Gnanambika & Co.—6, Corporation Lorry Stand, Elephant Gate, Madras 1.
Sree Jayalakshmi & Co.—25, Ramanan Road, Madras 1.
Sree Shunmugar Gunny Stores.—70, Monegar Choultry Road, Madras 21.
Sree Suyambu & Co.—13, Monegar Choultry Road, Madras 21.
Srinivasulu Chetty, M.—94, Audiappa Naicken Street, Madras 1.
Subbiah Nadar, A.V.—34, Monegar Choultry Road, Madras 21.
Subramani, P. K.—62, Monegar Choultry Road, Madras 21.
Venkatesulu Chetty, K.—99, Audiappa Naicken Street, Madras 1.
Veeriah Chetty, A.—27, Calathi Pillai Street, Madras 1.
Viswanadham Chetty, M.N.M., & Co.—152, Anna Pillai Street, Madras 1.

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HANDLOOM MERCHANTS & EXPORTERS

Adhithan Palayakat Co.—25, Mallan Ponnappa Mudali Street, Triplicane, Madras 5.
Aiyasamu Mudaliar Son.—11, East Mada St., Mylapore, Madras 4.
Amin & Co.—233, Angappa Naick Street, G. T., Madras 1.
A. M. Ahmed & Co.—255, Linghi Chetty St., G. T., Madras 1.
A. V. Malliah Chettiar & Sons.—5, Ramaswamy Street, Madras 1.
A. R. Panchatchara Mudaliar & Bro.—13, Karpavinayagar Street, Alandur Street, St. Thomas Mount, Madras 16.
Asoka Palayakat Co.—253, Thambu Chetty Street, Madras 1.
Bharat Handloom Textiles.—92, Gafoor Street, Triplicane, Madras 5.
B. Appavoo & Bros.—59, Sadayappa Mudaliar St., Saidapet, Madras 15.
Bismillah Palayakat Co.—72, Angappa Naick Street, Madras 1.
Chanrai Uttamchand.—20, Wallajah Road, Mount Road, Madras 2.
Chettyzons.—28, Mint Subraylulu Naidu Street, Washermanpet, Madras-21.
City Palayakat Co.—25, Muthumari Chetty Street, Madras.
G. Ramachand (Madras).—16, Arunachala Naicken Street, Chindatripet, Madras.
G. R. K. Radharam & Co.—1/54, Armenian Street, Madras.
Gemini Lunghi Co.—1/15, Ramaswamy Street, Madras.
Golden Palayakat Co.—26, Coral Merchant Street, Madras.
Good Luck Palayakat Co.—43, Linghi Chetty Street, Madras.
Govindaswamy Chettiar S. & Co.—52, Ayyappa Chetty Street, Madras.
Gudyatham Lunghi Co.—47, Coral Merchant Street, Madras.
Hadri V. Perumal Chetty & Sons.—15/16, Mangammal Lane, Mint Post, Madras.
Hajee M. A. Shahul Hammed & Sons, Hameedia Palayakat Kaily Co.—23, Pallappan St., Triplicane, Madras.
Hajee S. M. Syed Abdul Rahman Sahib & Co.—111, Moore St., Madras.
Hameedia Lunghi Co.—Royapettah, Madras.
Hindusthan Colour Dyeing Co.—2/20, Sura Mudali Street, Triplicane, Madras.
Hope Prudhomme & Co. Ltd.—271, Angappa Naick Street, Madras.
H. Imperial Palayakat.—8, Jayaram Chetty Street, Saidapet, Madras 15.
India Famous Pulicat Co.—29, Armenian Street, Madras.
Indolanka Traders.—38, Linghi Chetty Street, Madras.
International Import Corpn. (Private) Ltd.—3, Asok Road, Alwarpet, Madras.
K. Abdul Razack Sahib & Co.—44, Angappa Naick Street, G.T., Madras.
K. M. K. Annamalai Chetty & Sons.—27, Mint Street, P.T. Madras.
K. S. P. Balakrishnan & Co.—38, Armenian Street, Madras.
K. V. Subbaraya Chetty Sons.—96, Linghi Chetty Street, G.T., Madras.
Kaithari Lunghi Stores.—287, Thambu Chetty Street, Madras.
Kasimari Stores.—2/28, Jones Street, Madras.
Kasthuri Palayakat Co.—25, Ramaswamy Street, Madras.

KISHINCHAND CHELLARAM.—Exporters & Importers, 11, Narasingapuram St., Mount Road, Madras-2 ; Exporters of Handloom Real Madras Handkerchiefs (West African Varieties), Bleeding Madras, Bluebaft, Furnishings, Bedspreads, Table Covers, Towellings, Dress Materials, All Varieties Handwoven Fabrics also Grey, Bleached and Coloured Cotton Yarn. Phone : 84697 ; Grams : "EVERYTHING".

M. A. B. Abumuhamed Sahib & Bros.—70, Armenian Street, Madras.

M. H. ABDUL GAFOOR & CO.—No. 204, Angappanaick Street, Madras-1 ; Exporters of Handloom Cloth and Importers of Cotton Yarn, Dyes, Chemicals etc., Raw Meterials for Handloom Cotton Textile Industry.

M. M. Mohamed & Co.—32, Angappa Naick Street, Madras.
M. M. Naina & Co.—251, Linghi Chetty Street, Madras.
M. N. M. A. Calendar Lebbai & Bros.—2/235, Surappa Mudali Street, Triplicane, Madras.
M. Naraindas.—16, Arunachala Naicken Street, Chindatripet, Madras.
M. Raju Mudaliar.—9, Karpaga Vinayagar Koil Street, Alandur, Madras.
M. Thulasi Mudaliar.—8, Visagathottam Street, Saidapet, Madras.
Madras Handloom Coy.—94, Thambu Chetty Street, Madras.
Madras Lungi Corpn.—35, Angappa Naicken Street, Madras.
Madras Pulicat Textiles, Co.—1/36, Venkatamaistry Street, Madras.
Madras State Handloom Weavers' Co-operative Society Ltd.—Balasundara Bldgs., 34/A-1, Pantheon Road, Egmore, Madras.
Madariya Lungi Co.—34, Surappa Mudaliar Street, Triplicane, Madras.
Malabar Handloom Textiles.—24, Godown Street, Madras.
Mani & Co.—243, Linghi Chetty Street, G.T., Madras.
Modern Palayakat Co.—12, New Street, Madras.
Mohamed Aboobacker & Co.—95, Thambu Chetty Street, Madras.

MOULANA CO. (PRIVATE) LTD.—52, Angappa Naick Street, Madras.

N. K. Aiyasami Mudaliar.—7, South Mada Street, Mylapore, Madras.
Nagavedu Lunghi Co.—34, Sengalaneer Pillayar Koil Street, Madras.
Nataraja Lungi Co.—117-118, Ramaswamy Street, Madras.
Natarajan & Co.—251, Lingi Chetty Street, Madras.
Oriental Lunghi Co.—3, Arumuga Achari Street, Triplicane, Madras.
Original Pulicat Co.—1/28, Godown Street, Madras.
Overseas Trading Corpn.—94, Linghi Chetty Street, G.T., Madras.
P. A. Mohamed Yusuff & Sons.—333-334, High Road, Triplicane, Madras.
P. G. Ekambara Mudaliar, P. G. Muruguesa Mudaliar.—47, Coral Merchants St., Madras.
P. Sriramulu Chetty & Co.—138, T.H. Road, Washermanpet, Madras.
P. Subbaraya Mudaliar.—55, V. S. Mudali Street, Saidapet, Madras.
P. T. Siramulu Chetty & Bros.—36, Arumuga Mudali St., Washermanpet, Madras-21.
Panchaksharam Lungi Co.—19, Jones Road, Saidapet, Madras-15.
Parvathi Palayakat Co.—110, Coral Merchant Street, G.T. Road, Madras.
Rayon Traders (Private) Ltd.—61, Sembudoss Street, Madras.
Royal Textiles.—42, Tippu Sahib Street, Royapettah, Madras.
S. B. S Trading Co.—8, Ramanuja Iyer Street, Washermanpet, Madras.
S. M. Akbar & Co.—12, Surappa Mudali Street, Triplicane, Madras.
S. M. Syed Ali & Co.—35, Angappa Naick Street, Madras.
S. R. K. Bapu Ismail Sahib & Co.—70, Armenian Street, Madras.
S. Thiruvengadam.—15, Mavadi Vinayakar Koil Street, Kozapettai, Royapetta, Madras.
Samuel Co.—7, New Street, Madras.
Samy Iyer Palayakat Co.—66, Armenian Street, Madras.
Saraswathi & Co.—148, Coral Merchant Street, Madras.
Saraswathi Palayakat Co.—116, Ramaswamy Street, G.T. Madras.
Scissors Palayakat Co.—Triplicane High Road, Madras.
Sell Abubacker & Co.—62, Angappa Naick Street, Madras.
Sellamuthu Sivanadhan & Co., Ltd.—224, Angappa Naick Street, Madras.
Selvam Lungi Co.—59, Old Mambalam Road, Saidapet, Madras-15.
Shunmuga & Co.—21, Kuthadum Pillayar Koil Street, Saidapet, Madras.
Simons & Co.—3, Somasundara Devar 6th Street, Ayanavaram Post, Madras.
Superior Palayakat Co.—116, Ramaswamy Street, Madras.
Swarnambika Lungi Co.—38, Visagathottam Street, Saidapet, Madras.
T. Duraiswamy Mudaliar.—30, Post Office Street, G.T. Madras.
V. A. Khaja Lunghi Co.—62/63, Shaik Dawood Street, Royapeetah, Madras.
V. Govinda Mudaliar Sons.—23, Jones Street, Madras.
V. M. Lungi Emporium.—96, Thambu Chetty Street, Madras.
V. N. K. Textiles.—216, T.H. Road, Tondiarpet Post, Madras.
Velavar Palayakat Co. Ltd.—46, Linghi Chetty Street, Madras.
Wassiamull Assomull & Co.—7, Mohamed Abdullah Street, Chepauk, Madras.
Western Palayakat Co.—20/21, Ramaswamy Street, G.T. Madras.
Yousuff Lunghi Co.—32, Jawahar Hussainkhan 1st Street, Royapeetah, Madras.
Yusuf Lungi Co.—13, Shaik Dawood Street, Triplicane, Madras.

HARDWARE DEALERS AND IRONMONGERS

Abdool Hoossain Jeevajee & Co.—21, Linghi Chetty St., Madras.
Abdul Hussain Salebhoy & Co.—29, Periyanna Maistry St., Madras.

ABDUL KADER & SONS.—7, Angappa Naick Street, Madras 1.

A. Alimohamed & Co.—26, Light Chetty St., Madras.
A. K. Abdullabhoy & Co.—319, Linghi Chetty St., Madras.
A. K. Muthukumaraswami Chetty.—268, Rasappa Chetty St., Madras.
A. Kunnan Chetty.—40/41, Venkatachala Mudali Street, P. T., Madras 3.
A. L. Natesan Chettiar.—200/201, Rasappa Chetty St., Madras 3.
A. M. Goolamali & Co.—20, Errabalu Chetty St., Madras 1.
A. Mohamed & Co.—313, Linghi Chetty St., Madras.
Aminchand Payare Lal.—27, Sembudoss Street, Madras.

ANURADHA PRIVATE LTD.—53, Peters Road, Madras 6.

A. Radhakrishna Chetty.—265, Rasappa Chetty St., Madras.
A. T. Khorakiwala & Co.—11, Vaniar St., Madras.
C. A. Galiakotwala & Co., Pvt. Ltd.—18, Armenian St., Madras.
C. Natesa Chetty.—276, Rasappa Chetty St., Madras.
C. R. Muthukumaraswami Chetty.—256, Rasappa Chetty St., Madras.
C. Senjoo Chetty.—86, Rasappa Chetty St., Madras.
C. Thirunavukarasu Shetty.—267, Rasappa Chetty St., Madras 3.
Emcete & Sons, Pvt. Ltd.—Sembudoss St., Madras.
Fakrudeen & Co.—307, Linghi Chetty Street, Madras.
G. R. Datchanamurthy Chetty & Son.—215, Rasappa Chetty St., Madras.
G. Suryanarayana Chetty & Co.—65, Govindappa Naicken St., Madras.
Gulamali Abdul Hussain & Co.—28/29, Linghi Shetty St., Madras.
H. A. Taiyebali & Co.—294, Linghi Chetty St., Madras.
H. Abbasbhoy Ahmedaly & Co.—288, Linghi Chetty St., Madras.
Hind Industrial Corpn. Ltd.—79, Sembudoss St., Madras 1.
India Co., Ltd.—108, Armenian Street, Madras.
Kali Natesa Chetty.—260, Rasappa Chetty St., Madras.
Khanderia P. Ltd.—1, Tucker's Lane, Madras 1.

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Khandhalwal Bros., Ltd.—82, Sembudoss St., Madras.
K. N. Chari & Co.—144, Nyneappa Naick Street, Madras.
K. Sreenivasa Chari.—277, Rasappa Chetty St., Madras.
K. Thangavelu Chetty.—88, Rasappa Chetty St., Madras.
K. Thiruvengadam Chetty & Co.—93, Rasappa Chetty St., Madras.
K. V. Seshiah Chetty & Co.—44, Thathamuthiyappan St., Madras.
M. Arumuga Chetty.—269, Rasappa Chetty St., Madras.
M. A. Chindambaram.—6, Armenian Street, Madras.
Madras Circle Pipe Dealers' Assen. Ltd.—6, Armenian St., Madras 1.
Madras Circle Regd. Stockholders' Assen. Ltd.—6, Armenian St., Madras 1.
Madras Circle Scrap Dealers' Assen. Ltd.—6, Armenian St., Madras 1.
Madura South India Corpn., Ltd.—80, Sebudoss St., Madras.

MAYURANATHAM & CO.—271, Rasappa Chetty St., Madras.

M. C. S. Rajan & Co.—155, Nyneappa Naick Street, Madras.
M. C. Sundara Rajan & Co.—290, Linghi Chetty St., Madras.
M. Kuppuswami Naicker.—15, Sembudoss Street, Madras.
M. M. Abbas & Bros.—7, Sembudoss St., Madras.
Mohamedaly Sarafaly & Co.—10, Sembudoss St., Madras.
Murlimal Santram & Co.—13, Sembudoss Street, Madras.
Muruga & Co.—253/254, Rasappa Chetty St., Madras 3.
P. K. Vaduvammal.—258, Rasappa Chetty St., Madras.
P. M. Kalathi Chetty, P. M. Muthumanickam Chetty.—151, Nyneappa Naick St., Madras.
P. M. Ramanjulu Chetty.—172/3, Nyneappa Naick St., Madras.
P. Natesa Chetty.—102, Rasappa Chetty St., Madras.
P. R. Desikan & Sons.—75, Govindappa Naick St., Madras.
P. V. Rathakrishna Chetty & Bros.—45, Venkatachala Mudali Street, Madras 3.

RAJALAXMI CORPORATION.—170, Broadway, Madras 1.

S. Akbarali Haidarali & Co.—27, Linghi Chetty St., Madras.
S. A. Bhagat & Co.—26, Periyanna Maistry St., Madras.
Saleh Bros.—6, Sembudoss Street, Madras.
Scott & Pickstock P. Ltd.—Catholic Centre, Armenian Street, Madras 1.
South India Corn. (A) Pvt. Ltd.—6, Armenian St., Madras.
T. H. Shamsudin & Co.—12 & 13, Devaraja Mudali Street, Madras 3.
T. M. Radhakrishna Chetty & Co.—261, Rasappa Chetty St., Madras.
T. T. Yagappa Chetty & Son.—116, Nyneappa Naick St., Madras.
V. Elumalai Chetty.—259, Rasappa Chetty St., Madras.
V. Kanakiah Chetty & Co.—148, Nyneappa Naick St., Madras.
V. Kuppuswami Chetty & Co.—262, Rasappa Chetty St., Madras.
V. M. Periyaswami Chetty & Co.—89, Rasappa Chetty St., Madras.
V. M. K. Pillai.—263, Rasappa Chetty St., Madras.
V. Venugopal Pillai & Co.—2/27, Broadway, Madras.

VAZIRBUN TRADING.—A-29, Parianna Maistry Street, Madras 1; Dealing in General Machinery Tools, Weighing Machines, Water Meters, Iron & Hardware.

HEARING AIDS

Electronic Service Company.—17-35, Mount Road, Madras 2.
Westrex Company India (Formerly Western Electric Co. of India).—Khaleel Mansions, 35, Mount Road, Madras 2.

HIDES AND SKIN MERCHANTS

A. Abdul Shukoor & Co.—8, Sydenhams Road, Madras 3.
Abdul Azeez & Co., P.—9, Kattur Sadayappan St., Periamet, Madras 3.
A. T. B. Mehtab Majid & Co.—4, Ramapallai Street, Madras 3.
C. Kalyanam & Co.—2, Muthugramni Street, Madras 3.
C. L. Abdus Subhan & Co.—45, Vepery High Road, Madras 6.
Dharmsee Parpia.—62/63, Sembudoss St., Madras 1.
East Asiatic Co. (I) P. Ltd.—First Line Beach, Madras.
E. K. Hajee Mohamed Meera Sahib & Sons—10, Vepery High Road, Madras 3.
E. K. Mohamed Abdul Sahib & Sons—18, Kumarappa Chetty Street, Madras 3.
F. K. Haseeb & Co.—40, Sydenhams Road, Madras 3.
G. Govindarajulu Naidu & Co.—2, Ramapillai Street, Madras 3.
Gordon Woodroffe Leather Mfg. Co. P. Ltd.—1/21, North Beach Road, Madras 1.
G. Sreenivas & Co.—10, Sydenhams Road, Madras 3.
Habib & Co.—22, Sydenhams Road, Madras 3.
Hajee Mohamed Meera Sahib & Co., E.K.—13/A, Sydenhams Road, Madras 3.
H. H. Naeems & Co.—9, Ramopillai Street, Madras 3.
India Leather Corpn. P. Ltd.—9, Davidson St., Madras 1.
Khandelwal Bros. Ltd.—82, Sembudoss St., Madras 1.
K. O. Mohamed Sulaiman & Co.—11, Vepery High Road, Madras 3.
Kothwal Hajee A. R. Mohamed Obaidulla & Co.—5/6, Nabi Khan Subedar Street, Madras 3.
K. T. Basha Rasheed & Co.—18, Sydenhams Road, Madras 3.
Light Leathers P. Ltd.—161, Mount Road, Madras 2.
Maija Hajee Ismail Sahib & Co.—15, V. V. Koil Street, Madras 3.
Merit, M. E. Ibrahim & Co.—12, Vepery High Road, Madras 3.
M. Hajee Mohamed Ismail Sahib & Co.—17, Sydenhams Road, Madras 3.
M. K. S. Mohamed Labbai & Co.—234, Angappa Naick Street, Madras 1.
M. L. Abdul Rasheed & Co.—12/A, Vepery High Road, Madras 3.
M. M. Mohideen Thumby & Co.—228, Angappa Naick Street, Madras 1.
Mohideen Thumby & Co., M.M.—228, Angappa Naick St., Madras 1.
P. Krishnaswamy & Co.—17, Vepery High Road, Madras 3.
P. M. Batcha & Co.—Kumarappa Chetty Street, Madras 3.
Simpson & McConechy Ltd.—Badsha Bldgs., 22, Errabalu Chetty St., Madras 1.
Southern India Skins Corpn.—7, V. V. Koil St., Madras 3.
Sreenivas & Co.—19, Sydenhams Road, Madras 3.

T. ABDUL WAHID & CO.—19, Vepery High Road, Periamet, Madras-3; Tanners and Exporters of East India Semi Tanned Goat-Skins—Monthly Production 150,000 Skins; Largest Exporters to the U.S.A.

T. K. Fazal Habib & Co.—7B, Nabikhan Subedar Street, Madras 3.
V. Sreenivas & Co.—10, V. V. Street, Madras 3.

HOSPITAL EQUIPMENT & SUPPLIES

Associated Electrical Industries (India) Private Ltd., 11/12, First Line Beach, Madras.
Bombay Engineering Works.—8, Sunkurama Chetty Street, Madras 1.
Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Godrej & Boyce Mfg. Co. Private Ltd.—177 & 179, Mount Road, Madras.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Pikay's Medico Surgicals—199, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

HOTELS & RESTAURANTS

HOTEL OCEANIC.—San Thome High Road, Madras-28.

IMPORTERS, EXPORTERS AND GENERAL MERCHANTS

C. J. SHETH.—2, Bunder Street, Post-Box No. 44, Madras 1.

INKS

Athens Products.—Ink House, 4, Second Street, Abhirampuram, Madras-18.
C. N. Subramanian.—44, Bunder Street, P. B. No. 1680, Madras.
City Co-operative Stores Ltd.—No. 2, Second Street, Gopalpuram, Madras.
Ero Ink Industry.—141, Singanachetty Street, Madras.
Ever Ready Fountain Pen Ink.—12, Bommaliar Street, G.T. Madras.
Everyday Ink Works.—1014, Edapalayam Street, Madras.
Indian Products Syndicate.—141, Govindappa Naicken Street, Madras.
Iris Inks.—Alamelmangalpuram, Mylapore, Madras.
Jaya Bharatham Co.—5, Velders Street, Mount Road, Madras-2.
Kala Products.—44, Bunder Street, Madras.
Krishnaveni Inks.—141, Govindappa Naick Street, Madras.
Liberty Ink Co.—16, Broadway, Madras.
Loyal Industries.—161, Ayah Mudali Street, Madras.
N. Vishwanath Iyer, Iris Inks.—Alamelmangalpuram, Mylapore, Madras.
National Products Syndicate.—144, Govindappa Naick Street, Madras.
Perumal Chetty & Sons., V.—5, Stringers Street, Madras.
Radio Ink Mfg. Co.—Bunder Street, Madras.
Raman Inks Co.—186, Royapettah High Road, Royapettah, Madras.
Ravi Inks, New Star & Co.—Tondiarpet, Madras.
Regal Products P. Ltd.—186, Royapettah High Road, Madras.
Research Chemical Laboratories.—30, Alamelmangalpuram, Mylapore, Madras.
Shelat Bros.—8, Lukmudas Street, Madras.
South Indian Products Ltd.—55, Bunder St., G.T. Madras.
Toa Private Ltd.—10, Armenian Street, Madras.
Venus Chemicals.—11, E. Kandappan Street, Madras.
Vishwanatham & Co.—17, Francis Joseph Street, Madras.

INSULATORS AND INSULATION MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 1.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mint Road, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.

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JEWELLERS & DIAMOND MERCHANTS

Mylapore, Madras

A. N. Rajan.—Brodies Road.
A. R. Brothers.—Kutchery Road.
A. Radha & Sons.—Kutchery Road.
D. Anraj Sowcar.—North Mada Street.
Sastry & Sastry.—East Mada Street.

Chintadripet, Madras

D. R. Ranka Brothers.—Arunachala Naicken Street.
Mehta Pukhraj Manmull.—Arunachala Naicken Street.
Seshmul Kewalchand & Co.—Arunachala Naicken Street.
Shanti Jewellery Mart.—Arunachala Naicken Street.

T. Nagar, Madras 17

The Jain Jewellery Co.
T. Baghchand Gallada.—Nageswararao Road.
T. Rangaswamy Iyengar.—Rajabathar Mudali Street.

Ekambareswarar Agraharam, G. T. Madras

A. Krishna Rao.—Devarajamudali Street.
B. R. Raghavendra Rao.—Strotten Muthiamudali Street.
Haji S. Ishaq & Co.—Perianna Maistry Street.
Indian Chemical Diamond Works.—Devarajamudali Street.
Nadilla Jayarama Chetty.—Varadamuthiappan Street.
R. Narasimhan & Co.—10, Thambu Chetty Street.
T. R. Joshi & Sons.
T. T. Ramanatha Tawker.

Veerappan Street, Madras 1

Devraj Manickchand.
S. Sakruchand.
Surani Brothers & Co.

Tholasingam Street, Madras 1

Bhogilal G. Shah.
Bisanlal Sitaram.
Sohanlal Mehta.
Vadilal Nanalal Shah.

Mint Street, Madras 1

Anil Art Diamond Co.
B. P. Bhadariya.
Bhanji Bhagwandoss.
Burma Rangoon Diamond Mfg.
Dinuprakash Kantilal.
Fulchand K. Mehta.
Hanuman Sahai & Bros.
Hind Diamond Co.

IMPERIAL CHEMICAL DIAMOND WORKS, THE.—Exporters & Importers, Manufacturers of Telephone Mark, Rangoon Diamonds ; Dealers in Cultured Pearls, Real Pearls, Button Pearls, Rubies, Sapphires, All kinds of Precious Stones and Semi Precious Stones ; 94, Mint Street, Sowcarpet, Madras-1.

Jamunadoss & Co.
K. G. Kothari.
K. R. Purushothamadoss.
Kapurchand & Co.
Keshvalal & Co.
Mehta Brothers.
Nemichand Jhabak.
Phusaram Munthada.
Pyarelal Danji.
Raghunandan Prasad & Co.
Raghuveer Sahai & Co.
Ratilal Vadilal.
Seetharam Palsani.
Sun Chemical Diamond Co.

Perumal Mudali Street, G. T. Madras

Shantilal Brothers.
V. Subramaniyam Chetty.

Narayana Mudali Street, G. T. Madras

K. Suri Chetty (Kasi Chetty Street).
M. Narasimhulu Chetty (Narayanamudali Lane).
Venkateswara Silver Emporium.

Govindappa Naicken Street, G. T. Madras

Kanaiyalal Ishvarlal & Co.
Kota Alwar Chetty & Sons.
Natwarlal Vadilal.
Srinivasa Jewellery Mart.
T. Manickam Chetty & Son.
T. M. Selvaraju Pillai.
Vadilal & Sons.
Vumidi Bangaru Chetty & Sons.

Netaji Subhaschandra Bose Road, Madras

A. Kannaih Naidu.
Ambaji Rao & Son.
Amichand Nagindoss & Co.
Ashok Jewellers.
B. Pattabhi Chetty & Brothers.
B. Sundaram Chetty.
B. C. Shantilal & Co.
Bapalal & Co.—Ramakoti Bldg., Rattan Bazar.
Bhagwandoss & Co.—(Genguraman Street).
Chhotalal Joshi.
Chhotabhai & Co.
Chimanlal Kothari & Co.
Davey Chimanlal & Co.
D. Natarajan.
D. Subbiah Chetty.
G. Gopal Chetty P. Sundararajulu Chetty & Co.
G. Namberumal Chetty.
G. Krishnaih Chetty & Sons.
Gandavadi Sreeramulu Chetty & Sons.
Jalagam Subramaniyam Naidu & Co.
Janaki Jewellery Mart.
Jayavilas Chemical Diamond & Co.
Jeewan Brothers.
Jivraj Ramji Shah.
Jorawarmul Champalal.
K. A. Srikandam Chetty.
K. G. Babu Chetty (Hanumantharoyan Koil Street).
K. Kuppuswamy Naidu.
K. Narasimhulu.
K. Radhakrishna Chetty.
K. M. Chokkanatham Chetty.
Kankipatti Ramachandra Chetty.
Kantilal & Co.
Khader Baig Sahib & Sons.
Krishna Jewellery Mfg. Co.

L. K. S. JEWELLERS.—203, N. S. C. Bose Road, Madras-1.

Lakshmi Jewellery Mart.
Lalitha Diamond Jewellers (Sunkurama Chetty Street).
M. Padmanabham Chetty.
M. K. Shah.
M. Subramaniyam Mudaliar.
M. Radhakrishna Chetty.
M. Srinivasulu Chetty.
M. V. Rangam Chetty.
Madras Jewellery.
Manilal & Sons.
Motilal Bapna.
N. Sampathu Chetty.
N. Seshiah Chetty.
Nalam Venkatakrishnama Chetty.
Nama Jayarama Chetty Salem Radha Krishna Chetty.
Nama Chennakesavelu Chetty.
Nama Jayarama Chetty & Son.
Nama Sreeramulu Chetty & Sons.
Nama Subbiah Chetty & Sons.
Nama Venkataramana Chetty & Sons.
Nanalal N. Voahor (Venkataroyer Lane).
Nathella Jewellers.
Nathella Sampathu Chetty Son & Co. Ltd.
P. L. Narasimhulu Chetty.
P. Gopalakrishniah.
P. K. Sundaram Pillai.
P. M. Loganatham Chettiar.
P. Mallikarjuna Chetty.
P. M. Devasenapathy Chetty & Sons.
P. Rangiah.
P. S. Venkataramiah Chetty.
P. Selvanatham Chetty.
Pandu Rao & Co.
Pasumarthy Cunniah Chetty & Son.
Ramakrishna Jewellery.
Rama Jewellers.
Rangoon Diamond Syndicate.
Rangoon Diamond Traders.
Ratilal Ishvarlal Mehta.
Rathanlal Chandick & Co.
S. Ganesh & Brothers.
S. Guruviah Chetty.
S. Nammalwar Chetty.
S. S. Mohammad Sultan & Co.
S. Swaminatha Iyer & Sons.
Sampath Jewellery Mart.
Sunku Venkatesaperumal Chetty Jewellery.
T. Govindarajulu Naidu.
T. P. Rajamanickam Mudaliar.
T. Rajarathanam Chetty & Son.
T. Srinivasulu Chetty & Bros.
U. Manilal & Co.
V. Jayarama Chetty, P. Radhakrishna Chetty & Co.
V. K. Narasimhulu Chetty.
V. N. Venogopal Chetty.
V. Sadanandam Chetty & Son.
Vasavi Jewellery Mart.
Vattam Seshiah Chetty & Son.
Vema Jewellers.

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LEATHER GOODS MANUFACTURERS

British Leather Works.—17, Perianna Maistry Road, Madras.
Coronet Plastic & Shoe Co.—28, Davidson Street, Madras.
Chrome Leather Co. (Private) Ltd.—Chromepet, Madras.
Diamond Leather Goods Co.—20, Ramaswamy Street, Madras.
Durable Chrome Factory.—175, Broadway, Madras.
Empire Leather Works.—1-35, Mount Road, Madras.
General Leather Co.—171, Broadway, Madras.
Gordon Woodroffe Leather Mfg. Co. (Private) Ltd.—1-21, North Beach Road, Madras.
Jai Hind Leather Products.—128, Broadway, Madras.
Janata Leather Works.—19, Walltax Road, Madras.
Madras Leather Goods Co.—35, Godown Street, Madras.
Shams Leather Works.—73, Narayana Mudali Street, Madras.
Tullis Woodrofee & Co. (Private) Ltd.—1/21, North Beach Road, Madras.
Venus Leather Goods Factory.—9, Pycrofts Road, Madras.

LEATHER & LEATHER PRODUCTS

A. T. B. Methab Majeed & Co.—Periamet, Madras.
Abdul Sukkoor & Co.—Periamet, Madras.
Central Leather Research Institute.—Adyar, Madras.
Gordon Woodroffe & Co., Ltd.—North Beach Road, Madras.
Haji Abdul Shakoor & Co.—31, Angappa Naick Street, P. B. No. 1797, Madras.
J. B. Borjana & Co.—Periamet, Madras.
M. Nazir Hussain & Co. Ltd.—Barracks, Madras.
M. Nazir Hussan Tannery.—Sembiam, Madras.
MADRAS LEATHER FACTORY.—34, Madhavaram High Road, Perambur (North), Madras 11 ; Manufacturers of Chrome Composite Ginning Washers : M. L. F. Brand.
Merit, M. E. Ibrahim & Co.—Vepery, Madras.
Nazir Hussain & Co.—11, Perambur High Road, Madras 12.

LOOMS (AUTOMATIC)

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Voltas Limited—115/116, Armenian Street, Madras 1.

LUBRICATING OILS AND GREASES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Standard-Vacuum Oil Co. Ltd.—United India Bldg., Esplanade, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.

MACHINERY IMPORTERS AND MFRS.

Bombay Co., Ltd.—169, Broadway, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021/2; Grams : "MANDARIN"; P.O. Box No. 146.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
GREAVES COTTON & CO., LTD.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Bldg., Esplanade, Madras 1.
Indian Oxygen & Acetylene Co., Ltd.—(Absorbent Cotton Machines), 7/A, Vaithianatha Mudali Street, Tondiarpet, Madras 21.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Kothandaraman, K. R., & Co.—2, Lattice Bridge Road, Madras 20.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Second Line Beach, Madras 1.
Masseys Engineers—4B/4C, North Rly. Terminus Road, Royapuram, Madras 13.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Limited—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Bldg., First Line Beach, Madras 1.
Wilson & Co.—North Rly. Terminus Road, Royapuram, Madras 13.

MATERIAL HANDLING AND CONVEYORS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

MATHEMATICAL & SCIENTIFIC INSTRUMENTS

Industrial Stores & Equipment Co.—Royapettah, Madras.
National Surgical & Engineering Works.—Mount Road, Madras.
P. Orr & Sons Ltd.—Orr's Bldg., Mount Road, Madras.
Standard Scientific Instrument Co.—Mylapore, Madras.

METALS (BRASS, IRON AND STEEL)

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
East India Industries (Madras) Private Ltd.—498, Mint St., Madras 3.
Gordon Woodroffe & Co. (Madras), Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Hindustan Metal Refinery & Rolling Mills.—124, Mint St., Madras.
Indian Metal & Metallurgical Corpn.—498, Mint Street, Madras 3.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

MINERAL MERCHANTS

Best & Co. Private Ltd.—First Line Beach, Madras.
Daulatram Rameshwerlal.—6, Linghi Chetty St., Madras.
Eastern Ore Corporation.—Bank of Mysore Bldg., Madras.
Hind Mercantile Corporation P. Ltd.—308/9, Linghi Chetty St., Madras.
Inden Biselers.—247, Netaji Bose Road, Madras.
Jeypore Sugar Co., Ltd.—38, Mount Road, Madras-6.
Khemka & Co. (Agencies) Private Ltd.—Indian Chamber Bldgs., Esplanade, Madras.
M. Akkiah Chowdary.—Bank of Mysore Bldg., Madras.
M. Kuppuswamy Naicker.—15, Sembudoss St., Madras.
Murlidhar Jhunjhunwala Private Ltd.—308/9, Linghi Chetty St., Madras.
Murugappa Agencies Private Ltd.—52/53, Jehangir St., P.B. No. 1356, Madras.
Natwarlal Shamaldas & Co.—28, Linghi Chetty St., Madras.
Oriental Agencies.—167, China Bazar, Madras.
Radhakrishna Minerals.—C/o M. D. K. Prasad, 11, Ritherdon Road, Vepery, Madras-7.
Sterling Construction & Trading Co.—6, Pachiappa's College, Hostel Road, Madras-6.
Somayajulu & Co.—337, Thambu Chetty St., Madras.
Vishweswerdass Gokaldas.—122, Mint St., Madras.

NON-FERROUS METALWARE MFRS. & IMPORTERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Imperial Chemical Industries (India) Ltd.—Bombay Mutual Bldg., N. S. C. Bose Road, Madras 1.
Tambawala Products Agencies P. Ltd.—13, Singanna Naick St., Madras 1.

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Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

OIL & SEEDS MERCHANTS

A. Muthukomaraswamy Pillai.—160, Govindappa Naicken St., Madras.
A. R. M. Chakrapani Reddiar & Sons.—10, Kandappa Chetty St., Madras.
Arjun General Traders.—No. 35, Godown Street, Madras.
B. V. Reddy & Sons.—No. 254, Linghi Chetty Street, Madras.
C. Subramania Pillai & Sons.—57, Thathamuthiappan Street, Madras.
Chandrakant & Co. (P) Ltd.—36, Kandappa Chetty St., Madras.
D. N. Marshall & Co.—45, Gen Muthiah Mudaly Street, Madras.
Dayaram Kanji.—No. 79, N. S. C. B. Road, Madras.
Dulichand Omraolall.—12/A, Zinda Shaib Street, Madras.
The East Asiatic Co. (I) P. Ltd.—P.B. No. 146, Madras.
Hind Mercantile Corpn. (P) Ltd.—308/9, Linghi Chetty Street, Madras.
Hindusthan Products.—37, Chinnathambi Street, Madras.
Indo Malayan Trading Co.—125, Audiappa Naick Street, Madras.
J. S. Nalam & Co.—9, Francis Joseph Street, Madras.
K. A. Kamdar.—130, Anna Pillai Street, Madras 1.
K. C. Varadachari.—165, Lloyds Road, Royapettah, Madras 14.
K. M. Abbu Chetty Oil Mills.—81, Perambur Barracks Road, Vepery, Madras 7.
Kilachand Devchand & Co. (P) Ltd.—310/11, Linghi Chetty St., Madras.
Krishna & Co.—1, Habibullah Sahib Street, Triplicane, Madras 5.
L. V. Ramaiah.—1, Thathamuthiappan St., Madras.
Louis Dreyfus & Co., Ltd.—310/11, Linghi Chetty Street, Madras.
Madras Millers & Traders (P) Ltd.—No. 18, Kandappa Chetty Street, Madras.
Mansukhlal Hemchand Vajarai.—140, Mint Street, Madras.
Murugan & Co.—570, Poonamalle High Road, Periamet, Madras 3.
Muthu Oil & Flour Mills.—171-B, Arcot Road, Kodambakkam, Madras 26.
Nevatia (P) Ltd.—331/333, Thambu Chetty Street, Madras.
Oomedchand Kashiram & Co.—2/32, Anna Pillai Street, Madras.
P. J. Mehta.—313, Esplanade, Madras.
Popatlal G. Shah.—125, Audiappa Naick Street, Madras.
Radhakrishna Oil Mills.—2/27, Kandappa Chetty St., Madras.
Rallis India.—320, Linghi Chetty Street, Madras.
Rama Trading Co.—125, Audiappa Naicken St., Madras.
Ramilas Nandlal.—308/9, Linghi Chetty Street, Madras.
S. J. Mehta.—1, Raman Street, T. Nagar, Madras 17.
S. K. Nevatia.—331/333, Thambu Chetty St., Madras.
S. Rangaswamy Nadar & Co., C/o Ratnaswami Sitaram.—205, Govindappa Naick Street, Madras.
S. K. Sambandhan & Sons.—9/10, Ramaswamy Street, Mannady, Madras.
Sala Oil Mills.—570, Poonamalle High Road, Periamet, Madras 3.
Shiva Kumar Agarval.—No. 18, Kandappa Chetty Street, Madras.
Sitaram & Co.—19, Ekambara Daffadar St., St. Thomas Mount, Madras 16.
South India Mercantiles (P) Ltd.—No. 6, Linghi Chetty Street, Madras.
Surajbhan Murarilal.—125, Audiappa Naick Street, Madras.
Surajmal's.—313, Esplanade, Madras.
Vinayaka Oil & Rico Mills.—33, Varadamuthiappan Street, Madras.
Y. Ramakrishna Reddy.—4/68, Govindappa Naicken Street, Madras.
Yadalam & Co.—No. 1, Thathamuthiappan Street, Madras.

OIL MILLS

Abbu Chetty K. M. Oil Mills.—20, Valam Bangaru Chetty Street, Vepery, Madras.
Associated Oil Corpn.—118, Armenian Street, Madras.
Coromandel Vegetables Oils Industry.—28, 2nd Line Beach, Madras.
East Asiatic Co. (India) Ltd.—First Line Beach, P.B. 146, Madras.
Mahalakshmi (OIL) Mills.—Wall Tax Road, Madras.
Massey Oil Mills.—Main Road, Royapuram, Madras.
Mogili Oil Mills.—15-3, Chinnathambi Mudali Street, Madras.
Mysore Vegetable Oil Products Ltd.—17, Cochrane Basin Road, Washermanpet, Madras.
Satyanarayana Oil Mills Ltd.—4-13, Adam Sahib Street, Royapuram, Madras.
Sri Ram Oil Mills & Refineries Ltd.—4-5, Elayamudali Street, Madras.
Sundaram Oil Mills Ltd.—Linghi Chetty Street, Madras.
Swastic Oil Mills Ltd.—14, Stringer Street, Madras.
Swathi Oil Mills Ltd.—45, Thambu Chetty Street, Madras.

ONION TRADERS

A. D. Jayaveera Pandia Nadar & Bros.—17, Chinnathambi Street, Madras.
A. Govindapillai Sons.—37/38, Malayaperumal Street, Madras.
A. K. Balasubramaniam.—Peddariar Koil Street, Madras.
A. Munuswamy Reddy.—42, Malayaperumal Street, Madras.
B. Linga Reddy & Co.—47, Malayaperumal Street, Madras.
B. N. Konda Reddy & Co.—76, Acharappan Street, Madras.
B. Nagi Reddy.—19, Malayaperumal Street, Madras.
C. N. N. Swamy.—Thyagaroya Mudali Street, Madras.
D. Pachiappa Mudaliar.—26, Malayaperumal Street, Madras.
G. Venkataramanappa Chetty.—49, Malayaperumal Street, Madras.
Gopalan Trading Co.—186, Annapillai Street, Madras.
Imitiaz Trading Co.—4, Chinnathambi Street, Madras.
Indo Ceylon Trading Co.—Malayaperumal Street, Madras.
K. M. Jayavelu Mudaliar.—1/59, Badriah Street, Madras.
K. Puniakoti Mudaliar.—47, Malayaperumal Street, Madras.
K. Thimmiah.—17, Kandappa Chetty Street, Madras.
K. Veeraswamy.—48, Malayaperumal Street, Madras.
L. Sundaram Pillai.—26, Malayaperumal Street, Madras.
M. A. Pillai.—183, Govindappa Naick Street, Madras.
M. Mancikavelu Chettiar.—2/41, Malayaperumal Street, Madras.
M. S. Chinnamthambi Mudaliar.—46, Malayaperumal Street, Madras.
P. Gopala Mudaliar.—22, Malayaperumal Street, Madras.
P. N. Surya Rao.—27, Malayaperumal Street, Madras.
P. Rathinam Pillai & Sons.—Sembudoss St., Madras 1.
P. Varada Reddy.—42, Malayaperumal Street, Madras.
Srinivasulu Bros.—1/41, Malayaperumal Street, Madras.
T. Maddileti Reddy.—2/41, Malayaperumal Street, Madras.
T. M. Reddy & Co.—Malayaperumal Street, Madras.
V. T. Sankar.—20, Malayaperumal Street, Madras.

OPTICIANS

Ambika Optical Co.—Umpherson Street, Madras 1.
B. B. Shah.—Broadway, Madras 1.
BHUPENDRA OPTICAL STORES.—24, Broadway, Madras 1.
Bombay Optical Co.—Broadway, Madras 1.
C. K. Devchand.—Broadway, Madras 1.
C. G. Vasudevan.—Wallajah Road, Mount Road, Madras 2.
Davey Optical Stores.—Broadway, Madras 1.
Gem Optical Co.—Umpherson Street, Madras 1.
Indra Optical Co.—Godown Street, Madras.
Kalpana Optical Stores.—40, Virappan Street, Madras.
K. N. Patel & Co.—Phillips Street, Madras.
Kotadia Optical Co.—Ekambereswarar Agraharam, Madras 3.
Manilal M. Mehta.—Broadway, Madras.
Mahesh Optical House.—238, Govindappa Naicken Street, Madras 1.
N. Kuppuswami.—Esplanade, Madras.
New Diamond Optical Co.—Mint Street, Madras 3.
Pragvat & Co.—Broadway, Madras 1.
Premier Optical House.—Broadway, Madras 1.
Radha Brothers.—Broadway, Madras 1.
Rawal Optical Mfg. Co., Broadway, Madras 1.
Real Optical Co.—Philips Street, Madras 1.
Reliance Optical Co.—Mount Road, Near Addisons, Madras 2.
S. Gajapathi Jain.—Broadway, Madras 1.
Shantilal P. Mehta.—Broadway, Madras.
South India Optical Co.—Francis Joseph Street, Madras 1.
S. U. S. Davey Sons.—Broadway, Madras.
Swastik Optical Co.—Philips Street, Madras 1.
Turakhia Optical Co.—Broadway, Madras 1.
V. Shewakram.—Mount Road, Madras 2.
White Brothers, Broadway, Madras 1.

PAINTS, ENAMELS AND VARNISHES, ETC.

A. Bashyam & Co.—11, Venkatachala Mudali Street, Madras 3.
ADDISONS PAINTS & CHEMICALS PRIVATE LTD.—Sembiam, Madras 11.
Amalgamations Private Ltd.—202, Mount Road, Madras 2.
ANURADHA PRIVATE LTD.—53, Peters Road, Madras 6.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
Chemical Enterprises P. Ltd.—Madras 6.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Handymen Industries Ltd.—161, Mount Road, Madras.
Imperial Chemical Industries (India) Ltd.—Bombay Mutual Bldgs., N. S. C. Bose Road, Madras 1.
Jenson & Nicholson (I) Ltd.—7, Armenian St., Madras 1.
Jyoti Paint & Varnish Industries.—3, Kondi Chetty Street, Madras 1.
Kuppuswami & Co., S.—15, Venkatachala Mudali St., Madras 3.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
National Industrial Co.—19/3, Armenian St., Madras 1.
Raghavalu Chetty & Sons.—13, Venkatachala Mudali St., Madras 3.
S. GANESHAM & SON.—1/44, Venkatachala Mudali Street, P. T. Madras 3.
Sekar & Co., G.D.—134, Mount Road, Madras 6.
Shalimar Paint, Colour & Varnish Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
V. Raghavulu Chetty & Son—13, Venkatachala Mudali Street, Madras 3.

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Western India Paint & Colour Co.—19, Venkatachala Mudali St., Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PAPER MERCHANTS

A. B. Parekh.—48, Bunder Street, Madras.
A. M. Arumugam.—110/111, Armenian Street, Madras.
Annamalai & Co.—23, Badrian Street, Madras 1.

ANURADHA PRIVATE LTD.—53, Peters Road, Madras 6.

A. S. Annamalai Chettiar & Co.—56, Big Street, Triplicane, Madras.
Burma Paper Stores.—6, Sunkurama Chetty St., Madras.
Central Paper Mart.—1/51, Badrian Street, Madras.
Chas. Morgan & Co. Ltd.—314/15, Linghi Chetty St., Madras 1.
Chettiar & Co.—1/52, Anderson Street, Madras.
C. J. Sheth.—Bunder Street, Madras.
Continental Corporation.—22, Broadway, Madras.
Copparam Natesa Chetty.—59, Anderson Street, Madras.
C. Sanjeevi Chetty Co.—56, Bunder Street, Madras.
East & West Trading Co.—232, Govindappa Naick St., Madras.
Eastern Mercantiles.—41, Anderson Street, Madras.
E. Subbiah Pillai Sons.—26, Sembudoss Street, Madras.
Ganga Paper Stores (P) Ltd.—20, Baker Street, Madras.
General Papers Ltd.—16, Armenian Street, Madras.
Indo-Burma Stationery & Paper Stores.—12, Umpherson Street, Madras.
International Paper Co.—1-E, Anderson Street, Madras.
Jai Dayal Kapur & Sons (P) Ltd.—2, Anderson Street, Madras.
J. B. Advani & Co. (P) Ltd.—Loane Square, Broadway, Madras.
Jeyam & Co.—43/44, Anderson Street, Madras.
K. A. Seshadri Aiyangar & Sons.—2-B, Malayaperumal St., Madras.
K. Jayaram Mudaliar.—4, Badrian St., Madras 1.
K. Orr & Co.—40, Chinnathambi Street, Madras.
Lakshmiah Papers.—7/8, Audiappa Naicken St., Madras.
Lala Gopikrishna Gokuldas.—119, Mint Street, Madras.
Lalchand Kewalram.—101, Godown Street, Madras.
Maars Corporation.—23, Anderson Street, Madras.
McDowell & Co., Ltd.—6, Second Line Beach, Madras.
Mahalakshmi & Co.—39, Anderson St., Madras 1.
M. Kumber Ali & Bros.—1, Anderson Street, Madras.

M. KRISHNAMACHARI.—62, Badrian Street, Madras 1. Agents for Messrs. Spalding and Hodge Ltd., Drury House, Russel Street, Drury Lane, London W. C. 2 ; Suppliers of all types of paper.

M. Husson Ali & Sons.—50, Bunder Street, Madras.
M. Natesa Chetty & Co.—56, Anderson Street, Madras.
M. Ziaullah & Sons.—1, Anderson Street, Madras.
N. Padmanabh, Rooms 3 & 4.—289, Netaji Subhash Chandra Bose Road, Madras.
N. Varadarajulu Chetty & Bro.—5, Bunder Street, Madras 1.
Parsram Jethanand & Co.—3, Thambu Chetty Street, Madras.
Palaniappa & Co.—45, Badrian Street, Madras.
P. Heeralal Galada.—13, Badrian Street, Madras.
Phoenix Agencies.—I-A, T. P. Koil Lane, Triplicane, Madras.
Paper & Allied Trades, 292, N. S. C. Bose Road, Madras.
P. Moonirathinam Naidu & Sons.—10, Stringer Street, Madras.
Premier Suppliers (P) Ltd.—9, Stringer Street, Madras.
P. R. Natham & Co.—2/235, N.S.C. Bose Road, Madras 1.
P. S. Nanjappa Chetty & Sons.—2/34, Mint Street, Madras.
P. Singaravelu Chetty & Son.—54, Bunder Street, Madras.
P. S. N. M. Ramalingam Chettiar & Co.—46, Anderson Street, Madras.
Rajan & Co.—1, Goomes Street, Madras.
Raja Paper Co.—1-B, Anderson Street, Madras.
Ramakrishna & Co.—Anderson Street, Madras.
Rangoon Paper Stores.—4, Anderson Street, Madras.
Rayon Traders (P) Ltd.—61, Sembudoss Street, Madras.
R. B. Shivdasani & Sons.—2/51, Badrian Street, Madras.
R. C. & Co., Agencies.—107, N.S.C. Bose Road, Madras 1.
Reynolds & Co.—16, Theagaraya Gramani Street, T. Nagar, Madras 17.
Sayee Co.—49, Badrian Street, Madras.
S. O. Bhawarlal Sowcar.—432, Mint Street, Madras.
S. O. Panumull Sowcar.—121, Mint Street, Madras.
Solisar & Co.—11/285, Malayaperumal Street, Madras 1.
Southern Sales Corpn.—2/52, Anderson Street, Madras.
Star Trading Co.—58, Anderson Street, Madras.
S. T. Jagtiani & Sons.—3/4, Thambu Chetty St., Madras.
Subramaniam Bros.—99, Armenian Street, Madras.
S. V. Mani & Co.—27, Angappa Naick Street, Madras.
T. Chelvaranga Mudaliar & Sons.—289, Stringer Street, Madras.
T. M. Abdul Azeez & Co.—10, Badrian Street, Madras 1.
T. M. Abdul Gaffoor & Co.—50, Badrian Street, Madras.
T. H. Gangappa & Sons.—11, Broadway, Madras.
T. M. Abdul Azeez & Co.—10, Badrian Street, Madras.
T. V. Subramaniam & Co.—49, Bunder Street, Madras.
Vasu & Co.—12, Thambu Chetty St., Madras 1.
Victory Corporation.—53/1, Edward Elliot Road, Madras 4.
Voora Audiseshu Chetty.—59, Badrian Street, Madras.
V. Perumal Chetty & Sons.—3, Stringer Street, Madras.
V. Rajagopalan.—61, Badrian Street, Madras.
V. V. Rao & Bros.—6-A, Warren Road, Madras 4.

PERFUMES & COSMETICS

Aromatic Oil & Chemical Co., Ltd.—Aminjikarai, Madras 10.
Best & Co., Ltd.—P.B. No. 53, Madras.
Daya Cosmetics (I) Ltd.—Vellala St., Aminjikarai, Madras 10.
Dralle Ltd.—263, Thambu Chetty Street, Madras.
Ganga Works.—Lattice Bridge Road, Adyar, Madras 20.
James Hutton & Co.—2, Potters St., Kilpauk, Madras 10.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
National Trading Co.—391, Mint Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Veto Co.—16, Jones Street, Madras.

VIJAYA CHEMICAL & TOILET WORKS.—Expert Cosmeticians, Vijaya Mansions, 35, Clemens Road, Vepery, Madras 7. Manufacturers and Exporters of High Class Cosmetics, perfumes, Indian attars and agarbattis, hair oils, etc. Wanted distributors in every Country.

Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PETROLEUM & ALLIED PRODUCTS

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Burmah-Shell House, Esplanade, Madras 1.
Caltex (India) Ltd.—202, Mount Road, Madras 2.
Castrol Ltd.—58/59, North Beach Road, Madras 1.
Standard-Vacuum Oil Co.—Bombay Mutual Building, Esplanade, Madras 1.

PHARMACEUTICALS

Amarchand Sobachand.—95, Nyniappa Naick St., Madras 3.
Associated Pharmaceutical Industries Ltd.—10, Boag Road, Madras 17.
Best & Co., Ltd.—First Line Beach, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Glaxo Laboratories (India) Ltd.—Woods Road, Madras 2.
Imperial Chemical Industries (India) Ltd.—N. S. C. Bose Road, Madras.
May & Baker (India) Ltd.—Purushotham Building, 193, Mount Road, Madras 2.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Raka Corporation Private Ltd.—138, Moor Street, Madras 1.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 1.
Standard Drugs & Chemicals Co.—129/131, Nainiappa Naick Street, Madras 3.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

PHARMACEUTICALS (MANUFACTURE)

Abbot Laboratories (India) Ltd.—3, Erraballu Street, Madras 1.
Alembic Distributing Agency—154, Nainiappa Naick Street, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Glaxo Laboratories (India) Ltd.—Woods Road, Madras 2.
Imperial Chemical Industries (India) Ltd.—N. S. C. Bose Road, Madras 1.
Martin & Harris Ltd.—4, Sunkurama Chetty Street, Madras.
May & Baker (India) Ltd.—Purshotham Building, 193, Mount Road, Madras 2.
Oakley Bowden & Co. (Madras) Ltd.—11/12, First Line Beach, Madras 1
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

PHOTOGRAPHIC MATERIAL DEALERS

Allied Photographics, Ltd.—34, Mount Road, Madras 2.
Ama Private Ltd. (Photo-Cine-Sound)—159, Mount Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Bldgs., Madras 1.
Ilford Selo (India) Pvt. Ltd.—Woods Road, Madras 2.
Klein & Peyerl—30, Mount Road, Madras 2.
Kodak Ltd.—2/155, Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.

PIECE-GOODS MERCHANTS

A. Kolanda Mudaliar & Sons.—75, Godown Street, Madras.
A. K. Ebrahim & Co.—98, Godown Street, Madras.
A. K. Ismail.—1/14, Godown Street, Madras.
A. N. Kuppuswamy Chetty & Co.—1/18, Godown Street, Madras.
A. Subbarayalu Chetty & Co.—72, Godown Street, Madras.

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A. Thambu Chettiar & Sons.—91/92, Godown Street, Madras.
Ahmedabad Textiles Agency.—67, Godown Street, Madras.
Ajitbhai Desai & Co.—10, Godown Street, Madras.
Ajitbhai Jayantilal & Co.—5, Godown Street, Madras.
Alathoor Suresh & Co.—34-B, Godown Street, Madras.
Andal Textiles.—24-A, Godown Street, Madras.
Anto Stores, Piece Goods Merchants.—2/156, Broadway, Madras.
Anto Stores.—2/56, Broadway, Madras.
Ar. Pr. Palaniandi Pillai & Co.—71, Godown Street, Madras.

Balarama & Co.—67, Godown Street, Madras.
Balasubramaniam & Co.—3/96, Godown Street, Madras.
B. Jwalanarasimhan.—13, Godown Street, Madras.
B. Kandaswamy Chetty & Co.—94, Godown Street, Madras.
B. L. N. Seetharamiah.—32, Godown Street, Madras.
B. Munuswami Chetty & Co.—86, Godown Street, Madras.
B. N. Chandra & Co.—71, Godown Street, Madras.
B. N. D. Govindarajulu Chetty & Co.—71, Godown Street, Madras.

B. Radhakrishnamoorthy.—57, Godown Street, Madras.
B. R. Bashiam & Co.—2/286, N. S. C. Bose Road, Madras.
B. R. Parthasarathi & Co.—18-A, Godown Street, Madras.
B. Shewaram Bros.—254, N. S. C. Bose Road, Madras.
B. Suganchand & Co.—70, Godown Street, Madras.
Bhagwan Stores.—248/49, N.S.C. Bose Road, Madras.

C. A. Govindaswamy Chetty.—261/62, Devaraja Mudali Street, Madras.
C. Janakiah Chetty & Son.—33, Godown Street, Madras.
C. M. Ethirajulu Naidu.—27, Godown Street, Madras.
C. Mallikarajunam.—68, Godown Street, Madras.
C. Moonooswamy Chetty & Co.—60, Godown Street, Madras.
C. Varadarajulu Chetty & Co.—62, Godown Street, Madras.
Champalal & Co.—245, N. S. C. Bose Road, Madras.
Chandanmal Asera.—13, Godown Street, Madras.
Chandrakant & Co.—2/96, Godown Street, Madras.

Cheta Stores.—77, Godown Street, Madras.
Chetty & Bros.—263/64, Devaraja Mudali Street, Madras.
Chhotabhai Javerbhai & Co. Ltd.—468, Mint Street, Madras.
Chimanlal C. Barbhaiya & Co.—20, Samudra Mudali Street, Madras.
Chinubhai & Bros.—27, Godown Street, Madras.
Chitra Stores.—190, N. S. C. Bose Road, Madras.
Colombo Stores.—101, Godown Street, Madras.

D. Gopalaswamy Chetty & Co.—5/99, Godown Street, Madras.
D. Jitendra & Co.—2/99, Godown Street, Madras.
D. Munuswamy Chetty & Co.—6, Godown Street, Madras.
D. Ranganayakulu Chetty.—23, Murugappa Mudali Street, Vepery, Madras.
Davidoss & Co.—67/3, Godown Street, Madras.
Deepak Textile Agency.—74, Godown Street, Madras.
Devdatt & Bros.—1/38, Godown Street, Madras.
Dhanamal Silk Mills—4/99, Godown Street, Madras.
Dharamsi Anandji.—68, Godown Street, Madras.
Dwarkadas C. Parikh.—88/89, (Upstairs) Godown Street, Madras.
Dwarkadas Rameshwar Goenka.—67, Godown Street, Madras.

F. X. Pereira & Sons.—P.B. No. 1532, 2/2, First Line Beach, Madras.
G. B. Adinarayana.—28, Godown Street, Madras.
G. Desi & Co.—85, Mint Street, Madras.
G. R. Doss & Co.—87, Godown Street, Madras.
G. Varadarajam.—8/20, Godown Street, Madras.

Ganesh Textiles.—70, Godown Street, Madras.
Geetha & Co.—63, Godown Street, Madras.
General Stores.—585, Pycrofts Road, Triplicane, Madras.
General Trading Co.—699, Godown Street, Madras.
Gocooladoss Jumnadoss & Co.—2/44, Godown Street, Madras.
Gopalakrishna Co.—30, Godown Street, Madras.
Gulabdas Narayandoss.—17-D, Godown Street, Madras.

H. A. R. Mohamed & Sons.—6-A, Godown Street, Madras.
H. B. Jamal & Co.—Madras.
H. Yoosuf Oomer & Co.—14, Godown Street, Madras.
Hajee Mohamed Abdul Azeez Sahib.—2/99, Godown Street, Madras.
Haji Beg Mohamed Jamal Sons.—1/97, Godown Street, Madras.
Himatlal H. Mehta.—26, Godown Street, Madras.
Hindu Multani & Co.—1/2, Godown Street, Madras.
Indian Industrial Co., Ltd.—363, Esplanade, Madras.
Issardas Sons.—20, Godown Street, Madras.

J. M. Bhansali.—6/20, Godown Street, Madras.
J. Rangiah Chetty.—16, Godown Street, Madras.
J. Venkataramanujam Chetty & Co.—94, Godown Street, Madras.
Jagroopchand Javerchand.—15, Godown Street, Madras.
Jain Jari Store.—90, Godown Street, Madras.
Jalalia Textiles.—24-B, Godown Street, Madras.
Jamnadas Jagjivandas Shah.—15, Godown Street, Madras.
Jeshingbhai Balabhai & Sons.—29, Godown Street, Madras.
Jessaram Vishindas & Co.—3/67, Godown Street, Madras.
Jivaraj Topun & Sons.—32, Ekambareswarar Agraharam, Madras.
Joonus Sait & Sons.—62/64, Rattan Bazar, Madras.

K. Chellapilla Chetty & Co.—85, Godown Street, Madras.
K. Gopinath.—3, Muthial Chetty Street, Madras.
K. Munirathnam Chetty.—20, Strotten Muthia Mudali Street, Madras.
K. Purushottam Chetty & Co.—26, Godown Street, Madras.
K. Ramsson & Co.—226, Poonamallee High Road, Madras.
K. R. Narayanan & Co.—91/92, Godown Street, Madras.
K. S. Ram & Co.—1/19, Godown Street, Madras.
K. Srinivasulu Chetty & Co.—73, Godown Street, Madras.
K. Varadarajulu Chetty & Co.—17, Strotten Muthia Mudali St., Madras.
K. Venkatesulu Chetty & Co.—2/99, Godown Street, Madras.
Kantilal Motilal Shah.—26, Godown Street, Madras.
Karupanna Mudr. Stores.—53, Godown Street, Madras.
Kesavalal Manilal & Bros.—24, Godown Street, Madras.
Kishinchand Chellaram (India) Ltd.—3/4, Godown Street, Madras.
Kishindas Bros.—9/20, Godown Street, Madras.
Kishinlal Roopchand & Co.—27, Godown Street, Madras.

Kola Venkatramanujulu Chetty & Co.—37, Godown Street, Madras.
Kothari Textiles.—20/9, Godown Street, Madras.
Kr. Pr. Pl. Ranganatham Chettiar.—24, Godown Street, Madras.
Krishna & Co.—243/44, N. S. C. Bose Road, Madras.
Kumar Bros.—2/5, Godown Street, Madras.
Kundanmal Sons.—43, Rattan Bazar, Madras.

Lachhmandas & Sons.—52, Godown Street, Madras.
Lala Gopikrishna, Gokuldass.—114, Mint Street, Madras.
Lalchand Kewalram.—101, Godown Street, Madras.
Lekhraj & Sons.—1/25, Godown Street, Madras.

M. C. Shankar & Co.—3/96, Godown Street, Madras.
M. K. Textiles.—29, Godown Street, Madras.
M. Perumal Chetty & Co.—5, Godown Street, Madras.
M. Purushotham Chetty & Co.—91/92, Godown Street, Madras.
M. Mohananrangiah Chetty & Co.—90, Godown Street, Madras.

M. Mohanlal & Co.—472, Mint Street, Madras.
M. Munuswamy Chetty.—91/92, Godown Street, Madras.
M. P. V. Sundararamier & Co.—464, Mint Street, Madras.
M. R. Adinarayanan.—65/66, Godown Street, Madras.
M. R. Narasimhulu & Co.—65/66, Godown Street, Madras.
M. R. Parathasarathy Nayudu.—335/9, Rasappa Chetty Street, Madras.
M. Ramadas & Co.—99, Godown Street, Madras.
M. Venkatiah Chetty & Co.—75, Godown Street, Madras.
M. Venkatesaperumal Chetty & Co.—85, Godown Street, Madras.
M. Vijayaraghavalu Chetty.—34, Godown Street, Madras.
M. V. Perumal Chetty & Co.—88/89, Godown Street, Madras.
Madras Novelty Stores.—266, N. S. C. Bose Road, Madras.
Madras Overseas Traders.—99, Godown Street, Madras.
Madura South India Corpn., Private Ltd.—80, Sembudoss Street, Madras.
Manubhai & Co.—17, Ekambareswarar Agraharam, Madras.
Mehta Brothers.—2/67, Godown Street, Madras.
Modern Stores.—31, Pycrofts Road, Triplicane, Madras.
Modern Textiles.—84, Godown Street, Madras.
Mohamed Aboobacker, & Co.—"Chauk Manzil", 95, Thambu Chetty St., Madras 1.
Mohanlal Rajmal Bafna.—18-B, Godown Street, Madras.
Mohini Stores.—1/47, Rattan Bazar, Madras.
Moolchand & Bros.—3/4, Godown Street, Madras.
Murugar Stores.—67, Godown Street, Madras.

N. K. Jayaram & Co.—26, Godown Street, Madras.
N. K. Kumaraswamy Mudaliar.—87, Godown Street, Madras.
N. M. Narayanaswami Mudaliar & Son.—69, Godown Street, Madras.
N. Ranganadhan.—25, Godown Street, Madras.
N. S. Mookka Pillai.—31, Godown Street, Madras.
N. Valiram.—3/28, Godown Street, Madras.

Nalli Chinnaswamy Chetty & Sons.—T. Nagar, Madras.
Naraindas Tolaram.—26, Godown Street, Madras.
Narandas & Bros.—66, Godown Street, Madras.
Navaneetha Textiles.—1/74, Godown Street, Madras.
Niranjanlal & Co.—2/62, Mint Street, Madras.
O. A. Arumuga Mudaliar & Co.—59, Godown Street, Madras.

P. J. Gupta & Co.—9, Godown Street, Madras.
P. L. Seshaiah & Co.—3/19, Godown Street, Madras.
P. R. S. P. Namasivayam Pillai & Co.—84, Godown Street, Madras.
P. Subrahmanyam.—13, Godown Street, Madras.
P. Suryanarayana & Co.—75, Godown Street, Madras.

P. T. V. Loganatha Mudaliar & Co.—1/20, Godown Street, Madras.
P. Venkataramanaiya.—64, Godown Street, Madras.
Pala Muddukrishnaiah & Co.—84, Godown Street, Madras.
Parthasarathi Stores.—1/128, Purasawalkam High Road, Madras.
Patel Brothers.—7, Godown Street, Madras.
Pr. Kanapathy Pillai & Sons.—1/38, Godown Street, Madras.
Pursumal Dewandas.—20/7, Godown Street, Madras.

R. C. Kuppuswamy & Co.—23, Godown Street, Madras.
Radha & Sons.—93, Godown Street, Madras.
Raghunath Singh Mehta.—20, 1st Floor, Godown Street, Madras.
Raja Textiles, Agency.—1/18, Godown Street, Madras.
Rajaputana Trading House.—100, Godown Street, Madras.
Rajendralal Bishayee.—8, Godown Street, Madras.

Rallis India Ltd.—320, Linghi Chetty Street, Madras 1.
Rama Emporium.—71/71, Rattan Bazar, Madras.
Ramco Swadeshis.—28, Godown Street, Madras.
Ramdas & Co.—470, Mint Street, Madras.
Rasiklal N. Shah.—26, Godown Street, Madras.

S. A. Nagaier & Co.—26, Godown Street, Madras.
S. Lalchand.—400, Mint Street, Madras.
S. Mallaiah Chetty & Co.—27, Mint Street, Madras.
S. Meera Sahib & Bros.—16/17, Second Line Beach, Madras.

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S. Ramabhadran.—12, Godown Street, Madras.
S. V. V. Kanagasabapathy Chettiar & Co.—1/90, Godown Street, Madras.
Saraswathi Devi Textiles.—73, Godown Street, Madras.
Satyanarayana & Co.—91, Godown Street, Madras.
Shah & Co.—15, Godown Street, Madras.
Shah Jawanthraj & Co.—23, Godown Street, Madras.
Shah Ratilal Jagjivandas.—69, Godown Street, Madras.
Shanker Silk House.—2, Godown Street, Madras.
Shantilal V. Parikh.—5, Godown Street, Madras.
Shewaram Lachhmandas.—1/96, Godown Street, Madras.
Shewaram Valiram.—81, Godown Street, Madras.
Shivchand Jatanlal.—Daga House, 400, Mint Street, Madras.
Silk Rayon Ltd.—61, Godown Street, Madras.
Silk Traders.—2/22, Godown Street, Madras.
Soundarya Stores.—255, N. S. C. Bose Boad, Madras.
South India Textile Agencies.—100, Godown Street, Madras.
Sujan Singh Mehta & Co.—93, Godown Street, Madras.
T. Aminuddin Sahib & Co.—16, Godown Street, Madras.
T. K. Devaraj & Co.—72, Godown Street, Madras.
T. Purushotham & Co.—15, Godown Street, Madras.
T. S. Annamalai Chetty.—3/10, Godown Street, Madras.
T. S. Hajee Moosa & Co.—95, Godown Street, Madras.
T. Sadasive Mehta.—1/74, Godown Street, Madras.
T. V. Chandraiah Chetty & Co.—90, Godown Street, Madras.
T. V. Ethirajulu Chetty & Co.—96, Godown Street, Madras.
Textiles of India.—100, Godown Street, Madras.
Thakurdas Choithram Bros.—1/1, Godown Street, Madras.
Thallam Veeraiah Chetty & Sons.—4/67, Godown Street, Madras.
Traders & Traders.—428, Mint Street, Madras.
Tulesiram Pukjraj.—4/26, Godown Street, Madras.
V. Chengiah Chetty & Co.—17-A, Godown Street, Madras.
V. K. Janakiram Chetty & Co.—3/96, Godown Street, Madras.
V. Narayana Chetty.—2/74, Godown Street, Madras.
V. N. V. Devarajulu Chetty & Co.—17-A, Godown Street, Madras.
V. V. Chengiah Chetty & Co.—1/5, Godown Street, Madras.
Valjee Kanjee & Co.—2/97, Godown Street, Madras.
Vallabhadas Mathuradas & Co.—68, Godown Street, Madras.
Venkateswara & Co.—3/34, Godown Street, Madras.
Venkatesh Trading Corpn.—2/22, Godown Street, Madras.
Venkatesh Vastralaya.—2, Thambu Chetty Street, Madras.
Voora Venkatesaperumal & Co.—2/38, Godown Street, Madras.

PIPES AND PIPE FITTING MERCHANTS

Aminchand Pyarelal—27, Sembudass Street, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Bldgs., Madras 1.

MURLIMAL SANTRAM & CO. (MADRAS) PRIVATE LTD.—No. 13, Sembudoss Street, G. T. Madras 1.

Rameschandra Santram—16, Sembudass Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
South Indian Export Co., Ltd.—5, Mclean Street, Madras 1.

PIPE DEALERS

A. K. Muthukumaraswamy Chetty.—268, Rasappa Chetty St., Madras 3.
A. Radhakrishna Chetty.—265, Rasappa Chetty St., Madras 3.
A. S. Hatimbhoy.—79, Sembudoss Street, Madras 1.
Bob Corporation.—316, Linghi Chetty Street, Madras 1.
Bombay Hardware Syndicate.—12/79, Sembudoss St., Madras 1.
E. S. Haji & Co.—12, Sembudoss St., Madras 1.
H. Hassan & Co.—8, Sembudoss St., Madras 1.

JAASKO AGENCIES.—316, Linghi Chetty Street, Madras 1.

Jindal India P. Ltd.—19, Venkatachala Mudaly St., Madras 3.
K. Rajendran.—4, General Swami Naicken St., Triplicane, Madras 5.
K. Thiruvengadam Chetty & Co.—93, Rasappa Chetty St., Madras 3.
M. Arumugam Chetty.—269, Rasappa Chetty St., Madras 3.
M. Fazale Hussen & Co.—Corner Estate, 79, Sembudoss St., Madras 1.
M. Kuppuswamy Naicker & Co. P. Ltd.—15, Sembudoss St., Madras 1.
P. Rajaram Laul.—Old Slaughter Road, Royapuram, Madras.
S. V. Shanmugam & Co.—32, Jones St., Madras 1.
Sattar Sanitary Stores.—No. 1, Vaniar St., Madras 1.
Soora Chandrasekar & Bros.—10, Broadway, Madras 1.
Steel & General Traders.—61, Sembudoss St., Madras 1.
V. K. Thiagarajan & Co.—32, Jones Street, Madras 1.
V. M. K. Pillay.—263, Rasappa Chetty St., Madras 3.
V. Venugopal Pillai & Co.—2/27, Broadway, Madras 1.
Vittas.—20, Anderson Street, Madras 1.

PLYWOOD MERCHANTS

Best & Co., Ltd.—First Line Beach, Madras 1.
Cunniah & Co.—248/249, Devaraja Mudaly Street, Madras 3.
K. R. S. Sreenivasiah & Sons—169, Devaraja Mudaly Street, Madras 3.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
P. N. Balu Chetty & Sons—238/239, Devaraja Mudaly Street, Madras 2.
P. Thiruvarangiah & Sons.—3/5, Ayya Pillai Street, Madras 3.
R. Ethirajiah & Sons—103, Devaraja Mudaly Street, Madras 3.
R. Ramanujiah & Sons—191, Devaraja Mudaly Street, Madras 3.

POWER STATION EQUIPMENT

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PRINTERS & PUBLISHERS

Amudha Nilayam P. Ltd.—91, Mount Road, Madras 18.
Associated Publishing House.—94/95, New Street, Mannady, Madras.
B. G. Paul & Co.—4, Francis Joseph Street, Madras.
Blackie & Son Ltd.—Rajamannar Street, Madras.
Book Centre.—3, Kondi Chetty Street, Madras.
Books (India) Pvt. Ltd.—135, Coral Merchant Street, Madras.
C. Coomaraswamy Naidu & Sons.—34, Chinna Thambi Street, Madras.
Christian Literature Society.—Park Town, Madras.
E. M. Gopalakrishna Kone.—289, Esplanade, Madras.
Indian Publishing House Ltd.—14, Sunkurama Chetty St., Madras.
International Publishing House.—Opp. Loyola College, Madras.
Jayam & Co.—2, Veerabhadra Iyer St., Nungambakkam, Madras.
Macmillan & Co., Ltd.—6, Pattullo Road, Mount Road, Madras 2.

MADRAS PREMIER CO.—Publishers (Estab.: 1917), 33, Broadway, Madras 1.

M. Seshachalam & Co.—Sunkurama Chetty St., Madras.
National Publishing House.—6, Kondi Chetty St., Madras.
Orient Longmans Pvt. Ltd.—36A, Mount Road, Madras.
Orient Publishing Co.—3, Kondi Chetty St., Madras.
Oxford University Press.—Madras.
Palaniappa Bros.—4, Venkatesa Naicken Street, Madras.
Rayalu & Co.—47, Narayana Mudali St., Madras.
South India Saiva Siddantha Works Publishing Society (Tinnevelly) P. Ltd.—Broadway, Madras 1.
S. R. Subramanya Pillai.—9, Philip Street, Madras.
Venkatarama & Co.—Anderson Street, Madras.
Vindhya Publications.—19, Stringers' Street, Madras.
V. S. Swaminathan.—15, Sunkurama Chetty St., Madras 1.
Wardha Publishing House.—Sami Naicken Street, Chintadripet, Madras.

PRINTING PRESS MATERIALS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
Charles Morgan & Co., Ltd.—314/315, Linghi Chetty Street, Madras 1.

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone: 86021/2; Grams: "MANDARIN"; P.O. Box No. 146.

Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
Hoogly Ink Mfg. Co., Ltd.—Rundalls Road, Madras 7.
Jaya Bharatham Co.—Philips Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.

PUMPS AND PUMPING SETS MANUFACTURERS AND DEALERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co (Madras) Ltd.—7, Armenian Street, Madras 1.
Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.

CHANDRA FOUNDRIES PRIVATE LTD.—55, Basin Bridge Road, Washermanpet, Madras 21.

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. (India) Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co., Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
Heatly & Gresham, Ltd.—Bombay Mutual Bldg., Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.

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Masseys Engineers—4B-4C, North Railway Terminus Road, Royapuram, Madras 13.
National Engineering Co. (Madras) Ltd., The—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
P. Natesan (Industries) Ltd.—191, Triplicane High Road, Madras 5.
Refrigerators & Home Appliances Ltd.—36, Mount Road, Madras 2.
Taylor, T. A. & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Water Supply Specialists Ltd.—45, Thambu Chetty Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

PYROMETERS AND ALLIED INSTRUMENTS

Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RADIO MFRS. & MERCHANTS

Alpha Radio & Novelties, Ltd.—9, Mount Road, Madras 2.
Amson & Co.—38C, Mount Road, Madras 6.
Arrow Radio Co.—22, General Patters Road, Mount Road, Madras.
Asiatic Radio Co.—4/169, Mount Road, Madras.
A. V. Thomas & Co. (I) Ltd.—2/21, First Line Beach, Madras.
Britannia Talking Machine Co.—173, China Bazar, Madras.
Chimanlal Desai & Co.—6, Sunkurama Chetty St., Madras 1.
Conjap Electronic Industries.—64, Dr. Alagappa Chettiar Road, Vepery, Madras 7.
Dhanam & Co.—164, Brodies Road, Mylapore, Madras.
Electronic Service Co.—Agurchand Mansions, 17/35, Mount Road, Madras.
Expert Radio Service.—Jammi Bldgs., 48/1, Royapettah H. Road, Mylapore, Madras.
General Agencies.—169, Mount Road, Madras.
General Radio & Appliances Pvt. Ltd.—1/18, Mount Road, Madras.
General Radio Co.—3, Ritchie St., Mount Road, Madras 2.
G. Janshi & Co.—2/163, Mount Road, Madras.
G. K. Syndicate—118, Armenian Street, Madras.
Green Radio Co.—Mount Road, Madras.
India Radio House.—9, Mount Road, Madras.
International Talkie Equipment Co. Pvt. Ltd.—18, Mount Road, Madras.
Jay-O-Phone Co.—13, Mint Street, Madras.
Lalwani Radio Corporation.—180, Mount Road, Madras 2.
Mahamed Ebrahim & Co. Pvt. Ltd.—Victory House, 7/8, Mount Road, Madras.
Modern Trading Co. (Madras).—1/155, Rayala Bldgs., Mount Road, Madras.
Motwane Pvt. Ltd.—196, Mount Road, Madras.
National Electronics.—53-A, Usman Road, T. Nagar, Madras.
New Radio Home.—27, Govindappa Naicken Street, Madras.
OBUL REDDY (MADRAS) PVT. LTD.—31, General Patters Road, Mount Road, Madras.
Oriental Radio Corporation.—162, Mount Road, Madras.
Philips India Ltd.—Indian Chamber Bldgs., Madras.
Poppat Jamal & Sons.—36-B, Mount Road, Madras.
Radio & Allied Engineering Co.—4/17-B, Mount Road, Madras.
Radio Services.—10, Mount Road, Madras.
Raj Trading Co.—No. 4, Narasingapuram Street, Madras.
RESA CO.—Manufacturers of Domestic, Industrial and Community Radios, Amplifiers, Transformers and Coils; Factory: B-8 & 9, Industrial Estate, Guindy, Madras-16; Office: 3/16, Mount Road, Madras 2.
Revathi Radios.—121, Netaji Subhas Road, Madras 1.
R. S. M. & Co.—236/237, Devaraja Mudali Street, Madras 3.
Savit Electronic Corpn.—1, Ritchie Street, Mount Road, Madras.
Singh Trading Co.—9, Blaker's Road, Mount Road, Madras.
South India Music Emporium.—3, Broadway, Madras.
Southern Agencies.—37, Waller's Road, Madras.
Standard Electric Co.—27, General Patters Road, Madras.
Standard Radio & Electric Co.—26, Pycroffs' Road, Madras 5.
S. Sundaramoorthy, M. A. M. Sons.—26, General Patters Road, Madras.
Universal Agencies.—2/18, Mount Road, Madras.
Usha Radio & Electricals.—58, Mint Street, Madras.
Vauhini Radio & Electricals.—126, Mint Street, Madras.
Veneers.—36, Mount Road, Madras.
Venkateswara Radio Sales, Service & Electricals.—229, Govindappa Naick Street, Madras.
V. G. Panneerdas & Co.—49, Jeenis Road, Madras 15.
V. S. Rajagopalan & Co.—24, Wallers Road, Mount Road, Madras.
WIRELESS SALES & SERVICE CO.—1/11-A, Mount Road, Madras.

RAILWAY COACH FITTINGS

VUMMIDIARS (MFRS.) PRIVATE LTD.—162, Mount Road, Madras 2.

RAILWAY EQUIPMENT—ELECTRICAL

Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach Madras 1.

RAILWAY SIGNALLING EQUIPMENT

Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
British Insulated Callender's Cables Ltd.—37, Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Bldg., Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

REFRACTORIES

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

REFRIGERATION EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Associated Electrical Industries (India) Ltd.—11/12, First Line Beach, Madras 1.
Beardsell, W. A. & Co., Ltd.—Second Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
Philips Electrical Co. (India) Ltd.—Mount Road, Madras 2.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street.

ROAD BUILDING MACHINERY

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Best & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Bldg., Esplanade, Madras.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

ROOFING MATERIALS

Best & Co., Ltd.—First Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Bldg., Esplanade, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

ROPE AND ROPERIES

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Brady, W. H. & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

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ROPEWAYS AND ROPEWAYS CONSTRUCTION

Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

RUBBER GOODS MANUFACTURERS

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
Dunlop Rubber Co. (India) Ltd.—3/29, Mount Road, Madras 2.
Firestone Tyre & Rubber Co. (India) Ltd.—Woods Road, Madras 2.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Goodyear Tyre & Rubber Co. India Ltd.—2, Patullos Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Bldg., Esplanade, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Madras Rubber Factory.—2, Errabalu Chetty Street, G. T., Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.

SANITARY ENGINEERS AND CONTRACTORS

King & Company.—321, Thambu Chetty Street, Madras 1.
Murugappa & Sons.—Swastik House, Armenian Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Venus & Company.—Thambu Chetty Street, Madras 1.
Vijaya Trading Corporation.—320, Thambu Chetty Street, G.T., Madras 1.

SANITARY-WARES AND FITTINGS

Calcutta Light Casting Supply Co.—19, Errabalu Chetty Street, Madras 1.
Gillander's Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Murugappa & Sons—Swastik House, Armenian Street.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras.
Richardson & Cruddas Ltd.—First Line Beach, Madras.
Sanitary Sales & Service.—26, Thambu Chetty Street, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras.

SCALES

Avery & Co., Ltd.—16/17, Armenian Street, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras.
Gordhandas Desai & Co.—22, Linghi Chetty Street, Madras 1.
Lawrence & Mayo (India) Ltd.—17, Mount Road, Madras 2.
L. C. Sett & Co., Ltd.—30, Mount Road, Madras 2.
Philips Electricals Co. (India) Ltd.—Mount Road, Madras 2.
United Scientific Co.—9, Sunkurama Chetty Street, Madras 1.

SCIENTIFIC INSTRUMENTS

Adair, Dutt & Co. (India) Pvt. Ltd.—P.B. No. 327, 1/29, Mount Road, Madras.
Andhra Scientific Co. Ltd.—4, Blacker's Road, Mount Road, Madras.
Central Scientific Supplies Co. Ltd.—369, Esplanade, Madras.
Free India Scientific Co.—74/A, Kothavalchavadi St., Saidapet, Madras.
General Radio & Appliances Pvt. Ltd.—1/18, Mount Road, Madras.
Hargolal & Sons.—27/A, Linghi Chetty Street, Madras.
Scientific Instrument Co. Ltd.—30, Mount Road, Madras.

STANDARD SCIENTIFIC INSTRUMENTS CO., THE.—Makers of Scientific Instruments. 115, Ramakrishna Math Road, Madras-28.

Toshniwal Bros., Pvt. Ltd.—Round Tana, Mount Road, P.O., Madras.
United Scientific Co.—9, Sunkurama Chetty Street, G. T., Madras.

SEWING THREAD MANUFACTURERS

Bombay Co., Ltd.—169, Broadway, Madras.
Central Agency Ltd.—19, Vaniar Street, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.

SOAP MANUFACTURERS

All India Soap Works.—31, Hakim Makdoom Ashruff St., Madras 5.
Best & Co., Ltd.—First Line Beach, Madras 1.
Calcutta Chemical Co. Ltd.—5/149, Broadway, Madras 10.
Daya Cosmetics (I) Ltd.—Vellala St., Aminjikarai, Madras.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gajavalli Soap Works.—13, Muthiah Mudali St., Madras 21.
Ganga Works.—Lattice Bridge Road, Adyar, Madras 20.
Godrej Soaps Private Ltd.—164, Broadway, Madras.
Hindustan Lever Ltd.—11/14, Armenian Street, Madras 1.
Joshi Soap Works.—310, Thambu Chetty St., Madras 1.
Mohan Brothers.—32, Alandur Road, Saidapet, Madras.
Muraly Industries Ltd.—2/153, Broadway, Madras 1.
Mysore Vegetable Oil Products Ltd.—17, Cochrane Basin Road, Washermanpet, Madras.
P. B. Mohan Bros.—Soap Factory, Saidapet, Madras.
Parvathi Toilet Soap Factory.—31, Elakandapan St., Madras.
Presidency Soap Works.—6, General Swami Naicken St., Jam Bazar, Triplicane, Madras.
Rajkamal Industries.—157, Walltax Road, Kondithope, Madras.
Rathna Chemical Industries.—Saidapet, Madras.
Santa Soap Works.—26, Muthumary Chetty Street, Madras.
Season Soap Factory.—15, Ollmonger Street, Madras 5.
Taj Soap Works.—383-A, Thiruvottiyur High Road, Madras 21.

UNITED SOAP WORKS.—68, Perambur High Road, Madras 12. Soft Soap and Washing Soap Manufacturers, Trade Mark '555'.

STAINLESS STEEL

Metalware & Co.—425, Mint Street, Madras 1.
The Mysore Premier Metal Factory.—124, Mint Street, Madras.
S. D. & Sons.—16, Lakshmidas Street, Park Town, Madras 3.

VUMMIDIARS (MFRS.) PRIVATE LTD.—162, Mount Road, Madras-2.

STEAM GENERATING PLANT

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STEAM TRAPS AND VALVES

Best & Co., Ltd.—First Line Beach, Madras 1.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras 1.

STEEL FURNITURE & FITTINGS

Ajax Products Ltd.—106, Armenian St., G. T., Madras.
Godrej & Boyce Mfg. Co. P. Ltd.—177-179, Mount Road, Madras.

STEEL RE-ROLLING MILLS

Indian Steel Rolling Mills Ltd.—Oriental Building, Armenian Street, G. T., Madras.
Ram Krishna Kulwant Rai.—33, Sembudoss Street, Madras.
Sri Rama Machinery Corporation Private Ltd.—Catholic Centre, 5/6, Armenian Street, Madras 1.

STEEL WIRE ROPES

Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STONE CRUSHERS

Best & Co., Ltd.—First Line Beach, Madras 1.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road Mount Road, Madras.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

STORAGE BATTERIES

Oldham & Sons Ltd.—Saidapet, Madras 16.
South Indian Export Co. Ltd.—Mclean Road, George Town, Madras.

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STOVES & HOUSEHOLD ARTICLES

P. ALLIMOHAMED ZINNA & CO.—67/68, Rattan Bazar, Madras-3. Sole Agents for the whole of South India for 'Paradise' Stoves, Safety Cookers, Incandescent Lanterns, Blowlamps and their Spare Parts.

SUGAR MILLS

Cauvery Sugars & Chemicals Ltd.—Dare House, Parry's Corner, Madras 1.
Deccan Sugar & Abkhari Co. Ltd.—Dare House, Parry's Corner, Madras 1.
East India Distilleries and Sugar Factories Ltd.—Dare House, Parry's Corner, Madras 1.

SUGAR MILL MACHINERY

Masseys Engineers.—4B/C, N. Railway Terminus Road, Royapuram, Madras.
Maxwell Engineering Works.—24, Peddunaik Street, Kondithope, G. T., Madras.

SUPERPHOSPHATES

Parry & Co. Ltd.—P.B. No. 12, Madras.
Shaw Wallace & Co. Ltd.—8/9, Thambu Chetty Street, Madras.

SURGICAL INSTRUMENTS AND APPLIANCES

Bombay Surgical Equipment Co.—8, Sunkurama Chetty Street, Madras 1.
East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Hale & Co.—Hale Mansions, 192, Poonamallee High Road, Vepery, Madras 7.
National Surgical & Eng. Works.—187, Mount Road, Madras 2.

PIKAY'S MEDICO SURGICALS.—199, Mount Road, Madras 2. Manufacturers and Importers of Surgical Instruments, Aseptic Furnitures and Sundries.

TALLOW IMPORTERS & DEALERS

Beardsell, W. A., & Co., Ltd.—First Line Beach, Madras 1.
Best & Co., Ltd.—First Line Beach, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras 1.
East Asiatic Co. of India Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Robert Mclean & Co., Ltd.—200, Mount Road, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.

TANNERS

S. K. SENJAN CHETTIAR & SONS.—34, V. V. Koil Street, Periamet, Madras-3.

TANNING MATERIAL DEALERS & IMPORTERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Beardsell, W. A., & Co., Ltd.—Second Line Beach, Madras 1.
H. H. Naeems & Co.—9, Rama Pillai St., Madras 3.
Imperial Chemical Industries (India) Ltd.—Springhaven Road, "The Harbour", Madras.
K. H. Chambers Ltd.—Errabalu Chetty Street, Madras 1.
Kilburn & Co., Ltd.—32/33, Linghi Chetty Street, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
V. Sreenivas & Co.—10, Varasithi Vinayagar St., Periamet, Madras 3.

TEA (EXPORT)

Bombay & Co., Ltd —169, Broadway, Madras 1.
Lipton Ltd.—129, Moore Street, Madras.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Wilson & Co.—North Railway Terminus Road, Royapuram.

TELE-COMMUNICATION EQUIPMENT

Chicago Telephone & Radio Co., Ltd.—196, Mount Road, Madras 2.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
Westrex Company India (formerly Western Electric Co. of India):—35, Mount Road, Madras 2.

TEXTILE ENGINEERS AND MACHINERY DEALERS

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras.
Roberts Mclean & Co., Ltd.—200, Mount Road, Madras 2.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

TIMBER MERCHANTS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.
B. Rama Rao & Co.—88, Sydenhams Road, Madras 7.
Ch. Bapiah & N. Narasimhhiya—Sydenhams Road, Madras 7.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
M. Sundersanalu Iyengar & Sons.—22/16, Linghi Chetty Street, Madras 1.
Murugappa & Sons—Armenian Street, Madras 1.
Palott Abdul Azeez & Co.—74, Sydenhams Road, Madras 3.
Parachuru Subramayam—110, Sydenhams Road, Madras 7.
Shaw Wallace & Co., Ltd.—8/9, Thambu Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Sree Venkateswara Timber Depot—84, Sydenhams Road, Madras 7.
Srinivasa Timber Depot—Sydenhams Road, Madras 7.
United Timber Traders—8-A, Sydenhams Gardens & 84, Sydenhams Road, Madras 7.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LIMITED.—Elaiya Mudali Street, Tondiarpet, Madras 21. (For details of Products manufactured see Classified Trades, West Bengal under heading Tin Box Mfrs.)

TOBACCO

A. Abdul Karim & Co.—55, Basin Bridge Road, Madras 21.
Chari & Chari Private Ltd.—2/6, Second Line Beach, Madras.
East Asiatic Co. (India) Ltd.—Mercantile Bank Bldg., First Line Beach, Madras.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras.
Guntur Tobacco Ltd., The.—2/6, Second Line Beach, Madras.
Imperial Tobacco Co. of India Ltd.—150-B, Mount Road, Madras 2.
Indian Tobacco Corporation.—2/115, Dr. Guruswami Mudaliar Road, Madras 10.
Kasarapalli Anjaneyulu—36, Varada Muthiappan Street, Madras.
McDowell & Co. Ltd.—2/115, Dr. Guruswami Mudaliar Road, Madras 10.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras.

TOOLS (MACHINE, ELECTRIC AND PNEUMATIC)

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Bombay Co., Ltd.—169, Broadway, Madras 1.

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021/2; Grams : "MANDARIN"; P.O. Box No. 146.

Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Guest, Keen, Williams Ltd.—202, Mount Road, Madras 2.
Hassanally, A. M., & Co.—34, Linghi Chetty Street, Madras 1.
Heatly & Greshams Ltd.—Bombay Mutual Bldg., Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Rd., Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Richardson & Cruddas Ltd.—First Line Beach, Madras 1.
Taylor, T. A., & Co. (Madras) Ltd.—100, Armenian Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

TRACTORS, BULLDOZERS, ETC.

Bharat Motors.—35, Mount Road, Madras 2.
Easun Engineering Co., Ltd.—5/7, Second Line Beach, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
National Engineering Co. (Madras) Ltd., The.—379, Netaji Subhas Chandra Bose Road, Madras 1.
Parry & Co., Ltd.—"Dare House", First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

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TRANSFORMERS

Associated Electrical Industries (India) Private Ltd.—11/12, First Line Beach, Madras.
Easun Engineering Co. Ltd.—5/7, Second Line Beach, Madras.
Radio & Electricals Ltd.—Tiruvottiyur, Madras 19.
Resa Co.—20, Halls Road, Kilpauk, Madras 10.

TRANSPORTERS & GOODS CARRIERS

A. T. M. Ltd.—Madras 2.
Andhra Pradesh Transport Co.—160, Govindappa Naik St., Madras 1.
Associated Transports (M) P. Ltd.—29, Bhoodaperumal Mudali St., Mount Road, Madras 2.
Commercial Goods Transports.—6, Singanna Naicken St., Madras 1.
Express Carriers Ltd.—6, Armenian St., Madras 1.
Garage P. Ltd.—Oriental Bldgs, Armenian St., Madras 1.
HINDUSTAN TRANSPORTS LTD.—5, Pattullos Road, Madras 2.
International Clearing & Shipping Agency.—20-B, Second Line Beach, Madras 1.
Madras Bangalore Transport Co.—1/235, Angappa Naicken St., Madras 1.
Madras Transport Co. Ltd.—'Greenfields', 1, Nungambakkam High Road, Madras.
M.B.T. CO.—1/235, Angappa Naick Street, Madras-1.
Nethaji Lorry & Bus Service.—33, Angappa Naicken St., Madras 1.
Popular Transport.—19, Stringers St., Madras 1.
Presidency Transport Ltd.—11-A, Mount Road, Madras 2.
Provincial Transport Ltd.—5, Annaswami Naick Street, Ellis Bridge, Madras.
Radiant Roadways.—47, Bunder St., Madras 1.
Road Transport Corpn. P. Ltd.—26, Errabalu Chetty Street, Madras 1.
South India Bus Transport Ltd.—3-11, Mount Road, Madras.
Southern Roadways P. Ltd.—Express Estates, Madras 2.
Sree Narayana Transports.—2-C, Goomes St., Madras 1.
SRI RAM VILAS SERVICE P. LTD.—1/17, Mount Road, Madras 2.
Sri Vijayalakshmi Lorry Service.—35, Broadway, Madras 1.
Transport Ltd.—6, Harrington Road, Chetput, Madras.
United Transport Co.—198, Mount Road, Madras.

TRAVEL AGENTS

ORIENT EXPRESS CO. PRIVATE LTD., THE.—Agurchand Mansion, 35, Mount Road, Madras-2. Phone : 86260 ; Grams: " OREXPRESCO ".

TYPEWRITERS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Blackwoods (India) Ltd.—2/29, Mount Road, Madras 2.
Godrej & Boyce Mfg. Co., Private Ltd.—177 & 179, Mount Road, Madras.
Latham Abercrombie & Co., Ltd.—330, Thambu Chetty Street, Madras 1.
Rayala Corporation (Madras) Ltd.—"Rayala Bldgs.", 1/155, Mount Road, Madras 2.
Remington Rand of India Ltd.—Agurchand Mansions, Mount Road, Madras 2.
Typewriters & Office Appliances Co. (India) Ltd.—17, Armenian Street, Madras 1.
Underwood Typewriters.—2/29, Mount Road, Madras 2.

TYRES AND TUBES

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Dunlop Rubber Co. (India) Ltd.—3/29, Mount Road, Madras 2.
Firestone Tyre & Rubber Co. of India Ltd.—159, Mount Road, Madras 2.
Goodyear Tyre & Rubber Co. of India Ltd.—2, Patullos Road, Madras 2.
India Tyre & Rubber Co. (India) Ltd.—150-B, Mount Road, Madras 2.

UMBRELLAS

Champalal & Co.—29, Tholasingam St., Madras 1.
Dakshinabharath Umbrella Mfg. Co.—Georgetown, N. S. C. B. Road, Madras.
Eagle Brand Umbrella Mfg. Co.—Georgetown, Madras.
Ibrahim Kareem & Sons.—Georgetown, Madras.
Jupiter Umbrella Mfg. Co.—Georgetown, Madras.
Mehta Bros., Umbrella Mfg. Co.—Georgetown, Madras.
Popular Umbrella Mfg. Co.—Georgetown, Madras.
Universal Umbrella Factory.—Madras 1.

UTENSILS

Metal Container Corpn.—2/46, Erulappan Street, Madras 1.
Mysore Premier Metal Factory.—7, Thandavaraya Gramam Street, Tondiarpet, Madras 21.
Strathie Co-operative Engineering Workshops Ltd.—Portuguese Church Street, G. T., Madras.
Vummidiars (Mfrs.) Pvt. Ltd.—162, Mount Road, Madras.

VANASPATI

East Asiatic Co. (India) Ltd.—P.B. No. 146, Madras.
East Coast Food Products Ltd.—99, Armenian Street, Madras.
Mysore Vegetable Oil Products Ltd.—Cochran Basin Road, Washermanpet, Madras 21.

VEGETABLE OIL MANUFACTURERS

East Coast Food Products Ltd.—99, Armenian Street, Madras 1.
Hindustan Lever Ltd.—11-14, Armenian Street, Madras 1.
Madras Vanaspati Ltd.—12/13, Angappa Naick Street, Madras.

VENTILATING EQUIPMENT

Best & Co., Ltd.—First Line Beach, Madras 1.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, North Beach Road, Madras.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

WATERPROOF COMPOUNDS

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
Gillanders Arbuthnot & Co., Ltd.—First Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.
Wilson & Co.—North Railway Terminus Road, Royapuram, Madras.

WATER PURIFICATION PLANT

Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WEIGHING MACHINES

Avery Co., Ltd.—16/17, Armenian Street, Madras 1.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras 1.
Spencer & Co., Ltd.—Mount Road, Madras 2.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.

WELDING SETS AND MATERIALS

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE.—Machinery & Engineering Dept., Bharat Bldg., Mount Road, Madras 2; Phone : 86021/2; Grams : " MANDARIN ", P.O. Box No. 146.
General Electric Co. of India Ltd.—Magnet House, Mount Road, Madras 2.
Gordon Woodroffe & Co. (Madras) Ltd.—1/21, First Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Indian Oxygen & Acetylene Co., Ltd.—7, Vaithianatha Mudali Street, Tondiarpet, Madras 21.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WIRE AND WIRE PRODUCTS

Binny & Co. (Madras) Ltd.—7, Armenian Street, Madras 1.
Bombay Co., Ltd.—169, Broadway, Madras.
Chambers, K. H., Ltd.—Lecots Building, Madras.
Grahams Trading Co. (India) Ltd.—311, Linghi Chetty Street, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
McDowell & Co., Ltd.—Second Line Beach, Madras.
Southern Industrial Corpn. (P) Ltd.—Polal, Red Hills, Madras.

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WOOD WORKING MACHINERY

Easun Engineering Co., Ltd.—Second Line Beach, Madras 1.
Guest, Keen, Williams, Ltd.—202, Mount Road, Madras 2.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Larsen & Toubro Ltd.—4/5, Club House Road, Mount Road, Madras 2.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

WORKSHOP EQUIPMENT

Amalgamations Private Ltd.—202, Mount Road, Madras 2.
East Asiatic Co. (India) Ltd.—Mercantile Bank Building, First Line Beach, Madras 1.
Easun Engineering Co., Ltd.—Second Line Beach, Madras 1.
Heatly & Gresham Ltd.—Bombay Mutual Building, Esplanade, Madras 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Second Line Beach, Madras 1.
Parry & Co., Ltd.—"Dare House," First Line Beach, Madras 1.
Rallis India Ltd.—Ralli House, 320, Linghi Chetty Street, Madras 1.
South India Export Co., Ltd.—5, Mclean Street, Madras.
Vernon & Co., Ltd.—36, Second Line Beach, Madras 1.
William Jacks & Co., Ltd.—National Bank of India Building, First Line Beach, Madras 1.

YARN MERCHANTS

Abdul Karim Noor Mohamed & Co.—22, Anderson Street, Madras.
Abdul Shakoor & Co., S.— 190, Angappa Naick Street, Madras.
Alwariah Chetty, V.—118, Audiappa Naick Street, Madras.
Annamalai Chetty & Sons., K. M. K.—5, Sannadhi Street, Madras.
Balasubbaraya Chetty & Son, V. S.—28/29, Coral Merchant Street, Madras.
Brunnschweiler & Co., A.—104, Armenian Street, Madras.
Central Commercial Co.—32, Ekambareswar Agraharam St., Madras.
Chathurbhujdas Narayandas.—462, Mint Street, Madras.
Chelvapilla & Bros., C.—135, Varada Muthiappan Street, Madras.
CHHOTABHAI JAVERBHAI & CO. (PRIVATE) LTD.—468, Mint Street, Madras 3.
Colour Cotton Co.—61/62, Mint Street, Madras.
Colombo Stores.—101, Godown Street, Madras.
Crescent & Co.—71, Mint Street, Madras.
Daloorom Jayanarayan.—32, Perumal Mudali Street, Madras.
Donti Venkatesiah Setty Co.—17, Lukmudas Street, Madras.
Dwarkadas Rameshwar Goenka.—67, Godown Street, Madras.
Ghanshamdas, C. G.—459, Mint Street, Madras.
Gocoola Doss Jumna Doss & Co.—29, N. S. C. Bose Road, Madras.
Gomraj Fatajchand.—190, Govindappa Naick Street, Madras.
Govinda Mudaliar Sons, V.—23, Jones Street, Madras.
Govindarajalu Chettiar & Co., M.—33, Mint Street, Madras.
Govindaraju Chetty, A. V.—72, Mint Street, Madras.
Govindaraju Chetty, T. N. K.—498, Mint Street, Madras.
Govindas, K.—73, Mint Street, Madras.
Haji Jiva & Sons.—26, Anderson Street, Madras.
Harakchand Roopchand.—28, Govindappa Naick Street, Madras.
Jagannath Bajranglal.—23, Govindappa Naick Street, Madras.
Jayantilal J. Chokshi.—461, Mint Street, Madras.
Jivraj Topun & Sons.—32, Ekambareshwar Agraharam, Madras.
K. P. SHAH.—Art Silk & Yarn Merchants, Manufacturers' Representatives, Exporters & Importers. P. O. Box No. 2855, 228/230, Rasappa Chetty Street, P. T. Madras-3. Grams: "HARSHUKH".
Kamalam Dyeing Factory, M.—70, Mint Street, Madras.
Kanniram & Sons.—96, Nyniappa Naick Street, Madras.
Keshavlal & Co.—21, Ragunayakalu Street, Madras.
Keshvlal Talakchand (P) Ltd.—63, Mint Road, Madras.
Kiran Premchand Shah.—228/230, Rasappa Chetty St., Madras.
Kissendoss Girchardoss & Sons.—459, Mint Street, Madras.
Krishna Dye Works.—70, Mint Street, Madras.
Lakshmanier & Sons, T. K.—77, Mint Street, Madras.
Lakshmidas Dwarkadas.—436, Mint Street, Madras.
Laldas Govindas & Sons.—459, Mint Street, Madras.
Lokanatham Chetty & Co., K.—473, Mint Street, Madras.
Madras Palayakat Co., Ltd.—31, Armenian Street, Madras.
Mannar Chetty & Co., S. K.—462, Mint Street, Madras.
Mohamed Aboobacker & Co.—95, Thambu Chetty Street, Madras.
Mohanlal & Co., M.—472, Mint Street, Madras.
Moolchand Devichand Shah.—88, Nyniappa Naick Street, Madras.
Moulana & Co. (P) Ltd.—53, Angappa Naicken Street, Madras.
Munuswami Naidu, K. N.—446, Mint Street, Madras.
Nahalchand Laloochand (P) Ltd.—99, Nyniappa Naick Street, Madras.
Narasayya Chetty, G.—158, Anna Pillai Street, Madras.
Nathella Sampathu Chetty & Son.—177, N. S. C. Bose Road, Madras.
P. K. JAPEE & CO.—99, Nainiappa Naick Street, Madras-3.
Radhakrishiah Chetty & Co.—Pokkali, 467, Mint Street, Madras.
Rathnam, S., B.A.—77, Mint Street, Madras.
Rayon Traders (P) Ltd.—27, Coral Merchant Street, Madras.
Sanghvi Bros.—310/311, Linghi Chetty Street, Madras.
Sankalchand G., Shah & Co., Ltd.—472, Mint Street, Madras.
Sathyamurthy S. S.—466, Mint Street, Madras.
Sattariah Chetty Sons, Y.—22, Govindappa Naick St., Madras.
Saurashtra Trading Co.—70, Mint Street, Madras.
Seshachala Chettiar & Sons, V. G.—497, Mint Street, Madras.
SHA BABOOTHMULL SEVAJI & CO.—17, Lukmuddas Street, Madras-3.
Shah Khetsey & Co.—38, Mint Street, Madras.
Shivprakash Janakraj & Co.—38, Mint Street, Madras.
Sivaraj Manchalal Shah.—89, Nyniappa Naick Street, Madras.
S. T. S. Trading Co.—61/62, Mint Street, Madras.
Subbarangiah Chetty, Muthyala.—113, Audiappa Naick St., Madras.
Subramaniam Chetty, Vumiti.—463, Mint St., Madras.
Sundararaman, K. M. S. L.—31, Mint Street, Madras.
Sundararamier & Co., M. P. V.—464, Mint Street, Madras.
Sundararamier & Sons, S. K.—63, Mint Street, Madras.
Thiruvengadachari, T.—474, Mint Street, Madras.
Thulasi Mudaliar, M.—460, Mint Street, Madras.
Vadivelu Mudaliar, K. C.—71, Mint Street, Madras.
Venkatachalapathy, K. R.—470, Mint Street, Madras.
Venkatesam Chetty, A.—72, Mint Street, Madras.
Vidyapoornachari & Sons, K. V.—54/56, Mint Street, Madras.
Yarn Syndicate, Ltd.—51, Mint Street, Madras.
Yathindran, K. M. S. L.—145, Nyniappa Naick Street, Madras.

YARN CONDITIONING AND TESTING MACHINES

Brady, W. H., & Co., Ltd.—154/155, Pophams, Broadway, Madras 1.
Greaves Cotton & Co., Ltd.—19, Second Line Beach, Madras 1.
Voltas Ltd.—115/116, Armenian Street, Madras 1.

ZIP FASTENERS

Link Industries Ltd.—11/12, First Line Beach, Madras.

COIMBATORE COMMERCIAL FIRMS

Abboi Machines P. Ltd., Singanallur P.O., Coimbatore 5.
Acme Textiles, Trichy Road, Coimbatore.
Acme Textile Dyeing & Printing Industries, Mettupalayam Road, Coimbatore.
Addisons & Co., Ltd., Avanashi Road, Coimbatore. Phone: 79A.
Altex P. Limited, Avanashi Road, Coimbatore.
Ambubhai Kalidas P. Ltd., 7/49, Grey Town, Coimbatore.
ANAMALLAIS RETREADING CO., 9/69, Jail Road, Coimbatore 1.
A. R. Chockalingam Chettiar & Sons, 34, Raja St., Coimbatore.
Argus Engineering Co., Ltd., Peelamedu, Coimbatore.
Arian Soap Manufacturing Co., Big Bazar Street, Coimbatore.
Aroy & Co., 7/26, Crosscut Road, Coimbatore.
Arvee Industries, 14, Arunachalam St., R. S. Puram, Coimbatore 2.
Arvind & Co., 255, Oppanakara Street, Coimbatore.
Arvy & Co., 40 Ft. Scheme Road, Coimbatore 2.
Arya Vaidya Pharmacy (Coimbatore) Ltd., Trichy Road, Coimbatore.
Asbestos Cement Ltd., Podanur, Coimbatore.
Associated Automobiles P. Ltd., Avanashi Road, Coimbatore.
Associated Cement Company Ltd., Madukkarai, Coimbatore.
Avery Co., Ltd., Trichy Road, Coimbatore.
Ayyar & Co., Raja Street, Coimbatore.
Batliboi & Co., Avanashi Road, Coimbatore.
Binny & Co. Madras Ltd., Post Box No. 69, Coimbatore.
B. K. Ranganatha Naidu & Co., 7, Mill Road, Coimbatore.
Blue Chips & Co., Jail Road, Coimbatore.
BLUEMOUNT SWITCHGEARS ASSOCIATES PRIVATE LTD., Patel Road, Ranganathapuram, Coimbatore 9.
Bradma of India P. Ltd., 109/110, Avanashi Road, Coimbatore.
Brady & Co., Ltd., W. H., Jail Road, Coimbatore.
British Insulated Callender's Cables Ltd., Race Course Road, Coimbatore.

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Broadway Engineering & Transport Co., 5/15, Old Post Office Road, Coimbatore.

Brooke Bond India Ltd., Krishnaswamy Mudaliar Road, P. O. Box 28, Coimbatore.

Caltex (India) Ltd., Avanashi Road, Coimbatore.

Carnatic Leather Industries, Big Bazar Street, Coimbatore.

Cement Marketing Co. of India Ltd., Race Course Road, Coimbatore.

Central India Machinery Mfg. Co. Ltd., Variety Hall Road, Coimbatore.

Chellam & Co. P. Ltd., 55, Big Bazar St., Coimbatore 1.

Chromotan (cbe.) Ltd., 2/249, Avanashi Road, Coimbatore.

Coimbatore Central Co-operative Stores Ltd., P. Bag No. 5, Coimbatore 2.

Coimbatore Chemicals & Fertilisers Ltd., Vysial Street, Coimbatore.

Coimbatore Machinery & Metal Mart, Fraser Square, Coimbatore.

Coimbatore Mill Stores & General Supplies Co., Avanashi Road, Coimbatore.

Coimbatore Premier Corporation Ltd., Patel Road, Coimbatore.

Cotton Textiles Ltd., Mal Mill Road, Coimbatore.

Crompton Engineering Co. (Madras) Ltd., Arts College Road, Coimbatore.

Dalal & Co., 15, Shanmukham Chettiar Road, R. S. Puram, Coimbatore 2.

Deccan Fertiliser Co. (Coimbatore) Ltd., Oppanakara Street, Coimbatore.

D. Engineering P. Ltd., United Motors Bldgs., Avanashi Road, Coimbatore.

Diesel (India) Coimbatore, 124-B, Trichy Road, Coimbatore.

Dhandayuthapany Foundry P. Ltd., Pappanaickenpalayam, Coimbatore.

E. G. S. Company, Post Box 83, Coimbatore.

Electrical & General Supply Ltd., Avanashi Road, Coimbatore.

ELECTRO-DIESEL EQUIPMENT CO., 23, Avanashi Road, Coimbatore. Dealers in Sanitaryware, General Building requirements & Electrical goods.

ELSEETEE INDUSTRIES, Post Box No. 28, Singanallur, Coimbatore 5.

Everest Engineering Works, Crosscut Road, Coimbatore.

Farm Equipments Ltd., Ganapathy, Coimbatore.

Feroke Timber & Tiles Co., Mettupalayam Road, Coimbatore.

Gajaraj & Co., Jail Road, Coimbatore.

G. K. Syndicate Ltd., 15/72, Big Bazar Street, Coimbatore.

GANAPATHY ENGINEERING MFRS. PRIVATE LTD., Ganapathy, Coimbatore 6.

Gannon Dunkerley & Co., Ltd., Power House Road, Coimbatore.

Garlick & Co., Ltd., Cox Street, Coimbatore.

General Electric Co. of India Ltd., "Magnet House," Avanashi Road, Coimbatore.

George Oakes Ltd., Avanashi Road, Coimbatore.

Gill & Co. P. Ltd., 12/25, Syrian Church Road, Coimbatore.

Gordon Woodroffe & Co. (Madras) Ltd., Fraser Square, Coimbatore.

Gounder & Co. P. Ltd., Jail Road, Coimbatore.

Greaves Cotton & Co. Ltd., 43, 6th Street, Gandhipuram, Coimbatore.

Hanumanthappa & Sons, Dewan Bahadur Road, R. S. Puram, Coimbatore.

Hardware & Machinery Marketing (India) Co., 5/4, Head Quarters Office Road, Coimbatore.

Hari Trading Corpn., 8/18, Tatabad, Coimbatore 12.

Haridas Bhagath & Co. P. Ltd., 7/16, Crosscut Road, Coimbatore.

H. M. Mehta & Co., Cox Street, Coimbatore.

Hollo Block Manufacturing Co., Ltd., Madukkarai, Coimbatore.

Imperial Tobacco Co. of India Ltd., United India Bldg., Avanashi Road, Coimbatore.

Importers Ltd., Gopal Bagh, Avanashi Road, Coimbatore.

India Hume Pipe Co., Ltd., Ranganathapuram, Coimbatore.

India Silicate Industry, Fraser Square, Coimbatore.

Indian Cable Co. Ltd., 4/2, Race Course Road, Coimbatore.

Indian Cashewnuts & Plantations Ltd. (Managing Agents, T. Stanes & Co., Ltd.), Coimbatore.

Indian Overseas Trading Co., Ltd., Power House Road, Coimbatore.

Indo-Swiss Synthetic Gem Mfg. Co. Ltd., Mettupalayam (Dt. Coimbatore).

Industrial Engineering Stores, Avanashi Road, Coimbatore.

Industrial Equipment & Stores Agencies, 7/105, Jail Road, Coimbatore.

International Industries & Agencies Ltd., Avanashi Road, Coimbatore.

Iyer, Nadar & Co., Coffee Merchants, Variety Hall Road, Coimbatore.

Jairam, C. & Co., Syrian Church Road, Coimbatore.

Jayems Engineering Co., Oppanakara Street, Coimbatore.

Jaga Button Industries Ltd., Cross-cut Road, Coimbatore.

Johar & Sons, Trichy Road, Coimbatore.

K. A. Ramadu Chettiar & Sons, 29, Vysial St., Coimbatore.

Kala Industries P. Ltd., Tudiyalur (Dt. Coimbatore).

Kalyani & Co., 243, Rangai Gowder Street, Coimbatore.

Kanji Dwarkadas & Bros., Rangai Gowder Street, Coimbatore.

Kannapiran Corporation Ltd., Mill Road, Coimbatore.

Kasturi Engineers P. Ltd., Avanashi Road, Coimbatore.

Keserishih Vallabhdas & Co., R. S. Puram P.O., Coimbatore.

Kikani & Co., 9/20, Syrian Church Road, Coimbatore.

Kilachand Devchand & Co., Ltd., Grey Town, Coimbatore.

Kilburn & Co. P. Ltd., Post Box 763, Coimbatore 2.

Kirtilal Kalidas & Co., 230, Raja Street, P. O. Box No. 32, Coimbatore.

Kollegal Seriveeri Chetty & Sons, Sukravarpet, Coimbatore.

Kotak & Company, Cotton Merchants, R. S. Puram, Coimbatore.

Kovai Syndicate, 315, Vysial St., Coimbatore.

K. P. Castor Oil Works, Sambanda Mudaliar Road, R. S. Puram, Coimbatore.

K. R. Radha & Co., Raja Street, Coimbatore.

Krishnaswami & Co., R. S. Puram, Coimbatore 2.

Leader Industries, 8, Tatabad, Coimbatore 12.

L. G. Balakrishnan & Bros., India House, Trichy Road, Coimbatore.

Lilaram Shewaram (India) Ltd., 62, Raja Street, Coimbatore.

Lingam & Co., Avanashi Road, Coimbatore.

L. P. Krishnaswamy Naidu & Bros., Fraser Square, Coimbatore.

Madras Chit Funds P. Ltd., Oppanakara St., Coimbatore.

Madras Circle Pipe Dealers' Assen. Ltd., 4/2, Race Course Road, Coimbatore.

Madras Phosphate Manufacturers P. Ltd., 51, Ponnurangam Road, Coimbatore 2.

Mangaldas & Co., Mall Mill Road, Coimbatore.

Manian & Co., E. P. B., 5/34, Avanashi Road, Coimbatore.

M. Banuchoy & Co., Fraser Square, Coimbatore.

Meccano Floorings Ltd., College Road, Coimbatore.

Mettur Fertilisers Co., P. Ltd., Sambandam Road, R. S. Puram, Coimbatore.

M. K. Bhatt & Co., 243, Rangai Gowder Street, Coimbatore.

Modi & Modi, Police Head Quarters Road, Coimbatore.

Morarji Ramji & Co., 8/8, Cox Street, Coimbatore.

MOTORS & SERVICES PRIVATE LTD., United Motors Buildings, Avanashi Road, Coimbatore.

M. C. R. Rajagopala Chettiar & Sons, Rangai Gowder Street, Coimbatore.

M. S. Manickam & Co., Mill Road, Coimbatore.

M. T. Rajan & Co., Avanashi Road, Coimbatore.

Murugappa & Sons, Raja Street, Coimbatore.

Mysore Fertilisers Co., 43, Dewan Bahadur Road, R. S. Puram, Coimbatore 2.

N. Ram Brothers, Avanashi Road, Coimbatore.

Nagindas Kilabhai (South India) P. Ltd., Cox Street, Coimbatore.

Nalarajan & Co., 5/41, State Bank Road, Coimbatore.

Nanco Rubber & Plastics Ltd., A.T.T. Colony, Coimbatore.

Narayana Rao & Bros., S. Rangai Gowder St., Coimbatore.

Natesan & Co., S.C., 35, Sundaresa Iyer Colony, Trichy Road, Coimbatore.

Needlex Industries (India) Ltd., Post Box No. 12, Coimbatore.

N. Ramu Bros., Avanashi Road, Coimbatore.

Ottajee Branch, S., 144, Big Bazar St., Coimbatore.

P. A. Raju Chettiar & Brother, "Swarna Maligai," Big Bazar Street, Coimbatore.

P. L. Srinivasa Iyer & Sons, Big Bazar Street, Coimbatore.

Pagefield Agencies, Coimbatore 9.

Pannalal Ramkumar & Co., 9/2, Kannuswamy Road, R. S. Puram, Coimbatore.

Parry & Co., Ltd., Fraser Square, Coimbatore.

Patel Cotton Co., Ltd., Avanashi Road, Coimbatore.

Patel Steel Trunks Ltd., Big Bazar Street, Coimbatore.

P. G. Parameswara Iyer & Sons, Dewan Bahadur Road, R. S. Puram, Coimbatore 2.

Pierce Leslie & Co., Ltd., Race Course Road, Coimbatore.

Popular Equipment & Co., Avanashi Road, Coimbatore.

Praga Industries P. Ltd., P. Box 161, Coimbatore.

P. S. G. Industrial Institute, Peelamedu P.O., Coimbatore.

PURUSHOTHAM RAMJEE & CO., 11/49, East Sambanthan Road, Coimbatore 2; Phone: 3468; Grams: "HONESTY."

Quality Traders, 47, Karuppa Gowder Street, Coimbatore.

R. Ramalingaier & Bros., Raja Street, Coimbatore.

Raghulal & Co., 256, Oppanakara Street, Coimbatore.

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Rainbow Sewing Thread Co., 14/191, Lingappa Chetty Street, Coimbatore.

Rallis India Ltd., Avanashi Road, Coimbatore.

Ram Co. Swadhesis, 266, Oppanakara Street, Coimbatore.

Ram Industrials, Tudiyalur (Dt.), Coimbatore.

Rama & Co., Mettupalayam Road, R. S. Puram, Coimbatore.

Ramakrishna Industrial P. Ltd., Peelamedu P.O., Coimbatore.

Ramanatha Iyer & Bros., T.R.S. Sambanda Mudaliar Road, Coimbatore 2.

Ramnarayan Girdhardas & Co., Rangai Gowder Street, Coimbatore.

Ramu & Co., Big Bazar Street, Coimbatore.

Ramu Foundry, Pappanaicken Palayam, Coimbatore.

Rayon Traders P. Ltd., United India Bldg., Avanashi Road, Coimbatore.

Remington Rand of India Ltd., Big Bazar, Opp. Municipal Office, Coimbatore.

Sai Traders, Raja Street, Coimbatore.

Sarada Trading Co., 3, Syrian Church Road, Coimbatore.

Samy Chettiar & Sons, V. C. M., 26, Thomas St., Coimbatore.

Scientific Fertiliser Co. Ltd., Ponnurangam Road, R. S. Puram, Coimbatore.

Seniappa Mudaliar & Sons, V. R. A., Raja Street, Coimbatore.

Sizing Materials Co. P. Ltd., Trichy Road, Coimbatore.

Skins & Leathers P. Ltd., Ganesh Mahal, Dewan Bahadur Road, R. S. Puram, Coimbatore.

South India Corporation P. Ltd., 10/25, Jail Road, Coimbatore.

Southern Engineering Industries, 2/242, Avanashi Road, Coimbatore.

Speedline Agencies, 249/E-2, Avanashi Road, Coimbatore.

Spencer & Co. Ltd., Coimbatore.

Sreevatsa Engineering Trading Co., Patel Road, Coimbatore.

S. S. Hajee Syed Ahmed Rowther & M. A. P. Hajee Mohammed Kamaldeen Rowther, 321-A, Vysial Street, Coimbatore.

Stanes Amalgamated Estates Ltd. (Managing Agents: T. Stanes & Co., Ltd.), Race Course Road, Coimbatore.

Stanes Motors (South India) Limited, (Managing Agents & Secretaries: T. Stanes & Co., Ltd.), Post Box No. 12, Race Course Road, Coimbatore.

Supreme Mill Stores Trading Co., 12/38, Devanga High School Road, R. S. Puram, Coimbatore.

Tamilnad Transports (Cbe.) P. Ltd., Santhi Nilayam, Saibaba Colony, Coimbatore 11.

Tea Estates India P. Ltd., Race Course Road, Coimbatore.

Texmo Industries, Mettupalayam Road, Coimbatore 2.

Textile Machinery Corpn. Ltd., Avanashi Road, Coimbatore.

Textiles Supplies Syndicate (India) Ltd., Cross-cut Road, Coimbatore.

Textool Company Limited, Ganapathy, Coimbatore 6.

Thachil Corporation, Jail Road, Coimbatore.

Thammanna Chettiar & Co., A. T. N., 238, Raja Street, Coimbatore.

Tiles and Floorings Ltd., Avanashi Road, Coimbatore.

T. S. Dasappa Chettiar & Co., Jail Road, Coimbatore.

Titan Paints and Varnishes Ltd., Podanur, Coimbatore.

T. M. S. & Company, Avanashi Road, Coimbatore.

T. V. Sundaram Iyengar & Sons, P. Ltd., Mettupalyam Road, Coimbatore.

Uberoi Limited, 8/23, Avanashi Road, Coimbatore.

United Coffee Supply Co., Ltd., Trichy Road, Coimbatore.

United Nilgiri Tea Estates Co., Ltd., The (Managing Agents: T. Stanes & Co., Ltd.), Post Box No. 12, Coimbatore.

UNIVERSAL RADIATORS, Mettupalayam Road, Coimbatore 11. Manufacturers of Radiators for Automobile, Industrial Engines & all other Types of Engines; High Pressure Oil coolers for Diesel Railway Cars, Rotary Compressors and allied products.

U. R. Joshi & Co., P. Box No. 760, R. S. Puram, Coimbatore.

V. A. M. Ratnam & Bros., Vysial Street, Coimbatore.

Vitamin Products Co., 213, Tatabad, Coimbatore 12.

V. Raju Naidu & Co., Mill Road, Coimbatore.

Veeku Silk Co., 275, Oppanakara St., Coimbatore.

Vennal Naidu & Sons, C. S., Avanashi Road, Coimbatore.

Voltas Ltd., Race Course Road, Coimbatore.

V. S. Rajagopalan & Co., Avanashi Road, Coimbatore.

V. T. S. Castor Oil Mfg. Co., Ltd., Sastri Road, Ranganathapuram, Coimbatore.

Vyas & Co., G. M., 95, Jail Road, Coimbatore.

Wakefield Engineering Co., Jail Road, Coimbatore.

Yarn Syndicate, 27-B, V. C. V. Layout, R. S. Puram, Coimbatore 2.

CLASSIFIED LIST OF TRADES & PROFESSIONS

AERATED WATER MANUFACTURERS

Asoka Soda Factory.—Big Bazar Street, Coimbatore.
City Soda Factory.—Raja Street, Coimbatore.
Leader & Co.—Nawab Hakeem Road, Coimbatore.
Mani & Co.—Big Bazar Street, Coimbatore.
Union Soda Factory.—Rangai Gowder Street, Coimbatore.
Venkatasa Soda Factory.—Rangai Gowder Street, Coimbatore.
Vincent & Co., Ltd.—Trichy Road, Coimbatore.

AGRICULTURAL IMPLEMENTS MFRS.

EASTERN ELECTRICAL CO. LTD.—Singanallur, Coimbatore 5.

ELSEETEE INDUSTRIES.—P.O. Box 28, Singanallur, Coimbatore 5.

Farm Equipment Ltd.—Ganapathy Post, Coimbatore.
P. S. G. Industrial Institute.—Peelamedu, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

AIR-CONDITIONING & REFRIGERATION

Garlick & Co.—Cox Street, Coimbatore.
Parry & Co. Ltd.—Fraser Square, Coimbatore.
Refrigeration Engineering Works.— Nawab Hakeem Road, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

AUTOMOBILE ENGINEERS

Alwyns Motor Works.—Trichy Road, Coimbatore.
Anthony's Automobiles.—Trichy Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
Blumount Auto Service.—Mettupalayam, Coimbatore.
City Transport Ltd.—Avanashi Road, Coimbatore.
Coimbatore Motor-Cycle Works.—Nawab Hakeem Road, Coimbatore.

DIESEL (INDIA).—6/124-B, Trichy Road, Coimbatore 1.

Francis Motor Works.—Trichy Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gibson's Auto Service.—Mettupalayam, Coimbatore.
India Services (Coimbatore) Ltd.—4/105, Trichy Road, Coimbatore.
Krishna Motor Works.—Avanashi Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Mani Motor Cycle Works.—Avanashi Road, Coimbatore.
Marikar (Motors) Ltd.—Avanashi Road, Coimbatore.
Modern Motor Works.—Fraser Square, Coimbatore.
Motors & Services.—Avanashi Road, Coimbatore.
National Motor Works.—Trichy Road, Coimbatore.
Southern Motors.—Trichy Road, Coimbatore.
South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
Sri Ram Engineering Works.—Crosscut Road, Coimbatore.
Standard Automobiles.—Crosscut Road, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
St. Anthony's Motor Cycle Works.—Trichy Road, Coimbatore.

AUTOMOBILE PARTS & ACCESSORIES

ABDULLA & SONS.—Nawab Hakim Road, Coimbatore.

A. C. B. Automobiles.—Mettupalayam Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, Coimbatore.
Central Autoparts & Co.—Avanashi Road, Coimbatore.
Gajaraj & Co.—Jail Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gounder & Co.—Jail Road, Coimbatore.
Katteri Automobiles.—Avanashi Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Malabar Modern Automobiles.—Avanashi Road, Coimbatore.
Motors & Services.—Avanashi Road, Coimbatore.
Mythili Motors.—Mettupalayam Road, Coimbatore.
Pillay & Co.—Avanashi Road, Coimbatore.
Pioneer Motors.—Old Post Office Road, Coimbatore.
Premier Agencies.—Trichy Road, Coimbatore.
Shining Motors.—Cox Street, Coimbatore.
Sri Ram Industrials.—Tudiyalur, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.

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AUTOMOBILES (CARS, TRUCKS & MOTOR CYCLES)

Addison & Co. Ltd.—Avanashi Road, Coimbatore.
Associated Automobiles Ltd.—Avanashi Road, P. O. Box 128, Coimbatore.
Coimbatore Automobiles.—Avanashi Road, Coimbatore.
Gajaraj & Company.—Jail Road, Coimbatore.
George Oakes Ltd.—Avanashi Road, Coimbatore.
Gounder & Co. Ltd.—Jail Road, Coimbatore.
L. G. Balakrishnan & Bros.—India House, Trichy Road, Coimbatore.
Marikar Motors Ltd.—Avanashi Road, Coimbatore.
South India Corporation (Madras) Ltd.—Jail Road, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
United Motors Ltd.—Avanashi Road, Coimbatore.

BANKS

Adhelaksmi Bank Ltd.—Raja Street, Coimbatore.
Annupparpalayam Bank Ltd.—Jail Road, Coimbatore.
Arian Bank.—Rangai Gowder Street, Coimbatore.
Bank of Baroda Ltd.—Big Bazar Street, Coimbatore.
Bank of Bikaner Ltd.—Oppanakara Street, Coimbatore.
Bank of India Ltd.—Head Post Office Road, Coimbatore.
Bank of Jaipur Ltd.—Oppanakara Street, Coimbatore.
Bank of Madura Ltd.—Oppanakara Street, Coimbatore.
Bank of Mysore Ltd.—Oppanakara Street, Coimbatore.
Canara Banking Corporation Ltd.—Oppanakara Street, Coimbatore.
Canara Bank Ltd.—Edayar Street, Coimbatore.
Canara Industrial & Banking Syndicate Ltd.—Oppanakara Street, Coimbatore.
Central Bank of India Ltd.—Variety Hall Road, Coimbatore.
Chaldean Syrian Bank.—Raja Street, Coimbatore.
City Co-operative Bank Ltd.—Gopalapuram, Coimbatore.
Coimbatore Bank Ltd.—Raja Street, Coimbatore.
United Motors Ltd.—Avanashi Road, Coimbatore.
Coimbatore Bhaghylakshmi Bank Ltd.—Oppanakara Street, Coimbatore.
Coimbatore Commerce Bank.—Union High School Road, Coimbatore.
Coimbatore Co-operative House Mortgage Bank Ltd.—Jail Road, Coimbatore.
Coimbatore Co-operative Stores & Bank Ltd.—Sullivan Street, Coimbatore.
Coimbatore District Co-operative Central Bank Ltd.—State Bank Road, Coimbatore.
Coimbatore Ganeshar Bank Ltd.—Jail Road, Coimbatore.
Coimbatore Hindu Kripakara Nidhi Ltd.—Oppanakara Street, Coimbatore.
Coimbatore Janopkara Bank Ltd.—Vysial Street, Coimbatore.
Coimbatore National Bank Ltd.—Variety Hall Road, Coimbatore.
Coimbatore Standard Bank Ltd.—R. S. Puram, Coimbatore.
Coimbatore Town Bank Ltd.—Rangai Gowder Street, Coimbatore.
Coimbatore Varthaka Virdhi Bank Ltd.—Rangai Gowder Street, Coimbatore.
Coimbatore Vasunthara Bank Ltd.—Raja Street, Coimbatore.
Dravya Sahaya Bank Ltd.—Oppanakara Street, Coimbatore.
Indian Bank Ltd.—Variety Hall Road, Coimbatore.
Indian Overseas Bank Ltd.—Oppanakara Street, Coimbatore.
Indo Commercial Bank Ltd.—Oppanakara Street, Coimbatore.
Indo Mercantile Bank Ltd.—Edayar Street, Coimbatore.
Janasahaya Bank Ltd.—Nawab Hakeem Road, Coimbatore.
Kamalalaya Bank.—Raja Street, Coimbatore.
Karpaga Nidhi Ltd.—Devangapet, Coimbatore.
Karur Vysia Bank Ltd.—Oppanakara Street, Coimbatore.
Madras City Bank Ltd.—Oppanakara Street, Coimbatore.
Mannar Bank Ltd.—Thomas Street, Coimbatore.
Melarcode Bank Ltd.—Variety Hall Road, Coimbatore.
Modern Bank Ltd.—Oppanakara Street, Coimbatore.
Nedungadi Bank Ltd.—Oppanakara Street, Coimbatore.
New India Bank Ltd.—Vysial Street, Coimbatore.
Peelamedu Co-operative Land Mortgage Bank Ltd.—Avanashi Road, Coimbatore.
Punjab National Bank Ltd.—Oppanakara Street, Coimbatore.
South Indian Bank Ltd.—Raja Street, Coimbatore.
Srinivasperumal Bank Ltd.—Crosscut Road, Coimbatore.
State Bank of India.—State Bank Road, Coimbatore.
Thocos Bank Ltd.—Raja Street, Coimbatore.
Travancore Bank Ltd.—Oppanakara Street, Coimbatore.
Travancore Forward Bank Ltd.—Oppanakara Street, Coimbatore.
United Commercial Bank Ltd.—Oppanakara Street, Coimbatore.

BOOKSELLERS & STATIONERS

Balu Book Stall.—Crosscut Road, Coimbatore.
Bettai Gowder K.O.—Raja Street, Coimbatore.
C. R. NATARAJAN & SON.—Big Bazaar Street, Coimbatore.
Chelliah Stores.—Crosscut Road, Coimbatore.
Christian Book Shop.—Avanashi Road, Coimbatore.
Coimbatore Sakthi Kariyalayam.—Variety Hall Road, Coimbatore.
Dinamani Stores.—Near U.M.S., Coimbatore.
Egyptian Stationery.—Raja Street, Coimbatore.
Hindustan Traders.—Raja Street, Coimbatore.
Kavignar Padippakam.—Raja Street, Coimbatore.
Nanjappa & Co.—Raja Street, Coimbatore.
Popular Hindustan Publication.—Old Post Office Road, Coimbatore.
Reliance General Stores.—Variety Hall Road, Coimbatore.
Tamil Nadu Book Sellers.—Raja Street, Coimbatore.
Vasantham Stores.—Crosscut Road, Coimbatore.

BUILDERS, ENGINEERS & CONTRACTORS

Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
G. S. Gangadharam.—Oppanakara Street, Coimbatore.
Industrial Construction Co. Ltd.—Mettupalayam, Coimbatore.
Johar & Sons.—Trichy Road, Coimbatore.
Kanniah Prasad B.—Sama Rao Street, Coimbatore.
N. Narayanaswamy Naidu.—Muthannankulam Road, Coimbatore.
Reliable Construction Co.—9/3, Palm Grove Road, R. S. Puram, Coimbatore 2.
R. Krishnaswami.—Subramaniam Road, R. S. Puram, Coimbatore.
R. Krishnaswami.—Jail Road, Coimbatore.

BUTTON FACTORIES

JAGA BUTTON INDUSTRIES LTD.—Post Bag No. 519, Mettupalayam Road, Coimbatore.
Praga Industries Ltd.—Krishnarajapuram, Coimbatore.
Vijaya Industries.—Peelamedu, Coimbatore.

CASTOR OIL MANUFACTURERS

K. P. CASTOR OIL WORKS.—R. S. Puram P.O., Coimbatore 2; Phone : 2327; Manufacturers of pure, tasteless, odourless Castor oil since 1933.
Radha Castor Oil Works.—Sukrawarpet, Coimbatore.
V. T. S. Castor Oil Manufacturing Co. Ltd.—Rt. Hon'ble Sastri Road, Ranganathpuram, Coimbatore.

CEMENT MERCHANTS

Asbestos Cement Ltd.—Podanur, Coimbatore.
Associated Cement Co. Ltd.—Madukkarai, Coimbatore.
Cement Marketing Co. of India Ltd.—Race Course Road, Coimbatore.
Dalmia Cement.—Oppanakara Street, Coimbatore.
India Cements Ltd.—Mettupalayam Road, Coimbatore.
Pankajam & Co.—Avanashi Road, Coimbatore.
Rajamanickam A.—Avanashi Road, Coimbatore.
Srinivasan & Co.—Krishnaswamy Mudaliar Street, Coimbatore.
Sundaram & Co.—Oppanakara Street, Coimbatore.

CENTRIFUGAL PUMPS MANUFACTURERS

Dhandayuthapani Foundry Private Ltd.—Pappanaickenpalayam, Coimbatore.
EASTERN ELECTRICAL CO. LTD.—Singanallour, Coimbatore 5.
Farm Equipments Ltd.—Ganapathy P.O., Coimbatore.
GANAPATHY ENGINEERING MANUFACTURERS PRIVATE LTD.—Ganapathy, Coimbatore 6.
General Engineering Co.—Sardar Patel Road, Ranganathapuram, Coimbatore.
Murugan Foundry.—Jail Road, Coimbatore.
P. S. G. INDUSTRIAL INSTITUTE.—Peelamedu P.O. Coimbatore 4; Manufacturers of Centrifugal Pumps from 1" × 1" to 12" × 12", Special types of pumps to the required Specifications, Hydraulic Laboratory Equipments; Phones : 4158 & 4159; Grams : "CHARITY."
Sri Ram Industrials.—Tudiyalur P.O., Coimbatore.
Vijaya Foundry.—Pappanaickenpalayam, Coimbatore.

CHEMISTS & DRUGGISTS

All Medical Stores.—Big Bazar Street, Coimbatore.
Ambrose, S.—Cox Street, Coimbatore.
Aryavaidya Pharmacy.—Trichy Road, Coimbatore.

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Ayurvedic Medical Shop.—Variety Hall Road, Coimbatore.
Central Pharmacy, The.—33, St. Michael's Emporium, Big Bazar Street, Coimbatore.
City Pharmacy, Avanashi Road, Coimbatore.
Dasai Gowder & Co.—Avanashi Road, Coimbatore.
D. S. V. & Sons.—Avanashi Road. Coimbatore.
Easwar Medical Shop.—Raja Street, Coimbatore.
English Pharmacy.—Raja Street, Coimbatore.
European General Stores.—State Bank Road, Coimbatore.
Gurunath Medical Stores.—Nawab Hakeem Road, Coimbatore.
Hameed Medical Stores.—Big Bazar Street, Coimbatore.
Jaya Pharmacy.—Oppanakara Street, Coimbatore.
Kanchana Medical Store.—Rangai Gowder Street, Coimbatore.
Kasinath & Co.—Big Bazar Street, Coimbatore.
Kerala Medical Stores.—Rangai Gowder Street, Coimbatore.
K.P.M. Sadhu Vaidyasala.—Variety Hall Road, Coimbatore.
Krishnaswami & Co.—Raja Street, Coimbatore.
Manian & Co., E. P. B.—Avanashi Road, Coimbatore.
Modern Medical & General Stores.—Big Bazar Street, Coimbatore.
National Pharmacy.—Oppanakara Street, Coimbatore.
Paul & Co., V. J.—Nawab Hakeem Road, Coimbatore.
Ramdas Pharmacy.—Crosscut Road, Coimbatore.
Ramnath & Co.—State Bank Road, Coimbatore.
Saraswathi Medical Stores.—Edayar Street, Coimbatore.
Saroja Medical & General Stores.—Raja Street, Coimbatore.
Shivaji Medical Hall.—Imperial Bank Road, Coimbatore.
South India Medical Stores.—Oppanakara Street, Coimbatore.
South India Medical Co. Ltd.—Big Bazar Street, Coimbatore.
Star Drug Co.—Raja Street, Coimbatore.
Subramanian & Co.—Raja Street, Coimbatore.
Thambi & Co.—Ukkadam, Coimbatore.
Thomson Medical & General Stores.—Raja Street, Coimbatore.
United Concerns.—Thomas Street, Coimbatore.
Vasan & Co.—Rangai Gowder Street, Coimbatore.
Veda & Co.—East Arogysamy Road, Coimbatore.
Wilfred Pereira Ltd.—Avanashi Road, Coimbatore.

CLOTH MERCHANTS

Raja Street :—

Ajay Textiles.
Aruna Cloth Shop.
B. Basuvaiah Chetty.
Blue Palace.
Ceylon Traders & Co.
Chettiar & Co.
City Matty Stores.
C.S.V.'s Cloth Centre.
Giri Swadesi Stores.
Karana Cloth Palace.
Kumar & Co.
Laxmi Textiles.
Manohar Swadeshi Stores.
Mehta Hosiery Mart.
M. Kaliappan & Sons.
Murugappa & Sons.
M. V. N. Maruthachalam Chettiar.
Parameswari Hall.
Rajalakshmi Cloth Stores.
Rajaram Hall.
Rajeswaran Textiles.
Sarada Cloth & Embroidery Stores.
Sha Fulchand Vasthimal & Co.
S. Venkataraman.
Textorium.
V. Peraswamy.

Uppukinar Street :—

Lakshmi Textiles.
N. R. G. & Co.
Paramesh Textiles.

Mill Road :—

Kantha Cloth Stores.

Variety Hall Road :—

Sri Krishna Industrials.
T. P. Krishna & Co.

Rangai Gowder Street :—

Bombay Hall.
K. Nataraja Gownder.
K. Sivasamy.
Krishna Vilas.
Kunnai Gowder & Sons.
Mangala Vilas.
N. Ramaswamy Pandaram.
Ramnarayan Giridari Das & Co.
Ramaiah Gowder & Co.
R. K. Velaswamy.
T. S. Kalyanarama Iyer.
Tribuvandas Vendravan & Co.
V. Rangai Gownder Sons.

Oppanakara Street :—

Bombay Warehouse.
B. Nanjunda Gownder Sons.
Fashions Silk House.
Ganesh Emporium.
Harish & Co.
K. Manickam Chettiar.
Lunkaran Pookhraj & Co.
Manohara Swadesi Stores.
Muthuraman & Co.
P. Lalchand & Sons.
P. S. Murugesa Mudaliar.
P. Balan & Brother.
Ramco Swadesis.
R. Doraswamy Naidu.
R. S. Murugesa Mudaliar.
Saraswathi Textiles.
Selvamani Textiles.
Seetharam Agencies.
S. M. Ranaganatham Chettiar.
South Indian Textile Corporation.
Swaraj Textiles.
Veeku Silk Co.
Venkatesh Vastralaya.
Vijayalakshmi Hall.
V. M. Annamalai Mudaliar.

Big Bazaar Street :—

A. Kuppanan.
Bharat Stores.
B. Narayana Naicker & Co.
Chellam Cloth Shop.
Coimbatore Cloth Mart.
Colombo Saree Works.
C. S. Arumugam Chettiar.
C. Tickamdass.
Fancy Hall.
Farook Stores.
General Ware House.
Jothi Readymade Stores.
Kamala & Co.
Kantha Cut Piece Stores.
K. Narayana Naicker & Co.
K. N. Venkataswamy Naidu.
Maduram Stores.
Meda Gopal Chettiar & Sons.
Meda Swadesi Stores.
M. Lalchand.
Mohan Stores.
Poornima Stores.
Prakasam Readymade Stores.
Rajini Silk Palace.
Royal Silk House.
Satya Stores.
S. Beemiah Chettiar.
Seetharam Stores.
Selections.
S. Manickam Pillay & Son.
S. Rajuchettiar.
Sri Murugan & Co.
Sundaram Stores.
Swaraj Silk Palace.
Tajmahal Silk Museum.
Venkatesh Emporium.

Y.M.C.A. Road :—Santha Stores.
Edayar Street :—Vinayagar Stores.
Avanashi Road :—Zubaida Fancy.

CEYLON TRADERS & CO.—Sukhrawarpet, Coimbatore.

R. S. Puram :—

Bharathi Stores.
Ramoo & Co.

Cross Cut Road :—K. L. G. & Sons.
Ramnagar :—Tharakaram Silk House.
Ghandipuram :—Sri Devy Stores.

COFFEE & TEA MERCHANTS

Achutha Coffee Manufacturing Co.—Raja Street, Coimbatore.
Ambrosia Tea Emporium.—Trichy Road, Coimbatore.
Anandha Coffee Works.—Rangai Gowder Street, Coimbatore.
Anandha Tea Emporium.—Trichy Road, Coimbatore.
Bhavani Tea Products Ltd.—R. S. Puram, Coimbatore.
Coimbatore Coffee Trading Co.—Variety Hall Road, Coimbatore.

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Devarshola Tea Company Ltd.—Race Course Road, Coimbatore.
Devi Tea Products.—Rangai Gowder Street, Coimbatore.
Dibru Darring Tea Co. Ltd.—Palingrove Road, Coimbatore.
Famous Coffee & Tea Works.—Rangai Gowder Street, Coimbatore.
Gita Coffee Works.—Oppanakara Street, Coimbatore.
Indian Coffee Supply Co.—Big Bazar Street, Coimbatore.
Indra Coffee Works.—Union High School Road, Coimbatore.
Iyer, Nadar & Co.—Variety Hall Road, Coimbatore.
Jain's Coffee Works.—Oppanakara Street, Coimbatore.
Kamala Coffee Works.—Rangai Gowder Street, Coimbatore.
Kannan Coffee Co.—Rangai Gowder Street, Coimbatore.
K. S. S. Soudhan Chettiar & Sons.—Variety Hall Road, Coimbatore.
Lakshmi Coffee Co.—Raja Street, Coimbatore.
Lion Brand Coffee Co —Raja Street, Coimbatore.
Lipton Tea Ltd.—Edayar Street, Coimbatore.
Madras Tea Estates.—Race Course Road, Coimbatore.
Meera Coffee Works.—Rangai Gowder Street, Coimbatore.
Nanjappa Gowder R.—Okkilias Street, Coimbatore.
Narasus Coffee Manufacturing Co.—Rangai Gowder Street, Coimbatore.
Narayan & Co.—Raja Street, Coimbatore.
Nathan Coffee Works.—Variety Hall Road, Coimbatore.
Neelamalai Coffee Estates.—Gandhi Puram, Coimbatore.
Radha's Coffee Manufacturing Co.—Rangai Gowder Street, Coimbatore.
Ramu's Coffee Works.—Rangai Gowder Street, Coimbatore.
Ratna Coffee Works.—R. S. Puram, Coimbatore.
Saraswathi Coffee Trading Co.—Rangai Gowder Street, Coimbatore.
Sri Shanmugha Coffee Works.—Crosscut Road, Coimbatore.
Stanes Amalgamated Tea Estates.—Race Course Road, Coimbatore.
Star Coffee Works.—Rangai Gowder Street, Coimbatore.
Tea Estates India Ltd.—Race Course Road, Coimbatore.
Thioshola Tea Co.—Race Course Road, Coimbatore.
Thomco Tea Ltd.—Jail Road, Coimbatore.
Union Coffee Supply Co.—Coimbatore.
United Coffee Supply Co.—Trichy Road, Coimbatore.
United Nilgiris Tea Estates.—Race Course Road, Coimbatore.
Vishnu Coffee Works.—Rangai Gowder Street, Coimbatore.

COTTON MERCHANTS

A. G. Gurusawmy Naidu & Sons.—Avanashi Road, Coimbatore.
Ahmad Abdul Sakoor.—Raja Street, Coimbatore.
AMUBHAI KALIDAS PRIVATE LTD.—7/47, Grey Town, Coimbatore.
Bell & Co.—Grey Town, Coimbatore.
C. JAIRAM & CO.—Syrian Church Road, Coimbatore.
Champaklal & Bros. P. Ltd.—P.Box 718, R. S. Puram, Coimbatore 2.
Consolidated Cotton Corporation.—Rangai Gowder Street, Coimbatore.
Dhanji Dwarkadas & Bros.—Rangai Gowder Street, Coimbatore.
Ganesar Ginning Co. Ltd.—Ganapathy, Coimbatore.
Hanumanthappa & Sons.—R. S. Puram, Coimbatore.
H. M. Mehta & Co.—Cox Street, Coimbatore.
Indira & Co.—Big Bazar Street. Coimbatore.
Jairamdas Nanmal.—Subramanya Mudaliar Street, Coimbatore.
Jothi & Co.—R. S. Puram, Coimbatore.
Kandaswamy Gounder & Co., E. R.—Ponnurangam Road, Coimbatore.
Kanji Walgi.—B. K. Chetty Street, Coimbatore.
Kilachand Devchand & Co.—Grey Town, Coimbatore.
Kosak & Co.—R. S. Puram, Coimbatore.
Krishna Ginning Factory.—Pappanaickenpalayam, Coimbatore.
Kurjee Dhanjee.—Syrian Church Road, Coimbatore.
Murugappa & Sons.—Raja Street, Coimbatore.
Narayana Ginning Factory.—Pappanaickenpalayam, Coimbatore.
Narsee Nagsee & Co.—R. S. Puram, Coimbatore.
Naryandas Gokuldas.—Oppanakara Street, Coimbatore.
Pannalal Rajkumar & Co.—R. S. Puram, Coimbatore.
Patel Cotton Co. Ltd.—Avanashi Road, Coimbatore.
Rallis (India) Ltd.—Avanashi Road, Coimbatore.
Sardar Trading Co.—3, Syrian Church Road, Coimbatore.
Sethna, H. B.—Syrian Church Road, Coimbatore.
Thulsidas Murarjee.—Vysial Street, Coimbatore.
T. K. Chinnaswamy Naidu.—Avanashi Road, Coimbatore.
Valjee Kanjee & Co.—Oppanakara Street, Coimbatore.
Vijayakumar Mercantile Corporation.—R. S. Puram, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.
Vyas & Co.—Jail Road, Coimbatore.
Waterfield & Co.—Edayar Street, Coimbatore.
Yagappa Chettiar, M. Y.—West Sambandam Road, Coimbatore.

COTTON MILLS

The Anandakumar Mills Ltd.—Sravanampatti P.O., Coimbatore.
Asher Textiles Limited.—Avanashi Road, Post Box No. 17, Tirupur.
Sri Balasubramania Mills Limited.—Singanallur P.O., Coimbatore 5.
The Bhavani Mills Ltd.—6/3-B, Race Course, Coimbatore 1.
The Cambodia Mills Limited.—P. B. No. 281, Singanallur, Coimbatore 5.
The Chandra Textiles Ltd.—Peelamedu, Coimbatore 4.
The Coimbatore Cotton Mills Ltd.—Singanallur P.O., Coimbatore 5.
The Coimbatore Cotton Jubilee Mills.—Singanallur, Coimbatore 5.
The Coimbatore Kamala Mills Ltd.—Uppilipalayam, Singanallur P.O., Coimbatore 5.
The Coimbatore Murugan Mills Ltd.—P.B. No. 703, R. S. Puram P.O., Coimbatore 2.
The Coimbatore Pioneer Mills Ltd.—P.B. No. 4, Peelamedu P.O., Coimbatore 4.
The Coimbatore Spg. & Wvg. Co. Ltd.—P.B. No. 24, Coimbatore.
The Dhanalakshmi Mills Ltd.—P.B. No. 29, Tirupur.
The D.P.F. Textiles Ltd.—Mettupalayam Road, Gnanambikai Mills P.O., Coimbatore.
The Gnanambikai Mills Ltd.—Gnanambikai Mills Post, Coimbatore.
G. Ramaswamy & Co.—Ganga Textiles, P.B. No. 279, Pappanaickenpalayam, Coimbatore.
The Gobald Textiles Ltd.—Tirupur.
Sri Hari Mills Ltd.—P.B. No. 27, Singanallur P.O., Coimbatore 5.
The Janardhana Mills Ltd.—Uppilipalayam, Singanallur P.O., Coimbatore 5.
The Jayalakshmi Mills Ltd.—P.B. No. 10, Singanallur P.O., Coimbatore.
The Jothi Mills.—Perianaickenpalayam, Sri Ramakrishna Vidyalaya P.O., Coimbatore.
The Kadri Mills (CBE) Ltd.—P.B. No. 19, Odderpalayam, Singanallur P.O., Coimbatore 5.
The Kannapiran Mills Ltd.—Sowripalayam P.O., Coimbatore.
The Karthikeya Spg. & Wvg. Mills Ltd.—P.B. No. 18, Singanallur P.O., Coimbatore 5.
The Karunambikai Mills Ltd.—Somanur P.O., Coimbatore Dist.
The Kasthuri Mills Ltd.—Singanallur P.O., Coimbatore 5.
The Kothari Textiles Ltd.—Singanallur P.O., Coimbatore 5.
The Krishnaveni Textiles Ltd.—P.B. No. 25, Singanallur P.O., Coimbatore 5.
The Kumaran Mills Ltd.—Peelamedu P.O., Coimbatore 4.
The Kwality Spinning Mills Ltd.—Pollachi.
The Lakshmi Mills Co. Ltd.—P.B. No. 31, Pappanaickenpalayam, Coimbatore.
The Lakshminarayana Textiles Ltd.—Vadugapalayam, Palladam Taluk, District Coimbatore.
The Lotus Mills Ltd.—Sundarapuram P.O., Podanur.
Narasimha Mills Ltd.—Kannanpalayam, Sulur P.O., Coimbatore.
Natesar Spg. & Wvg. Mills Ltd.—Erode.
Om Parasakthi Mills Ltd.—Krishnarayapuram, Ganapathy P.O., Coimbatore 6.
The Palamalai Ranganathar Mills Ltd.—Perianaickenpalayam, Sri Ramakrishna Vidyalaya P.O., Coimbatore.
The Palani Andavar Mills Ltd.—Dhalli Road, Udamalpet, Coimbatore Dist.
The Pankaja Mills Ltd.—P.B. No. 150, Puliakulam, Coimbatore.
Pioneer Textiles Ltd.—Vedapatty P.O., Coimbatore.
The Prakash Mills Ltd.—P.B. No. 12, Peelamedu, Coimbatore 4.
The Premier Mills (Coimbatore) Ltd.—Pulankinar R. S., Udamalpet.
The Premier Mills (Coimbatore) Ltd.—Othakalmandapam Branch, Coimbatore.
The Radhakrishna Mills Ltd.—Peelamedu, Coimbatore 4.
The Radhika Mills Ltd.—5/179, Uppilipalayam, Coimbatore 5.
The Rajalakshmi Mills Ltd.—Singanallur P.O., Coimbatore 5.
Sri Ramakrishna Mills (CBE) Ltd.—Ganapathy P.O., Coimbatore 6.
The Ramalinga Choodambikai Mills Ltd.—Tirupur.
The Ramnarayan Mills Ltd.—Perianaickenpalayam, Coimbatore.
The Ranga Vilas Ginning, Spg. & Wvg. Mills Ltd.—P.B. No. 3, Peelamedu, Coimbatore 4.
The Raveendran Mills Ltd.—P. B. No. 26, Singanallur P.O., Coimbatore 5.
The Sakthi Textiles Ltd.—Post Box No. 36, Pollachi.
The Sarada Mills Ltd.—Loganathapuram, Podanur.
Sarguna Textiles.—Sulur P.O., Coimbatore.
The Saroja Mills Ltd.—Singanallur P.O., Coimbatore 5.
The Selvaraj Mills Ltd.—Singanallur P.O., Coimbatore 5.
The Sivananda Mills Ltd.—Ganapathy P.O., Coimbatore.
The Somasundaram Mills Ltd.—P.B. No. 134, Coimbatore.
The Southern Textiles Ltd.—Sulur Post, Coimbatore.
The Sujani Textiles Ltd.—Sowripalayam P.O., Coimbatore.
The Suryaprabha Mills Ltd.—Kuniamuthhr, Coimbatore.
The Tirumurthi Mills Ltd.—Udamalpet, Coimbatore District.
The Tirupur Cotton Spg. & Wvg. Mills Ltd.—P.B. No. 12, Tirupur.
United Bleachers P. Ltd.—Mettupalayam.
The Varadarajah Textiles Ltd.—Peelamedu P.O., Coimbatore 4.
The Vasantha Mills Ltd.—P.B.No. 16, Singanallur P.O., Coimbatore 5.
The Vasudeva Industries Ltd.—Odderpalayam, Singanallur, Coimbatore 5.
The Venkatesa Mills Ltd.—Venkatesa Mills Post, Udamalpet, R.S.
The Vijayalakshmi Mills Ltd.—Kuniamuthur Post, Coimbatore.
The Vijayeswari Textiles Ltd.—Pulliampatti, Pollachi.

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COTTON TEXTILE MACHINERY

P. S. G. & Sons Charity Institute.—Coimbatore.

RAMAKRISHNA INDUSTRIALS PRIVATE LTD.—Peelamedu, Coimbatore 4.

Textool Co., Ltd.—Ganapathy, Coimbatore 6.

COTTON WASTE MERCHANTS AND EXPORTERS

Asoka Corporation.—Ramalingam Road, R. S. Puram, Coimbatore 2.
C. Jairam & Co.—Syrian Church Road, Coimbatore.

G. M. VYAS & CO.—93, D. B. Road, R. S. Puram, Coimbatore 2.

Kurji Dhanjee.—Devangapet, Coimbatore.

MEHTA & CO.—9/20, Devangapet No. 2, P.O. Box 122, Coimbatore 1.

M. K. Bhatt & Co.—Rangai Gounder Street, Coimbatore.

NARSI THULSIDAS.—Ponnurangam Road, R. S. Puram, Coimbatore 2.

Pandya Company.—Magircar Road, R. S. Puram, Coimbatore 2.

PURUSHOTHAM MURARJEE.—Cotton Waste Exporters, 123, Ramachandra Road, Post Bag 7, Coimbatore 2.

Purushotam Ramjee & Co.—Sambandam Road, R. S. Puram, Coimbatore 2.
Sarada Trading Co.—Syrian Church Road, Coimbatore.
Thulsidas Murarji & Co.—Vysian Street, Coimbatore.

CYCLE DEALERS

Asoka Cycle Mart.—Variety Hall Road, Coimbatore.
Babulal & Sons.—Variety Hall Road, Coimbatore.
Bharath Cycle Stores.—Variety Hall Road, Coimbatore.
Easwar Cycle Stores.—Oppanakara Street, Coimbatore.
Gowder Cycle Mart.—Variety Hall Road, Coimbatore.
Gujarat Cycle Trading Co.—Oppanakara Street, Coimbatore.
International Cycle Emporium.—Variety Hall Road, Coimbatore.
Jupiter Cycle Mart.—Big Bazar Street, Coimbatore.
Lakkiah Cycle Mart.—Variety Hall Road, Coimbatore.
Presidency Cycle Importing Co.—Variety Hall Road, Coimbatore.
Raja & Co.—Avanashi Road, Coimbatore.
Standard Cycle Importing Co.—Variety Hall Road, Coimbatore.
Universal Cycle Mart.—Variety Hall Road, Coimbatore.
Variety Cycle Stores.—Oppanakara Street, Coimbatore.

DIESEL ENGINES

Dhandayuthapani Foundry Ltd. — Pappanaickenpalayam, Coimbatore.
Textool Co., Ltd.—Ganapathy P.O., Coimbatore 6.
Vijaya Foundry.—Pappanaickenpalayam, Coimbatore.

DYEING & BLEACHING COMPANIES

Acme Textile Dyeing & Printing Industries.—Mettupalayam, Coimbatore.
Ananda Saya Salai—Edayar Street, Coimbatore.
Balasubramaniam Dyeing & Trading Corp.—Rangai Gowder Street, Coimbatore.
Essorpe Saya Salai—Rangai Gowder Street, Coimbatore.
Madurai Mahalakshmi Saya Salai—Rangai Gowder Street, Coimbatore.
Malli Saya Salai.—Rangai Gowder Street, Coimbatore.
Nilamegam Saya Salai.—Sukrawarpet, Coimbatore.
Rainbow Dyeing & Bleaching Works.—Chinnappa Chetty Street, Coimbatore.
Saraswathy Saya Salai—Rangai Gowder Street, Coimbatore.
United Bleachers Ltd.—Mettupalayam P.O., Coimbatore.

DYESTUFF & CHEMICAL DEALERS

Acme Textile Distributors.—Venkataswamy Road, R. S. Puram, Coimbatore.
Doraiswamy, P. M.—Rangai Gowder Street, Coimbatore.
Pattabiraman, T. K.—Rangai Gowder Street, Coimbatore.
Srinivasa Charlu & Co., M.—Rangai Gowder Street, Coimbatore.
Subburaju, R.—Sukrawarpet, Coimbatore.
Vasan & Co., S.—Rangai Gowder Street, Coimbatore.

ELECTRICAL DEALERS

LAKSHMI TEXTILE SUPPLIERS.—5/4, Headquarters Road, Coimbatore; Enquiries solicited for Coimbatore make Centrifugal Pumps, Switch-gears and Motors.

ELECTRICAL GOODS & APPLIANCES (IMPORTERS & STOCKISTS)

Associated Electrical Industries (India) Ltd.—Race Course Road, Coimbatore.
Batliboi & Company.—Avanashi Road, Coimbatore.
British Insulated Callender's Cables Ltd.—Race Course Road, Coimbatore.
Broadway Engineering & Transport Co.—Old Post Office Road, Coimbatore.
Coimbatore Electric & Novelty Stores.—Oppanakara Street, Coimbatore.
Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
Eastern Electrical Co. Ltd.—Police H.Q. Office Road, Coimbatore.
Electrical & General Supply Ltd.—Avanashi Road, Coimbatore.
General Electric Co. of India Ltd.—Magnet House, Coimbatore.
Industrial Engineering Co.—Fraser Square, Coimbatore.
Modi & Modi.—Police H.Q. Road, Coimbatore.
Nagindas Kilabhai (S. India) Ltd.—Cox Street, Coimbatore.
Pioneer Electricals.—Raja Street, Coimbatore.
Prabha Electricals.—Oppanakara Street, Coimbatore.

RADHAKRISHNA & CO.—7/127, Avanashi Road, Coimbatore; Electrical Dealers.

Ramakrishna & Co.—Avanashi Road, Coimbatore.
Ramu N. & Bros.—Avanashi Road, Coimbatore.
United Electric Corporation.—17/5, Nawab Hakim Road, Coimbatore.

ELECTRIC MOTORS & PUMP MFRS.

Argus Engineering Co., Ltd.—Peelamedu, Coimbatore 4.

BALASUBRAMANIA FOUNDRY.—Manufacturers of 'BMF' Pumps & Motors; Patel Road, Coimbatore; Phone : 4313.

EASTERN ELECTRICAL CO., LTD.—Singanallur, Coimbatore 5.

LEADER INDUSTRIES.—8, Tatabad, Coimbatore 12 ; Manufacturers of Single-Phase Fractional Horse Power Motors and grinders.

P. S. G. INDUSTRIAL INSTITUTE.—Peelamedu P.O., Coimbatore 4; Manufacturers of 1,000 m.m. Lathe, 1,500 m.m. Lathe and 2,000 m.m. Lathes, Pedestal Tool grinders, Bench grinders, Polishing Lathes, Shaping Machines and Baling Presses, etc., Phones : 4158 & 4159; Grams : "CHARITY."

RAMAKRISHNA INDUSTRIAL LTD.—Peelamedu, Coimbatore 4.

T. R. Industrials.—Coimbatore 8.

VIJAYA FOUNDRY.—Pappanaickenpalayam, Coimbatore.

ENGINEERING WORKS

Arrow Industrial Works.—Krishnasami Mudaliar Road, Coimbatore.
Dhanalakshmi Foundry.—Mettupalayam Road, Coimbatore.
Everest Engineering Works.—Crosscut Road, Coimbatore.
Farm Industries.—Perianaickenpalayam, Coimbatore.
Kasturi Engineers Ltd.—P.O. Box 231, Coimbatore.
Nirmala Engineering Works.—Krishnaswamy Mudaliar Road, Coimbatore.
P.N.R. Engineering Works.—Big Bazar Street, Coimbatore.
Simon Electrical Works.—Fraser Square, Coimbatore.
Sivananda Metal Works.—Mill Road, Coimbatore.
Sreevatsa Engineering & Trading Co.—Sirdar Patel Road, Coimbatore.
Star Electric Plating Works.—Variety Hall Road, Coimbatore.
Vasa Engineering Industries.—Krishnaswami Mudaliar Road, Coimbatore.
Wilson Electric Works.—Palmgrove Road, Coimbatore.

FERTILISERS

Coimbatore Chemicals & Fertilisers Ltd.—Vysil Street, Coimbatore.
Deccan Fertiliser Co. (Coimbatore) Ltd.—Oppanakara Street, Coimbatore.

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Mettur Fertiliser Co. Ltd.—R. S. Puram, Coimbatore.
Parry & Co., Ltd.—Fraser Square, Coimbatore.
Radhakrishnan, C.N.—Vysial Street, Coimbatore.
Scientific Fertiliser Co. Ltd.—R. S. Puram, Coimbatore.
Stanes & Co., T.—Tudialur, Coimbatore.

FILM DISTRIBUTORS & PRODUCERS

Ananda Films.—State Bank Road, Coimbatore.
Coimbatore Pictures Ltd.—Jail Road, Coimbatore.
Devi Films.—Oppanakara Street, Coimbatore.
Forward Art Films.—Coimbatore.
Jewel Picture Circuit.—Big Bazar Street, Coimbatore
Kamadhenu Films.—Variety Hall Road, Coimbatore.
Kandan & Co.—Edayar Street, Coimbatore.
Karur Jai Hind Pictures.—Gopalapuram, Coimbatore.
Lakshmi Pictures.—Edayar Street, Coimbatore.
Majeed Pictures.—Oppanakara Street, Coimbatore.
Narayanan & Co. Ltd.—Trichy Road, Coimbatore.
Rani Pictures.—Tatabad, Coimbatore.

FURNITURE MANUFACTURERS & DEALERS

Amir Furniture Hall.—Palm-grove Road, Coimbatore.
Appa Furniture Hall.—Variety Hall Road, Coimbatore.
Devassy & Sons, M.P.—Variety Hall Road, Coimbatore.
General Suppliers & Agencies.—Variety Hall Road, Coimbatore.
Joseph Furniture Hall.—Variety Hall Road, Coimbatore.
Jupiter Furniture Works.—Power House Road, Coimbatore.
P.V.S. Furniture Hall.—Avanashi Road, Coimbatore.
Paul & Co.—Variety Hall Road, Coimbatore.
Sebastian & Bros., M.P.—Variety Hall Road, Coimbatore.
St. Joseph's Industrial School & Press.—Big Bazar Street, Coimbatore.
St. Mary's Sofa Works.—Trichy Road, Coimbatore.
Sunrise Furniture Service.—Power House Road, Coimbatore.

GLASS MERCHANTS

Amir Sahib.—Nawab Hakeem Road, Coimbatore.
Art Cottage.—Nawab Hakeem Road, Coimbatore.
Balagee Frame Works.—Variety Hall Road, Coimbatore.
Chikkiah Gowder Sons, M.—Big Bazar Street, Coimbatore.
Murugiah Gowder Sons, S.—Big Bazar Street, Coimbatore.
Palaniswamy, M.S.—Raja Street, Coimbatore.
Raju Naidu Sons, N.—Oppanakara Street, Coimbatore.
Selvam Picture Framing Works.—Crosscut Road, Coimbatore.
Sri Ramkrishna Mart.—Raja Street, Coimbatore.

HARDWARE & PAINT MERCHANTS

ABDULLA & SONS.—Nawab Hakim Road, Coimbatore.
Arul Krishna & Co.—Nawab Hakim Road, Coimbatore.
B. K. Renganatha Naidu & Co.—Mill Road, Coimbatore.
Coimbatore Machinery & Metal Mart.—Fraser Square, Coimbatore.
C. R. S. Mannadiar & Bro.—Nawab Hakim Road, Coimbatore.
D. Kulandaisamy.—Mill Road, Coimbatore.
E. Purushotham.—Mill Road, Coimbatore.
Feroke Timber & Tile Co.—M-8, Palayam Road, Coimbatore.
General Industrial Corporation.—Jail Road, Coimbatore.
Hindustan Corporation.—Jail Road, Coimbatore.
Hindustan Trading Co.—Jail Road, Coimbatore.
India Company Pvt. Ltd.—Union High School Road, Coimbatore.
Industrial Engineering Stores.—Cox Street, Coimbatore.
Inland Commercial Corporation.—Jail Road, Coimbatore.
Janarthana Hardwares.—Mill Road, Coimbatore.

K. ABRAM SAIBO & CO.—15/122, Nawab Hakim Road, Coimbatore.
K. Rengasami Naidu & Co.—Gandhipuram, Coimbatore.
Krishna & Co.—Mill Road, Coimbatore.
K. Santhubava Rowther Son & Co.—Vysial Street, Coimbatore.
K. S. Raju Chettiar & Sons.—Rengai Gowder Street, Coimbatore.
M. Devasagayam Pillai & Sons.—N. H. Road, Coimbatore.
M. S. Manickam & Co.—Mill Road, Coimbatore.
Murugan Hardware Stores.—Jail Road, Coimbatore.
M. Nanubhoy & Co.—Fraser Square, Coimbatore.
P. K. Gopalakrishnan.—Union High School Road, Coimbatore.
P. Venkatachalam.—Rengai Gowder Street, Coimbatore.
P. V. Ukkuru.—Nawab Hakim Road, Coimbatore.
Pioneer Corporation.—Trichy Road, Coimbatore.
Radha & Chalam.—Rengai Gowder Street, Coimbatore.
Rainbow Trading Co.—70 Ft. Road, R. S. Puram, Coimbatore.
Rajendra & Co.—Mettupalayam Road, Coimbatore.
Rama & Co.—Mettupalayam Road, Coimbatore.
Rama & Co.—Singanallur, Coimbatore.
Sarada Corporation.—Nawab Hakim Road, Coimbatore.

SOUTH INDIA CORPORATION (AGENCIES) PRIVATE LTD.—4/2, Race Course Road, Coimbatore 1.
South India Corporation(Private)Ltd.—10/25, Jail Road, Coimbatore.
Sri Krishna Corporation.—Mill Road, Coimbatore.
Swami & Co.—Mettupalayam Road, Coimbatore.
Titan Paint & Varnish Co., Ltd.—Podanur, Coimbatore.
T. N. Amir.—Mill Road, Coimbatore.
T S. Dasappa Chettiar & Co.—Jail Road, Coimbatore.
V. A. Palanisamy Nadar & Co.—Mill Road, Coimbatore.
V. A. M. Vellaiyappa Nadar & Co.—Vysial Street, Coimbatore.
V. A. R. Rathinam & Bros.—Vysial Street, Coimbatore.
V. Janardhannan.—Rengai Gowder Street, Coimbatore.
V. Raju Naidu & Co.—Mill Road, Coimbatore.

HOSIERY MFRS. & DEALERS

Abdul A. M. Malik.—Nawab Hakeem Road, Coimbatore.
Bharath Hosiery & Weaving Mills 1.—6, Dispensary Road, Peelamedu Post, Coimbatore.
Bharath Knitting Works.—Fort, Coimbatore.
J. Savarimuthu.—Bellam Krishna Chetty Street, Coimbatore.
Mars Hosiery Mills.—Rangai Gowder Street, Coimbatore.
R.B.W. Parrot Fabrics.—Raja Street, Coimbatore.

HOTELS & RESTAURANTS

C. S. Hotel.—Old Post Office Road, Coimbatore.
C. S. Lodge.—Off Arts College Road, Coimbatore.
Hotel Dave.—Imperial Bank Road, Coimbatore.
Hotel Majestic.—Arts College Road, Coimbatore.
J. M. English Hotel.—Avanashi Road, Coimbatore.
Lucky Cafe Boarding & Lodging.—Avanashi Road, Coimbatore.
Seetharam Villas.—Rangai Gowder Street, Coimbatore.
Sree Seetharam Boarding & Lodging House.—Imperial Bank Road, Coimbatore.
Sree Sumuka Vilas.—Big Bazar Street, Coimbatore.
Sree Venkatesha Lodge.—Imperial Bank Road, Coimbatore.
Woodland Hotel.—Arts College Road, Coimbatore.

INDUSTRIAL OILS

Alweyn's Motor Works.—Trichy Road, Coimbatore.
A.N.M. & A. K. Chettiar.—Big Bazar Street, Coimbatore.
Burmah-Shell Oil Depot.—Big Bazar Street, Coimbatore.
Caltex (India) Ltd.—Big Bazar Street, Coimbatore.
Coimbatore Premier Corporation.—Avanashi Road, Coimbatore.
Dhanalakshmi & Co.—Trichy Road, Coimbatore.
Industrial Oils Corporation.—Rajaji Road, Ramnagar, Coimbatore.
Krishnaswamy Naidu & Bros., L.P.—Fraser Square, Coimbatore.
Lakshminarayanaswamy, G.V.—Avanashi Road, Coimbatore.
Sundaram & Co., J.B.—Jail Road, Coimbatore.
Viljaya Motors.—Mettupalayam Road, Coimbatore.

INK MANUFACTURERS

Alayam's Industries.—R.S. Puram, Coimbatore.
Chetty, (S.P.).—Variety Hall Road, Coimbatore.
Tarzo Products.—Variety Hall Road, Coimbatore.
Vasanta Printing Ink Factory.—Trichy Road, Coimbatore.

JARI SILK & GOLD THREAD DEALERS

Nagiah Chetty & Co., A.P.—Oppanakara Street, Coimbatore.
Sha Anraj Kishorelal.—Sukrawarpet, Coimbatore.
Sha Fatesh & Mehrai.—Oppanakara Street, Coimbatore.
Sha Fulchand Parakh.—Rangai Gowder Street, Coimbatore.
Sha Harichand Pokaraj.—Oppanakara Street, Coimbatore.
Sha Motilal Madanlal.—Oppanakara Street, Coimbatore.

JEWELLERS, GOLD & SILVERSMITHS

Angappa Achari, C.V.—Rangai Gowder Street, Coimbatore.
Ayyava Gowder Son, E.—Big Bazar Street, Coimbatore.
Balkrishna Chettiar, E.R.—Big Bazar Street, Coimbatore.
Chandra Jewellery.—Big Bazar Street, Coimbatore.
Chellam & Co.—Big Bazar Street, Coimbatore.
Dandapani Jewellery Mart.—Big Bazar Street, Coimbatore.

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E. G. M. & Sons.—Big Bazar Street, Coimbatore.
Kirtilal Kalidas & Co.—Raja Street, Coimbatore.
Kodandarama Chettiar, S.—Big Bazar Street, Coimbatore.
K. R. & Sons.—Big Bazar Street, Coimbatore.
Krishna & Co., P.A.R.—Big Bazar Street, Coimbatore.
Krishna Chetty & Brother, A.B.—Big Bazar Street, Coimbatore.
Mangalore Jewellery Mart.—Raja Street, Coimbatore.
Muthusamy Chettiar, T.K.—Big Bazar Street, Coimbatore.
Narayana Achary Bros., K.P.—Big Bazar Street, Coimbatore.
New Mangalore Jewellery Works.—Raja Street, Coimbatore.
P. A. Raju Chettiar & Bros.—P. Box 139, Coimbatore 1.
Pasupathy & Co.—Big Bazar Street, Coimbatore.
Radhakrishna Jewellery.—Big Bazar Street, Coimbatore.
Raghunath & Co., P.A.R.—Big Bazar Street, Coimbatore.
Ramaswamy Chettiar, S.P.—Big Bazar Street, Coimbatore.
Ramu & Co.—Big Bazar Street, Coimbatore.
Ranganathan & Co., T.R.—Big Bazar Street, Coimbatore.
Shanmuga Jewellery.—Big Bazar Street, Coimbatore.
Sri Saradha Jewellery Co.—Coimbatore.
Sri Vasavi & Co.—Big Bazar Street, Coimbatore.
Subbara Acharya Sons, T.—Big Bazar Street, Coimbatore.
Surya Jewellery.—Big Bazar Street, Coimbatore.
Thirumalaisani Achari & Bros., K.N.—Big Bazar Street, Coimbatore.
Viswanath & Co., P.A.R.—Big Bazar Street, Coimbatore.
Viswanathan, S.—Big Bazar Street, Coimbatore.

LEATHER GOODS MFRS. & DEALERS

A. Abdul Azeez.—Nawab Hakeem Road, Coimbatore.
A. M. Kamal Batcha.—Nawab Hakeem Road, Coimbatore.
Carnatic Leather Industries.—Big Bazar Street, Coimbatore.
Crown Leather Works.—Nawab Hakeem Road, Coimbatore.
Hindusthan Leather Mart.—Big Bazar Street, Coimbatore.
H.M.F.A. Batcha.—Nawab Hakeem Road, Coimbatore.
N. Mohamed Abdul Kader & Son.—Big Bazar Street, Coimbatore.
R. Venkatesalu Naidu & Bros.—Nawab Hakeem Road, Coimbatore.
S. K. Kanniah Naidu.—Nawab Hakeem Road, Coimbatore.
S. K. Rangasamy Naidu.—Nawab Hakeem Road, Coimbatore.
Taj Leather Store.—Nawab Hakeem Road, Coimbatore.
V. Avanasilingam.—Nawab Hakeem Road, Coimbatore.

LORRY TRANSPORT AGENTS & CONTRACTORS

A. K. K. Rajasekaran.—Perumol Koil Street, Coimbatore.
A. K. Wahab.—Ukkadam, Coimbatore.
Coimbatore Motor Transport Co-operative Society for Ex-Servicemen.—Avanashi Road, Coimbatore.
C. M. Muthukrishna Naidu & Sons.—Trichy Road, Coimbatore.
C. S. Mohideen.—South Ukkadam, Coimbatore.
Haridass Bhagath & Co.—Crosscut Road, Coimbatore.
Mani's Transport.—South Ukkadam, Coimbatore.
National Transport & Co.—Vysial Street, Coimbatore.

MACHINERY IMPORTERS & MFRS.

Argus Engineering Co. Ltd.—Avanashi Road, Coimbatore.
Associated Electrical Industries Ltd.—Race Course Road, Coimbatore.
Batliboi & Co.—Avanashi Road, Coimbatore.
Brady & Co. Ltd. (W.H.).—Jail Road, Coimbatore.
British Insulated Callender's Cables Ltd.—Race Course Road, Coimbatore.
Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
Galiakotwala & Co. Ltd.—Grey Town, Coimbatore
Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
Garlick & Co.—Cox Street, Coimbatore.
General Electric Co. of India Ltd.—Magnet House, Avanashi Road, Coimbatore.
Gordon Woodroffe & Co. (Madras) Ltd.—Fraser Square, Coimbatore.
Jayems Engineering Co.—Oppanakara Street, Coimbatore.
Parry & Co. Ltd.—Fraser Square, Coimbatore.
P. S. G. INDUSTRIAL INSTITUTE.—Peelamedu P.O., Coimbatore 4; Manufacturers of Electric Motors from 1/6 h.p. to 30 h.p. Electrical Laboratory Equipments, Single phase and three phase Sirens. Phones: 4158 & 4159; Grams: "CHARITY."
Textooi Co. Ltd.—Ganapathy, Coimbatore.

MILL & GIN STORES SUPPLIERS

Acme Textile Distributors.—4/20, Trichy Road, Coimbatore.
Allied Industrial Engineering Corpn.—58, V. C. V. Layout, R. S. Puram, Coimbatore 2.
Altex Limited.—Avanashi Road, Coimbatore.
A. P. Muthukrishnan.—1/65-A, New Siddapudur, Pappanaickenpalayam, Coimbatore 1.
B. Mehta & Co.—9/44, Macgreggor Street, Coimbatore 2.
Bipin Industries.—Crosscut Road, Coimbatore.
Brady & Co. Ltd., W.H.—Jail Road, Coimbatore.
Coimbatore Mill Stores & General Supplies Co.—Avanashi Road, Coimbatore.
Coimbatore Premier Corp. Ltd.—Avanashi Road, Coimbatore.
COIMBATORE TEXTILE CORPORATION.—5/4, Headquarters Road, Coimbatore; Offers invited from up-country Manufacturers of Mills Stores for representation.
Gangoli & Co.—11/46, Venkataswami Road, Coimbatore 2.
Indian Overseas Trading Co., Private Ltd.—Power House Road, Coimbatore.
Industrial Engineering Stores.—Avanashi Road, Coimbatore.
International Industries & Agencies Ltd.—Avanashi Road, Coimbatore.
J. B. Sundaram & Co.—Jail Road, Coimbatore.
Keserishi Vallabhdas.—R. S. Puram, Coimbatore.
Lakshmi Textile Suppliers.—Old Post Office Road, Coimbatore.
L. P. Krishna Naidu & Bros.—Fraser Square, Coimbatore.
Mahadeo Trading Corpn.—8/4, Mall Mill Road, Coimbatore.
Mangaldas & Co.—Mill Road, Coimbatore.
MEHTA MILL SUPPLY CO.—9, Narayandas Layout, Cross Cut Road, Coimbatore 12; Grams: "ORIGINAL"; Direct Importers & Stockists of English Leather Beltings, Picking Bands, Fibre Card Cans, all kinds of Woollen Machinery, Cloths and other Mill Store Furnishers.
MORARJI RAMJI & CO.—8/8, Cox Street, Coimbatore.
Nagindas Kilabhai (S.I.) Ltd.—'The Vintage', Cox Street, Coimbatore.
Nalin Textile Traders.—10/10, Mall Mill Road, Coimbatore.
Nanjandan & Co.—Raja Street, Coimbatore.
P. N. Rangasamy Naidu.—Avanashi Road, Coimbatore.
POPULAR MILL STORES CO.—8/4, Mall Mill Road, Coimbatore 1; Phone: 2589; Grams: "POPULAR"; Stockists and Suppliers of Complete Mill Stores.
Radhakrishna Textile Traders, 124, Subbiah Mudaly St., Coimbatore.
SHUNMUGAM & CO.—5/106, Jail Road, Coimbatore.
Sizing Materials Ltd.—Trichy Road, Coimbatore.
Standard Commercial Corp.—Avanashi Road, Coimbatore.
Textiles Supplies Syndicate (India) Ltd.—Crosscut Road, Coimbatore.
Textool Co. Ltd.—Ganapathy, Coimbatore.

OIL ENGINES & SPARE PARTS

Batliboi & Co.—Avanashi Road, Coimbatore.
Brady, W. H., & Co. Ltd.—Jail Road, Coimbatore.
Dhandayuthapani Foundry Ltd.—Pappanaickenpalayam, Coimbatore.
Hardware & Machinery Marketing (India) Co.—5/4, Headquarters Office Road, Coimbatore.
Parry & Co. Ltd.—Fraser Square, Coimbatore.
Rallis India Ltd.—Avanashi Road, Coimbatore.
Textool Company Ltd.—Ganapathi, Coimbatore.
Vijaya Foundry.—Pappanaickenpalayam, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

OPTICIANS

Banglore Optical Co.—Oppanakara Street, Coimbatore.
Imperial Optical Co.—Big Bazar Street, Coimbatore.
Indo-American Opticals.—Big Bazar Street, Coimbatore.
Madras Opticals.—Big Bazar Street, Coimbatore.
New Bombay Opticals.—Big Bazar Street, Coimbatore.
Pearl Optical Co.—Big Bazar Street, Coimbatore.
Posai Rangoon Opticals.—Variety Hall Road, Coimbatore.
Star Opticals.—Big Bazar Street, Coimbatore.
Taj Optical Co.—Big Bazar Street, Coimbatore.
Tharyan & Co.—State Bank Road, Coimbatore.
V. Ketticaran & Co.—Big Bazar Street, Coimbatore.

PAPER & BOARD MERCHANTS

A. P. Muthukrishnan.—1/65-A, New Siddapudur, Pappanaickenpalayan, Coimbatore 1.
Arumugham, A. M.—Oppanakkara Street, Coimbatore.
Asoka Book Binding Works.—Raja Street, Coimbatore.
Bettai Gowder, K.O.—Raja Street, Coimbatore.
Book Trading Co.—Raja Street, Coimbatore.
Coimbatore Paper Mart.—Raja Street, Coimbatore.
General Papers Ltd.—Thomas Street, Coimbatore.

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Hariharan & Co.—Raja Street, Coimbatore.
Karuppanna Gowder S.—Raja Street, Coimbatore.
Lakshmi Paper Stores.—Raja Street, Coimbatore.
Nanjappa A., & Co.—Raja Street, Coimbatore.
Natarajan & Co.—C. R., Big Bazaar Street, Coimbatore.
Palaniappa & Co.—Raja Street, Coimbatore.
Pandian Paper Mart.—Oppanakkara Street, Coimbatore.
Parameswari Paper Stores.—Raja Street, Coimbatore.
Poulose, K. V. & Son.—Raja Street, Coimbatore.

RAMALINGAM & CO.—22/55, Raja Street, Coimbatore.

Sai Traders.—Raja Street, Coimbatore.
Samundeespari Binding Works.—Raja Street, Coimbatore.
Subbu Chetty, P.—Raja Street, Coimbatore.
Viswanatha Trading Co.—Sullivan Street, Coimbatore.

PHOTOGRAPHIC MATERIALS, IMPORTERS & DEALERS

Art Studio.—Variety Hall Road, Coimbatore.
City Photo Works.—Variety Hall Road, Coimbatore.
Dasen Studio.—Oppanakara Street, Coimbatore.
Eason Studio.—Trichy Road, Coimbatore.
Harith Photographers.—Variety Hall Road, Coimbatore.
India Arts Bureau.—Avanashi Road, Coimbatore.
Kannan Studio.—Variety Hall Road, Coimbatore.
Prince Studio.—Avanashi Road, Coimbatore.
Raja Studio.—Edayar Street, Coimbatore.

PRINTING MACHINERY

RAMAKRISHNA INDUSTRIALS PRIVATE LTD.—Peelamedu, Coimbatore. 4.

PRINTING PRESSES

Amboji & Co.—Edayar Street, Coimbatore.
Ananda Press.—Edayar Street, Coimbatore.
Arumugham Press.—Edayar Street, Coimbatore.
Badrakali Press.—Subbiahmudaliar Street, Coimbatore.
Bagyam Press.—100, Feet Road, Tatabad, Coimbatore.
Bharathi Press.—Raja Street, Coimbatore.
Coimbatore Printers.—Oppanakara Street, Coimbatore.
Co-operative Printing Press.—Trichi Road, Coimbatore.
Daily News Press.—Edayar Street, Coimbatore.
Dandapani Press.—Raja Street, Coimbatore.
Devi Press.—Sathy Road, Coimbatore.
Electrical Printing Press.—Variety Hall Road, Coimbatore.
Jaffar Printing Press.—Nawab Hakim Road, Coimbatore.
Jewel Press.—Oppanakara Street, Coimbatore.
Jupiter Press.—Raja Street, Coimbatore.
Kalai Achagam.—Marakkara Nanjappa Gounder Street, Coimbatore.
Kalaivani Press (Private) Ltd.—Post Box No. 542, Coimbatore.
Kalai Kadir Achagam.—Avanashi Road, Pappanaickenpalayam, Coimbatore.
Kammavar Achukkudam Ltd.—Big Bazaar Street, Coimbatore.
K. R. V. & Co.—Printers, Raja Street, Coimbatore.
Kaithari Press.—Oppanakara Street, Coimbatore.
Karthikeyan Press.—Oppanakara Street, Coimbatore.
Kasthuri Printing Press.—Jail Road, Coimbatore.
Lakshmi Vilas Press.—Edayar Street, Coimbatore.
L. S. Press.—K. K. Block, Rangai Gowder Street, Coimbatore.
Manickam Press.—Nawab Hakim Road, Coimbatore.
Mani Achagam.—Gandhipuram, Coimbatore.
Merchant Press.—Raja Street, Coimbatore.
Modern Press.—Trichi Road, Coimbatore.
Mohan Press.—Raja Street, Coimbatore.
Nagu Achagam.—Subbiah Mudaliar Street, Coimbatore.
Nanjappa Press.—Raja Street, Coimbatore.
Nirmala Printers.—Subbiah Mudaliar Street, Coimbatore.
Pankajam & Co.—Edayar Street, Coimbatore.
Pioneer Press.—Big Bazaar Street, Coimbatore.
Premier Printers.—Raja Street, Coimbatore.
Pudumalar Press.—Trichi Road, Coimbatore.
Rainbow Printers.—Rangai Gowder Street, Coimbatore.
Ramakrishna Industries Press.—C/o Nava India, Peelamedu, Coimbatore.
Ramakrishna Press.—Jewellers Market, Big Bazar Street, Coimbatore.
Ramnarayana Press.—Mill Road, Coimbatore.
Rathna Printers.—Sukrawarpet, Coimbatore.
Sabapathi Press.—Sukrawarpet, Coimbatore.
Saraswathi Printers.—Raja Street, Coimbatore.
Senthamizh Achagam.—Ramanathapuram, Coimbatore.
Shanmuganandam Press.—Raja Street, Coimbatore.
Somasundaram Press.—Somasundaram Mills Compound, Coimbatore.
Star Power Press.—Subbiah Mudaliar Street, Coimbatore.
St. Joseph's Industrial Press.—Big Bazaar Street, Coimbatore.
Subhashini Achukudam.—Oppanakara Street, Coimbatore.
S. V. Press.—Variety Hall Road, Coimbatore.
Swan & Co.—Printers, Oppanakara Street, Coimbatore.
Thiyagi Press.—Kattoor, Coimbatore.
Velala Press Ltd.—Oppanakara Street, Coimbatore.
Victoria Press.—Big Bazaar, Coimbatore.
Vijaya Press.—Sukrawarpet, Coimbatore.
Workmen Press.—Avanashi Road, Pappanaickenpalayam, Coimbatore.

PUMP MANUFACTURERS

BALASUBRAMANIA FOUNDRY.—Manufacturers of 'BMF' Pumps and Motors, Patel Road, Coimbatore; Phone: 4313.

Dhandayudapani Foundry P. Ltd.—Pappanaickenpalayam, Coimbatore.
Farm Equipments P. Ltd.—Ganapathy P.O., Coimbatore 6.
Ganapathy Engg. Mfrs. P. Ltd.—Ganapathy, Coimbatore 6.

GENERAL ENGINEERING CO.—Patel Road, Coimbatore. Manufacturers of 'Geeco' Motors & Pump Sets.

Kasthury Engineering Works.—Pappanaickenpalayam, Coimbatore 1.
Karthikeya Foundry.—Pulliakulam Road, Pappanaickenpalayam, Coimbatore 1.
Lakshmi Foundry.—Patel Road, Coimbatore.
Murugan Foundry.—Jail Road, Gandhipuram, Coimbatore.
P. S. G. & Sons' Charity Industrial Institute.—Peelamedu, Coimbatore.
Radha Foundry.—Trichy Road, Coimbatore.

RAMAKRISHNA INDUSTRIALS PRIVATE LTD.—Peelamedu, Coimbatore 4.

Ramu Foundry.—Pappanaickenpalayam, Coimbatore.
Subbiah Foundry.—Pappanaickenpalayam, Coimbatore.
Vijaya Foundry.—Pappanaickenpalayam, Coimbatore 1.

RADIOS & RADIO PARTS IMPORTERS, DEALERS & REPAIRERS

Associated Electrical Industries (India) Ltd.—Race Course Road, Coimbatore.
Central Radio Service.—Avanashi Road, Coimbatore.
General Electric Co. of India Ltd.—Magnet House, Avanashi Road, Coimbatore.
Modern Agencies.—Avanashi Road, Coimbatore.
Myco Corporation.—Avanashi Road, Coimbatore.
Radio House.—Avanashi Road, Coimbatore.
Rythm House.—Nawab Hakeem Road, Coimbatore.
Shetty & Company.—Jail Road, Coimbatore.

UNITED ENGINEERING CO.—Radio & Sound Engineers, Avanashi Road, Coimbatore 1; Phone: 2879; Distributors for U.M.S. Radios & Radiograms in Coimbatore, Nilgiris, Salem & Tiruchy Districts.

V. Krishnaswamy & Co.—Avanashi Road, Coimbatore.
V. S. Rajagopalan & Co.—Avanashi Road, Coimbatore.

SOAP MANUFACTURERS

Arian Soap Mfg. Co.—Arian Soap Colony, Trichy Road, Coimbatore.
Cauvery Soap Co.—Oppanakara Street, Coimbatore 1.
Helen Soap Co.—Rangai Gowder Street, Coimbatore 1.
Parco Soaps & Chemicals.—P.B. No. 158, Coimbatore.
Pushpakamala Soap Works.—P.B. No. 158, Coimbatore.
Santhi Soap Works.—Shukrawarpet, Coimbatore.

SUGARCANE CRUSHERS

ELSEETEE INDUSTRIES.—P.O. Box 28, Singanallur, Coimbatore 5.

TANNERS & TANNERIES

A. B. Sheikh Dawood Sahib Tannery, Erode, Coimbatore.
A. O. Kader Hussain Sahib Tannery, Erode, Coimbatore.
Chromotan & Co., Podanur, Coimbatore.
Cromotion (Coimbatore) Ltd., 2,249, Avanashi Road, Pappanaickenpalayam, Coimbatore.
E. K. Abdul Jaleal & Ahmed Bateha Tannery, Perla Agraharam, Coimbatore.
E. K. Hajee Mohamad Meera Sahib Tannery, Erode, Coimbatore.
E. K. Mohammad Abdul Kadir Tannery, Perla Agraharam, Coimbatore.

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E. K. Mohammad Ibrahim Sahib & Sons Tannery, Erode, Coimbatore.
H. M. S. Abdul Rahiman & Sons Tannery, Podanur, Coimbatore.
M. Pachamuthu & Sons Tannery, Kuniyamuthur, Podanur, Coimbatore.
M. S. A. Mohammad Habibulla Sahib & Sons Tannery, Erode, Coimbatore.
R. Varadarejalu Naidu & Co., Tannery, Kuniyamuthur, Coimbatore.
S. F. G. M. Ismail Sahib Tannery, Ramanathapuram, Pudur, Coimbatore.
S. K. Mohammad Ibrahim Tannery, Peria Agraharam, Coimbatore.
Skin & Leather Co. Ltd., 9/58, Lokmanya Street, R. S. Puram P.O., Coimbatore.
Skins & Leathers Ltd., Kuniamuthur, Coimbatore.
T. Hassan Khader & Sons Tannery, Kuniyamuthur, Coimbatore.
T. M. Abdul Wahab Rowther, Kuniyamuthur, Podanur, Coimbatore.
V. B. Tannery, Podanur, Coimbatore.
V. Baluswamy Naidu Tannery, Podanur, Coimbatore.
V. G. Brother Tannery, Podanur, Coimbatore.
V. Govindaswamy Naidu Tannery, Kurichi, Podanur, Coimbatore
V. Guruviah Naidu & Bros., Tannery, Podanur, Coimbatore.
Varadarjalu Naidu & Co., Tannery, Kurichi, Podanur, Coimbatore.

TEXTILE ENGINEERS & MACHINERY IMPORTERS, DEALERS & MFRS.

Altex Limited.—Avanashi Road, Coimbatore.
Argus Engineering Co. Ltd.—Avanashi Road, Coimbatore.
BATLIBOI & CO.—Avanashi Road, Coimbatore.
Bharat Trading Company.—Avanashi Road, Coimbatore.
Brady & Co. Ltd., W. H.—Jail Road, Coimbatore.
C. A. GALIAKOTWALA & CO., PRIVATE LTD.—7/47, Grey Town, Coimbatore.
Coimbatore Premier Corp. Ltd.—Avanashi Road, Coimbatore.
Crompton Engineering Co. (Madras) Ltd.—Arts College Road, Coimbatore.
EASTERN ELECTRICAL CO. LTD.—Singanallur, Coimbatore 5.
Gannon Dunkerley & Co. Ltd.—Crosscut Road, Coimbatore.
Garlick & Co.—Cox Street, Coimbatore.
Gordon Woodroffe & Co. (Madras) Ltd.—Fraser Square, Coimbatore.
Hardware & Machinery Marketing (India) Co.—Police H. Q. Road, Coimbatore.
International Industries & Agencies Ltd.—Avanashi Road, Coimbatore.
Jayems Engineering Co.—Oppanakara Street, Coimbatore.
The Kasturi Engineers Ltd.—P.O. Box 231, Coimbatore.
Kasturi Industries Ltd.—Avanashi Road, Coimbatore.
L. P. Krishnasamy Naidu & Bros.—Fraser Square, Coimbatore.
Mani & Co.—Old Post Office Road, Coimbatore.
Modern Sales Corporation.—Avanashi Road, Coimbatore.
Morarji Ramji & Co.—8/8, Cox Street, Coimbatore.
Nagindas Kilabhai (South India) Ltd.—Cox Street, Coimbatore.
Parry & Co. Ltd.—Fraser Square, Coimbatore.
Pera Naidu & Sons, A.—Avanashi Road, Coimbatore.
Pierce Leslie & Co. Ltd.—Race Course Road, Coimbatore.
P.S.G. Industrial Institute.—Peelamedu P.O., Coimbatore.
Radakrishna & Co.—Avanashi Road, Coimbatore.
Ramakrishna Industrials Ltd.—Peelamedu, Coimbatore.
Ramu Brothers.—Avanashi Road, Coimbatore.
Textile Supplies Syndicate (India) Ltd.—Crosscut Road, Coimbatore.
Textool Co. Ltd.—Ganapathy, Coimbatore.
Universal Sales Corp.—Avanashi Road, Coimbatore.
Voltas Ltd.—Race Course Road, Coimbatore.

TYPEWRITERS

Kayeses Ltd.—Fraser Square, Coimbatore.
Natarajan, V. R.—Jail Road, Coimbatore.
Remington Rand Inc.—Big Bazar Street, Coimbatore.
Underwood Typewriter Agency.—R. S. Puram, Coimbatore.

TYRE RETREADING WORKS

Auto Retread Tyres.—Raja Street, Coimbatore.
Dhanalakshmi Vulcanising Works.—Podanur Road, Coimbatore.
Free India Tyre Works.—Mettupalayam Road, Coimbatore.
Good Shepherd Tyres.—Ukkadam, Coimbatore.
Nanco Rubber & Plastics Ltd.—A.T.T. Colony, Coimbatore.
National Tyre Works.—Mettupalayam Road, Coimbatore.
Rani & Co.—Oppanakara Street, Coimbatore.
Special Guaranteed Tyre Co.—Ukkadam, Coimbatore.
Stanes Motors (South India) Ltd.—Trichy Road, Coimbatore.
St. Antony Tyre Works.—Raja Street, Coimbatore.
United Vulcanising Works.—Mettupalayam Road, Coimbatore.

UTENSILS

Arunachalam Chettiar, A. P., & Sons.—Big Bazar Street, Coimbatore.
Nanjappa Chettiar, A.—Big Bazar Street, Coimbatore.
Ramlingam Chettiar, K.—Raja Street, Coimbatore.
Sundaram, C. S.—Big Bazar Street, Coimbatore.

WATCHES & CLOCKS (IMPORTERS, DEALERS & REPAIRERS)

Abdul Watch Co., P. K.—Big Bazar Street, Coimbatore.
Azim & Sons.—Oppanakara Street, Coimbatore.
Bentex-Time House.—Oppanakara Street, Coimbatore.
City Watch House.—Nawab Hakeem Road, Coimbatore.
Expert Watch House.—Raja Street, Coimbatore.
Gajendra Watch Repairing House.—Sukrawarpet, Coimbatore.
Globe Watch Co.—Oppanakara Street, Coimbatore.
Meeran & Co., P. K.—Big Bazar Street, Coimbatore.
Mohan Watch Works.—Nawab Hakeem Road, Coimbatore.
National Watch Co.—Big Bazar Street, Coimbatore.
New Watch & Radio Co.—Oppanakara Street, Coimbatore.
Rajan Watch Co.—Sukrawarpet, Coimbatore.
Record Watch Co.—Avanashi Road, Coimbatore.
Swiss Watch House.—Oppanakara Street, Coimbatore.

WELL BORING MACHINERY

Farm Equipment Ltd.—Ganapaty P.O., Coimbatore District.
Ganapathy Engineering Mfrs. Pvt. Ltd.—Ganapathi P.O., Coimbatore 6.

WEIGHING MACHINES

ELSEETEE INDUSTRIES.—P.O. Box 28, Singanallur, Coimbatore 5.

YARN MERCHANTS

Abdul Salem Bros.—Oppanakara Street, Coimbatore.
Asher & Co., N. V.—Dewanbahadur Road, Coimbatore.
Chettiar & Co.—Raja Street, Coimbatore.
COTTON TEXTILES LTD.—Mall Mill Road, Coimbatore.
Haji Jiva & Haji Khamisa & Co.—Oppanakara Street, Coimbatore.
Kalyani & Co.—Rangai Gowder Street, Coimbatore.
KOLLEGAL SENIVEERI CHETTY & SON.—22/70, Sukravarpet, Coimbatore.
Madras Trading Corporation.—Oppanakara Street, Coimbatore.
Rajalingam Chettiar & Co.—Oppanakara Street, Coimbatore.
Seshachalam Chettiar & Sons, V. G.—Oppanakara Street, Coimbatore.
Sivagnanam & Co., M.—Rangai Gowder Street, Coimbatore.
Sri Kamala & Co.—Rangai Gowder Street, Coimbatore.

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MAHARASHTRA

CAPITAL: Bombay.

Area: 1,18,884 sq. miles; Population: 39·50 millions (Provisional-1961 census).

The State is divided into 26 Districts. There are 232 Talukas and 219 municipalities.

The Districts with their capitals in brackets are:—

Dhulia (Dhulia), Nasik (Nasik), Thana (Thana), Greater Bombay, Kolaba (Alibag), Ratnagiri (Ratnagiri), Ahmednagar (Ahmednagar), Poona (Poona), Satara (Satara), Sangli (Sangli), Kolhapur (Kolhapur), Sholapur (Sholapur), Jalgaon (Jalgaon), Aurangabad (Aurangabad), Parbhani (Parbhani), Bhir (Bhir), Osmanabad (Osmanabad), Nanded (Nanded), Buldhana (Buldhana), Akola (Akola), Amravati (Amravati), Yeotmal (Yeotmal), Wardha (Wardha), Nagpur (Nagpur), Chanda (Chanda), Bhandara (Bhandara).

It may be added here that two Districts Thana and Dhulia have become smaller after bifurcation through the loss of villages (See under Gujarat).

These 26 Districts are grouped into four Divisions.

Bombay Division:—Greater Bombay, Thana, Nasik, Dhulia, Jalgaon, Kolaba, Ratnagiri.

Poona Division:—Ahmednagar, Poona, Satara, Sangli, Kolhapur, Sholapur.

Aurangabad Division:—Aurangabad, Parbhani, Bhir, Osmanabad, Nanded.

Nagpur Division:—Buldhana, Akola, Amravati, Yeotmal, Wardha, Nagpur, Chanda, Bhandara.

The State came into being on May 1, 1960 when the Bombay Reorganisation Act, 1959, came into force. This Act split the old Bombay State into two States, Maharashtra and Gujarat.

The strength of the Maharashtra Assembly is 264, of the Council 78. The State sends 18 members to the Rajya Sabha and 44 to the Lok Sabha.

It is the third biggest State in the Union both in respect of area and population.

The density of the population is highest in Greater Bombay 22,293 per sq. mile and lowest in Chanda 135 per sq. mile. The sex ratio is 935 females per 1,000 males. This ratio is highest in Ratnagiri District, 1,230 and lowest in Greater Bombay, 660.

There are six cities with a population of one lakh and above and 15 towns with a population of between 50,000 and one lakh.

The percentage of population dependent on agriculture is 63·97. The percentage of cultivating labourers and their dependents is 14·79. The percentage of owner-cultivators and their dependents is lower in the State than in the Union. Trial by jury has been abolished in the State.

GEOGRAPHY

The Sahyadris or the Western Ghats run quite close and almost parallel to the west coast, leaving a very narrow strip of land between the sea and the lofty mountain barrier, which at no place is more than 60 miles in breadth. This narrow strip of land known as Konkan, stretches from Daman to Vengurla to a distance of about 350 miles. Interspersed with hills, the land is very undulating and the soil far from fertile, only suitable for paddy cultivation in flat patches, which lie couched in small valleys and perched on hill slopes. The mountain sides are, however, covered by evergreen vegetation, which lends Konkan its spell-binding scenic beauty and also its horticultural wealth.

The North Konkan is a flat alluvial belt along the coast formed by the rivers Ulhas and Vaitarna in their lower courses. This belt is not more than ten miles wide, with a series of parallel ridges in the background. Along the coast is a string of small ports like Rewas, Harnai, Dabhol, Ratnagiri, Vijaydurg, Malvan and Vengurla served by the Konkan ferry service.

To the east of the Sahyadris stretches a vast plateau intercepted by rivers which rise in the Sahyadris and flow eastward. In the north is the Satpura range which runs almost in a straight line from east to west. The main Sahyadri range all along its length sends its arms across the tableland. To the north of Nasik is the Satmala range with its continuation in the Balaghat range, which goes right upto the eastern border of Vidarbha and Marathwada. The transverse ranges to the south of Nasik are much shorter and of little consequence.

The State is drained by a number of rivers—Tapi, Godavari, Bhima, Krishna, Wardha and Vainganga. The smaller rivers are the tributaries of one or the other of these rivers.

In between the Satpuras in the north and the Balaghat range in the south lies the great Tapi trough. The Tapi, rising in the Satpuras, flows westward, with the Purna flowing into it in its upper course. The Tapi valley, which comprises the western parts of Vidarbha and districts of Dhulia & Jalgaon, is one fertile belt of black soil, which grows cotton and is known as 'the black cotton soil'.

To the farther east is the Vainganga-Wardha valley. The two rivers, Wardha and Vainganga, flow south-east before they drain into the Godavari. The land abounds in lakes and tanks, many of which are man-made, which add to the natural beauty of the land. The green meadows dotted by the blood-red *palas* flowers lend a unique charm to the land on this eastern border of Maharashtra.

To the south of the Balaghats, right from Nasik to Nanded stretches the great valley of the Godavari, the cradle of Maharashtrian culture. The Godavari rises in the Brahmagiri mountain near Trimbakeshwar, which is one of the twelve 'Jyotirlingas'. From about fifteen miles from Trimbakeshwar is Nasik on the banks of the Godavari which is also a sacred place of the Hindus. Paithan in Marathwada was once the seat of learning and the centre of cultural movements. Still farther east is Nanded, the holy place of the Sikhs, with the famous Gurudwara shrine on the banks of the Godavari.

Whereas the Godavari valley linked by the valleys of Wardha and Vainganga which flow into it, is the nerve centre of Maharashtra, the Krishna valley is its southern periphery and historically its strong arm. It covers North Satara,* South Satara,† Sholapur and Kolhapur districts. The land in some parts of the Krishna valley is much less fertile and even barren, and is liable to acute scarcity conditions.

It is interesting to note that in Maharashtra the trades relating to distribution of commodities are run to a large extent by Gujaratis and Marwaris. Thus even in the remotest village, the cloth dealer is usually a Gujarati, while the grocer is generally a Marwari.

There are a number of Adibasi communities in Maharashtra, who live either in dense forests or on the mountain perches of the Sahyadris and the Satpuras. The main communities among these are the Agaris, the Warlis, the Katkaris and the Thakurs of Thana and Kolaba districts, the Bhils of Dhulia and the Korkus and the Gonds of Vidarbha.

BASIC FACTS AND FIGURES

Area: 1,18,884 sq. miles: **Population:** 39,504,294; density 332 per sq. mile; No. of towns 373; No. of villages 35,526; literacy 29·70 per cent; literacy among males 41·84 per cent; literacy among females 16·70 per cent; Total male population 20,419,059; total female population 19,081,235. Percentage increase of total population 1951-61; 23·44.

No. of towns and villages classified according to population (1951 census):—

No. with population less than 500: 20,028; no. with pop. between 500 and 1,000: 9,191; no. with pop. between 1,000 and 2,000: 4,667; no. with pop. between 2,000 and 5,000: 1,579; no. with pop. between 5,000 and 10,000: 288; no. with pop. between 10,000 and 20,000: 84; no. with pop. between 20,000 and 50,000: 41; no. with pop. between 50,000 and 1,00,000: 15; no. with pop. of 1,00,000 and above: 12 ‡.

Income during 1957-58 (in crores of Rs.): 1,219·2. (Agriculture, animal husbandry and ancillary activities 457·8 (37·5); Mining, manufacturing and small enterprises 295·5 (24·2); Commerce, transport and communications 264·0 (21·7); other services 201·9 (16·6); Per capita income: Rs. 342).

Note: The figures in brackets show percentage to the total.

Livelihood Classes:—Cultivators of land wholly or mainly owned and their dependents 1,26,65,747; cultivators of land wholly or mainly unowned and their dependents 24,28,813; cultivating labourers and their dependents 47,32,859; non-cultivating owners of land, agricultural rent receivers and their dependents 6,45,798.

No. of persons in production other than cultivation 41,92,762; commerce 22,38,279; transport 7,19,532; other services 43,79,296.

Economically Active (figures in '000):—Self-supporting persons 8,610; earning dependents 5,889; economically active 14,499; percentage of economically active persons to total population 45·1.

Land Utilization ('00 acres) as in 1957-58:—Total area 7,64,843; area under forests 1,33,776; net area sown 4,40,170; gross cropped area 4,59,513.

Barren and uncultivable land 46,132; land put to non-agricultural use 16,900; culturable waste 23,024; land under tree crops and groves 5,355; permanent pastures and grazing groves 37,285; current fallows 24,069; other fallow-land 35,247.

Forest figures for 1957-58: Total area ('00 acres) 1,57,151 (Reserved 1,02,626; Protected 42,845).

Area under major crops ('00 acres) as in 1958-59:—Rice 30,028; wheat 21,883; jowar 1,41,833; bajra 43,655; all cereals 2,48,898; all pulses 56,960; all food grains (cereals and pulses) 3,05,858; cotton 63,517; tobacco 685; groundnut 28,091; sugarcane 2,633.

The figures are in '00 acres, area under crops as in 1956-57:—

Ragi 5,847; maize 662; barley 121; tur 13,692; gram 11,857; potatoes 303; chillies 3,605; sesamum 3,146; castorseed 169; rape, mustard, linseed 6,849.

The area under certain groups of crops (figures in '00) as in 1956-57:—

Fruits and vegetables 3,138; condiments and spices 4,818; oil seeds 49,039; drugs and narcotics 881; fodder crops 21,102; total non-food crops 1,38,300.

AGRICULTURAL PRODUCTION (figures in '000 metric tons) as in 1959-60.

* Now known as Satara. † Now known as Sangli. ‡ 1961 census.

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Rice 12,30 ; Wheat 3,71 ; Jowar 28,22 ; Bajra 5,02; All cereals 51,91 ; All pulses 8,18 ; All foodgrains (cereals and pulses) 60,09 ; Cotton 7,29 ('000 bales of 178 k.grams) ; Tobacco 14·2 ; Groundnut 7,05 ; Surgarcane (gur) 8,62.

Agricultural Production (figures in '000 metric tons) as in 1960-61 : Rice (12,91) ; Wheat 3,50 ; Jowar 28,83 ; Bajra 5,04 ; All Cereals 53,29 ; All pulses 9,09 ; All food grains 62,30 ; Cotton ('000 bales) of 178 kilograms 12,07 ; Tobacco 13·4 ; Groundnut 7,80 ; Sugarcane (gur) 8,94.

Area Irrigated by Sources (figures in '00 acres) as in 1957-58 ; Government canals 5,239 ; Private canals 567 ; wells 11,817 ; Tanks 4,790 ; other sources 781 ; Gross area irrigated 26,786 ; Area irrigated more than once 3,592.

Area Irrigated by Crops (figures in '00 acres) as in 1957-58 : Rice 6,656 ; Wheat 3,281 ; Jowar 5,501 ; Bajra 713 ; Tur 74 ; Gram 943 ; Sugarcane 2,797 ; Total food crops 24,597 ; Cotton 490 ; Groundnut 282 ; Tobacco 45 ; Fodder crops 533 ; Total non-food crops 2,189 ; total area under irrigation 26,786.

Agricultural Implements (Figures in numbers) as in 1956 : Wooden ploughs 20,38,044 ; Iron ploughs 3,30,154 ; carts 12,42,524 ; Sugarcane crushers woked by power 4,805 ; Sugarcane crushers worked by bullocks 9,319 ; Oil engines with pumps for irrigation purposes 26,617 ; Electric pumps for irrigation purposes 2,033 ; Government tractors 614 ; Private tractors 1,685 ; Ghanis—five seers and over 6,567 ; Ghanis less than five seers 3,302.

Livestock (Figures in numbers) as in 1956 :

Cattle : Breeding bulls over 3 years 49,044 ; other males over 3 years 58,04,610 ; Breeding cows over 3 years 42,96,666 ; other cows over 3 years 40,361 ; Young stock 39,70,103 ; Total cattle 1,41,60,784 ; *Buffaloes :* Breeding bulls over 3 years 18,590 ; other males over 3 years 2,78,558 ; Breeding buffaloes over 3 years 14,14,038 ; Other buffaloes over 3 years 47,681 ; Young stock 9,38,488 ; Total buffaloes 26,97,355 ; Total bovine 1,68,58,139 ; Total sheep 19,59,347 ; Total goats 45,83,399 ; *Horses and ponies :* Male horses and ponies over 3 years 65,595 ; Females over 3 years 43,217 ; Young stock 31,028 ; Total horses and ponies 1,39,840 ; Mules 535 ; Donkeys 54,511 ; Camels 968 ; Pigs 1,64,327 ; Total livestock 2,37,61,066 ; *Poultry :* Fowls, hens, cocks and chicken 88,18,582 ; Ducks, drakes and ducklings 48,760 ; others 37,034 ; Total poultry 89,04,376.

Cooperation : Number of societies, number of members and working capital (Rs. lakhs respectively as in 1959-60 :* Agricultural credit and non-credit) 21,787 ; 20,27,000 ; 7,253 ; Non-agricultural (credit and non-credit) 6,650 ; 11,10,000 ; 4,198 ; Land Mortgage banks 23 ; 90,000 ; 285 ; Central Banks 39 ; 75,000 ; 9,423 ; Urban Banks: 141 ; 4,07,000 ; 2,524. Total number of all types of co-operative societies, total number of members and total working capital (Rs. lakhs) respectively : 28,640 ; 37,00,000 ; 23,683.

Various types of banking offices in 1957 :

Scheduled banks 463 ; Non-Scheduled banks 48 ; Co-operative banks 299 ; Total banking offices 810.

Joint Stock Companies : No. of companies, authorised capital and paid-up capital in '000 rupees respectively as in 1958 : Agricultural and allied activities 1,486 ; 1,06,10,45 ; 44,10,77 ; Mining and quarrying 935 ; 1,98,69,55 ; 57,10,04 ; Processing and manufacture of food stuffs, textile, leather and products thereof 3,027 ; 6,89,96,84 ; 2,89,67,97 ; Processing and manufacture of metals, chemicals and products thereof 4,212 ; 10,57,37,29 ; 4,16,09,22 ; Processing and manufacture not elsewhere classified 2,920 ; 3,90,18,09 ; 1,13,37,79 ; Construction and utilities 736 ; 1,33,00,97 ; 56,81,83 ; Commerce (Trade and Finance) 11,121 ; 9,32,25,88 ; 2,64,71,20 ; Transport, Communication & Storage 1,509 ; 1,84,03,29 ; 42,41,58 ; Community and business services 692 ; 29,21,49 ; 7,40,59 ; Personnel and other services 1,642 ; 1,03,73,35 ; 14,57,33 Total 28,280 ; 38,24,57,20 ; 13,06,28,32.

Education : (Figures for 1959-60) : No. of institutions and pupils respectively under each category : Higher Education 219 ; 107,000 ; Secondary Education 2,110 ; 747,000 ; Primary Education 32,934 ; 39,40,000 ; Others 13,833 ; 3,57,000.

Teachers in primary, secondary and higher institutions respectively in 1957-58 : 98,363 ; 24,655 ; 4,748.

Number of institutions per lakh of people in 1957-58 : 140·3.

Number of students per thousand of population : State as a whole 137·7 ; Greater Bombay 241·6.

Electricity: (Figures in million Kilowatt Hours) as in 1958-59 : Electrical energy generated 26,35 ; Electrical energy consumed 22,87 ; (*a*) domestic consumption 203 ; (*b*) commercial consumption 170 ; (*c*) industrial consumption 14,94 ; Other purposes 420.

Figures as on March 31, 1958 : No. of towns electrified 161 ; Number of villages electrified 404.

Industries and Mining : (No. of factories on register showing within brackets number reporting, total productive capital, total persons employed and total production under each industry. Figures for reporting factories for 1957) : Wheat flour 5 (5) : Rs. 1,38,10,829 ; 1,109 ; Rs. 8,78,36,606 ; Rice Milling 4 (4) : Rs. 4,43,027 ; 133 ; Rs. 13,93,161 ; Biscuit Making 20 (19) ; Rs. 1,93,92,579 ; 1,653 ; Rs. 3,08,07,479 ; Fruit & Vegetable Processing 11 (10) ; Rs. 62,36,759 ; 649 ; Rs. 81,81,579 ; Sugar 20 (18) ; Rs. 25,90,24,692 ; 12,009 ; Rs. 21,00,77,753 ; Distilleries & Breweries 4 (4) ; Rs. 22,46,979 ; 308 ; Rs. 17,46,470 ; Starch 1 (1) ; Rs. 44,617 ; 20 ; Rs. 3,69,148 ; Vegetable oils 177 (144) ; Rs. 6,17,47,123 ; 8,706 ; Rs. 32,53,79,907 ; Edible hydrogenated oils 8 (8) ; Rs. 4,76,85,116 ; 2,704 ; Rs. 20,25,65,212 ; Paints & Varnishes 14 (12) ; Rs. 1,05,88,141 ; 1,359 ; Rs. 2,71,08,839 ; Soap 4 (3) ; Rs. 5,73,93,797 ; 2,829 ; Rs. 12,89,32,597 ; Tanning 5 (5), Rs. 20,52,356 ; 402 ; Rs. 59,80,932 ; Glass & Glassware 24 (21) ; Rs. 1,46,29,880 ; 6,294 ; Rs. 2,15,19,969 ; Ceramics 5 (5) ; Rs. 63,29,586 ; 1,139 ; Rs. 35,53,286 ; Paper & Paper Board 12 (12) ; Rs. 2,19,42,805 ; 3,214 ; Rs. 2,85,92,725 ; Matches 2 (2) ; Rs. 1,17,25,566 ; 2,064 ; Rs. 1,71,30,764 ; Cotton Textile 120 (107) ; Rs. 1,04,31,52,210 ; 2,68,842 ; Rs. 1,73,03,70,950 ; Woollen Textiles 8 (8) ; Rs. 4,01,33,782 ; 4,458 ; Rs. 7,04,51,920 ; Chemicals 108 (101) ; Rs. 20,73,97,053 ; 13,208 ; Rs. 30,73,63,046 ; Aluminium, Copper & Brass 64 (57) ; Rs. 3,79,72,994 ; 5,043 ; Rs. 9,35,07,043 ; Iron & Steel 10 (8) ; Rs. 1,74,54,440 ; 2,960 ; Rs. 4,98,87,359 ; Bicycles 7 (7) ; Rs. 1,55,37,140 ; 2,197 ; Rs. 2,31,08,549 ; Electric Lamps 2 (1) ; Rs. 1,02,085 ; 30 ; Rs. 1,94,773 ; Electric Fans 5 (5) ; Rs. 37,08,301 ; 799 ; Rs. 43,93,947 ; General & Electrical 434 (379) ; Rs. 29,20,33,531 ; 48,698 ; Rs. 52,13,41,408 ; Total 1,074 (946) ; Rs. 2,19,27,85,388 ; 3,90,827 ; Rs. 3,90,17,95,422.

Total number of all types of factories, and the average number of workers attending daily respectively (Figures as on June 30 ; 1960) ; 8,684 ; 7,18,851.

Number of strikes, number of workers involved and mandays lost respectively in the State (Figures for the year 1960) : 262 ; 2,76,437 ; 10,01,453.

Mineral production in '000 metric tons, '000 Rs. respectively. For the year 1959 ; Iron ore 3,25 ; Rs. 47,26 ; Manganese 2,32 ; Rs. 2,71,84 ; Coal 6,85 ; Rs. 1,46,91 ; Sal 3,70 ; Rs. N.A.

Community Development Programme :— Coverage under C.D. Stage I C.D. Stage II blocks in the State upto March, 1960 ; No. of blocks of CPA Pattern 206·75 ; No. of villages 22,468 ; Area in sq. miles 59,396 ; Population 137,83,000.

Physical achievements from inauguration upto 31st March 1960 : Fertilisers distributed 42,33,678 B. mds. ; Improved seeds distributed 10,96,820 mds. ; No. of animals castrated 3,69,929 ; No. of pedigree bulls supplied 2,442 ; Area reclaimed and bunded 6,78,252 acres ; Additional area brought under irrigation 2,91,550 acres ; Drinking water wells constructed 4,401 ; Adults made literate 1,98,666 ; Youth Clubs started 8,145 ; Farmers' unions started 10,480 ; Mahila Samitis started 3,657 ; Kacha road constructed 25,665 furlongs ; School Buildings constructed 3,696 ; Peoples' contribution Rs. 4,63,80,000 ; Government expenditure (inclusive of committed expenditure) Rs. 17,09,24,000.

No. of blocks of C.P.A. pattern (Stage I/II/M.D.P.) at the end of Oct., 1960 was 23,925. In addition to these 154 blocks are operating as pre-extension service blocks.

Medical :—(Figures for 1960) : Number of hospitals and dispensaries in the State : 1,400 ; Number of beds 15,281 ; Number of indoor patients treated 6,59,263 ; Number of outdoor patients treated 1,29,10,817. Death rate per 1,000 due to : Malaria (1959) : 0·5 ; tuberculosis (1959) : 0·4.

Transport and Communications : (Figures for 1958) : Number of motor vehicles in operation 9,573 ; Motor cars 43,619 ; Taxi cabs 4,640 ; Auto-Rickshaws 308 ; Stage carriages (Diesel engines 3,523 ; Petrol engines 1,099) ; Lorries—(*a*) Private carriers (Diesel engines 410 ; Petrol engines 4,699) ; (*b*) Public carriers (Diesel engines 2,947 ; Petrol engines 10,733) ; Ambulances 127 ; School buses 221 ; Private service vehicles 79 ; Trailors 1,336 ; Tractors 826 ; Others 103 ; Total number of vehicles 84,243.

Roads (in metres) (Figures as on 31st March 1961) : Total 39,941 ; National Highways 2,438 ; State Highways 9,509 ; Major District Roads 11,384 ; Other District Roads 8,037 ; Village Roads 39,941.

Railway mileage : Total 2,656·12 (Broad Gauge 1,558·56 ; Metre Gauge 680·67 ; Narrow Gauge 416·89).

Nationalised Road Transport (Figures as on 31st March 1959) : Number of routes 1,424 ; Total route mileage 47,261 ; Average mileage operated per day 1,97,861 ; Operating fleet 2,050 ; Average daily earnings Rs. 3,10,306 ; Number of passengers who travelled per day 4,06,823 ; Daily diesel oil consumption 11,731 gallons.

Employment Exchange Statistics (Figures for the period April to December 1959) : Registrations 2,16,163 ; Vacancies notified 32,833 ; Placements 21,084. Those on the live register at the end of December 1959 : 1,62,966.

Local Bodies : *Village Panchayats* (Figures as on March 31, 1960) : Number of village panchayats 15,254 ; number of villages covered by village panchayats 29,176 ; population covered by village panchayats 2,01,97,000 ; percentage of population covered to total rural population : 84.

Small Savings : During 1960-61 the movement realised Rs. 26 crores as against a target of Rs. 19 cores. Twenty districts exceeded their targets, four of them by as much as 200 per cent. Target for 1959-60 : Rs. 18·45 crores. Net collection upto end of Nov. 1959 : Rs. 9·36 crores. In the Greater Bombay there are 83 pay roll savings groups comprising 3,000 members and 248 voluntary savings groups.

Small Scale Industries : Small-Scale industries with State have registered a spectacular rise in the past few years, the total value of essentiality certificate for imported raw materials, for instance, going up from Rs. 1,32,29,658 to Rs. 7,67,94,485 between April 1959 and March 1961.

* Tentative.

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Cost of Living Index

Year	Bombay[1]	Sholapur[2]	Jalgaon[3]	Nanded[4]	Aurangabad[4]	Nagpur[5]
1956 ..	353	339	445	218	182	398
1957 ..	360	313	453	223	193	422
1958 ..	395	340	493	223	185	447
1959 ..	412	323	483	241	202	498

[1]Base: Average from July 1933 to June 1934 as 100. [2]Base: Average from February 1927 to January 1928 as 100. [3] Base: Average prices for August 1926 as 100. [4] Base: Average August 1943 to July 1944 as 100. [5] Base: Average price for August 1939 as 100.

Index Number of Wholesale Prices (Base: 1952-53=100).

Year	Annual Average				
	Food Articles	Liquor and Tobacco	Fuel, Power light and Lubricants	Industrial Raw Materials	Manufactures
1957	106·8	91·8	111·5	118·1	107·9
1958	112·0	93·7	115·2	114·8	108·2
1959	118·2	100·7	116·0	119·7	109·7
1960* ..	120·3	106·4	119·0	138·8	120·8

Consumer price index numbers for Working Class (1960): Bombay base: July 1933 to June 1934 = 100: 420; Sholapur base: Feb. 1927 to Jan. 1928 = 100: 357; Jalgaon Base: Aug. 1939 = 100: 491; Nanded Base: Aug. 1943 to July 1944 = 100: 252; Aurangabad Base: Aug. 1943 to July 1944 = 100: 212; Nagpur Base: Aug. 1939 = 100: 512.

ECONOMY

From the point of view of rainfall, the State can be divided into four regions—the Coastal area where the rainfall is between 80″ and 120″. The plateau areas where the rainfall is between 25″ and 80″ and is mostly around 25″—30″. In quite a few places it is less than 20″. The Vidarbha Districts where the rainfall varies between 30″ and 60″ are mostly around 60″.

There are a few acute scarcity areas:—in Poona District the areas of Shirur Taluka, Dhond Taluka, northern part of Baramati Taluka, villages to the north of Mula-Mutha river upto the northern boundary of Haveli Taluka. In Satara District Khanapur Taluka. In Sholapur District Karmala and Sangola Talukas. In Ahmednagar District Shrigondh Taluka.

The whole of Vidarbha is completely free from scarcity threats.

Rice is abundantly grown in the coastal Districts of Thana, Kolaba, Ratnagiri and also in Chanda and Bhandara. It accounts for one-fifth of the foodgrains grown in the State. Wheat accounts for only one-twentieth. Millets are grown abundantly in the Deccan, Vidarbha and Marathwada districts. Jawar is the major cereal and accounts for half the production. The total area under foodgrains is high.

Cash crops are important. The area under oil seeds is one-sixth and the area under cotton is one-fourth of the area under oil seeds and cotton respectively for the whole country. The two most important crops are thus oilseeds and cotton. The production of cotton is 26·1 per cent of the production of the whole country and, of groundnut 17·9 per cent of the production of the whole country. The State also grows a considerable amount of sugarcane.

The State has abundant forest wealth. Forests form 20·7 per cent of the area of the State. There are forest areas in all districts, but the thickest forest areas are, in Chanda, Amravati, Yeotmal, Bhandara, Nagpur, Dhulia, Thana and Nasik Districts. They produce various types of timber, teak and minor forest produce.

In the matter of live-stock, the milk-yielding buffalo population is greater than the cattle only in Kolhapur and Greater Bombay. The sheep and goat abound in all Districts but are particularly noticeable in Nasik, West Khandesh, Ahmednagar and Sholapur. The concentration of horses and ponies is greater in Marathwada, Dhulia and Ahmednagar.

In 1957 there were 810 banking offices. Out of these 206 were in Greater Bombay. Each office serves a population of about 40,000 in the State; in the Greater Bombay area the population served is 14,000.

Out of the 4,316 joint stock companies 3,493 were in the Greater Bombay area. Again of the 4,316 concerns more than one-third belong to commerce, one-fifth to processing and manufacture of metals, chemicals and products thereof. The paid-up capital per capita is Rs. 98 for the whole State. If the Greater Bombay area is excluded it would be Rs. 7. This shows the high degree of concentration in the Greater Bombay District.

The State is rich in minerals like manganese and salt. Salt is produced in the coastal Districts, while manganese is mined in the Vidarbha Districts and to some extent in Ratnagiri. Some iron is mined in Ratnagiri and Chanda. It is believed that Vidarbha and to some extent Marathwada have deposits of China Clay, limestone, coal etc. With these exceptions the mineral deposits elsewhere are poor.

The more important industries are cotton textiles, general and electrical engineering, chemicals, sugar, vegetable oils, paper and paper boards, soap. Out of the 8,036 registered factories in the State nearly half, that is, about 3,539 factories are in the Greater Bombay area. The factories in the remaining areas are concentrated in Sholapur, Nagpur, Bhandara, Poona, Ahmednagar and Thana Districts. The concentration in Marathwada Districts is very poor.

Out of the Rs. 197·7 crores of productive capital the textile industry alone accounts for 50 per cent. The large sugar and soap factories exist only in Maharashtra.

About 40 per cent of the towns in the State were electrified as in March 1958. Today all places with a population of 50,000 and over are electrified. Power generation and consumption in Greater Bombay are high. If this area is excluded the per capita consumption would be the same as for the Indian Union as a whole.

The figures for extra-municipal road-mileage as in March 1958 show that there were 17·5 miles of road per 100 sq. miles of area, or 64·7 miles of road per lakh of population. Mileage is highest in Ratnagiri District and comparatively poor in Marathwada and Vidarbha.

Social Services:—It is calculated that about a fourth of the population of Greater Bombay consists of students. In the State as a whole students make up one-eighth of the population. But the number of institutions per lakh of population is on the low side. The number of teachers per thousand of population is 4; in Greater Bombay it is 7.

Each Government dispensary or hospital in the State served a population of about 37,000 in 1957. Marathwada has poor medical facilities each hospital or dispensary serving 80,000. Each bed serves a population of 2,700 in the State.

On an average 24,018 persons registered for employment every month from April to December 1959. Of these about a tenth were found jobs every month by the exchanges.

AGRICULTURE

The total production of foodgrains in the Maharashtra State in the year 1956-57 is to the tune of 62 lakh tons which is 16·61 oz. per capita per day. Among non-food crop group, the production of cotton and groundnut is sizeable, it being 26·1 per cent and 17·9 per cent respectively of the production of these commodities in the Indian Union.

Sugarcane is grown in almost all the districts except the Konkan districts, the major cane-growing districts being Ahmednagar, Kolhapur, Poona, Nasik, Satara and Sangli, Sholapur and Aurangabad. These eight districts together have about two lakh acres under sugarcane, yielding approximately seven lakh metric tons of sugarcane (expressed in terms of gur) in the year 1956-57.

The Marathwada districts, with the inclusion of Jalgaon, have nearly 21 lakh acres under oilseeds. The corresponding figures for Vidarbha districts being nine lakh acres. The remaining districts of the Western Maharashtra have about 18 lakh acres under oilseeds. These figures for oilseeds do not include figures for cottonseed, of which there is considerable production in the cotton-growing districts of the State.

As regards cotton, there is an area of about 35 lakh acres under this cash crop in Vidarbha, yielding annually about 7 lakh bales (each bale of 392 lbs.), the corresponding figures for Marathwada (including Jalgaon) being 25½ lakh acres and 3½ lakh bales, respectively. Although cotton is grown in many places to some extent in Western Maharashtra, Dhulia is a major cotton tract in that region, with an area of about three lakh acres under it, growing nearly 60,000 bales.

Although the Konkan districts are lean in the production of food crops, they excel in horticultural wealth. Ratnagiri district has 7,600 acres under mangoes. Similarly, the district has 4,800 acres under cashewnut Thana district is the home of bananas, with an acreage of 2,600. Nagpur oranges are well known. They are grown in Nagpur, Amravati and Wardha Districts, which have about 24,000 acres under them.

LAND DEVELOPMENT

In the Second Plan the provision for land development was Rs. 182·42 lakhs against which the total expenditure incurred was Rs. 142·22 lakhs during the first four years, 1956-60.

In pursuance of its policy to make the tiller of the soil its owner a phased programme gradually eliminating all intermediaries is under implementation. The tenancy law in force in Marathwada, namely the Hyderabad Tenancy and Agricultural Lands Act, 1950, was found deficient in some respects. In particular, it did not provide for conferring occupancy rights on ordinary tenants. To make up for this and other deficiencies in the Act, the necessary amendments were made to the Act in 1958. The tenancy law of Vidarbha also did not contain any provision or adequately provide for conferring occupancy rights on tenants or fixing ceiling on land holdings. Suitable legislation namely the Bombay Tenancy and Agricultural lands Act, 1958 for the Vidarbha region came into force from December 30, 1958.

* Provisional.

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In order to ensure proper and quick settlement of compensation awards, in respect of the various land tenure abolition laws, the Bombay Land Abolition Tenure (Amendment) Act, 1958 and the Bombay Land Abolition Laws (Amendment) Act, 1958 were enacted. But the most important step taken by Government in this field is the one for the abolition of the inferior village watans, which were a stigma on the administration of the State. A beginning of the implementation of this reform has already been made.

The work of consolidation of holdings is regulated by different laws in the three different areas of the State. Under the old Bombay and Marathwada Acts, Government can take up any area for consolidation of holdings by notifying its intention to do so, but in Vidarbha, such schemes can be taken up in villages where two thirds or more tenure holders apply for the same. The consolidation work was started in the old Bombay areas from the year 1948 under the Bombay Prevention of Fragmentation and Consolidation Act, 1947. This Act has now been extended to the new areas also by the Act of 1958, which was brought into force from April 1, 1959.

There are vast areas of khar and khajan lands in the coastal tract of the State, which can be rendered cultivable by reclaiming them. The Khar Lands Development Board, established under the Bombay Khar Lands Act, 1948, has been reclaiming these salt-affected lands under the supervision of the P.W.D. staff.

All Talukas have seed multiplication farms. In the Second Five Year Plan of the State of Maharashtra, there was a provision of Rs. 280·55 lakhs for soil conservation, against which an expenditure of Rs. 321·59 lakhs was made during the first four years of the Plan.

Farmers' unions were set up at village and taluka levels for carrying out intensive bunding work with the aid of Government officials.

It was proposed to bund an area of 6·75 lakhs in the Maharashtra State during 1960-61.

The land ceiling legislation@, now awaiting the assent of the President (May 1961), provides for a more equitable distribution of land among the peasantry by placing a ceiling on the holding of an individual. The ceilings on dry crop land range from 66 acres to 126 according to soil conditions. The upper limit on simple crop irrigated land will be 48 acres and the limit on double crop irrigated land is 27 acres and on personally irrigated land is 18 acres. The land distribution programme was taken up after the formation of Maharashtra by simplifying the procedure of grants. About 400,000 acres of waste land have been distributed among the landless in the eight districts of Vidarbha and six districts of Maharashtra.

INDUSTRIES

There are 92 textile mills in Maharashtra with 40,14,531 spindles and 79,118 looms and an average daily complement of 2,52,217 workers. Out of these 92 units, 63 are in Greater Bombay alone, with total installed spindleage of 31,54,435 and 61,694 looms, which employ 1,94,398 workers daily. Out of the remaining units, four are in Aurangabad division, with 87,348 spindles and 1,840 looms, seven in Nagpur Division, with 2,60,400 spindles and 5,001 looms, 18 in Poona Division, with 5,12,348 spindles and 10,583 looms.

The rayon industry is a development of recent origin. There are two viscose rayon factories at Kalyan, with an installed capacity of 28·8 million pounds per annum, as against the total capacity of 68·3 million pounds estimated for the country as a whole.

Nine woollen mills are located in the Bombay-Thana region, with 55,772 spindles and 426 looms.

Five industrial sites are to be developed by the Govt. in the Ulhas Valley near Kalyan covering an area of five square miles.

Engineering :—In the field of engineering industry, there have been several notable developments particularly in the Bombay region. Some of these are machine tools like lathes, shaping machines, pillar drills, power hammers, metal cutting saws, steel and malleable iron castings, welding electrodes, electrical stampings, link chains, melting crucibles, umbrella ribs, steel furniture, safes and cash boxes, steel bells and copper roller engraving for textile industry.

Another feature is the beginning made in the manufacture of modern appliances like type writers, refrigerators, wireless receiving sets, wooden and plastic cabinets and household electrical gadgets. Manufacture of modern equipment for agricultural plant protection, pressure stores and lamps, stainless steel pressed wares and equipment, industrial machinery for textile and chemical industries and fabrication of heavy structurals like transmission power and pipe line, cranes, etc. has also developed in recent years.

The establishment of some of the highly specialised industries like manufacture of twist drills, cutters, taps, engineering files and grinding wheels is also noteworthy. The engineering industries located at Kirloskarwadi, Poona and Satara are known for their agricultural implements, engines and other products. There are about 27 units in the Poona division itself, manufacturing diesel engines, oil-engines, sugar-mill machinery, jeep trailors and tractors, non-ferrous utensils, agricultural implements, power looms, etc. In electrical engineering, the manufacture of electrical motors, transformers, cables for transmission and switch gears are worthy of mention.

In the metallurgical industry, Bombay has the only antimony refining unit in the country. A unit of powdered metallurgy, manufacturing self-lubricating gun metal bushes and cycle free wheels has also been recently established.

Sugar :—Maharashtra is one of the major sugar-producing States in the country, having 28 sugar factories, with a crushing capacity of 24,800 tons per day. They are located in the districts of Ahmednagar (11), Kolhapur (4), Poona (3), Satara (3), Sangli (1), Sholapur (3), and Aurangabad (1).

One of the important features of this industry is the organisation of co-operative sugar factories. This is borne out by the fact that out of the total licensed 28 factories, 14 are co-operative. Twelve more would be started during the Third Five Year Plan. Further, the Master Plan for Industrialisation envisages a sugar factory in Nasik District, two in the Shrigonda Taluka of Ahmednagar District, which is in the command area of Ghod Weir and one in Malsiras taluka of Sholapur District, after the Vir dam is completed. The sugarcane cultivators of Rahuri and Shrirampur talukas of Ahmednagar Dist. have decided to start a fertilizer factory in the co-operative sector to produce 40,000 tons of superphosphate and 16,500 tons of sulphuric acid annually. The cost of the project is estimated at Rs. 64 lakhs.

Industrial Alcohol :—Allied to the sugar industry is the industrial alcohol industry, which can be developed from the molasses available from sugar factories. Out of about 18 million gallons of alcohol made wholly from molasses in the country, 12,65,000 gallons are made in the five distilleries located in the Poona Division. In view of the increasing demand for power alcohol for industrial purposes, the State Government has decided to put up a new and bigger distillery at a cost of Rs. 71 lakhs at Chitali in Ahmednagar district in the place of the old unit at Nasik. The new distillery will have an installed capacity of about 9,000 gallons per day.

Chemicals :—The chemical industry in Maharashtra is developing fast, heavy as well as light.

For dye-stuffs Bombay, Thana and Parnera are the main centres manufacturing a wide range of products. Ceramic and glass, gases, oils and soaps, paints, pigments and varnishes, food products, rubber goods and other chemical industries also follow the same pattern.

The Automobile Industry :—Bombay is progressively undertaking the manufacture of cars, utility vehicles and scooters in three large assembly plants. The ancillary industry manufacturing component parts is also steadily developing under the patronage of the automobile industry. The **Bicycle Industry** is also making headway, having an annual licensed capacity of 2,30,000 bicycles.

There are in all three **Paper Mills** in Maharashtra, one each at Poona, Ogalewadi and Ballarpur. The Ballarpur mills have plans of expansion.

Oil Mills :—Groundnut being one of the important cash crops in Nagpur and Aurangabad Divisions, there are several oil mills located in these regions. In Aurangabad Division itself, there are 69 independent oil mills, Pachora and Amalner having oil hydrogenation plants. In Nagpur Division, there are about 82 independent oil mills. Akola and Shegaon in this Division have one oil hydrogenation plant each. In Bombay Division, the oil milling industry is concentrated in East Khandesh† where there are 30 mills and West Khandesh‡ district, 15 oil mills. In addition, most of the ginning and pressing factories in the cotton growing tracts, which grow groundnut also, have oil mills for off season working.

Ginning and pressing is an important processing industry serving the cotton-growing areas. There are about 608 such factories all over the State, a large number of them, 280, having been located in Nagpur Division. Little over 112 ginning and pressing units are spread over the entire cotton-producing area in Aurangabad Division giving seasonal employment to over 8,800 persons. In Bombay Division, 42 ginning and pressing factories are located in Dhulia District and 100 in Jalgaon District while there are 73 such factories in Poona Division.

A 17-member State Advisory Council of Industries, has been set up with the Chief Minister as Chairman to explore the possibilities of industrial development of the State.

MASTER PLAN

There are several other industries located in other parts of the State. The Master Plan for Industrialisation of Bombay State* has made specific recommendations for the establishment of industrial units and also generally indicated locations for them.

Heavy concentration of industries in certain areas leads to innumerable problems. In Maharashtra, the industries are concentrated in Greater Bombay and in certain other towns such as Sholapur, Nagpur, Bhandara, Poona, Ahmednagar and Thana. Out of the 8,036 factories in the year 1957, employing about seven lakh workers, as many as 3,539 factories employing four and half lakh workers were in Greater Bombay alone. There is, therefore, an urgent need for the dispersal of as many industries as possible to various rural centres. The Master Plan for Industrialisation has suggested starting of industrial estates at places like Dhulia, Nasik Road, Karjat and Chiplun-Khopoli. It has also suggested that as and when the Patalganga and Kundalika valleys develop by the establishment of large-scale industries, there will be a need to establish special industrial estates in these areas for linking small-scale industries. This apart, there was already a programme of establishing industrial estates in different parts of the State under the Second Five-Year Plan. It was decided to establish eleven industrial estates in Maharashtra. The programme envisaged industrial estates at Kurla, Bapti Road (Bombay), Atale (Kalyan), Kolhapur, Hadapsar (Poona), Malegaon (Nasik District), Karad, Nagpur, Amravati, Nanded and Marali Vaijanath.

* Bilingual. † Now known as Jalgaon. ‡ Now known as Dhulia. @ The Bill does not exempt sugarcane farms owned or managed by factories.

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As the Thana area, due to the proximity of Bombay, is very rapidly developing as an industrial area, an industrial estate at Bhivandi in the Thana district would according to the Master Plan, give an incentive to the development of small-scale industries to serve as auxiliaries of and ancillaries to large-scale industries being established in the area.

Similarly, the Master Plan has expressed concern over the intense industrial activity in places like Nagpur and Akola and has suggested the setting up of satellite industrial townships in Kamptee-Kanhan near Nagpur and Badnera. For water consuming industries, Chanda has been suggested as an ideal site. Places like Shegaon, Khamgaon, Gondia and Kalmeshwar, where there is promise of industrial activity in the small-scale industries sector, are also suggested for development. For Poona Division, it has recommended an industrial estate at Ichalkaranji, where powerloom units are concentrated. Budhgaon in Sangli District, is another place which has been suggested for a rural estate. After this Nanded and Parali-Vaijanath, Jalgaon, Latur, Hingoli and Jalna, all in Aurangabad Division, should be the next choice for such estates.

MINERALS

The rich deposits of iron ores, estimated to be of the order of about 125 lakh tons, located in Vidarbha and Konkan, very large deposits of manganese ore, both of high and low grade, occurring in Vidarbha, particularly Nagpur and Bhandara districts, extensive deposits of bauxite, estimated at five crore tons in Kolhapur district alone, as also in parts of Ratnagiri, Thana and Kolaba districts and coal reserves of over 65 crore tons in Vidarbha, constitute the mineral wealth of Maharashtra.

In addition to these major minerals, there also occur other minerals like ilmenite, chromite, mica, silica, limestone, clay, etc.

Iron ore :—Very rich deposits of iron ore, estimated to be of the order of about 125 lakh tons, are located in various parts of Maharashtra, particularly in Ratnagiri and Kolaba districts and in Vidarbha region.

Important occurrences of iron ore are located in Ratnagiri District in Bombay Division, round about in Vengurla taluka and Bandapeta in Sawantwadi taluka. The overall potential appears to be enormous, the iron content in them varying from 45 to 60-66 per cent. A few mining concessionnaires are already working in the Redi area and the present annual output is about two lakh tons. Patches of iron ore, lateritic or otherwise, are also known to occur in Kolaba district, round about Janjira.

Nagpur region, however, seems to be rich, not only in manganese and coal deposits, but also in iron ore. Those occurring in Chanda district are the most important, both in extent and quality. They occur at places like Lohara, Asola, Dewalgaon, Bissi, Pipalgaon and Ratnapur.

Manganese :—The Vidarbha region has very large deposits of manganese ore, both of high and low grade. There are 231 working mines exploiting manganese ore in various parts of Nagpur and Bhandara districts, which are the main manganese producing areas of Vidarbha. Most of the areas bearing high grade ore have already been leased out. For the present, almost the entire quantity of manganese ore produced is exported in raw condition. However, recently, two ferro-manganese plants which will utilize a sizeable quantity of the ore are being set up in Nagpur and Bhandara districts.

In Bombay division also, the manganese ore appears to be occurring almost side by side with the three iron-ore belts running parallel in Ratnagiri district.

Kolhapur district has rich deposits of **bauxite**. More than 5 crore tons of bauxite exist in this zone. They occur at Udgeri, Dhangarwadi, Rangewadi, Radhanagari, Waki, Gargoti, Panhala, Ajara and Vishalgadh all in Kolhapur district.

In Bombay Division, bauxite occurs in Ratnagiri, Thana and Kolaba districts. The deposits of Ratnagiri lie in the up-ghat region at Amboli. The reserves were estimated at over 50 lakh tons. The ore occurs at Tungar hills and in the Borivli, Jogeshwari and Goregaon area. In Kolaba district, bauxite deposits of good quality have been reported at Dohane, Ambegaon and Wakalghar in Murud taluka and Wave and Shinona in the Shriwardhan taluka.

Coal :—Coal occurs at Kamptee in Nagpur district and in the Wardha valley. The Wardha valley comprises the Bandar, Warora, Majri, Rajura, Chanda (Durgpur, Mahakali, Babulpeth and Lalpeth), Ghugus and Ballarpur fields. The deposits are, however, of the second grade as compared to the Jharia grade and are of non-coking variety. At present, about 10 coal mines are being worked in this area. The Bhandar reserves are estimated at 10 crores and 80 lakh tons, while the Warora field reserves are roughly over 1 crore and 20 lakh tons. The reserves of the Rajura and Wani coal fields are of the order of 24 crore tons.

In Nagpur district, coal has been proved at Tekadi and Juni Kamptee. The exact reserves may be of the order of 30 crore tons. Areas between Kanhan and Saoner are likely to contain extensive deposits of coal. Mining operations have been undertaken at Kamptee. However, the present production is diverted exclusively to the Khaparkheda thermal power station.

Thus the total coal reserves in the Vidarbha region are of the order of 65 crore tons.

Limestone :—The Marathwada region has limited mineral resources, which consist chiefly of building stones, semi-precious stones, zeolites and material for lapidary industry. Limestone deposits have, however, been discovered south-west of Mohada in the Kinwat Taluka of Nanded district. The reserves are provisionally estimated at 6·60 lakh tons.

Limestone deposits are also known to occur in Ratnagiri district to the south-west of Phonda ghat and in the high hills of Hanumat ghats. Limestone patches occur right from Dabhol to Panvel, Malad to Bassein and Palghar to Dahanu.

In Nagpur Division, limestone deposits are located near Rajura in Yeotmal district and Warora in Chanda district. In Chanda district, limestone occurs a quarter of a mile north-west of Purkepar village, about four miles east of Nawargaon. It also occurs in Kondala village and at Mardha.

In Poona Division, limestone has been located at Kallur, Nandur, and Khanderawadi in Ahmednagar district. The reserves have been estimated to be only 10,000 tons. Recent surveys reveal good deposits of limestone in the Miraj taluka of Sangli district.

The distribution of some other ores are :—

Ilmenite : Ratnagiri District (between Ratnagiri and Jaygadh) ; estimate 20 lakh tons ; near Yerangal in Borivli Taluka and near Bassein in Thana.

Chromote : Ratnagiri District (Kankavali, Vadga) ; estimates 70,000 tons. Are worked.

Mica : Ratnagiri District ; 5,000 maunds a year could be worked.

Silica : Ratnagiri District ; estimate over two crore tons. Now worked. Yield 10,000 tons a year.

Clay : Ratnagiri District (Talegaon, Malvan, Vengurla, Kudal, Sawantwadi) ; Thana District (Ghokhara Mouza near Bassein Road) ; Nagpur District (Bozargaon, Shemda, Khapri) ; Amravati District (Belkher, Kharaili, Pandhari) ; Chanda District (Kothari, Isapur, Ballarshah, Junona, Bhandak). Some leased for pottery works at Nagpur, Jabalpur and Chanda.

Felspar and quartz : Ratnagiri District (Kadwa-Pangharat ; also southern areas).

Ochres : Ratnagiri District (Savantwadi, Kudal, Vengurla).

EMPLOYEES' STATE INSURANCE SCHEME

The following particulars show the position as on 31st December 1960 in relation to the Greater Bombay and Vidarbha Region where the scheme is in force.

Total No. of employees : About 5,10,000.

The following particulars show the position as on 31st December 1960 in relation to Greater Bombay and the Talukas of Thana District which are linked with it.

Total No. of insured workers : 6,60,336.

Total number of panel doctors : 1,159 (218 Ayurvedic, 4 Unani and 937 allopathic).

Total attendance at the Insurance Medical Practioners' dispensaries during the year 38,26,61 (New cases 11,81,678, old cases 26,44,938).

Total number of general beds sanctioned : 500.

Total T.B. beds sanctioned : 500.

Number of diagnostic centres : 6 ; number of ambulances : 7.

Number of laboratory tests : 62,041 ; number of persons screened : 13,924.

Number of persons X-Rayed : 24,707.

Number of approved chemists : 103.

Number of costly drugs : 187.

The following particulars show the position as on 31st December 1960 in relation to Vidarbha.

In the eight districts here the scheme has so far been implemented in three towns : Nagpur, Akola and Hinganghat. Number of employees covered : 37,639.

Diagnostic and special treatment is provided at the Mayo Hospital and the Medical College Hospital, Nagpur.

General medical treatment is provided under the service system, that is, in the State Insurance Dispensaries.

The number of beds reserved in Nagpur : 70 (includes 25 T.B. and 10 maternity beds) ; in Akola 5, in Hinganghat 6.

In addition to the above five, five more T.B. beds are reserved in the T.B. Sanatorium at Buldhana.

The Offices concerned are :

1. Employees' State Insurance Corporation, Bombay Regional Office, Colaba Causeway, Bombay 5.
2. Administrative Medical Officer, the Employees' State Insurance Scheme, Maharashtra State, Indian Mercantile Chambers, Ballard Estate, Bombay 1.
3. Administrative Medical Officer, Employees' State Insurance Scheme, Vidarbha Region, Nagpur.

ELECTRIC POWER DEVELOPMENT

Total installed capacity end 1960–61 : 788,500 megawatts.*

Maharashtra State is fortunate in having several power projects—both hydel and thermal-generating over 6,00,000 kW of electricity. The generation and consumption power in Maharashtra is very high, the per capita power generated being about 71·1 kwh in 1956 as compared with 27·1 kwh in the Indian Union as a whole.

As evident from the highly industrial Bombay-Poona area, the bulk of the power generated at present is in that region. Even so there has been a chronic power shortage in this region, where industries are fast growing. To meet this shortage, additional thermal units were installed at Trombay and Chola but the real solution to these problems is the fulfilment of the Koyna project, which is now under construction. This project will not only supply abundant power to the Bombay-Poona region, but will also supply power to south Maharashtra where industries are fast coming up. The Koyna Project is estimated to generate 6,30,000 kW of power on completion.

Below we give a brief account of some power systems in the State.

* On completion of Second Plan schemes in progress : 1,038,500 megawatts.

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TATA PROJECTS

The greatest hydro-electric undertakings in the State are the three schemes developed and brought into operation by Tata Sons, Ltd., and continued under their management until 1929, when they were transferred to the management of the Tata Hydro-Electric Agencies, Ltd., in which Messrs. Tata Sons retain a majority interest. These undertakings are :—

(a) The Tata Hydro-Electric Power Supply Company, Ltd. Supply started in 1915.

(b) The Andhra Valley Power Supply Company, Ltd. Supply started in 1922.

(c) The Tata Power Company, Ltd. Supply started in 1927.

The three Hydro-Electric Companies are interconnected with the 188 MW Chola Steam Station of the Central Railway. Together they are operated as a Hydro-Thermal system under the co-ordinated control of the Hydro Companies.

The three Hydro Companies have constructed a modern Steam Thermal Station of 188 MW capacity at Trombay which is also interconnected to the system.

This station which consists at present of three 62,500 kW units was opened on 15th Dec. 1956. The total installed capacity of the Tata System is 462 M.W. and that of Tata Rly. System is 598 M.W.

The Tata Hydro-Electric System serves an area in Maharashtra State of more than 800 square miles.

It is one of the largest power systems in the country having a fixed capital expenditure in excess of Rs. 33 crores and an annual output representing more than one-sixth of the total electricity production of India.

Electric service is rendered to the textile mills and other industries of Bombay and the suburban areas, to local authorities, and, in bulk for retail distribution, to the electrical undertakings including the State Electricity Board, supplying Greater Bombay, Poona and ten other localities within the area.

The transmission network of the system consists of 582 circuit miles of 100,000-volt overhead lines and 9·4 miles of 100 KV gas filled underground cables and the distribution network of 159 circuit miles of 22,000-volt overhead as well as 109 miles of 22,000-volt and 126 miles of 6,600-volt underground cables. There are also 12 miles of 11,000 volts overhead and 20 miles of 6,600 volts overhead lines.

Substantial additions to the transmission and distribution network are expected to be made during the next few years.

The interconnected transmission lines of the Railway add another 272 circuit miles to form the combined Tata Hydro-Railway Grid.

A new Receiving Station at Carnac Bunder having an installed transformer capacity of 160 MVA was also brought into service in April 1957. This Receiving Station, which is feeding Southern Bombay, has greatly facilitated distribution of power in this area.

A further expansion of its capacity is under way which will increase the transformer capacity to 240 MVA during 1961.

For the year ending March 1960 the system demand was 442 MV including the Railways' own demand.

The sales by Tatas during 1959-60 was 1,939 million units and the purchase of Thermal Energy to supplement Hydro during the year was 54 million units.

Khopoli.—The hydraulic works of the Tata Hydro-Electric Power Supply Company are situated near Lonavla at the top of the Bhor Ghat. The monsoon rainfall is stored in three lakes, namely Lonavla, Walwan and Shirawta, from which it is conveyed in open masonry canals to the Forebay at Khandala and thence through steel pipes to the Power House at Khopoli at the foot of the Ghats, where the head at turbine nozzles is 1,726 feet or approximately 750 lb. per sq. inch. The capacity of the Power Station at Khopoli is 70,000 kW.

This scheme was formally opened by the Governor of Bombay* on the 8th of February 1915.

Bhivpuri.—Investigations in 1917-18 led to the discovery of a site on the Andhra River just to the north of the Tata Hydro-Electric Supply Company's lakes, where additional power could be developed.

These investigations resulted in the formation of the Andhra Valley Power Supply Co. and the construction of the schemes, the principal features of which consist of a reservoir formed by a dam about 190 feet high, across the Andhra River and a tunnel 8,700 feet long driven through solid trap rock to the scarp of the Ghats, from which the water is taken in steel pipes 4,600 feet long to the turbines in the generating station at Bhivpuri. The head of water at turbine nozzles is 1,743 feet or approximately 750 lb. per sq. inch.

The electrical energy is transmitted to Bombay over a transmission line 57·5 miles long for augmenting the supply from Khopoli.

The present capacity of this station is 72,000 kW.

Bhira.—The Tata Power Company's scheme on the Nila-Mula River to the south-east of Bombay was investigated and developed along lines similar to the Andhra Valley scheme and has an installed capacity of 132,000 kW.

The power is transmitted to Bombay over a transmission line 76 miles long and is used to augment the supply of the two earlier companies to mills, factories and towns.

The Trombay Thermal Power Station, the most modern of its kind in India, is situated on a 132-acre land on the south shore of Trombay Island, about seven miles north-east of Bombay. The station consists, at present, of three 62,500 kW units, and the layout permits expansion to an ultimate of four such units. The first two units burn refinery fuel only and unit no. three which was commissioned during 1960 is partly coal fired.

The plant is of semi-outdoor type, designed on the unit system basis with one boiler and one turbine per unit. The radiant type, water tube boilers at Trombay are designed to burn refinery waste gas, oil, and low-grade coal, and each of them is capable of generating steam at a rate of 600,000 lbs./hr. at 1,325 psig and 955°F. The steam from the boiler will be delivered at 1,250 psig and 950°F to a 22 stage, twin cylinder impulse turbine, which exhausts the steam into a single shell two pass condenser at 2½" Hg absolute. The steam in the condenser is cooled by means of sea water pumped from Bombay harbour through a 4,066 ft. long 72" diameter steel pipe which projects approximately 2,000 ft. into the sea from the low water line. The condensed steam is fed back to boiler at 410° F after passing through 5 feed-water heaters.

Each turbine drives a hydrogen cooled 13·8 KV, 50,000/62,500 kW generator, which is connected to the transmission grid through a 80,000 KVA, 13·8/100 KV transformer.

The station was opened on 15th Dec. 1956.

MAHARASHTRA ELECTRICITY BOARD

Position as on 31st March 1960 :

Total installed capacity ..	69,987·5 kW. Steam : 52,500·00 Hydro : 5,824·00 Diesel : 11,663·50
Total number of towns and villages supplied with electricity	533
Total length of Transmission lines 11 KV and above ..	(circuit Km. 4,262·04
Total number of consumers ..	79,548
Total electricity production in 1959-60 (million units) ..	326·00
Total sales in 1959-60 (million units)	265·00
Total expenditure on Electricity Schemes upto 1959-60 (Rs. lakhs)	225·00
Capital Assets on 31st March 1960 (Rs. lakhs)	1,994·00
Gross Revenue in 1959-60 (Rs. lakhs)	273,43
Working expenditure for the year ending 31st March 1960 (Rs. lakhs)	189·55
Total estimated cost of the Schemes under the Second Five Year Plan (Rs. lakhs)	1,900·00
Total estimated Foreign Exchange component required during the period (Rs. lakhs)	560·00
Estimated Capital Expenditure for 1960-61 (Rs. lakhs) ..	877·00

The names of the more outstanding projects with the present installed capacity of each :—

R.H.E.-cum-E.I. Scheme ..	8,569 kW.
Bhatgar Hydro Electric Scheme.	1,024 kW.
Khaperkheda Thermal Scheme.	60,000 kW.
Ballarshah Power House ..	22,500 kW.

Power Projects

Statement showing particulars about power projects in operation in Maharashtra as on March 31, 1960 :

Radhanagari-cum-E. I. Scheme : This has four power houses, (1) Radhanagari Power House. (2) Kolhapur Power House. (3) Vishrambaug Power House (4) Islampur Power House.

The scheme meets the power requirements of areas in Kolhapur, Sangli and Miraj. Installed capacity : 11,045 kW. Units generated : 28·92 min. Units sold : 23·04 min. No. of consumers : 9,690. Total length of transmission lines circuit : 462·5 Circuit Kilometers.

Bhatgar Scheme : Name of power house : Bhatgar. Existing Capacity : 1,024 KW. Units generated during 1959-60 : 3·20 million KWh. No. of Units sold during 1959-60 : 2·92 million KWh. No. of consumers : 1,012. Length of transmission lines : 86·9 circuit kilometers. Expected total capacity by end of 2nd Plan : 1,024 KW.

No. of towns and villages electrified : 5.

Vidarbha Grid Scheme : This has three power houses. (1) Khaperkheda Power House. Existing Capacity : 60,000 KW. Units generated during 1959-60 : 164·08 million KWh.

(2) Ballarshah Power House. Existing capacity: 22,500 KW. Units generated during 1959-60 : 109·64 million KWh.

(3) Paras Power House. Capacity under erection : 30,000 KW. Expected total capacity by end of 2nd Plan : 30,000 KW.

Units sold during 1959-60 : 222·78 mln. KWh. No. of consumers : 42,215. Length of transmission lines 11 kV and above : 3,459·9 circuit kilometers.

* Bilingual.

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Minor Diesel Schemes unconnected to any Grid: There are 19 such schemes. Existing capacity: 5,416·5 KW. Units generated during 1959-60: 6·37 million KWh. Units sold (1959-60): 5·32 million KWh. No. of consumers: 12,724. Length of transmission Lines: 75·8 circuit kilometers. No. of towns and villages electrified: 23.

Minor schemes based on bulk purchase like Ulhasnagar, Pimpri-Talegaon, etc.: Units purchased (1959-60): 13·86 million KWh. Units sold (1959-60): 11·12 million KWh. No. of consumers: 13,907. Length of transmission Lines: 177-3 circuit kilometers.

NEW CONSTRUCTION

The construction of a new 30 MW Steam Station at Paras (near Akola) in Vidarbha area was in progress and was expected to be connected to the Vidarbha Grid in February 1961.

In the Western Maharashtra Region the construction of the 220 KV line from Koyna to Karad and 110 KV lines from Karad to Satara Road, Karad to Vishrambaug and Karad to Pandharpur for the distribution of power from the Koyna Power Station in Western Maharashtra are in progress and the works are so programmed as to commence supply to Satara Road, Karad and Vishrambaug areas simultaneously with the commissioning of the Koyna Power Station in December 1961.

In the Marathwada Region, erection of new diesel power stations at Vaijapur, Deglur and a few other places are in progress.

CHOLA, KOYNA

A brief note each on two other power schemes is in order.

To relieve power shortage in the Bombay-Poona area the power house of the Central Railway at Chola was extended by the installation of three units each with an installed capacity of 18,000 kW. The station was sold to the Central Railway on Feb. 1, 1958. The present capacity is 136,000 kW.

The second scheme is Koyna. It is the biggest scheme in Maharashtra and when complete will double the present installed capacity in the Bombay-Poona region.

The Koyna project provides for the use of the waters of the river Koyna—a tributary of the river Krishna—at Deshmukhwadi near Helwak in North Satara, about 150 miles south of Bombay, for the generation of hydro-electric power.

The entire scheme will be completed in three stages, and 6,30,000 kW of electricity ultimately produced.

The first stage involves the construction of a dam, about 208 ft. high with a storage capacity of 36,045 million c. ft., and a tunnel 21 ft. in diameter and 12,000 ft. long, which diverts the water westward to get a drop of about 1,570 ft.

The power house near Pophali will be located underground with a tail race tunnel 7,200 ft. long, discharging into Vasishti river.

In the first stage, four generating sets of 60,000 kW each will be constructed, with a provision for four additional units of about 75,000 kW in the second stage.

A block of 2,00,000 kW of power will be transmitted to Bombay over a double circuit 220 kV transmission line, and about 40,000 kW to Karad, Pandharpur, Sholapur, Vishrambagh and Satara Road area over 220,110,33 and 11 kV transmission lines. Other places to which power will be supplied are Lonand, Satara, Wai, Panchgani, Mahableshwar, Tasgaon, Kirloskarwadi.

About 60,000 kW of power is expected to be released about the end of 1961. This would be followed by an addition of 60,000 kW every six months to make a total supply of 240,000 kW for the first stage.

The work on the project commenced in January 1954, and has progressed considerably.

The first generating unit is expected to be commissioned and commercial supply started about end of 1961, and the other three units at an interval of 6 months each thereafter.

The total expenditure incurred on the project up to Oct. 1960 is Rs. 20·93 crores, of which Rs. 2·55 crores were spent during the First Plan period.

The first stage of the project will cost approximately Rs. 38·28 crores, including foreign exchange.

The provision for the project in the Second Plan was Rs. 29 crores.

The World Bank has granted a loan of 25 million dollars for the execution of the project. The loan is to be repaid over a period of 20 years starting with May 1965.

There is a separate Board called the Koyna Board which advises the Government. The project is executed by the Irrigation and Power Dept. of the Govt. of Maharashtra.

It is calculated that about 25,000 people living in 80 villages would be affected. By the end of Dec. 1960 about 13,000 had been rehabilitated.

HOUSING

Housing schemes are coordinated by the Urban Development and Public Health Department of the Government. The actual building work and ancillary functions are discharged by the Housing Boards. Finance comes partly from the Government of India and partly from the State.

There are two Boards now, the Maharashtra Housing Board for the Maharashtra area and the Vidarbha Housing Board for Vidarbha. In Marathwada housing is undertaken departmentally.

The following housing schemes are now in operation:—

(1) Subsidised Industrial Housing Scheme; (2) Low Income Group Housing Scheme; (3) Slum Clearance Scheme: (4) Sweepers Housing Scheme; and (5) Other schemes.

Subsidised Industrial Housing Scheme: Till the end of the year 1959-60 progress made under the scheme is as follows:—Tenements completed 18,509; Tenements in progress 2,468; Expenditure incurred Rs. 773·24 lakhs.

Besides, financial assistance is given to co-operative housing societies and even to private employers. Assistance given to Cooperative Societies is 65 per cent loan and 25 per cent subsidy and assistance given to employers is 50 per cent loan and 25 per cent subsidy of the total approved cost. During 1959-60 an amount of Rs. 2,22,000 had been disbursed for construction of 159 tenements under the "Co-operative Sector" and an amount of Rs. 62·54 lakhs had been sanctioned for construction of 1,356 tenements under "Employers' Sector," by the State Govt.

Low Income Group Housing Scheme: The scheme is intended to relieve the housing shortage in the case of persons whose total annual income does not exceed Rs. 6,000. The loan is granted upto 80 per cent. of the estimated cost of construction of a tenement subject to the maximum limit of Rs. 8,000 at rates varying from 4½ to 5½ per cent. per annum. It is repayable by half yearly or annual equated instalments within a period of 10, 20 or 30 years. The person repaying the loan instalments regularly gets a rebate of ½ per cent.

Loans on the above mentioned terms are granted to individuals, cooperative housing societies, local bodies, like municipalities, charitable institutions, etc.

Authorities sanctioning the loans under the scheme are the Urban Development and Public Health Department, Collectors, Registrar of of Cooperative Societies, the Maharashtra Co-operative Housing Finance Society Limited, Vidarbha Housing Board.

For the purpose of individuals who are not in a position to obtain house building sites and construct houses with loans obtained from the Government under this scheme, the Maharashtra Housing Board has been given a loan to construct houses and sell these houses on a hire purchase basis.

The State Governments are authorised to construct houses for rental purposes on no-profit-no-loss basis. Accordingly a programme for the construction of houses in the bigger cities by the Maharashtra Housing Board has been formulated by Government and 546 tenements have now been constructed in Bombay, and a further 568 tenements in Bombay, and 214 at Poona, are under construction.

Progress made under the scheme till the end of 1958-59 is as follows:—Tenements completed: 4,000; Expenditure incurred: Rs. 305·16 lakhs.

By the end of 1960, 17,520 tenements were constructed for industrial workers and about 5,000 tenements were constructed under low income housing schemes.

In addition 184·35 acres of land have been developed in Maharashtra.

Slum Clearance Scheme: Construction of tenements is undertaken through local bodies, the Nagpur Improvement Trust and the Maharashtra Housing Board. Slum Clearance projects have been sanctioned in Bombay, Nagpur, Poona and Ahmednagar. The Government of India have, however, now decided that any further projects should be sanctioned in the Greater Bombay only (unless special justification exists for taking up a project in other places). Government of India have also changed the financial assistance from 50 per cent loan and 25 per cent subsidy to 37½ per cent loan and 37½ per cent subsidy in the case of projects undertaken in Greater Bombay. The balance is to be borne by the State Governments and local bodies.

Projects worth Rs. 527·73 lakhs in Maharashtra State have been sanctioned. While sanctioning the above prjects, the Bombay Government* evolved a novel scheme called Hutment Dwellers Housing Scheme within the overall framework of the Slum Clearance Scheme. The Bombay Government* sanctioned a project for the construction of 5,966 tenements in Greater Bombay to be undertaken by the Bombay Housing Board at an estimated cost of Rs. 208 lakhs. The tenements when ready will be allotted to the hutment dwellers on a monthly rent of Rs. 13 per month per tenement.

Progress so far made under the scheme is as follows:—Approved cost of projects sanctioned: Rs. 527·73 lakhs; No. of tenements and plots sanctioned: 12,096 tenements and 1,228 plots.

Sweepers Housing Scheme: The State Govt. has formulated a scheme to provide residential houses to the sweeper employees of various local bodies in the State. Financial assistance in the form of loan and subsidy is available to the various agencies mentioned in the above scheme for the construction of houses, for the sweeper employees of the local boards, the loan amount being two-thirds and subsidy upto one-third respectively of the approved cost depending upon the constructing agency concerned.

* Bilingual.

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Housing for displaced persons : The details of construction of tenements, shops and school buildings for displaced persons undertaken by Government are as under :—Residential Units—Completed : 29,025 ; Under construction 288 ; Shops completed : 1,902 ; Completed Schools: 10 ; Schools under Construction : 2.

Other schemes : Besides the Slum Clearance Scheme of the Government of India, loans and subsidies are also given to local bodies for their slum clearance projects not covered by the above-mentioned Government of India Scheme, for constructing houses in flood affected areas within their jurisdiction.

Loans are given to Bombay Housing Board for the construction of tenements in Bombay City for housing persons dishoused as a result of natural calamities such as house collapse, fire, explosion etc.

Loans and subsidies are also advanced to Backward Class cooperative housing societies and the Backward Class cooperative housing scheme.

Projects for acquisition and development of land estimated to cost Rs. 290 lakhs framed by the Maharashtra Housing Board have been sanctioned under the Land Acquisition and Development Scheme recently sponsored by the Government of India. The land so developed is to be made available for construction of houses on no-profit-no-loss basis.

It was also proposed to undertake construction of 336 tenements at an estimated cost of Rs. 55 lakhs in the Second Five Year Plan on hire purchase and rental deposit basis for middle income group people, *i.e.* whose annual income is between Rs. 6,000 and Rs. 12,000 in Bombay.

Bombay City :

In Bombay city itself it might be pointed out there are about 140 slum areas housing nearly half the city's population.

There are about 200,000 single-room tenements which house about 1,200,000 persons.

About 20,000 to 55,000 residential buildings are over 60 years old. About 9,000 of these accommodate as many as 500,000 persons.

The accommodation is enough for about 28-lakh persons. There is thus a shortage of 3 lakh tenements. The minimum cost of building these is about Rs. 180 crores.

ROAD TRANSPORT

The position of Maharashtra State Transport for 1959-60 is given below. The first figure represents Bombay State Road Transport Corporation, the second, Provincial Transport Services, Nagpur and the third Marathwada State Transport respectively.

No. of passengers carried (in lakhs): 11,73·02; 158·32 and 116·73 ; Capital invested (Rs. lakhs): 11,00·00 ; 1,63·85 and 1,82·39 ; Total gross revenue (Rs. lakhs): N.A. ; 89·15 and 1,28·10 ; Total revenue expenditure (Rs. lakhs) N.A. ; 78·30 and 86·36.

The operational data of Maharashtra State and Road Transport Corporation as on March 31, 1960 :

No. of passenger vehicles : 1,870 ; no. of goods vehicles : 163 ; no. of routes operated : 1,356 ; route mileage : 43,148 ; major workshops : one Central, eight divisional and 69 depot and sub-depot workshops ; No. of persons employed : 13,353 ; No. of nationalised city bus services : nine ; No. of municipalised city bus services : three ; rate per passenger mile : 5 nP ; total bus miles operated : 561,09,000 ; total no. of passengers carried : 11,73,02,000 ; no. of bus stations : 24 ; Temporary stations 106 ; no. of refreshment rooms : 133 ; no. of cloak rooms : 25 ; Pick-up stands : 100.

The operational data of Nagpur and Marathwada transport understakings as on March 31, 1960 are given below. The first figure for Nagpur and second for Marathwada respectively.

Capital invested (tentative): Rs. 163·85 lakhs; Rs. 182·39 lakhs ; No. of passenger vehicles owned : 256 ; 290 ; No. of goods vehicles owned: 5; 11.

No. of nationalised City Bus Services : 1 ; 2 ; Rate per passenger mile : Nagpur (based on mileage slab system) between 3 nP. and 5 nP. ; 5 nP. ; Route mileage operated : 2,821 ; 6,270 ; Total no. of routes operated : 94 ; 121 ; No. of persons employed : 1,870 ; 1,240 ; Total gross mileage operated : 77·64 lakhs ; 81·86 lakhs ; No. of passengers : 158·32 lakhs ; 116·73 lakhs ; Total revenue : Rs. 89·15 lakhs ; Rs. 128·10 lakhs ; cost on staff per bus mile in nP. 33·47 ; 22·22 ; Expenses per bus mile in nP. 101·24 ; 107·37 ; Bus Stations (Pucca) : 3 ; 1 ; Bus stations (temporary) : 8 ; 6 Sheds : 5 ; 40 ; Canteens : 10 ; 6 ; Waiting rooms : 24 ; 2 ; Water arrangements : 20 ; 5.

A single road transport corporation for the entire State, known as the Maharashtra State Road Transport Corporation, came into existence from July 1, 1961.

The Provincial Transport Services of Vidarbha and the State Transport of Marathwada have been merged with the Bombay State Road Transport Corporation to form a unified body for Maharashtra.

Mr. R. G. Saraiya, Chairman of the B.S.R.T. Corporation, is the Chairman of the enlarged organisation.

AAREY MILK COLONY, 1960

Started : March 1949.

Figures as on December 31, 1960 :—

Area : 3,167 acres.

Investments by the Government at Aarey : About Rs. 4 crores ; by licencees at Aarey in cattle : About Rs. 1·5 crores ; by Kaira District Co-operative Union, Anand : About Rs. 40 lakhs.

Number of dairy farm units at Aarey : 30.

Number of buffaloes and other stock : 17,500 (including calves) (Aug. 1958).

Total quantity of milk per day from Aarey : 2,492 maunds.

Total quantity of milk per day from Anand : 1,200 mds.

Number of milk distribution centres in Greater Bombay : 1,065.

Total number of consumers taking milk from Scheme : 15,00,000.

Quantity of toned milk distributed to school children in Bombay city per day : 43,100 (6 oz.) bottles.

Value of milk distributed per annum : Bombay—about Rs. 6,30,00,000 ; Anand—about Rs. 90 lakhs.

Number of bottles filled daily at the colony : 4,06,000.

Total quantity of whole milk sold per day : 2,767 maunds.

Total quantity of toned milk sold per day : 2,217 maunds.

Government employees working in the scheme : 5,500.

Private employees of the cattle-owners : 2,900.

Sale price of whole milk per seer : 96 nP.

Sale price of toned milk per seer : 48 nP.

Sale price of whole loose milk per seer : 88 nP.

Sale price of Sterilized milk bottle of 200 c.c. : 25 nP.

Milk storage capacity at Aarey : In insulated tanks 24,000 gallons ; in bottles (cold store) 11,500 gallons.

Construction work on the second milk colony at Worli was started in the first week of May 1960. This UNICEF aided Rs. 3 crore project will take three years for completion and is expected to start production at the end of 1961. This project will handle about 7,500 mds. of milk per day.

The Government of Maharashtra has fomulated a Rs. 2-crore scheme for setting up a milk colony at Dabchari village in Dahanu Taluka, during the Third Plan. 2,000 maunds of milk, proposed to be produced at the colony every day would be brought to the Worli Dairy in tankers for processing and distribution in Greater Bombay.

About 10,000 head of milch cattle, 7,000 dry and 5,000 young animals would be removed from Bombay to be accommodated in the colony.

LABOUR

Particulars about labour in Maharashtra State are given below :

Total number of registered Factories as on June 30, 1960 : 8,684.

Number of Workers Committees functioning as on Nov. 30, 1960 : 155.

Average daily number of workers employed in factories from 1st Jan. 1960 to 30th June 1960 : 7,18,851.

Number of towns covered as on Nov. 30, 1960 by the :

Bombay Shops & Establishments Act : 55 (Municipal areas).

Central Provinces & Berar Shops and Establishments Act : 21.

Hyderabad Shops & Establishments Act : 15.

Number of industries covered by the Bombay Industrial Relations Act, 1946 : (as on Nov. 30, 1960) : 10.

Number of workers covered by the Bombay Industrial Relations Act, 1946 (as on Nov. 30, 1960) : 3,17,845.

Number of registered trade unions in the State: (March 30, 1960) : 1,359.

Total membership of registered trade unions: 9,65,638.

Number of regd. trade unions affiliated to I.N.T.U.C. : 104.

Membership of unions affiliated to I.N.T.U.C.: 1,40,621.

Number of regd. trade unions affiliated to A.I.T.U.C. : 61.

Membership of unions affiliated to A.I.T.U.C. : 43,603.

Number of regd. trade unions affiliated to H.M.S.: 54.

Membership of unions affiliated to H.M.S. : 64,210.

The number of welfare centres under the control of Maharashtra Labour Welfare Board : 39 ; Welfare Centres in Vidarbha Region 22 (17 multipurpose institutions and 5 welfare centres); Welfare centres in Marathwada Region 8.

Attendance at these centres as on Nov. 30, 1960 : 1. Vidarbha Region 76,230 ; 2. Marathwada Region 49,500.

Average annual attendance of Welfare Centres under Maharashtra Labour Welfare Board from figures of 1957-58 and 1958-59 : 1,78,83,295.

Official Language : Legislation declaring Marathi as the official language of the State is being framed. A new department the Directorate of Language has been created.

Decentralisation of Administration : The report of the Decentralization of Power Committee aiming at the establishment of Panchayat Raj in the State was presented to the Legislation during the budget session. Draft legislation giving effect to the recommendations of the Committee is under preparation (May 1961).

BUDGET 1961-62

See "State Budgets" in "*Late Particulars*".

MAHARASHTRA MYSORE BORDER

(See under "*Late Particulars*").

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SECOND PLAN

The Plan allotments and the budget allotments for 1960-61 are shown below :—

Rs. lakhs.

	Plan 1956-61	Provision 1960-61
Agriculture and Community Development		
Agricultural Production	6,04·92	2,58·81
Land Development	1,82·42	83·09
Minor Irrigation	4,63·61	2,83·25
Warehousing and Marketing	1,73·78	52·79
Animal Husbandry	1,74·74	62·87
Dairying and Milk Supply	4,07·97	66·17
Forests	1,60·49	40·17
Soil Conservation	2,80·55	2,14·46
Fisheries	52·04	35·15
Community Development, N.E.S. Local Development Works and Rural Development	—	—
Co-operation	22,46·74	6,31·81
Miscellaneous	3,12·32	1,44·13
Total	16·17	9·49
	50,75·75	18,82·19
Irrigation and Power		
Multi-purpose Projects	39,09·70	9,06·58
Major and Medium Irrigation Projects	30,82·16	6,81·40
Power Projects and Miscellaneous	9,11·35	7,34·01
Total Irrigation and Power	79,03·21	23,21·99
Industry and Mining	8,38·32	1,42·95
Transport and Communications		
Road Development	10,42·65	4,37·94
Road Transport	1,67·27	48·50
Ports and Harbours	33·42	70·54
Total	12,43·34	5,56·98
Social Services		
Education	13,92·27	4,43·30
Health	17,99·17	4,35·74
Housing	11,49·02	5,91·36
Other Social Services		
Labour and Labour Welfare	1,34·85	54·00
Welfare of Backward Classes	2,18·95	1,31·61
Social Welfare	92·58	33·89
Total	47,86·84	16,89·90
Scientific and Industrial Research	5,93·32	74·88
Grand Total	20,440·78	66,68·89

Third Five Year Plan : The total outlay will be of the order of Rs. 515 crores. The size of the Plan which was finalised by the State Cabinet in June was Rs. 390 crores. But with the complimentary outlays by other agencies, totalling Rs. 125 crores, the total investment on Plan projects would amount to Rs. 515 crores. The outlay of Rs. 390 crores is 90·79 per cent more than during the Second Plan and the per capita outlay works out at Rs. 98·72.

State-level Schemes : Of the Rs. 390 crores, Rs. 207·54 are allocated to Western Maharashtra, Rs. 86·63 crores to Vidarbha and Rs. 61·26 crores to Marathwada, while the remaining Rs. 35 crores represent the outlay on State-level schemes, common to the three regions. The per capita outlay in western Maharashtra, Vidarbha and Marathwada works out at Rs. 86·46, Rs. 96·34 and Rs. 97·33 respectively.

Besides completing the projects undertaken under the Second Plan with an estimated expenditure of Rs. 50·34 crores, the following new major irrigation projects are proposed to be undertaken during the IIIrd Plan.

Western Maharashtra : The Karanjwan Project Rs. 196 lakhs; Upper Tapi popularly known as Hatnoor Project (first stage) Rs. 50 lakhs; Kol River Project Rs. 50 lakhs; Koyna Irrigation Project (second stage) Rs. 275 lakhs; Bhima Lift Irrigation Project (first stage) Rs. 78 lakhs; Kukdi Project (first stage) Rs. 25 lakhs; Khadakvasla Project (second stage) Rs. 25 lakhs; Panzra Project Rs. 25 lakhs; Tulsi Project Rs. 25 lakhs.

Vidarbha : Irrigation Projects : Chandrabhaga Rs. 60 lakhs; Poorna-Aruna Rs. 60 lakhs; Poos Rs. 137 lakhs; Upper Wardha Rs. 25 lakhs.

Marathwada : Irrigation Projects : Kayadhu Rs. 20 lakhs; Manar (second stage) Rs. 40 lakhs; Jayakwadi (first stage) Rs. one crore. Over Rs. 300 lakhs would be spent on education alone.

GREATER BOMBAY

The area of Greater Bombay would be about 176 sq. miles and the population about 4,146,491 (1961 Census).

The area of Bombay City is 26 sq. miles and the area of the Bombay Suburban District is about 150 sq. miles. For population see under "Late particulars".

The northern boundary runs from the north of Dahisar village in the west, in the centre between the mile stones 21 and 22 on the Agra Road, and in the east north of Mulund Municipality.

The municipal area of Greater Bombay described above is also the area covered by Bombay City and the Bombay Suburban District from the point of view of revenue division.

The Collector for Bombay City is also the Collector for the Bombay Suburban District. Bombay City Collectorate is directly under the Government and is governed in accordance with the provisions of the Bombay City Land Revenue Act of 1876.

The Bombay Suburban District has besides the Collector, one Additional Collector, one District Deputy Collector, one Additional District Deputy Collector and two Mamlatdars one for each of the Talukas Andheri (also called South Salsette) with headquarters in Andheri, and Borivli with headquarters in Borivli. The headquarters of the Additional District Deputy Collector is at Andheri. There is also an Additional Mamlatdar (Tenancy) for the Borivli Taluka with his headquarters at Borivli.

There are 31 Presidency Magistrates Courts, ten Police Divisions and 35 (including 5 Suburban) police stations.

AGRICULTURE

In Bombay Island proper though about 8 sq. miles of unbuilt and undeveloped land is available there is practically no agriculture. Vegetables, flowers and fruit are grown in private gardens and Wadis but on a very negligible scale. In the newly merged areas and the adjoining suburbs, however, extensive paddy cultivation is carried on. Vegetables and fruit are also grown especially during the monsoon. The produce is largely marketed in Bombay.

COMMERCE AND INDUSTRY

Commercially and industrially Bombay is the second, if not the first City in India. It is the principal centre of the cotton textile industry (63 cotton mills with 61,694 looms and 3,154,435 spindles). Its share in looms and spindles is 30·85 per cent and 23·04 per cent respectively of the total in the country. There are over 330 textile factories including silk, woollen and hosiery; over 800 engineering undertakings; over 200 establishments manufacturing articles of food, drink and tobacco; over 220 establishments producing chemicals, etc.; 50 hides and skins processing concerns, and over 2,500 factories of a miscellaneous character.

On the total it is reckoned that there are 1,350 factories employing under 20 workers; 1,000 factories employing between 20 and 50 workers; about 750 employing between 50 and 500; and 116 employing between 500 and 5,000 workers.

Of the population it is reckoned that 260,000 are in public employment; 445,000 in organized industry; 340,000 in commercial business; 150,000 in establishments that come under the Shops and Establishment Acts.

After Calcutta, Bombay is the biggest financial centre in India. The Stock Exchange, Bullion Exchange and Cotton Exchange regulate trading in stocks and shares of a wide circle of industrial undertakings. The Reserve Bank of India, the central banking and currency authority has its headquarters in Bombay. Thirty-two Indian Scheduled Banks operate in Bombay. Of these five have their

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headquarters here. There are 15 foreign Scheduled Banks. Of these seven have their principal offices located in Bombay. The head office of the Life Insurance Corporation of India is also located in Bombay.

Being the best natural harbour in India, the trade carried through Bombay is about 46 per cent of the total trade of India. The principal items of import are bricks, cement, sand, etc.; China clay; coal; cotton; glassware; grain; hardware; iron and steel; kerosene; fuel oil; motor vehicle parts; machinery; boilers and railway materials; oilman stores; oils; vegetables, etc.; paper; piece-goods; petrol; sugar; timber; twist and yarn; Government and naval and military stores.

The main exports are coal; cotton; flour; groundnuts; hemp; hides and skins; kerosene and fuel oils; manganese ore; myrobalans; oil-cake; piece-goods; seeds; spices; sugar; wool packages; twist and yarn; Government and naval and military stores.

The total returns to the Central Government from Greater Bombay in customs revenue is about 46 per cent of the total revenue from the seaborne trade of India. The income-tax return to the Central Government from Greater Bombay is about 30 per cent of the total income from the country. The Corporation Tax amounts to about 20 per cent of the total income from this source.

COMMUNICATIONS

From the communications point of view Bombay holds a unique position. There are numerous air routes connecting Bombay with the rest of the country, and it is also directly linked with foreign countries aerially. The head offices of two chief railway systems, the Central and Western Railways are in Bombay which is rail linked with Calcutta, Delhi, Nagpur and Madras. It is the second biggest port and the chief sea communications centre of India. Greater Bombay's transport requirements are met by the local services of the two railways, Central and Western, besides the tram and bus services of the municipalised Bombay Electric Supply and Transport Undertaking.

HOUSING

Statement showing the number of tenements constructed by the Housing Board from April 1, 1947 to March 31, 1961 under the respective groups: Old industrial housing scheme 2,536; old low income group housing scheme 2,075; military hutments 1,575; subsidised industrial housing scheme 14,062; rehabilitation works 3,632; new low income group housing scheme 1,740; slum clearance scheme 3,000; land and development 578 acres. Total expenditure incurred during the above period for the whole State Rs. 2,212·39 lakhs.

Total number of households: 568,862.

22,695 households were examined in a sample survey. The number of persons living in them was 107,282—66,530 males and 40,752 were females.

Out of these households, the number of small households (3 members and less) was 9,110, and the number of persons living in them was 18,518; of medium households (4 to 6 members) 8,238, and the number of persons 39,699; of large households (7 to 9 members) 3,656, and the number of persons 28,454; of very large households (10 and above) 1,691, and the number of persons 20,611.

Beggars: It is reckoned that there are about 15,000 beggars in Greater Bombay. Money spent on charity is about Rs. 36 lakhs a year. Government runs about 15 homes under the Beggar Act with accommodation for about 3,000 inmates. Actually the number living at any time is much more than that. There are eight private institutions with accommodation for about 600 beggars.

DISTRICTS AND TALUKS IN MAHARASHTRA

Districts with areas in sq. miles showing within brackets the names and area in square miles respectively of talukas in each District:

Ahmednagar: 6,591 (Ahmednagar 585; Akola 575; Jamkhed 337; Karjat 560; Kopargaon 403; Newasa 480; Parner 690; Pathardi 425; Rathuri 419; Sangamner 625; Sheogaon 436; Shrigonda 618; Shrirampur 319).

Akola: 4,095 (Akola 739; Akot 550; Balapur 530; Mangrulpir 616; Murtajapur 610; Washin 1,046).

Amravati: 4,723 (Achalapur 490; Amravati 833; Chandur 694; Daryapur 505; Melghat 1,546; Morsi 623).

Aurangabad: 6,314 (Ambad 874; Aurangabad 666; Bhokardan 490; Gangapur 511; Jafferabad 321; Jalna 771; Kannad N.A.; Khuldabad 175; Paithan 576; Sillod N.A.; Seogaon N.A.; Vaijapur 623).

Bhandara: 3,582 (Bhandara 967; Gondia 1,105; Sakoli 1,551).

Bhir: 4,261 (Ashti 581; Bhir 582; Georai 618; Kaij 692; Manjlegaon 595; Mominabad 639; Patoda 510).

Buldana: 3,751 (Chikhlai 924; Jalgaon 474; Kamgaon 710; Malkapur 651; Mehkar 1,007).

Chanda: 9,200 (Brahmapuri 897; Chanda 1,174; Gadhchiroli 2,870; Rajura 776; Sironcha 3,089; Warora 1,282).

Dhulia: 5,072 (Akkalkuwa 672; Akrani 232; Dhulia 751; Nandurbar 507; Nawapur 422; Sakri 926; Sahada 447; Shirpur 756; Sindkheda 494; Taloda 198).

Greater Bombay: 186 (Andheri 66; Bombay City 25; Borivli 98).

Jalgaon: 4,575 (Amalner 325; Bhadgaon 197; Bhusaval 329; Chalisgaon 460; Chopda 368; Edlabad 250; Erandol 369; Jalgaon 320; Jamner 521; Pachora 309; Parola 292; Raver 361; Yawal 368).

Kolaba: 2,723 (Alibag 196; Karjat 242; Khalapur 157; Mahabad 271; Mangaon 363; Mhasla 134; Murud 133; Panvel 215; Pen 200; Poladpur 188; Roha 272; Shrivardhan 104; Sudhagad; Uran 75).

Kolhapur: 3,205 (Ajra 205; Bhavada 261; Bhudargad 253; Gadhinglaj 192; Hatkanangale 235; Kagal 212; Karvir 262; Panhala 218; Radhanagari 345; Shahuwadi 407; Shirol 204; Chandgad 394).

Nagpur: 3,842 (Kalol 614; Nagpur 811; Ramtek 897; Saoner 543; Umrer 969).

Nanded: 4,805 (Biloli N.A.; Bhoker 399; Deghur N.A.; Hadgaon 601; Kandhar 629; Kinawat N.A.; Mukhed 338; Nanded 395).

Nasik: 6,021 (Baglan 629; Chandor 370; Dindori 496; Igatpuri 377; Kalwan 431; Malegaon 754; Nandgaon 431; Nasik 525; Niphad 417; Peint 342; Sinnar 517; Surgana 316; Yeola 409).

Osmanabad: 5,532 (Ahmedpur 609; Bhoom 339; Kalam 474; Latur 420; Nilanga 536; Omerga 576; Osmanabad 445; Owsa 468; Parenda 406; Tuljapur 605; Udgir 632).

Parbhani: 4,853 (Basmath 482; Gangakhed 630; Hingoli 730; Jintur 669; Kalamnuri 583; Parbhani 547; Partur 588; Pathri 618).

Poona: 6,032 (Ambegaon 402; Baramati 540; Bhor 325; Dhond 516; Haveli 515; Indapur 586; Junnar 533; Khed 539; Maval 414; Mulshi 353; Poona City 68; Purandhar 426; Sirur 611; Vele 196).

Ratnagiri: 5,013 (Chiplun 434; Dapoli 327; Deogad 284; Guhagar 242; Kankavli 299; Khed 386; Kudal 317; Lanja 283; Malvan 256; Mandangad 160; Rajapur 496; Ratnagiri 358; Sangameshwar 499; Sawantwadi 516; Vengurla 127).

Sangli: 3,297 (Jath 874; Khanapur 846; Miraj 611; Shirala 246; Tasgaon 446; Walwa 300).

Satara: 4,041 (Jaoli 345; Karad 406; Khandala 203; Khatav 509; Koregaon 365; Mahableshwar 87; Man 556; Patan 514; Phaltan 456; Satara 353; Wai 229).

Sholapur: 5,811 (Akalkot 537; Barsi 628; Karmala 622; Madha 597; Malsiras 588; Mangadwedha 441; Mohol 550; North Sholapur 284; Pandharpur 498; Shangola 610; South Sholapur 462).

Thana 3,683 (Bassein 203; Bhivandi 264; Dhahanu 372; Jawhar 310; Kalyan 279; Mohada 242; Murbad 347; Palghar 422; Shahpur 635; Thana 84; Wada 284).

Wardha: 2,429 (Arvi 890; Hinganghat 729; Wardha 815).

Yeotmal: 5,240 (Darwha 1,078; Kelapur 1,086; Pusad 1,285; Wani 862; Yeotmal 908).

IRRIGATION

Total area irrigated: 22·62 lakh acres.

Below are given particulars about projects in operation.

Bhatghar Dam and Nira Canals:—on Bhatghar, Poona Dt. Completed in 1938, irrigates 1,55,482 acres in Poona, Sholapur and Satara Dts. The cost of the scheme is Rs. 6·96 crores.

Khadakwasla Dam and Mutha Canals System:—on Khadakwasla in Poona Dt. Completed in 1897, irrigates 11,469 acres in Poona. Cost of scheme Rs. 70·42 lakhs.

Bhandardara Dam and Pravara Canals System:—on Bhandardara in Ahmednagar Dt. Completed in 1926, irrigates 65,912 acres in Ahmednagar. Cost Rs. 1·57 crores.

Darana Dam and Godavari Canals System:—at Darana in Nasik Dt. Completed in 1916, irrigates 69,117 acres in Ahmednagar and Nasik Dts. Cost Rs. 3·43 crores.

Chankapur Tank and Girnal Canals:—at Chankapur in Dt. Nasik. Completed in 1910, irrigates 10,348 acres in Nasik. Cost Rs. 20·31 lakhs.

Gangapur Dam:—at Gangapur in Nasik Dt. Stage I would be completed in 1961-62, would irrigate 45,000 acres in Nasik. Cost Rs. 3·96 crores. Stage II would be completed in 1962-63, would irrigate 19,000 acres in Nasik. Cost Rs. 94·61 lakhs. Out of the total estimated cost of the project a sum of Rs. 3·54 crores was spent till March 1960.

N.A. = Not available.

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The following table shows particulars about some of the bigger projects under construction.

Project.	Location.	When started.	Date of completion.	Area to be irrigated. (Acres).	District benefited.	Estimated cost. Rs. in lakhs.	Amount spent upto 31-3-60. Rs. in lakhs.
Vir.	Vir, Taluka Purandar, Dt. Poona.	1956	1964-65	66,000	Satara and Sholapur.	541·00	113·30
Khadakwasla.	Panset and Warasgaon in Vehle Mahal, Dt. Poona.	1956	June 1963	42,000	Poona.	1,054·59	209·03
Warna.	Chandoli, Taluka Shirala, Dt. Sangli.	1956	In Third Plan.	20,000	Kolhapur and Sangli.	163·25	5·56
Kurnoor.	Dahitna Village, Taluka Tuljapur, Dt. Osmanabad.	Not started.	In Third Plan.	15,000	Sholapur and Osmanabad	164·68	7·10
Ghod.	Chinchani, Taluka Sirur, Dt. Poona.	April 1954.	1963-64	60,200	Ahmednagar and Poona.	485·00	370·97
Girna.	Panzan, Taluka Nandgaon, Dt. Nasik.	1956	June, 1964.	1,42,870	Jalgaon.	864·88	196·00
Mula.	Baregaon Mandur, Dt. Ahmednagar.	1956	Not finalised.	1,62,350	Ahmednagar.	912·00†	122·13
Karwand.	Pimparala Village, Taluka Sirpur, Dt. Dhulia.	Not started.	In Third Plan.	11,200	Dhulia.	127·32	18·15
Bor.	Bori Taluka, Dt. Wardha.	1956	1963-64	26,250	Wardha.	212·00	64·03
Nalganga.	Sanglad Khurd and Budruk, Taluka Malkapur, Dt. Buldana.	1956	1963-64	24,500	Buldana.	201·32	57·78
Katepurna.	Vastipur village, Taluka and Dt. Akola.	1958	1965-66	24,000	Akola.	228·13	11·17
Bagh.	Sirpur Village, Taluka Gondia, Dt. Bhandara.	1958	In Fourth Plan	60,000	Bhandara.	609·77	25·77@
Dina.	Regree village, Taluka Gadchiroli, Dt. Chanda.	1958	1965-66	30,500	Chanda.	244·00	12·69
Itiadoh.	Gothangaon village, Taluka Sakoli, Dt. Bhandara.	1958	In Fourth Plan	74,500	Bhandara and Chanda.	692·02	25·77@
Purna.	Sidheshwar, Taluka Hingoli, Yeldari, Taluka Jintur, Dt. Parbhani.	1955	1965-66	1,52,000	Parbhani and Nanded.	1,305·00	243·32
Manar.	Warwant, Taluka Kandhar, Dt. Nanded.	1959	1965-66	25,000	Nanded.	179·58	20·94

MEDIUM AND MINOR PROJECTS

The medium and minor irrigation projects also play a very important part in the development of the State.

In the First Plan, 16 medium projects were started. Another 16 projects had been taken up in the Second Plan. Rs. 38 crores were provided in the Second Plan for these spill-over and new works. It is expected that when completed and fully developed, these schemes will bring an additional area of 12,34,691 acres under irrigation. In the First Plan, 336 minor irrigation works were completed at a cost of Rs. 81·92 lakhs. These works have brought an additional area of 64,700 acres under irrigation. In the Second Plan, as many as 132 minor irrigation works including a few spill-over projects from the First Plan have been completed creating an additional irrigation potential of 84,020 acres. By the end of Second Plan it was expected an additional irrigation potential of 3,13,000 acres would be created.

Schemes for the expansion of well irrigation, supply of rahats, oil engines and pumping sets, electrical motors have been included in the Plan. The schemes for the grant of *taccavi* loans in force in different parts of the State were integrated into one unified scheme, which was introduced in 1957-58. Under this scheme loans up to the maximum of Rs. 2,500 are granted for construction of a new well and Rs. 1,000 for repairs to an old one. In addition to the loans advanced by Government, land mortgage banks also give loans for this purpose.

† The project is under revision.
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THE GREATER BOMBAY CORPORATION

THE municipal area of Greater Bombay is now divided into 15 administrative wards. These are A, B, C, D, E, F, G, H, K, L, M, N, P, R, and T.

For election purposes the municipal area of Greater Bombay is divided into 44 electoral wards—and are numbered 1 to 44.

From a demarcation point of view one or more electoral wards would go to make one administrative ward.

Total no. of seats : 131.

The administrative ward, the electoral ward, the area covered by the electoral ward, and the number of seats allotted to it are given below :

Administrative	Electoral	Area	Seats
A	1	Colaba	2
A	2	Fort	2
A	3	Bori Bunder	3
C	4	Mandvi	2
B	5	Dongri	2
B	6	Umerkhadi	3
C	7	Kharatalao	3
B & C	8	Kumbharwada	3
C	9	Markets	3
C	10	Dhobi Talao	3
C	11	Fanaswadi	3
C & D	12	Girgaum	3
D	13	Khetwadi	3
D	14	Walkeshwar	3
D	15	Mahalaxmi	3
D	16	Tardeo	3
E	17	Kamathipura	2
E	18	Nagpada	2
E	19	Mazgaon	3
E	20	Byculla West	4
E	21	Byculla East	3
E	22	Ghorupdeo	2
E & F	23	Sewri	3
F	24	Lalbaug	2
E & F	25	Parel	2
F	26	Naigaum	5
F	27	Matunga	2
F	28	Sion	3
	29	Love Grove	4
G	30	Lower Parel	3
G	31	Worli	4
G	32	Prabhadevi	4
G	33	Dadar	4
G	34	Mahim	5
H	35	Bandra East	4
H	36	Bandra West	3
K	37	Andheri Vile Parle (South)	3
K	38	Andheri Vile Parle (North)	4
L	39	Kurla	3
M	40	Chembur	2
N	41	Ghatkopar	3
P	42	Malad-Goregaon	3
R	43	Borivli-Kandivli	3
T	44	Mulund, Tulshi and Vihar Lake area	1

The municipal government of Greater Bombay vests in the Municipal Corporation, composed of 131 representatives elected on adult franchise.

The Corporation has four statutory committees, the Standing Committee, the Improvements Committee, the Bombay Electric Supply and Transport Committee and the Education Committee.

The executive power in regard to general municipal administration vests in the Municipal Commissioner. The administration of the B.E.S.T. Undertaking, however, vests in the General Manager, B.E.S.T.

The Corporation is required to meet at least once a month. In actual practice it meets twice a week and oftener if necessary. Meetings of the Corporation are presided over by the Mayor who also convenes the meetings. The Mayor's term of office is one year and he is elected at the first meeting in April.

COMMITTEES

The Standing Committee consists of 17 members, 16 of whom are elected by the Corporation. The Chairman of the Education Committee serves as an additional member. Half the members retire at the end of each year. The Chairman is elected by the members of the Committee at the first meeting in April every year. The main functions of the Committee are to sanction contracts, to scrutinize the budget and establishment schedule, frame service regulations, sanction investment of funds, prescribe the form of keeping accounts and conduct their scrutiny. The Committee meets once every week, usually on Wednesdays.

The Improvements Committee consists of 16 Councillors, all of whom are elected by the Corporation. The Chairman is elected for a term of one year, while half the Councillors retire at the end of each year. The Committee is charged with all improvement and development schemes, slum clearance, providing accommodation for the poorer classes and purchase and sale of land which does not exceed Rs. 50,000. The Committee usually meets once a fortnight on Tuesdays.

The Bombay Electric Supply and Transport Committee consists of nine members, one of whom is the Chairman of the Standing Committee (ex-Officio), while the remaining members are appointed by the Corporation from among persons who (may or may not be members of the Corporation) have experience of administration, transport or electric supply, or of engineering, industrial, commercial, financial or labour matters. The Chairman is appointed by the members for a period of one year, while half the members retire every second year. The Committee usually meets every Friday ; and the Chairman and members are paid a fee for attending the meetings. The Committee exercises general control over the electric supply and transport undertakings of the Corporation.

The Education Committee consists of 16 members, of whom 12 are Councillors and 4 non-Councillors of whom two have to be women. The Chairman of the Committee is elected for a period of one year, while half the members retire at the end of each year. The Committee usually meets on the first Friday of every month. The main function of the Committee is to administer the Primary Education Act or any other law for that purpose for the time being in force.

Besides the Statutory Committees mentioned above there are four Special Committees appointed by the Corporation. These are : 1. the Works Committee, 2. the Medical Relief and Public Health Committee, 3. Markets and Gardens Committee, and 4. Law, Revenue and General Purposes Committee. Each Committee consists of 24 Councillors appointed by the Corporation after each general election. There are a Chairman and a Deputy Chairman for each Committee who are elected by the members and who hold office for one year. All questions that are due to go before the Corporation must first be considered by the appropriate Special Committee which then makes its recommendations to the Corporation.

Then there are a number of *ad hoc* Consultative Committees appointed from year to year, to which the Corporation can refer any matter for consideration and report.

The four most important officers of the Corporation are the Municipal Commissioner, the General Manager of the Undertaking, the Municipal Secretary and the Municipal Chief Auditor.

The Municipal Commissioner is at the head of the Executive. He is usually a senior member of the Indian Civil Service and is appointed by the Government for a renewable period of three years. He can be removed by the Corporation by a five-eighths vote. If however Government desire to revert him to their service the consent of the Corporation is necessary. He attends meetings of the Corporation and Committees but does not vote. He is assisted by three Deputy Municipal Commissioners with one Assistant Commissioner.

The General Manager of the Undertaking is in the same position to the Electric Supply and Transport Undertaking as the Municipal Commissioner is to the Corporation as a whole He is appointed by the Corporation subject to the approval of the State Government for a renewable period of not more than five years at a time. He can be removed by the votes of not less than half the total number of Councillors. He attends the meetings of the B.E.S.T. Committee and takes part in the discussions but does not vote.

The Municipal Secretary is in charge of all the secretarial work pertaining to the Corporation and its Committees. He is independent of the Commissioner and is directly under the Standing Committee.

The Municipal Chief Auditor is also independent of the Commissioner and is directly under the Standing Committee.

EDUCATION AND MEDICAL RELIEF

Primary education is free and compulsory in the Lower Primary standards of Municipal Schools all over Greater Bombay. It is the special responsibility of the Corporation.

But only about 85 children out of 100 receive an education.

From 1958 the benefit of free education has been extended to the upper primary classes too.

There were on March 31, 1960, 569 Municipal Schools and 110 Classes conducted by the Education Committee and 410 Aided or Recognised Schools to which the Corporation makes grants or gives recognition. The total number of pupils in all Primary Schools was 4,28,780 out of whom 3,16,105 were in Municipal Schools and the rest in other Schools. The Corporation spent Rs. 2,25,41,756·68 on primary education in 1959-60. Of this Government contributed Rs. 33,12,625. There was a net increase of 21,473 pupils in Municipal Schools during the year.

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To meet the growing expenditure on primary education the Corporation decided for the first time in 1958 to levy an education cess at 1½ per cent. The receipts from the levy of Education Cess for the year amounted to Rs. 3,846,134.

The Municipality maintains the Victoria and Albert Museum at Victoria Gardens and 20 libraries.

Medical Relief: The Municipality runs one large hospital for infectious diseases (except tuberculosis, veneral disease and leprosy) at Arthur Road and three other large general hospitals in the City proper (K.E.M. ; Nair and the Lokamanya Tilak Hospital, previously known as the Sion Hospital) and a group of hospitals for the treatment of tuberculosis at Sewri, an isolation centre at Dadar and four clinics. Altogether 746 beds are reserved for T.B. patients. In the Suburbs there are four general hospitals and 1 T.B. Clinic and 200 beds reserved for T.B. patients. Medical treatment is administered also through 44 general dispensaries, 2 Ayurvedic dispensaries, 6 women's and Childrens' dispensaries, 6 Mobile Hospital Units, one eye hospital and dispensary at Kamatipura and 11 Maternity Homes. Anti-rabic treatment is given free of charge at the K.E.M., Nair and Lokamanya hospitals as well as the Bhabha Hospital at Bandra and the Municipal General Hospital at Ghatkopar (at Rajawadi).

WATER SUPPLY

The water supply of the City is drawn from four lakes: Tansa Vaitarna, Vihar and Tulsi. The Tansa Lake combined with Vaitarna has a maximum supply capacity of 210 million gallons per day and is the main source of water supply. It is situated about 66 miles north-east of Bombay. The Vihar Lake can supply 20 million gallons a day exclusively to the north-east part of the City and also partly to Chembur and Kurla. It is situated about 18 miles north of Bombay. The Tulsi Lake which is to the north-west of Vihar Lake supplies 3 million gallons a day.

Under Section 140 of the Bombay Municipal Corporation Act the Corporation can levy water tax on buildings, lands and premises in the City. The tax is fixed as a certain percentage of the rateable value of the building, land or premises. The rate in 1958 was 3¾ per cent which has been increased to 4½ per cent. Under Section 169 the water supplied can also be charged on meter measurement and at the rates prescribed from time to time by the Standing Committee. Water tax is the first charge on a property under Section 141, and can be recovered from the owner by distress (Sections 203, 204) and is also recoverable from tenants by authorizing them to make payments from their rents (Section 209). The supply of water to any premises can be cut off in default of payment of water tax or any sum due for water or hire of meter or expenses of work done (Section 279(1)(*a*)). Copies of Water Charges Rules can be had from the Public Relations Department on payment of a sum of 50 nP. per copy.

The obligatory duty of the Corporation to supply an adequate quantity of water relates to the provision of supply only up to the boundary of the premises, as distinguished from the distribution of water within the premises. Any premises can be served by means of one communication pipe, the size of which depends upon the quantity of water needed in the premises. The owner can have separate connections to each floor provided he pays the cost of all the connections but one.

If the Municipal Commissioner finds that any premises are not provided with an adequate supply of pure water he has the power under Section 271(2) to compel the person who pays the property tax to obtain an adequate supply from Municipal Water Works and carry out all such works as is necessary for a proper distribution of water.

No one except a licensed plumber can undertake work on water-pipes and fittings and no person can allow any such work to be done by anyone except a licensed plumber.

For purposes of distribution Bombay is divided into 3 parts, called North Division, South Division and Central Division. Broadly speaking, the South Division consists of the areas of Clerk Road, Hornby Vellard up to Jacob Circle, Lamington Road, part of Grant Road, Kika Street, Abdul Rehman Street and Carnac Road up to the Victoria Dock in the north, and on the west coast along Back Bay, Walkeshwar, Nepean Sea Road and Warden Road up to Clerk Road Junction—this Division is served by the Malabar Hill Reservoir.

Central Control Division (at Babula Tank) consists of the localities of Kalachowki Road, Reay Road, Coal Bunder in the north, on the eastern coast up to Carnac Road, Abdul Rehman Street, Kika Road, Falkland Road and part of Grant Road up to Lamington Road in the south, in the west Lamington Road and Arthur Road and finally some areas of Dongri and Mandvi and Mazagon. The whole of this Division is supplied from the Bhandarwada Hill Reservoir. This division, as the name implies, controls the supply and distribution of water right from the lakes upto the distributing mains. The North Division, that is the north of the Island is served directly from the Trunk mains as they enter the City.

The amalgamated areas of the former Bombay Suburban District are divided into eight wards for purposes of water supply: H, K, L, M, N P, R and T, wards with three Assistant Engineers in charge of distribution and maintenance, one looking after H and K wards and the other after L, M, N and T wards and the third in charge of P and R wards. The supply is throughout metered.

Total water supplied to Greater Bombay per day : almost 195 mln. gallons.

The Tansa supply is chlorinated at the Chlorination Plants of Powai and Ghatkopar, while the Vihar supply is sterilized at Powai.

There is regular bacteriological and chemical analysis of water carried out by the Municipal Analyst.

PUBLIC HEALTH DEPARTMENT

The Public Health activities are carried on under the direct control and supervision of the Executive Health Officer. The Department is divided into several branches such as environmental sanitation, food sanitation, vital statistics, prevention and control of communicable diseases, maternity and child hygiene, medical relief and health propaganda.

Environmental sanitation comprises inspection and supervision of premises, provision of public sanitary conveniences, sanitary control over factories, licensable trades, overcrowding.

The veterinary staff inspects the stables in the city and are also in charge of the bullock hospital and segregation sheds in Mahalaxmi.

For purposes of sanitation, registration and vital statistics the city is divided into five divisions, each division being under the charge of an Assistant Health Officer who is directly responsible to the Executive Health Officer.

For the hygienic control of foodstuffs including milk trade there are Milk Sub-Inspectors and Sanitary Inspectors.

For pest control there is an Insecticide Branch.

The vaccination staff includes a Superintendent, a Head Vaccinator, a number of Vaccinators including a Lady Vaccinator. There are 72 permanent public vaccination stations 5 of which work daily at: 1. The Central Vaccine Dept. Parel, 2. The Sanitary Institute Building, Princess Street, 3. Municipal Suburban Offices, Waterfield Road, Bandra, 4. Municipal Office, Gazdar Hall, Andheri and 5. at Seth N. L. High School, Malad. The remaining centres work on one day every week by rotation for about 2½ hours. Besides, 4 additional temporary centres work one day every week for 2½ hours.

Hygiene includes maternity and child welfare, family planning and school health.

There are 11 Maternity Homes in the city and suburbs, each in charge of a Lady Medical Officer. A number of Health visitors do the follow-up work and ensure domicillary care under the direction of the Lady Medical Officers. A small maternity unit is conducted at Dharavi. Expectant mothers are encouraged to attend ante-natal clinics, of which there are 15 in number. Maternity Homes in the City are at Cadell Road, Victoria Road, Bellasis Road, Khetwadi and Imamwada Road. And child welfare clinics are conducted (besides the Maternity Homes) at Fergusson Road Dispensary, Dadar Main Road Dispensary, Labour Welfare Centre at Arthur Road Chawls, Ambewadi Dispensary at Parel Tank Road, District Dispensary at Souter Street, Tardeo Flats Dispensary, District Dispensary at Charni Road, District Dispensary at Panjrapole, Palton Road Stables Dispensary, District Office at Kolsa Mohalla.

There are Family Planning Clinics at 264, Charni Road; Bai Gulbai Choksy Dispensary at Dr. D'Silva Road, Dadar; Bellasis Road Maternity Home; Victoria Road Maternity Home; Imamwada Maternity Home; Cadell Road Maternity Home; and Khetwadi Maternity Home; Municipal General Hospital, Sion; and 23 other Centres.

School Health Work is limited to Municipal Schools only and is under a Medical Officer. Children found to have defects are taken for treatment in school buses to the school clinic at K.E.M. Hospital. Dental care is given at the Dental Clinic at the Bai Yamunabai L. Nair Hospital. Undernourished children in municipal schools are given free milk and snacks on working days.

The Public Health Laboratory which is under the charge of a Municipal Analyst conducts routine and special examinations of water, sewage, food, urine, blood and sputa of patients at Municipal Institutions. There is also a Health Museum maintained for the education of citizens.

The Conservancy Branch is under the City Engineer, who is assisted by a Public Health Engineer. Under him are Supervisors, Senior Overseers, Junior Overseers, Depot attendants, etc.

Conservancy includes cleansing of streets, etc., removal and disposal of refuse, destruction of rats and dogs, veterinary service, removal of carcasses, disinfection, ambulance and so on.

The Veterinary staff is under a Senior Veterinary Inspector, who has a number of Junior Inspectors and qualified veterinary surgeons.

Medical Relief is given at the following hospitals: K.E.M., Nair Lokamanya Tilak Hospital, R.P.T.B. and Arthur Road, at 52 Municipal Free Dispensaries, 6 Mobile Hospital Units and one Eye Dispensary and Hospital.

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There are dispensaries at 55, Rajwadkar Street, Colaba; 303, Frere Road, Fort; 250, Vallabhbhai Patel Road, Dongri; 212(1) Panjrapole Street, Bhuleshwar; 264, Charni Road, Girgaum; 15-17, Khetwadi First Lane; 1, Souter Street, Byculla; 143, Foras Road; Bai Gourabai Dispensary, Kamathipura 8th Lane; Bai Gulbai Choksy Dispensary, D'Silva Road, Dadar; B.D.D. Chawl, No. 45, Worli; 213C, Delisle Road; 245(H) and (I), Dharavi Road; New Parbadevi Road and Cadell Road Junction; Mulji Bhuvan, Sewri New Road; New Chawl, Ambewadi, Parel Tank Road; 160-160-A, New Delisle Road; Tardeo Flats, Mahalaxmi; Connaught Road, Byculla; Chembur Dispensary, Chembur; King George V Infirmary, Haines Road, Mahalaxmi; Palton Road; Zandu Ayurvedic, Gokhale Road (South), Dadar; Dadar Main Road, Municipal Chawl No. 1; Waterfield Road; Kherwadi, Khar East; Vile Parle; Andheri; Jogeshwari; Versova; Kurla; Bhandup and Ghatkopar.

The Eye Dispensary is in Bai Lingubai Building in Kamathipura where an eye hospital is also located.

There are also physiotherapy and occupational therapy centres, a diabetic centre, school clinics, a rehabilitation and training centre for the crippled, health centre and a convalescent home at the K.E.M. Hospital; dental clinics at the Nair Hospital Dental College; and the benefit of a paying-beds scheme at the Lokamanya Tilak Hospital. V.D. cases are treated at the V. D. Clinic at 254, Bellasis Road and leprosy cases at the Acworth Leprosy Home Clinic at Wadala. Of the 52 Municipal Dispensaries, two give Ayurvedic treatment.

WELFARE WORK

To stimulate civic awareness and promote closer contact with the public, the Corporation has been running an illustrated English monthly called 'The Bombay Civic Journal' from March 1954. It deals with the activities and problems not only of the Bombay Municipality, but also of other local bodies all over the country and seeks to foster 'an objective discussion of civic issues and the larger questions relating to local self-government from the national angle'.

Editor, Mrs. L. Ugranker.

Another new development has been the starting of a Public Relations Department in February 1956. This department, besides doing educative publicity through films, posters, pamphlets, press notes, etc., has also been issuing useful booklets for the guidance of citizens.

The Corporation has been a pioneer in many spheres of civic activity. It was the first in the country to experiment with adult franchise, introduce free compulsory education at the primary stage, extended in 1958 to the upper primary classes, to own and administer urban transport and electric supply, to undertake trading, supply free milk and snacks to under-nourished school children, and to promote family planning.

Other notable activities of the Corporation have been the institution of a permanent Mayor's Fund for the relief of distress, building of a dormitory for the homeless in the City, starting of physiotherapy and occupational therapy schools and centres, and several new ventures in medical relief, education and research; conduct of two medical colleges and a dental college, running of a general museum, the creation of a family health centre and a health museum, and the running of a regular monthly publication, 'The Bombay Civic Journal', for publicising the activities of the Corporation and of other civic bodies and for promoting discussion of civic issues.

Other activities include the production of films for health education, the introduction of various modern devices for traffic movement, starting of a unit for research in primary education, the opening of a municipal bank, the building of an open-air theatre for the recreation of citizens, holding of civic exhibitions, organisation of Health and Cleanliness Weeks, conducting of seminars, establishment of an electric crematorium, construction of subways and the starting of a department of preventive and social medicine at the Topiwala National Medical College and a convalescent home at the K.E.M. Hospital and maintenance of a swimming pool.

A vast new five-storied structure, designed to accommodate the numerous scattered departments of the Corporation, was built by the side of the old head office and declared open on February 5, 1958.

The City Engineer's, the Special Engineer's and the Hydraulic Engineer's departments are all now housed in the new building.

The new building has lounges, party rooms and committee rooms for Councillors and also accommodates the Estate Agent and Land Manager's Department, the Public Health and Public Relations Departments, the Municipal Secretary's office, the Election and Town Duty Dept., the Shops and Establishment Dept., Licence Dept., Conservancy Branch, Labour Dept. and the Civic Journal Dept.

The Corporation, however, continues to meet in the Corporation Hall in the old building.

The administration of the suburbs was put under a Deputy Commissioner with offices in Bandra.

GREATER BOMBAY, 1960-61

Area: About 170·0 Sq. miles.

Population: 41,48,945 (1961 census) (City 27,69,133; Suburbs 10,36,104; Extended suburbs 3,43,708).

Below we give particulars about Greater Bombay:

No. of Hospitals (Municipal, Government and Private): 20.

No. of Municipal Hospitals: 9.

No. of Municipal Dispensaries incl. of women and children as well as Ayurvedic Dispensaries: 52.

No. of Primary Schools (Municipal and Private): about 1,000.

No. of pupils in all Primary Schools: about 4,28,780.

No. of Municipal Primary Schools: 569.

No. of children in Municipal Primary Schools: 3,16,105.

No. of teachers in Municipal Primary Schools: 8,000.

No. of Municipal Medical Colleges: 3 including a Dental College.

No. of Motor Vehicles: More than 44,000.

Road Mileage: about 590.

No. of Markets (municipal and private): 60.

No. of gardens, open spaces etc.: about 115.

No. of Fire Brigade Stations: 14.

Total no. of Municipal employees: 40,000 including those engaged on temporary and daily wages basis and excluding the B.E.S.T.

Annual wage bill of employees: Rs. 425·45 lakhs.

CITY

Below we give some facts about the City for 1960-61:

Area of the City	16,762 acres (26·189 square miles).
Population	27,69,133 (according to census of 1961).
Density of population	165 per acre.

INCOME: Actuals for (1959-60):—

	Rs.
General Tax at 19 per cent and Fire Tax at ¾ per cent	4,58,95,178
Water Tax at 4½ per cent including other receipts from Water Works	3,04,22,581
Halalkhore Tax at 3½ per cent including receipts from special service	87,55,141
Total income (including revenue from other sources)	12,69,48,063
Rates charged for water connections by measurement	From 97 nP. to Rs. 5·50 per 10,000 litres for first half of 1960-61 according to class of property.

EXPENDITURE: City proper (1959-60):—

		Rs.
Primary Education (for City and Suburbs including Cess plus grants)		2,25,41,756
Medical Relief and Education		1,89,81,614
Water Works—		
Maintenance etc.	Rs. 82,89,942	
Debt Charges	,, 1,99,27,342	
		2,82,17,284
Public Health		54,13,653
Fire Brigade		16,71,511
General Supervision, Collection of Revenue etc.		47,83,611
Grants-in-aid to Public Institutions		12,95,092
Debt charges (excluding Water Works)		1,09,75,288
Total expenditure including other items		11,75,56,112

The following facts relate to 1959-60:

TAXES, LOANS ETC. (1959-60):—

Incidence of taxation per head	44·97
Total rateable value of properties	28,92,71,848
Properties registered in the Assessment Book	56,363
Rateable value per head of population	124·20
Number of vehicles and animals taxed	50,736
Demand in respect of Urban Immovable Property Tax levied by Government and collected by Municipality for the year	(1958-59) 1,22,90,208·46
Amount collected including previous arrears	89,11,431·59
Debts outstanding	42,58,89,648
Redemption or Sinking Fund in hand or invested	9,64,10,225
Net loan debt	32,94,79,423
Net debt per head of population	141·47

BIRTHS AND DEATHS—1960.

Total number of births registered during the year 1960	71,044
Birth rate per thousand living	30·5
Total number of deaths during the year	31,008
Death rate per thousand of population	13·3

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Budget, 1961-62 (Estimates)

Here are a few salient features of the City Budget for 1961-62 as presented to the Corporation by the Chairman of the Standing Committee:

	Rs.
Opening balance on April 1, 1961	1,46,18,000
Income on existing basis of taxation	14,80,19,922
Expenditure	14,19,43,141
Surplus	60,76,781
Closing Balance	2,06,94,781

Revenue Account :

New or increased provisions made on revenue account are in respect of arrangements for the general elections and the census in 1961, supply of milk to needy undernourished children attending Municipal schools, distribution of drugs, medicines etc. in Municipal hospitals and reservation of beds for the Bombay Municipal Corporation at the Sarvodaya Hospital and Sanatorium at Ghatkopar.

Loan Works : (1961-62)

Out of a provision of Rs. 5,82,45,000 for Loan Works, Rs. 5,25,97,000 are for works in progress, Rs. 22,19,000 for new works and Rs. 34,29,000 for plant and machinery to be purchased out of Advances and Special Funds.

Major allocations are: Rs. 1,99,83,000 for the Master Plan for distribution of water supply in the City; Rs. 19,49,000 for the Vaitarna-cum-Tansa Scheme; Rs. 13,51,000 for remodelling the distribution system in the City; Rs. 15,00,000 for enlarging the 72" dia. Tansa Water main to 96" dia. between Kasheli Anchor Block to Kapurbavdi Anchor Block; Rs. 10,00,000 for replacing the 72" East and West mains with one 96" dia. main from Gundavali to Kasheli Anchor Block; Rs. 6,00,000 for protection of the 57" Tansa Steel Main in the City; Rs. 11,50,000 for the construction of two wards at Arthur Road Hospital; Rs. 10,00,000 for the establishment of Thoracic and Cardiology Institute at Parel; Rs. 5,00,000 for acquisition of land for the extension of the Bai Y. L. Nair Charitable Hospital and T.N.M. College; Rs. 8,00,000 for installation of purification plant at Love Grove; Rs. 5,00,000 for remodelling of the Colaba Sewerage Scheme; Rs. 5,00,000 for additional work at Dharavi Purification Plant to increase its capacity by 5. M.G.D.; Rs. 5,00,000 for concreting junctions in different parts of the City; Rs. 5,00,000 for street improvements in different places; Rs. 4,00,000 for the construction of 220 tenements on Haji Ali Park.

Capital Budget :

In the Capital Budget for 1961-62 provisions have been proposed for works which are already in progress and for certain new works. The expenditure on improvements and Street Scheme is estimated at Rs. 82,76,000. The principal items for which provisions have been proposed are as under: construction of Flank Road (West) from Road No. 32A upto creek at the Northern end at Rs. 2,00,000; construction of trebled barrelled S.W. drains from Matunga Labour Camp to Dharavi Road at Rs. 2,00,000; laying of a main gravitation sewer in Sewri-Wadala area at a cost of Rs. 1,00,000; housing fishermen and providing a recreation ground in Mahim division at Rs. 1,06,000; construction of a housing colony at Juhu at Rs. 5,00,000; construction of 192 tenements at Horse Shoe Valley at Ghatkopar at an estimated cost of Rs. 5,00,000; construction of 80 tenements at Sewri Cross Road at Rs. 2,60,000; construction of 48 tenements at Mahim Division; development of Municipal land at Govandi including cost of roads, water mains etc. at Rs. 1,00,000; construction of 88 tenements at Morbaug Road, Dadar at Rs. 1,00,000 and housing of squatters at Vikhroli at Rs. 2,00,000.

SUBURBS

(1960-61).

Area of the Suburbs	43,398 acres
Population	10,50,220 (according to the census of 1961).
Density of population	24·2 per acre

INCOME : Actuals (1959-60) :—

General Tax at 19 per cent and Fire Tax at ¾ per cent	Rs. 83,23,564
Water Tax by measurement (including other receipts from Water Works)	„ 69,20,746
Halalkhore Tax at 3½ per cent including receipts from special service	„ 10,45,509
Grant-in-aid from Government	„ 18,65,953
Share from City Budget under Town Duties ..	„ 16,41,806
Total income, including revenue from other sources	„ 2,30,93,890
Rate charged for water supplied by measurement	From Rs. 1·65 to Rs. 4·90 per 10,000 litres according to class of property.

EXPENDITURE (1959-60):

Education (Secondary)		Rs. 15,961
Medical Relief and Education		„ 12,62,262
Water Works—		
Maintenance etc. ..	Rs. 51,97,955	
Debt Charges	„ 8,26,363	
		„ 60,24,318
Public Health		„ 12,98,930
Fire Brigade		„ 1,85,255
General Supervision, Collection of Revenue etc.		„ 10,18,173
Grants-in-aid to Public Institutions		„ 53,281
Debt charges excluding Water Works		„ 24,90,448
Total expenditure including other items ..		„ 233,50,954

The following particulars relate to 1959-60 :

TAXES, LOANS ETC. :—

Incidence of taxation per head	Rs. 36·86
Total rateable value of properties	„ 6,49,58,972
Properties registered in the Assessment Book ..	„ 46,448
Rateable value per head of population	„ 127·31
Number of vehicles and animals taxed	48,413
Demand in respect of Urban Immovable Property Tax levied by Government and collected by Municipality including arrears of previous years	Rs. 1,22,90,208·46
Amount collected including previous arrears against demand	„ 89,11,431·59
Debts outstanding	„ 5,02,58,000
Redemption or Sinking Fund in hand or invested	„ 80,65,000
Net Loan Debt	„ 4,21,93,000
Net debt per head of population	„ 82,69,000

BIRTHS AND DEATHS (1959-60) :—

Total number of births registered during the year	27,970
Birth rate per thousand living	54·8
Total number of deaths during the year ..	7,491
Death rate per thousand of population	14·7

Budget, 1961-62 (Estimates)

Here are a few salient features of the Budget for the Suburbs, (1961-62) as presented to the Corporation :

Estimated Opening Balance on April 1, 1960	Rs. 17·51	lakhs
Income on present basis of taxation	„ 299·61	„
Expenditure	„ 306·25	„
Deficit	„ 6·64	„
Closing Balance	„ 10·87	„

Revenue Account 1961-62 :

The estimates of income and expenditure for 1961-62 disclose a deficit of Rs.26,88,000 despite which substantial provisions have been made in the budget for malaria eradication programme, medicines and drugs for hospitals and dispensaries, ambulance service, removal of refuse and conservancy, repair and maintenance of roads and storm-water drains, new works and special repairs.

Loan Works :

The Loan Works programme for the year comprises the completion of works in progress and new works necessary in connection with water supply, roads, drainage and village amenities. The total amount provided for expenditure is Rs. 3,08,24,000 out of which Rs. 2,59,67,000 are for works in progress and Rs. 48,57,000 for new works. The more important of the new works proposed is the construction of four markets at an aggregate cost of Rs. 13,00,000, construction of an overbridge on the Central Railway at Anik Village (Trombay) over oil Refinery siding land, Govandi, Sion, Mankhurd Line for Wadala Ghatkopar Road.

At the time of the merger of the Suburban areas in 1950, a grant equal to one third of the expenditure incurred on the extension and improvement of (*a*) water supply (*b*) Sewerage (*c*) Surface drainage, subject to a maximum aggregate grant of Rs. 90 lakhs spread over a period of 10 years ending 1959-60, was sanctioned by Government on June 26, 1950. Against this grant, the actual amount drawn upto March 1960 was Rs. 62,00,000 leaving an amount of Rs. 28,00,000 to be drawn in 1960-61.

According to the existing State orders no grant will be receivable from Government in respect of expenditure to be incurred on such works from the year 1960-61 onwards. The Corporation being aware that several areas in the Suburbs are not yet provided with adequate water supply and sewerage facilities and that the progressive expenditure on such works will be very heavy has made a representation to the Government for the continuation of a similar grant for a further period of at least 10 years. The decision from Government is awaited.

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EXTENDED SUBURBS

The following particulars relate to 1960-61 :

The extended suburbs, merged in Greater Bombay on February 1, 1957, consist of areas once forming part of the municipal districts of Malad, Kandivli, Borivli and Mulund, village panchayats of Goregaon and Dahisar and 34 villages of the Thana District where there was no municipal administration of any kind, though certain functions were being performed by the District Local Board of Thana.

Area of the Extended Suburbs	About	45,760 acres (75 sq. miles).
Population		3,43,708
Density of population		7·5 per acre.

INCOME :—Actuals for 1959-1960:

General Tax at different rates varying from 8 per cent to 19½ per cent	Rs.	18,68,960
Water Tax (including other receipts from Water Works)	,,	5,32,144
Halalkhore Tax at 3½ per cent including receipts for special service	,,	2,95,148
Grant-in-aid from Government	,,	10,20,576
Share from City Budget under Town Duties ..	,,	4,35,202
Total income, including revenue from other sources	,,	47,44,073

EXPENDITURE :—

Education (Secondary)	Rs.	8,354
Medical Relief and Education	,,	2,62,480
Water Works	,,	4,95,346
Public Health	,,	1,52,269
General Supervision. Collection of Revenue etc.	,,	2,89,772
Grants-in-aid to Public Institutions	,,	Nil.
Total expenditure including other items ..	,,	33,86,021

BIRTHS AND DEATHS (1960) :—

Total No. of Births registered during the year ..	8,369
Birth rate per thousand living	53·9
Total no. of deaths during the year	1,985
Death rate per thousand of population	12·8

Budget, 1961-62

Here are a few features of the Budget for the Extended Suburbs (1961-62) as presented to the Corporation:

Estimated Opening Balance on April 1, 1960	Rs.	8·99 lakhs.
Income after taking into consideration the increase in general tax by 2 per cent ..	,,	71·60 lakhs.
Expenditure	,,	73·12 lakhs.
Deficit	,,	·15 lakhs.
Closing Balance	,,	7·47 lakhs.

Revenue Account :

The needs of the Extended Suburbs in the matter of water supply, public health and sanitation, medical relief, roads, drains, sewerage, gardens and open spaces and markets are found to be very pressing. A beginning was made in providing such civic amenities as water supply, construction and improvement of road surfaces etc. In spite of the deficit of Rs. 6,37,000 estimated for the year 1961-62, ample provision has been made for water supply, supply of drugs and instruments to hospitals and maternity homes, dispensaries for out-patients, Mobile hospitals, family planning clinics, upkeep of motor ambulances, street cleaning and conservancy, repairs and maintenance of roads, public lighting, buildings and acquisition of land, gardens and open spaces, markets and slaughter houses, etc.

Loan Works :

The Loan Works programme for 1961-62 provides for the completion of works in progress and for essential new works such as laying and extension of water mains in various parts of the Extended Suburbs, improvement of cemeteries, construction of staff quarters at the Maternity homes, construction of general hospitals, T.B. hospitals and convalescent home at Borivli, staff quarters for a Hospital at Borivli, construction of Harijan quarters, construction and improvement of roads, construction of markets, works in respect of Town Planning Scheme and provision of village amenities etc.

A provision of Rs. 3,00,000 has been made for providing water mains in the hutment dwellers' colony at Goregaon. Similarly, provisions, to the extent of Rs. 8,00,000, have also been made for providing sewerage arrangements in the areas of the Extended Suburbs.

The total amount provided for expenditure during the year 1961-62 is Rs. 75,16,000, of which Rs. 52,25,000 are for works in progress, Rs. 20,36,000 for new works and Rs. 2,55,000 for plant and machineries to be bought.

B.E.S. & T. UNDERTAKING

The following particulars relate to 1959-60:

Total staff in the Undertaking		21,300
Tramway Section—		
No. of vehicles		190
Route Mileage		17·88
No. of passengers carried per day		3,15,000
Total income for the year	Rs.	1,11,59,175
Total expenditure	,,	1,47,78,239
Bus Section—		
No. of vehicles including luxury buses for tourists		1,085
Route Mileage		529·64
No. of passengers carried per day		15,00,000
Total income for the year..	Rs.	5,11,19,000
Total expenditure	,,	5,01,32,665
Specially-built luxury buses for tourists ..		4
Electric Supply Section—		
Total number of units purchased		56,54,70,241
Total number of units sold (supply)		51,08,05,646
Total number of units sold (traction)		83,94,417
Total number of consumers		2,70,340
Total income for the year..	Rs.	4,44,25,049
Total expenditure for the year	,,	3,83,54,044

Budget, 1961-62

Estimated opening balance	Rs.	1,00,000
INCOME :—		
Electric Supply	,,	5,75,00,000
Tramways	,,	73,49,740
Buses	,,	6,86,81,260
Total	,,	13,35,31,000
EXPENDITURE :—		
Electric Supply	Rs.	5,19,15,850
Tramways	,,	1,16,92,927
Buses	,,	6,95,71,923
Total	,,	13,31,80,700
Appropriation to statutory and other funds or objects	Rs.	3,50,300
Estimated Closing Balance	,,	1,00,000
Total	,,	13,36,31,000

Capital Estimates (1961-62) :—

In the Loan Works Budget of the B.E.S.& T. Undertaking, a provision of Rs. 271·870 lakhs has been made mainly for development and expansion in the Electric Supply and Bus Sections respectively, construction of quarters for employees of the Undertaking and for Trolley buses. A sum of Rs. 102·052 lakhs has been set apart for electric supply, out of which Rs. 5·990 lakhs are in respect of the remaining works in connection with the bulk supply receiving stations, modernisation of protective system of distribution net work and for extensions to existing receiving stations. The balance of Rs. 96·062 lakhs is for normal expansion (recurring) and includes the cost of new Static Substations, extensions to existing substations, H.V. Feeders and L.V. distributing mains, house service and overhead C.T.S. mains, street Lighting lamps, purchase and installation of meters. Other allocations are Rs. 4·738 lakhs for the renewal of certain tram tracks which have become overdue for renewal, a provision of Rs. 90 lakhs for the purchase of 100 buses which also includes Rs. 50 lakhs for the purchase of 50 D.D. Buses for replacement, Rs. 2·150 lakhs for constructing a bus terminus at Marve, Rs. 8·500 lakhs for works in connection with the Stores Depot at Wadala and Bus Depot at Kurla, Rs. 22 lakhs for Trolley Bus Service in the City, Rs. 19·970 lakhs for the construction of quarters for B.E.S.& T. employees at Parel (3rd Stage), Santa Cruz, Byculla and Mulund.

Note : For actual figures on Income, Expenditure etc. for 1960-61, see "Late Particulars".

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RAINFALL OF BOMBAY

COLABA OBSERVATORY

Note : From the year 1957 rainfall figures are recorded in Millimeters instead of inches. 1 inch equals 25·4 mms.

Years	May	June	July	August	September	October	November	Yearly Total	Number of Rainy Days in the year*	Maximum fall in one day
1890..	0·06	24·55	21·54	10·61	6·45	0·58	1·25	65·18	116	4·61
1..	0·00	13·99	32·48	6·94	22·53	1·04	0·00	77·18	100	5·82
2..	0·11	13·30	23·86	36·56	18·73	1·89	0·67	95·12	114	5·43
3..	6·30	21·47	16·14	13·55	7·54	0·45	1·63	67·24	124	4·97
4..	0·00	16·87	26·16	8·40	12·04	3·08	0·00	66·85	124	4·77
5..	0·08	17·84	18·04	15·97	11·91	3·62	0·06	67·59	109	6·82
6..	0·26	28·02	36·44	20·77	1·62	0·01	0·53	87·65	102	6·21
7..	0·00	14·40	30·19	13·82	20·60	2·51	0·00	81·53	108	4·92
8..	0·16	27·21	20·72	5·28	19·94	0·48	0·13	74·09	110	5·13
9..	0·08	20·81	4·72	5·23	3·49	0·00	0·00	35·90	87	6·58
1900..	0·00	18·26	25·75	17·62	7·49	0·00	0·00	69·12	91	8·04
1..	0·01	25·36	32·70	14·27	1·81	0·39	0·00	75·32	98	6·55
2..	0·00	9·77	16·96	16·53	27·11	0·78	0·01	71·97	100	6·74
3..	7·79	19·75	24·82	18·23	7·82	5·91	0·00	84·49	111	6·03
4..	0·02	15·10	10·14	5·72	1·81	0·56	0·00	33·42	90	3·33
5..	0·00	6·53	15·30	4·35	6·16	0·20	1·04	33·66	89	4·00
6..	0·00	13·20	18·10	20·91	3·94	0·00	0·00	56·30	95	4·89
7..	0·00	22·49	59·26	15·93	2·75	0·02	0·00	100·78	94	8·84
8..	0·00	15·19	21·13	9·67	6·71	0·62	0·00	53·54	100	4·30
9..	0·00	16·68	31·37	7·82	15·35	0·00	0·00	71·22	100	4·07
1910..	0·03	23·92	7·42	16·89	18·84	0·62	0·14	67·86	104	8·14
1..	0·04	10·85	15·89	16·90	2·50	0·00	0·27	46·51	92	4·78
2..	0·43	10·79	25·77	9·70	3·09	0·65	3·62	54·05	87	7·86
3..	0·00	25·81	33·58	3·47	5·75	2·35	0·00	70·96	94	5·50
4..	0·00	16·69	31·12	12·44	21·03	0·01	0·18	81·62	114	6·28
5..	0·36	40·10	14·39	8·93	10·21	2·55	0·02	77·68	100	11·41
6..	0·07	23·55	25·10	17·19	14·59	4·79	0·72	86·05	128	7·60
7..	0·88	15·33	12·91	33·27	19·58	16·11	0·00	99·76	134	5·96
8..	11·17	10·65	4·31	4·80	3·06	0·00	0·09	35·54	94	4·98
9..	0·00	23·35	24·49	10·63	8·16	1·40	0·18	68·32	106	8·74
1920..	0·00	8·16	22·60	4·58	4·05	0·34	0·00	41·05	98	5·51
1..	0·00	26·79	35·67	10·37	13·13	0·06	0·00	86·02	101	7·68
2..	0·00	26·63	31·00	5·15	7·43	0·61	0·00	70·96	111	6·56
3..	0·00	8·96	41·88	8·33	18·32	..	0·00	77·56	90	11·03
4..	0·00	7·46	16·75	15·42	12·12	0·06	0·38	52·19	101	3·12
5..	3·83	26·86	8·31	7·71	3·55	0·19	0·37	50·82	109	7·54
6..	0·10	6·81	30·68	21·93	8·84	1·29	0·00	72·64	107	8·21
7..	0·00	35·52	14·08	6·59	5·30	7·25	5·48	74·38	123	7·10
8..	0·00	28·46	30·24	16·69	9·81	0·43	0·09	85·73	109	8·96
9..	0·00	26·09	15·78	5·85	6·49	3·78	0·22	59·76	114	5·29
1930..	0·02	27·48	9·61	6·60	43·77	2·50	0·00	89·98	93	21·59
1..	0·00	7·66	46·94	22·69	4·53	13·02	2·40	97·94	111	10·06
2..	0·57	10·64	35·47	6·77	11·13	9·01	0·07	73·66	106	5·62
3..	3·23	9·91	15·69	17·25	12·42	2·93	0·01	62·37	116	5·28
4..	0·00	29·06	22·74	12·14	5·83	0·21	3·23	73·25	110	5·05
5..	0·00	28·14	23·70	16·71	11·83	1·04	0·18	81·62	99	7·00
6..	0·34	32·62	8·13	9·23	5·73	0·00	2·31	58·43	113	5·60
7..	0·00	18·32	30·42	5·45	14·20	1·77	0·00	70·16	109	3·68
8..	1·29	31·24	16·06	16·77	10·35	15·17	1·13	92·01	124	7·13
9..	0·00	4·67	33·08	10·87	5·39	0·17	0·15	54·34	95	9·12
1940..	0·00	29·98	21·03	28·27	11·26	4·89	0·76	97·58	106	6·42
1..	0·00	8·09	14·03	5·83	6·17	1·62	0·00	35·81	81	4·14
2..	0·00	27·39	32·36	8·24	13·52	0·00	0·00	81·80	96	7·03
3..	6·02	30·19	29·62	3·30	8·15	3·77	0·04	81·37	116	8·01
4..	0·20	9·47	45·56	16·32	1·68	0·80	0·00	74·10	90	7·13
5..	0·00	24·36	31·87	26·10	6·16	0·70	0·37	90·38	99	8·65
6..	0·23	21·61	16·29	15·23	17·90	0·81	6·46	79·14	120	10·48
7..	0·00	3·61	22·03	20·56	25·45	2·92	0·00	77·09	104	10·88
8..	0·00	8·78	27·16	17·03	11·78	2·11	4·54	71·74	105	6·79
9..	0·98	18·31	23·64	15·22	49·01	1·35	0·00	108·51	124	26·98
1950..	0·13	11·22	23·82	3·39	21·50	1·38	0·06	61·50	93	5·97
1..	1·68	20·25	35·11	8·55	1·74	2·71	0·11	70·41	108	5·11
2..	0·00	23·69	27·51	6·82	3·05	2·26	0·00	63·33	97	7·06
3..	0·00	32·59	39·99	12·99	4·59	3·24	0·00	93·57	103	8·35
4..	0·00	24·66	51·56	33·72	24·84	1·89	0·00	137·08	108	10·31
5..	0·04	13·98	21·65	34·75	11·44	5·81	0·97	88·64	116	6·77
6..	1·69	25·86	32·34	17·37	20·69	2·83	0·50	101·28	133	8·88
7..	25.4	283.0	777·2	578.9	65·7	21·2	23·9	1775·8	93	162·9
8..	3·6	862·6	830·3	1265·4	353·1	1·8	1·3	3319·2	101	239·2
9..	5·4	651·5	745·4	446·0	261·0	273·6	0·0	2393·6	116	163·1
1960..	39·6	1011·1	500·0	225·4	97·5	244·7	0·0	2118·9	112	201·4

* A rainy day is one on which 0·01" of rain or more has fallen.

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Vice-President : J. K. Ramchandani.
Hon. Secretary : Hashmatrai M. Thadani.
Jt. Hon. Secy. : Vishindas B. Mahtani.

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64, Kansara Chawl, Bombay 2.

President : Ramanlal M. Shah ; *Vice-President :* Mulji V. Narsi, J.P. ; *Jt. Hon. Secretaries :* B. D. Nagpal, Manubhai Mulchand.

ALL-INDIA STARCH MANUFACTURERS' ASSOCIATION PRIVATE LTD.

12, Rampart Row, Fort, Bombay 1.

President : Chinubhai Manibhai ; *Secretary :* S. B. Sethi.

ALL INDIA WOOL TRADE FEDERATION

Post Box No. 1051, Bombay.

President : Jayantilal K. Anjaria ; *Vice-President :* Bhagirathi Mohatta ; *Hon. Secy. :* Rameshchandra V. Dave.

* In the case of some associations, besides the title and the address a short note is added about their aims, etc. This is generally done where the aims, activities, organization are not immediately obvious from the title. Also, when an association appears for the first time in our book a note is generally added. The addition of a note is not necessarily an indication of the relative importance of the association, that is, in relation to others.

Two points should be kept in mind : office-bearers may change ; addresses given may sometimes be in the nature of a reference specially where we say c/o.

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ALL INDIA X-RAY AND ELECTROMEDICAL TRADES' ASSOCIATION

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THE BOMBAY SPORTS TRADERS ASSOCIATION

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BOMBAY TYRE DEALERS' ASSOCIATION

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Mulji Jetha Cloth Market Hall, Sheikh Memon Street, Bombay 2.

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EMPLOYERS' FEDERATION OF INDIA

Army & Navy Building, 148, Mahatma Gandhi Road, Bombay 1.

OBJECTS : To promote and protect the interests of employers engaged in industry, trade and commerce ; to promote and support all well-considered schemes for the general uplift of labour and to take all possible steps to establish harmonious relations between Capital and Labour ; to advise employers on labour matters, to assist them in the settlement of labour disputes and to represent or arrange for the representation of employers in any proceedings before

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Tribunals, Courts and other judicial or quasi-judicial body; and to carry on propaganda for the purpose of educating the public with regard to the character, scope, importance and needs of industrial enterprise as represented by the Federation.

President: Naval H. Tata; *Vice-Presidents:* Neville N. Wadia, H. Mackay Tallack, E. F. G. Hunter and J. K. Srivastava; *Director-General:* Dr. N. Das, Ph.D. (Econ.), London; *Secretary:* T. S. Swaminathan, I.C.S. (Retd.); *Jt. Secretary:* N. M. Vakil.

ENGINEERING ASSOCIATION OF INDIA

(Bombay Region)

87, Veer Nariman Road, Bombay 1.

Chairman: J. V. Patel; *Vice-Chairman:* Bahubali Gulabchand; *Secretary:* M. de Melo.

EXHIBITION SOCIETY

Central Bank Building, Hornby Road, Bombay 1.

The Society is founded for organising exhibition sales of indigenous household articles.

FEDERATION OF BOMBAY RETAIL CLOTH DEALERS' ASSOCIATIONS

169, 1st Marine Street, Bombay 2.

President: A. K. Jobanputra; *Vice-President:* M. V. Dhabliwalla; *Hon. Secretaries:* H. V. Dedhia and V. O. Shah; *Hon. Treasurer:* V. G. Solanki.

FEDERATION OF BRITISH INDUSTRIES

(Incorporated in England by Royal Charter.)

Head Office: 21, Tothill Street, London, S.W. 1.

Indian Branch Office: Vulcan Building, Vir Nariman Road, Churchgate, Bombay 1.

The Federation's membership comprises over 8,000 British manufacturing firms in the United Kingdom covering all industries; in addition, over 300 individual trade associations are affiliated to the Federation.

Branch Manager.—A. H. E. Birks.

FEDERATION OF ELECTRICITY UNDERTAKINGS OF INDIA

Killick House, Home Street, Bombay 1.

COMMITTEE.—A. N. Haksar; D. H. P. Henderson; S. M. Zubair; A. G. M. Twining; S. C. Farmer; S. Venkatraman; N. C. Javeri; M. M. Tayal.

Secretary.—R. P. Aiyer.

FEDERATION OF MOTOR TRANSPORT ASSOCIATIONS

Meher Bldg., Chowpatty, Bombay 7.

President: A. B. Parakh; *Vice-President:* Chinubhai Kilachand; *Hon. Secretary:* B. V. Vagh.

FEDERATION OF PAPER TRADERS' ASSOCIATIONS OF INDIA

54, Sutar Chawl, Bombay 2.

President: V. Rajagopalan; *Vice-Presidents:* S. L. Dutt, D. D. Kejdiwal, Ram Prakash Kapoor; *Hon. Secretary:* V. P. Kapoor; *Hon. Treasurer:* T. J. Lalvani.

THE FEDERATION OF PUBLISHERS AND BOOKSELLERS ASSOCIATIONS IN INDIA

Abid House, Lamington Road, Bombay 7.

President: P. C. Manaktala; *Secretary:* S. G. Bhatkal; *Treasurer:* J. H. Shah.

THE FEDERATION OF WOOLLEN MANUFACTURERS IN INDIA

J. K. Building, Dougall Road, Ballard Estate, Bombay 1.

Chairman: V. Calloway; *Vice-Chairman:* G. K. Singhania; *Secretary:* S. Das Gupta.

GHEE MERCHANTS' ASSOCIATION

191/193, Samuel Street, Bombay 9.

President:—Babaldas Nagindas Shah; *Vice-President:* Harilal Girdharlal; *Hon. Secy.:* Indubhai T. Shah.

GRAIN AND OILSEEDS MERCHANTS' ASSOCIATION

72-80, Masjid Bunder Road, Mandvi, Bombay 3.

President.—Seth Velji Lakhamsi Nappoo, B.A., LL.B.; *Vice-President.*—Seth Devji Rattansey; *Jt. Hon. Secretaries.*—Premji Bhanji, Vasanji Lakhamsi; *Secretary.*—K. N. Joshi.

GREY ART SILK MANUFACTURERS' GROUP

C/o The Central Textiles, Samrat Mill's Compound, Agra Road, Vikhroli, Bombay 79.

Hon. Secretary: J. K. Turakhia.

HINDUSTANI MERCHANTS' & COMMISSION AGENTS' ASSOCIATION LTD.

342, Kalbadevi Road, Bombay 2.

HOOSHAMI OLD IRON MERCHANTS' ASSOCIATION

Darukhana, Mazagaon, Bombay 10.

HOTEL & RESTAURANT ASSOCIATION OF BOMBAY REGION

Taj Mahal Hotel, Apollo Bunder, Bombay 1. (Tel. Nos. 212639 & 219101).

OFFICE-BEARERS.—*President.*—D. R. D. Tata; *Hon. Secretary.*—Maneck S. Shaw, M.H.C.I.; *Hon. Treasurer:* J. P. Voyantzis; *Secretary.*—Shrikant Joshi.

INDIAN BANKS ASSOCIATION

Devkaran Nanjee Bldg., Horniman Circle, Fort, Bombay.

Chairman: Tulsidas Kilachand; *Dy. Chairman:* T. D. Kansara; *Hon. Secretary:* C. E. Kamath; *Secretary:* Dr. S. G. Panandlikar.

INDIAN CHEMICAL MANUFACTURERS' ASSOCIATION

(Bombay Regional Office)

Sir Vithaldas Chambers, 6th Floor, 16, Apollo Street, Bombay 1.

Chairman: J. H. Doshi; *Hon. Secretary & Treasurer:* V. N. Sardesai.

THE INDIAN COTTON MILLS' FEDERATION

Elphinstone Building, Veer Nariman Road, Fort, Post Box No. 95, Bombay 1.

Chairman: Krishnaraj M. D. Thackersey; *Vice-Chairman:* Lala Bharat Ram; *Hon. Secretary:* B. G. Kakatkar.

THE INDIAN COUNCIL OF HANDICRAFT EXPORTS

Rekha Export Office, Stadium House, Veer Nariman Road, Bombay 1.

INDIAN COUNCIL OF FOREIGN TRADE

Co-operative Insurance Bldg., 4th Floor, Sir Phirozshah Mehta Road, Bombay 1.

OBJECTS.—The object of the Council is to promote International trade with all countries.

OFFICE-BEARERS: *President:* Murarji J. Vaidya (Bombay); *Vice-Presidents:* P. B. Advani, B. N. Banerjee, D. C. Kothari, Vallabhdas V. Mariwala; *Hon. Gen. Secretary:* R. V. Vora; *Asstt. Secretary:* N. Krishnan.

INDIAN ENGINEERING ASSOCIATION

(Western Region)

C/o Bombay Chamber of Commerce, Post Box 473, Bombay 1.

Chairman: P. R. Deshpande; *Vice-Chairman:* J. R. Armstrong.

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INDIAN GRAIN DEALERS' FEDERATION

'Shiv Mahal', 84-86, Dr. Maheshwari Road, Bombay 9.

President : Khimji M. Bhujpuria, J.P.; *Vice-Presidents :* Virji N. Salia, J.P. and Husseinbhai A. Valjee, J.P.; *Hon. Secretaries :* N. K. Shah, V. K. Haria; *Secretary :* D. L. Patel.

THE INDIAN INSURANCE COMPANIES' ASSOCIATION

Co-operative Insurance Bldg., Sir Phirozshah Mehta Road, Bombay 1.

Chairman : T. M. Telang; *Secretary :* D. N. Majmudar, B.A., LL.B.

THE INDIAN LANGUAGES NEWSPAPERS' ASSOCIATION

Janmabhoomi Bhavan, Ghogha Street, Fort, Bombay 1.

President : A. R. Bhat, M.Com., M.L.C.; *General Secretaries :* Ratilal Sheth, V. K. Sathe, R. A. Gupta; *Office Secretary :* K. N. Gogate.

Publication : Language Press Bulletin Monthly published in English, devoted to the Indian Newspaper Industry.

INDIAN MACHINE TOOL MANUFACTURERS' ASSOCIATION

Bombay House, Bruce Street, Fort, Bombay.

INDIAN MANUFACTURERS' EXPORT ASSOCIATION

121-22, St. Xavier's Street, Bombay 12.

INDIAN MOTION PICTURE DISTRIBUTORS' ASSOCIATION

Mogul Lane, Off Sitaladevi Temple Road, Mahim, Bombay 16.

INDIAN MOTION PICTURE PRODUCERS' ASSOCIATION

Sandhurst Building, Sardar Patel Road, Bombay 4.

President : Bimal Roy; *Vice-Presidents :* B. R. Chopra, Guru Dutt; *Hon. Treasurer :* F. C. Mehra; *Secy. :* I. K. Menon.

INDIAN NATIONAL STEAMSHIP OWNERS' ASSOCIATION

Scindia House, Ballard Estate, Bombay 1.

President : A. Ramaswami Mudaliar; *Vice-President :* G. T. Kamdar; *Hon. Treasurer :* J. M. Kapadia; *Hon. Secretary :* J. P. Shah; *Secretary :* S. K. Aier.

INDIAN OIL AND PRODUCE EXPORTERS' ASSOCIATION

57-59, Kazi Syed Street, Bombay 3.

President : Ratilal M. Gandhi; *Chairman :* Tulsidas M. Vishram; *Vice-Chairman :* A. B. Kotak; *Hon. Treasurer :* H. P. Nopany; *Hon. Secretary :* J. J. Tanna; *Secretary :* R. C. Sheth.

INDIAN PAINT & ALLIED INDUSTRIES ASSOCIATION

Botawala Bldg., 2nd Floor, 8, Horniman Circle, Bombay 1.

President : L. U. Shegaonkar; *Secretary ;* N. K. Meghani; *Treasurer :* N. M. Shah.

THE INDIAN PHARMACEUTICAL ASSOCIATION

Kalam Kutir, 3rd Floor, 213-19, Frere Road, Fort, Bombay 1.

President : Prof. M. L. Khorana; *Hon. Gen. Secretary :* Dr. J. N. Banerjee; *Editor :* Dr. G. B. Ramasarma.

INDIAN ROADS & TRANSPORT DEVELOPMENT ASSOCIATION, LIMITED

27, Bastion Road, Bombay 1.

The Association has its headquarters in Bombay and branches at Calcutta, Bombay, Madras, New Delhi and Gauhati.

President.—Chinubhai Khilachand; *Secretary :* C. S. Nair.

INDIAN RUBBER INDUSTRIES ASSOCIATION

12, Rampart Row, Fort, Bombay 1.

President : L. M. Jamnadas; *Gen. Secretary :* D. S. Kulkarni; Tel. No. 252015. Grams: "AMINDUL."

INDIAN SALT MANUFACTURERS' ASSOCIATION

C/o Tata Chemicals Ltd., Bombay House, Bruce Street, Bombay.

Chairman : J. D. Choksi; *Vice-Chairman :* P. A. Narielwala; *Hon. Secy. & Treasurer :* A. K. Banerjee.

INDIAN SOCIETY OF ADVERTISERS LTD.

Army and Navy Building, Mahatma Gandhi Road, Bombay 1.

Chairman.—Chinubhai Kilachand; *Vice-Chairman :* Philip H. Brown; *Executive Secretary :* Pothen Philip. Telephone: 255398. Telegrams: "CAMPAIGN".

INDIAN STOCK EXCHANGE LTD.

Yusuf Building, 43, Mahatma Gandhi Road, Bombay 1.

DIRECTORS:

President : Sir Chunilal B. Mehta, Kt.; *Other Directors :* Maneklal Chunilal Shah; Trambaklal Amulakh; Ghelabhai B. Patel; Mansukhlal M. Bhayani; *Secretary :* Manharlal J. Tolia.

THE INDIAN TOBACCO MERCHANTS' ASSOCIATION LTD.

C/o Clive Road, Bombay 9.

Chairman : Shantilal U. Shroff; *Secretary :* Y. P. Sarwate, M.A.

INSURANCE ASSOCIATION OF INDIA BOMBAY REGIONAL COUNCIL

Radia House, 6, Rampart Row, Bombay 1.

Chairman : S. K. Desai, B.A., LL.B., F.F.I.I.; *Dy. Chairman :* J. L. Bisell, F.C.I.I.; *Secretary :* Vaman H. Thakor, B.A., LL.B., Advocate (O.S.), A.F.I.I.

IRON, STEEL & HARDWARE MERCHANTS CHAMBER OF INDIA

"Steel Chambers," 153, Narayan Dhuru Street, Bombay 3.

President : T. K. Gupta; *Sr. Vice-President :* Deviprasad Khandelwal; *Hon. Gen. Secy. :* Ambalal G. Shah; *Hon. Secretaries :* S. M. Gupta, D. K. Aggarwal; *Hon. Adviser :* H. B. Gupta; *Secy. :* S. P. Khosla.

LEATHER GOODS MANUFACTURERS' & DEALERS' ASSOCIATION

157, Princess Street, Bombay 2.

President : Shankerlal C. Parikh; *Vice-President :* Dharamsi P. Shah; *Hon. Gen. Secretary :* M. K. Bhagwat; *Secretary :* K. B. Mody.

THE MAHARASHTRA GRAIN & PROVISION MERCHANTS' ASSOCIATION LTD.

C/o G. D. Bodas & Co., 27, Zaoba Wadi, Thakurdwar, Bombay 2.

President : S. N. Gurjar; *Vice-President :* G. V. Velankar; *Treasurer :* J. G. Kashelkar; *Hon. Secretary :* R. D. Barve.

MARITIME UNION OF INDIA

204, Dr. Dadabhoy Naoroji Road, Bombay 1.

The Union is recognised by the principal shipping companies and is represented on the National Shipping Board, National Welfare Board for Seafarers, Merchant Navy Training Board and on the Councils of the International Transport Workers' Federation and the Officers' (Merchant Navy) Federation Ltd., London and also on the Joint Maritime Commission of the International Labour Organisation.

The Union's quarterly publication the "OCEANITE" is the only maritime magazine in India.

President : Capt. W. L. Atkinson; *General Secretary :* J. D. Randeri.

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MARWAR JAIN MERCHANTS' ASSOCIATION
Bhoiwada, Parel, Bombay 12.

METAL TRADE & INDUSTRIES ASSOCIATION OF INDIA LTD.
31, Mirza Street, Bombay 3.

Directors : A. H. Baldota, C. A. Mehta , C. C. Lalwani, M. S. Mehta.

MILK POWDER MERCHANTS' ASSOCIATION
418, Crawford Market, Bombay 1.

THE MILL GIN STORE MERCHANTS' ASSOCIATION
88/92, Nagdevi Cross Lane, Bombay 3.

President.—Dahyabhai T. Shah.
Hon. Secretaries.—Kantilal R. Tripathi, Ramniklal M. Shah.

MILLOWNERS' ASSOCIATION, BOMBAY
Elphinstone Building, Veer Nariman Road, Bombay 1.

Office-bearers for the year 1961-62 : Pratap Bhogilal (*Chairman*), D. S. Bakhle (*Deputy Chairman*), T. V. Baddeley, Krishnaraj M. D. Thackersey, Neville N. Wadia, G. D. Somani, Ramnath A. Podar, Radhakrishna Ramnarain Ruia, M. L. Tapuriah, S. P. Jain, Arvind N. Mafatlal, Naval H. Tata, Babulal Puranlal Bubna, F. H. Kemple, C. H. Campbell, Chandrakant Mulraj Khatau, A. N. Haksar, J. J. Ashar, Pallonji Shapoorji Mistry, Pratapsinh Mathuradas, Gopikisan Piramal, B. G. Kakatkar (*Secretary*), R. G. Gokhale (*Labour Officer*).

MILLOWNERS' MUTUAL INSURANCE ASSOCIATION, LTD.
Elphinstone Bldg., Veer Nariman Road, Fort, Bombay.

Directors : Neville N. Wadia (*Chairman*); B. L. Bubna; T. V. Baddeley, C.B.E.; C. M. Khatau; V. M. Merchant; C. H. Campbell; F. Edwards.
A. C. M. Cursetjee, M.A., LL.B., *Secretary.*

MOTOR MANUFACTURERS' & IMPORTERS ASSOCIATION, LTD.
Bank of Baroda Building, Apollo Street, Bombay 1.

Chairman.—Dr. J. M. Rane; *Vice-Chairman.*—Habib N. Chinoy.
Secretary :—C. W. Lloyd, F.C.A.

MYRABOLLAMS MERCHANTS' ASSOCIATION
104-108, Clive Road, Dana Bunder, Bombay 9.

President : Darasha P. Tata ; *Hon. Secretary :* Chimanlal M. Shah.

NATIONAL EMPLOYERS' MUTUAL GENERAL INSURANCE ASSOCIATION LTD.
Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay.

Manager for India.—K. L. Pasricha. *Branch Manager.*—H. K. F. Nariman.

Chief Office for Northern India.—4, Peareylal Building, Queensway, New Delhi. *Manager.*—M. L. Pasricha.

NATIVE SHARE AND STOCK BROKERS' ASSOCIATION
Sir Dinshaw Petit Brokers' Exchange Hall, Dalal Street, Bombay 1.

President : K. R. P. Shroff; *Vice-President :* Kantilal Ishvarlal; *Hon. Treasurer :* Dhirajlal Maganlal; *Secretary :* P. J. Jeejeebhoy; *Asstt. Secretary :* A. J. Shah.

NON-POWER SOAP MANUFACTURERS' ASSOCIATION
380, Girgaum Rd., Bombay 2.

President : C. D. Shah ; *Vice-President :* H. P. Thakker ; *Treasurer :* R. C. Doshi.
Total Membership : 465 (Spread all over India).

PAPER TRADERS' ASSOCIATION
54, Sutar Chawl, Bombay 2.

President : R. K. Gandhi ; *Vice-President :* J. M. Patel; *Jt. Hon. Secretaries :* K. C. Goel, R. B. Parikh ;*Hon. Treasurer :* Ravikant S. Shah.

PARSI CENTRAL ASSOCIATION CO-OPERATIVE HOUSING SOCIETY, LTD.
Bombay Mutual Annexe, Gunbow Street, Bombay 1.

Chairman.—E. A. Nadirshah, *Jt. Hon. Secretaries .*—N. Khursedji ; N. F. Bilia.
Jt. Hon. Treasurers.—K. A. Tata; H. D. Katrak.

PEARLS IMPORTERS' & EXPORTERS' ASSOCIATION
80-AB, Sheikh Memon Street, Bombay 2.

President : Popatlal B. Shah ; *Secretaries :* Javahar M. Jhaveri, Pravin M. Nanavati.

PEPPER & GINGER MERCHANTS' ASSOCIATION LIMITED
319-21, Narsi Natha Street, Bombay 9.

President : Vallabhdas V. Mariwala ; *Vice-President :* Javerchand Padamsi ; *Hon. Secretary :* Anandji B. Nagda ; *Secretary :* D. N. Shah.

THE PERFUMERY RAW MATERIALS TRADE ASSOCIATION
Devkaran Mansion, 2nd Floor, 45/47, Princess Street, Bombay 2.

President : P. C. Patel; *Vice-President :* Kedarnath Gorowara ; *Treasurer :* Hakim Rai Khanna; *Hon. Secretaries :* K. N. Shah, S. D. Nadkarni.

THE PETROL DEALERS' ASSOCIATION
32, Hughes Road, Bombay 7.

President : R. S. Vatcha ; *Vice-President :* Jethlal Mehta; *Treasurer :* Shantilal Mody.

PHARMACEUTICAL AND ALLIED MANUFACTURERS' AND DISTRIBUTORS' ASSOCIATION, LTD.
C/o Bombay Chamber of Commerce and Industry, Mackinnon Mackenzie Building, Ballard Estate, Bombay 1.

President : Col. T. S. Uberoi; *Vice-President :* Dr. D. T. Modi; *Hon. Secretary :* L. E. Schofield ; *Hon. Treasurer :* J. Reece.

THE PLASTICS AND LINOLEUMS EXPORT PROMOTION COUNCIL
Maharashtra Chamber of Commerce Bldg., 12, Rampart Row, Bombay 1.

Chairman : R. N. Desai; *Vice Chairman :* Dr. C. L. Gupta ; *Secretary :* D. S. Swaminathan.

PROPERTY OWNERS' ASSOCIATION
C/o Bansilal Mansion, 11, Bruce Street, Bombay 1.

President : R. C. Rele.

RAW SILK MERCHANTS' ASSOCIATION
Kilachand Bldg., 39/43, Abdul Rehman St., Bombay.

President : P. N. Shah ; *Vice-President :* B. B. Shah ; *Hon. Secretary :* M. G. Shroff ; *Hon. Treasurer :* R. T. Shah.

THE REFRIGERATION AND AIR CONDITIONING TRADES ASSOCIATION LIMITED
8, New Queen's Road, Opera House, Bombay 4.

President : Mohan T. Advani ; *Vice-President :* Dr. J. M. Rane ; *Hon. Treasurer :* N. K. Limji ; *Hon. Secretary :* H. K. Ghose ; *Dy. Secretary :* R. R. Sreenivasaiah.

THE SCIENTIFIC & SURGICAL INSTRUMENT MANUFACTURERS' & TRADERS' ASSOCIATION
221, Sheriff Devji Street, Bombay 3.

President : E. B. Rajderkar.

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SCRAP TRADERS' & EXPORTERS' ASSOCIATION

"Scrap House", Quay Street, Darukhana, Bombay 10.

President : S. A. Nathani ; *Vice-President :* A. M. Elijah ; *Secretary :* T. S.-Seetaram.

THE SHUTTLE MANUFACTURERS' ASSOCIATION

105, Apollo Street, Fort, Bombay.

SILK & ART SILK MILLS' ASSOCIATION LTD.

Resham Bhavan, 78, Veer Nariman Road, Bombay 1.

Chairman : D. N. Shroff ; *Vice-Chairman :* Surendra M. Mehta ; *Secretary :* Zarine Bharucha.

SILK & RAYON TEXTILES EXPORT PROMOTION COUNCIL

Resham Bhavan, 78, Veer Nariman Road, Bombay 1.

Chairman : D. N. Shroff ; *Secretary :* O. P. Dhawan.

SILK MERCHANTS' ASSOCIATION

Dahanukar Building, Kalbadevi Road, Bombay 2.

President : Lalbhai P. Shah ; *Vice-President :* Kishmichand N. Daryanani ; *Hon. Secretary :* Laxmichand Dulabhji ; *Hon. Jt. Secretary :* Manilal Bapulal ; *Treasurer :* J. Kumatrai & Co.

SOUTH INDIAN CO-OPERATIVE CONSUMERS' SOCIETY LTD.

Telang Road, Matunga, Bombay 19.

Chairman : A. V. Aiyer ; *Hony. Secretary :* S. C. Sekar.

STAINLESS STEEL MERCHANTS' ASSOCIATION

253, Harihar Niwas, Khetwadi 3rd Lane, Bombay 4.

President : Ramanlal Mohanlal Parikh ; *Hon. Secretaries :* Manmohandas Lallubhai Shah, K. B. Aggrawal, B.A. (Hon.), C.A.I.I.B. ; *Adviser :* Gangadas Pragji Mehta.

THE STOCK EXCHANGE

Dalal Street, Bombay 1.

President : K. R. P. Shroff ; *Vice-President :* Kantilal Ishvarlal. *Secretary :* P. J. Jeejeebhoy.

THE TEXTILE ASSOCIATION (INDIA)

72-A, Shivaji Park Road, No. 1, Bombay 28.

The Association is a central body of technical and supervisory staff in textile mills all over India with twelve branches.

TEXTILE MACHINERY MANUFACTURERS' ASSOCIATION

87, Veer Nariman Road, Bombay 1.

THEOSOPHY COMPANY (INDIA) PRIVATE LIMITED

Theosophy Hall, 40, New Marine Lines, Bombay 1.

President.—Madame Sophia Wadia ; *Hon. Secretary.*—N. A. Subramaniam.

THE TIMES OF INDIA CO-OPERATIVE STORES LIMITED

Times Building, Dr. Dadabhai Nowroji Road, Bombay 1.

President : J. C. McNab ; *Chairman :* M. F. Kavina ; *Hon. Jt. Secretaries :* S. J. X. Rego, R. S. Mani.

Committee Members : F. Correa, N. K. Krishna, A. Mendes, S. Swarup, S. A. Hameed J. Collasco.

Control Committee : P. Ramakrishna, S.W. Punwani, B.L. Banerjee.

THE TIMES OF INDIA EMPLOYEES' CO-OPERATIVE CREDIT SOCIETY LIMITED

President.—J. M. Pinto ; *Vice-President.*—M. F. Kavina ; *Hon. Secretary.*—K. A. Naik, B.A., B.Com., LL.B. ; *Hon. Treasurer.*—M. B. Deshpande, M.Com.

Committee Members : Bruno Carvalho, V. G. R. Naidu, S. A. Rahim, N. A. Sawant, C. F. Desa, B.Com., LL.B., M. B. Rane, G. J. Pinto, M. F. Brown, D. L. Sawant, N. N. Shinde, J. Lopes, R. N. Tiwari, E. J. Bulsara.

Manager : S. N. Chitre, B.Com.

TRACTOR EARTHMOVING AND CONSTRUCTION EQUIPMENT DISTRIBUTORS' ASSOCIATION LTD.

C/o The Bombay Chamber of Commerce & Industry, Post Box No. 473, Bombay 1.

Chairman : W. Williamson ; *Vice-Chairman :* D. J. D. Sussex.

TRADE MARKS OWNERS' ASSOCIATION OF INDIA LTD.

Army & Navy Building, Bombay 1.

Chairman : K. T. Chandy ; *Vice-Chairman :* H. C. Manchanda ; *Secretary :* C. K. R. Rao.

THE TRAVEL AGENTS' ASSOCIATION OF INDIA LTD.

C/o Airfreight (Private) Ltd., Neville House, Nicol Road, Ballard Estate, Bombay 1.

President : J. N. Guzder ; *Vice-President :* V. M. Kotak ; *Hon. Secretary :* N. J. Katgara ; *Hon. Treasurer :* G. L. Kapur ; *Executive Secretary :* J. J. Oonwalla.

THE VANASPATI MANUFACTURERS' ASSOCIATION OF INDIA

India House, Bombay 1.

Chairman : S. H. Turner.

WADI BUNDER FORWARDING AGENTS' UNION

Down Platform No. 12, Wadi Bunder, Bombay 10. (Central Railway.)

President : M. A. Ganatra. *Hon. Secretary :* M. R. Vaishampayan.

WATCH TRADE FEDERATION

11, Pranjivan Bldg., 1st floor, Narayan Dhuru Cross Lane, Bombay 3.

WESTERN INDIA AUTOMOBILE ASSOCIATION

Lalji Naranji Memorial Building, Churchgate Reclamation, Bombay 1.

BRANCH OFFICES.—Ahmedabad : The Cellar, Khanpur ; Poona : 7, Moledina Road, Poona 1 ; Nagpur : C/o Liberty Cinema, Residency Road ; Jaipur : C/o United Motors of Rajasthan.

Patron-in-Chief.—Dr. Rajendra Prasad, President of India.

President : Dahyabhai V. Patel, M.P. ; *Vice-Presidents :* Indrakant C. Patel, Himatlal V. Gandhi ; *Secretary :* Jehangir J. K. Patell, B.A., A.C.A., F.C.C.S., R.A., F.C.R.A., F.I.C.S. ; *Asstt. Secretary :* K. G. Subramanian, B.A.

THE WESTERN INDIA MINERALS ASSOCIATION

3, India House, Fort Street, Fort, Bombay.

Chairman : N. S. Worah ; *Vice-Chairman :* M. L. Doongersey ; *Secretary :* T. K. Uchil.

WESTERN INDIA PHOTOGRAPHIC & ALLIED TRADES ASSOCIATION LTD.

Mangrol Mansion, 1st Floor, 6 Gunbow Street, Bombay 1.

Chairman : G. L. Nayak ; *Vice-Chairman :* P. A. Jejurikar ; *Hon. Secretary :* T. N. Rao.

WESTERN INDIA SHEET ROLLERS' ASSOCIATION

Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay 1.

President : P. R. Kamani ; *Vice-President :* Sham Sundar Agarwal ; *Hon. Secretary :* D. K. Bhatt.

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BENEVOLENT INSTITUTIONS IN GREATER BOMBAY

Note : **Office-bearers and addresses change periodically.**

ABDULHUSAIN KARIMBHAI MOTIWALLA CHARITABLE TRUST

C/o F. K. Motiwalla and Co., 92, Sarang Street, Bombay 3.

President.—Ismail M. Kanga (Solicitor).

Managing Trustee.—Kamruddin A. Motiwalla.

ACWORTH LEPROSY HOME

Wadala, Bombay.

President :—M. G. Pimputkar, I.C.S.

Hon. Secretary.—Dr. R. B. Fondekar, M.B.B.S., B.Hy.

Superintendent.—Dr. N. Figueredo, M.B.B.S., B.Hy.

ALL-INDIA ANIMAL WELFARE ASSOCIATION

149, Shroff Bazar, Bombay 2.

Working Office : 16, Dadabhoy Manzil, Congress House, Bombay 4.

Patron-in-chief : Dr. Rajendra Prasad.

President : S. K. Patil.

Hon. Patrons : Dr. S. Radhakrishnan, Smt. Rukmini Devi Arundale.

Vice-Presidents : Ganpatishankar N. Desai; Madame Sophia Wadia ; Mrs. Mehra D. Malegamvala.

Jt. Hon. Secys. : Mrs. Shêra Noshir Vajifdar ; K. V. N. Swamy; Dinshaw J. Buxey.

Jt. Hon. Treasurers : Miss Freany H. Wadia ; J. N. Mankar.

ANDHRA EDUCATION SOCIETY'S HIGH SCHOOL

T-57, Ex-Military Hutments, Sion Road, Bombay 22.

ANJUMAN-E-MUFIDUL YATAMA

Madanpura, Masjid Jamil, Bombay 8.

This Institution conducts an orphanage and a Primary school named Madrasa-i-Farooqiah. It is a Fit Person Institution recognised by the Maharashtra Government. Magistrates commit destitute boys of educable type till they attain the age of 18 years.

President.—Muhammad Umar Rajab, Ex-M.L.A. & J.P. ; *Secretary.*—S. A. Rahim.

ARTYTOYS INDUSTRIAL SCHEME TRUST

Sir Ratan Tata Welfare Centre, Sir Ratan Tata Road, Tardeo, Bombay-7. Tel. No. 74873.

Director-in-Charge.—H. H. Vaziralli.

Secy. & Treasurer.—D. N. Navder ; *Manager.*—D. B. Mobedji.

ARYA SAMAJ (BOMBAY)

Vithalbhai Patel Road, Arya Samaj Lane, Kakad Wadi.

ARYAN EDUCATION SOCIETY

75, Girgaum Road.

Chairman.—Dr. K. S. Mhaskar ; *Secretaries.*—S. G. Upasani, D. B. Sule ; *Principal.*—R. C. Kher.

ASSOCIATION FOR MORAL AND SOCIAL HYGIENE

(Maharashtra Branch)

42, Queen's Barracks, 63, Foreshore Road, Cooperage, Bombay 1.

Hon. Gen. Secy. : Dr. Camilla da Costa.

ATHORNAN MANDAL

Representative Body for Parsee Priests in India.

Navsari Building, 240, Dr Dadabhoy Naoroji Road, Fort.

AUDYOGIK KALA VIDYA BHAVAN

Opp. Central Cinema, 262, Charni Road, Bombay 4.

Conducts—(1) Industrial Art Teachers' Training College, (2) Industrial Art School, Bombay, (3) Pen Industrial School, Pen, (4) Bassein Industrial School, Bassein and (5) Pali Industrial School, Pali.

President :—W. D. Shambavanekar ; *Gen. Secretary :*—D. S. Walawalkar.

AVABAI HORMUSJI TATA CHARITY TRUST

C/o Messrs. Ardesir Hormusji Dinshaw & Co., 113, Mahatma Gandhi Road, Fort, Bombay 1.

Trustees.—Naval Hormusji Tata ; Mrs. Meherbai P. N. Paymaster ; Adal Bomanji Parakh ; Dady Bapuji Lam ; Faredoon Manekji Dalal.

BABAJI CASSINATH DAIVADNYA CHARITABLE FUND

Hate House, 2nd Dubash Lane, V. P. Road, Bombay 4.

Board of Trustees.—J. M. Hate ; P. P. Revankar ; V. S. Powle; G. D. Sambhare.

BAI AVABAI FRAMJI PETIT PARSI GIRLS' ORPHANAGE

31, Pali Hill, Bandra, Bombay 50.

BAI HIRABAI J. N. PETIT CHARITY BUILDING

189, Lamington Cross Road, Grant Road.

BAI MOTLIBAI WADIA CHARITABLE FUNDS

22-D, Parsi Bazar Street, Fort.

Endowments for scholarships.

Trustees.—Sir Jamsetjee Jeejeebhoy, Bart. ; Sir Rustom P. Masani, Kt. ; C. P. Wadia ; K. J. Khambata, M.A., LL.B., Advocate (O.S.).

Hon. Secretary.—Lieut.-Comdr. D. B. Morris, G.D.A., A.C.A., I.N. (Retd.).

BALVIKAS KENDRA

Tilak Vidyalaya Road, Vile Parle (East), Bombay 24.

The Institute conducts Sou. Ramabai Paranjape Balmandir, a Health Centre and Dance Class.

BAPNU GHAR

12, Annie Besant Road, Near Vallabhbhai Patel Stadium, Hornby Vellard, Worli.

BEGGARS' HOME FOR FEMALES

Chembur, Bombay 71.

Training and Rehabilitation of Beggar Women including Leprosy Women.

The Home is run by the State Government.

THE BENE ISRAEL CONFERENCE EDUCATION FUND

24, Israel Mohalla, First Floor, Bombay 9.

BENE-ISRAEL HOME FOR DESTITUTES AND ORPHANS

Plot 92, Agripada, Jacob Circle, Bombay.

Trustees.—S. I. Solomon, B.A., LL.B., *Chairman ;* Emanuel E. Khulabker, *Hon. Secretary ;* Simon Judah Chandavker, *Hon. Treasurer ;* Moses J. Sankar, Samuel Solomon Sassoonker and Solomon Joseph Bamnolker, *Trustees.*

Superintendent.—Elijah Hyams.

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BENEVOLENT SOCIETY OF BOMBAY DISTRICT

2, Duncan Road, opp. State Bank of India, Byculla.

BHAGINI SAMAJ

Bhagini Samaj Maganlal Ghia Building, 225, Khetwadi Main Road, Bombay.

Welfare activities in the interests of women and children. Has five centres in Bombay. Conducts Montessori, literacy and industrial classes, and library service for women and children. Hostel for Working Women, Physical Culture and Club for Women, Children's Club, Health and Family Planning Centres, *Bhagini Samaj Patrika* (monthly paper). Also conducts village extension projects and nursery classes in Surat District, Ashramshala for backward class girls and boys, Home Science School for girls and Hostel for backward class girls, at Udwada in Surat District.

President.—Smt. Lilavati Banker; *Hon. Secys.*, Smt. Bachuben Lotewala and Smt. Sarojini Mehta.

BHARATIYA VANITA SAMAJ

Nair Mahal, 1st Floor, Tulsi Pipe Road, Bombay 16.

President.—Mrs. Karthika P. Nair.

BILLAWAR ASSOCIATION

17, Raghunath Dadaji Street, Fort, Bombay.
Phone : 265173.

Conducts: Ladies Free Industrial School, Free Reading Room and Library, Seva Dal; caters to the needs of poor destitutes by rendering medical and other general help; awards scholarship to poor and deserving students.

President : N. R. Kotian, B.A. (Hons.), LL.B.

Secretary : K. Malpe, B.A. (Hons.), LL.B.

BLIND RELIEF ASSOCIATION

481, Botawala Building, Kalbadevi Road, Bombay 2.

Hon. Secretaries.—M. N. Chhatrapati, B.A., LL.B. (Advocate), B. B. Kampani, B.A., LL.B. (Advocate).

BLINDMEN'S ASSOCIATION

(Estd. Jan. 1947.)
177–79, Lamington Cross Road, Bombay 7.

Activities : Strives to provide higher education to the deserving blind, to help the blind to start small industries or loan money to them for advancement in their professions and vocations, thus making them self-supporting, to help the blind during the short periods of their unemployment, sickness or other calamities and to provide them with medical aid. It has branches at Poona and Ahmedabad.

The Association also conducts a Braille quarterly magazine in Hindi, *Deepak*. It also conducts a Central Circulating Braille Library in Gujarati and Marathi and has so far transcribed into Braille about 360 volumes. A special out-door recreational centre for blind children has been started at Bal-Bhavan. It has introduced a "Talking Magazine" for the blind, the first of its kind in Asia, which was inaugurated by the President Dr. Rajendra Prasad at Rashtrapati Bhavan on 5th January 1957.

BLIND RELIEF ASSOCIATION

481, Botawalla Bldg., Kalbadevi Road, Bombay 2.

Hon. Secretaries : M. N. Chhatrapati, B. B. Kampani.

BOMBAY CITY AMBULANCE CORPS

21, Marine Lines (Tel. 24-1255).

Free First Aid and Ambulance Service Station—all days, all hours.

Officer Commanding.—Major Batuk H. Mehta.

THE BOMBAY CITY COUNCIL FOR CHILD WELFARE

50, B.D.D. Chawl, Worli, Bombay-18.

BOMBAY CITY RED CROSS BLOOD TRANSFUSION SERVICE

Red Cross Office, 141, Mint Road.

Chairman :—Dr. H. S. Mehta, M.S.; *Hon. Secretary.*—B. S. Dadyburjor, LL.B.; *Hon. Treasurer :*—Dr. (Miss) Gool N. Vazifdar, M.D., F.C.P.S.; *General Secretary.*—Dr. J. N. Vazifdar, M.B.B.S., M.C.P.S.

BOMBAY EUROPEAN RELIEF ASSOCIATION

Office : Cook's Bldg., 2nd Floor, Dr. Dadabhoy Naoroji Road, Bombay 1; *Relief Office :* 115, Love Lane, Mazagon, Bombay 10.

General Committee.—B. Barker, M.B.E. (*Chairman*); R. A. Swinton-Eagle (*Honorary Treasurer*).

The following institutions are affiliated to the Association :—

Poor Fund, European Pensioners' & Widows' Home, Mazagon, Strangers' Friend Society.

BOMBAY FAMILY PENSION FUND OF GOVERNMENT SERVANTS

204, D. Naoroji Road, Fort, Bombay.

BOMBAY HUMANITARIAN LEAGUE

(SHREE JIVA DAYA MANDALI)—149, Shroff Bazar, Bombay 2.

BOMBAY INSTITUTION FOR DEAF AND MUTES

Nesbit Road, Mazagon.

Patron.—Valerian Cardinal Gracias, Archbishop of Bombay.

President.—D. J. Ferreira, B.A., LL.B., J.P., Solicitor, Bombay.

Hon. Secretary.—Joseph H. Miranda, B.A., LL.B.; *Hon. Medical Supdt.*—Dr. (Miss) U. M. Lobo, L.M. & S., M.B.E., W.M.S. (Retd.).

BOMBAY LEGAL AID SOCIETY

Hamam House, Hamam Street, Bombay 1.

The object of the Society is to make justice more readily accessible to the poor.

Patron.—Mr. Justice H. K. Chainani, Chief Justice of Bombay.

President.—C. F. George.

Hon. Secretary.—Nayan H. Pandia.

THE BOMBAY MOTHERS AND CHILDREN WELFARE SOCIETY

No. 10, B.D.D. Chawl, DeLisle Road, Bombay No. 11.

Chairman :—Lady Cowasji Jehangir.

Hon. Treasurer :—K. S. Sethna; *Hon. Secretaries :*—Dr. K. S. Mhaskar, Dr. H. V. Tilak.

Executive Secretary :—Vasant P. Borkar.

BOMBAY NURSING COUNCIL

Zorastrian Bldg., 2nd Floor, 16, Horniman Circle, Bombay 1.

President.—Dr. A. N. de Quadros, F.R.C.S. (Eng.).

Vice-President :—Dr. R. N. Cooper, F.R.C.S. (Eng.); *Special Officer :*—P. N. Mazumdar, M.A. (Lond.), B.A., LL.B.; *Registrar :*—Mrs. K. B. Chohan, B.A., LL.B.

BOMBAY PARSI PASTAKIA ANJUMAN FUND

TRUSTEES OF THE FUND.—Fardunji Framji Guard; Ruttansha Dadabhoy Rustomjee Bhabha; Burjor Dadabhoy Bhabha; Ardeshir Maneckji Jilla; Kaikhushroo Framroze Tamboli.

MANAGING TRUSTEE.—Ruttansha Dadabhoy Rustomjee Bhabha, Meher Mansion, near Tardeo Bridge, Tardeo, Bombay 8.

BOMBAY PINJRAPOLE

Post Girgaon, Bombay 4.

Has branches in Bhiwandi, Raita and Chembur. It has a breeding centre for the best Gir cows and gives animals to farmers and tillers almost free of charge.

Secretary.—Dasharathalal Manilal Thaker.

Permanent Chairman, Board of Trustees.—Sir Jamsetjee Jejeebhoy, Bart.

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BOMBAY SOCIETY FOR THE PREVENTION OF CRUELTY TO ANIMALS
including
BAI SAKARBAI DINSHAW PETIT HOSPITAL FOR ANIMALS

No. 1, Govt. Gate Road, Parel, Bombay 12.

BOMBAY STATE* COUNCIL FOR CHILD WELFARE

No. 10, B.D.D. Chawl, Delisle Road, Jacob Circle, Bombay 11.

President :—Lady Cawasji Jehangir ; *Vice-President and Chairman* :—Smt. Tarabai Premchand ; *Hon. Secretary* :—Dr. K. S. Mhaskar ; *Hon. Treasurer* :—P. R. Bhatt.

BOMBAY STATE* WOMEN'S COUNCIL

Town Hall, Fort.

(*See under Women's Associations*).

BOMBAY SUBURBAN MEDICAL AND RELIEF SOCIETY

C/o The Jasmine Ladies Welfare Union, Turner Road, Bandra, Bombay 50.

BRITISH WOMEN'S ASSOCIATION

Cook's Bldg., 3rd Floor, Dr. D. Naoroji Road, Bombay 1.

BYRAMJEE JEEJEEBHOY PARSEE CHARITABLE INSTITUTION

Opp. Charni Road Rly. Station, Bombay 4.

Board of Trustees : Nanabhoy Byramjee Jeejeebhoy (*Chairman*), Rustomjee J. R. B. Jeejeebhoy (*Managing Trustee*).

Principal.—P. B. Bamboat, B.A., B.T.

CHILD GUIDANCE CLINIC OF THE TATA INSTITUTE OF SOCIAL SCIENCES

Bai Jerbai Wadia Hospital for Children, Parel.

ACTIVITIES : Treatment centre for children presenting difficulties of adjustment and habit, personality and behaviour problems. A laboratory for students of social work and students of child psychiatry. The Clinic is open every day and new cases are registered on Tuesdays and Fridays. Holds lectures for doctors. Also lectures before parent-teacher groups. Mental testing is done at the Clinic. The Clinic functions as part of the Tata Institute of Social Sciences.

Head.—Dr. (Miss) G. R. Banerjee.

CHILDREN'S AID SOCIETY, BOMBAY

83, Lady Hardinge Road, Mahim, Bombay 16.

COUNTESS OF DUFFERIN FUND

Raj Bhavan, Bombay 6.

Nature of Body : Endowments for female medical aid.

Hon. Secretary and Treasurer, R. N. Bhavnagri, 113, Mahatma Gandhi Road, Bombay.

COWASJI BEHRAMJI DIVECHA TRUST

Darya Building, 375, Dr. Dadabhoy Naoroji Road, Fort.

Nature of Body : Endowments for Maintenance, Education, Medical Relief, etc.

CURRIMBHOY IBRAHIM KHOJA ORPHANAGE

Mount Petit Bungalow, Baghe Karim, Altamount Road, Bombay 26.

DABHOLKAR SCHOLARSHIP ADVISORY BOARD

22, Horniman Circle, Fort, Bombay 1.

DADAR BHAGINI SAMAJ

3rd Lane, Hindu Colony, Dadar, Bombay 14.

Industrial classes, welfare centre and family planning.

President : Smt. Prabhawati V. Gupte.

DADAR PARSI WELFARE CENTRE

Imperial Mahal, A-I, Khodadad Circle, Dadar and Munsiff Building, 635, Joshi Road, Parsi Colony, Dadar.

Hon. Secretaries.—H. D. Katrak ; K. A. Tata ; *Hon. Treasurer*.—Mrs. D. S. Bharucha.

DADAR SCHOOL FOR THE BLIND

160, Dadasaheb Phalke Road, Dadar, Bombay 14.

President.—Kamalnayan Bajaj ; *Hony. Secretaries*.—Champaklal G. Modi, B.A., LL.B., J.P. ; Smt. S. R. Potnis, B.A., LL.B. ; Smt. Sudha V. Bhandarkar ; *Principal*.—Kum. N. K. Ajgaonkar, B.A., LL.B.

DAUGHTERS OF THE CROSS, LIEGE, BELGIUM

St. Joseph's Convent, Bandra.

DAUGHTERS OF MARY IMMACULATE

Villa Vincenta, 2, Convent Street, Fort, Bombay 1 and also at Regina Pacis, Love Lane, Byculla, Bombay 27.

The institution conducted by this Congregation comprises: (1) 2 Homes for destitute children ; (2) 2 Recreation and Social Centres for young female domestic servants ; (3) 2 Free Dispensaries for the Poor (Holy Name Dispensary and Regina Pacis Free Dispensary) ; (4) Hostels for young business women students.

DAWOODI BOHRA SOCIETY

Maskati House, Mohamedalli Road.

DEPRESSED CLASSES MISSION SOCIETY OF INDIA

112, Medows Street, Fort.

President :—Mangaldas M. Pakvasa ; *Hon. General Secretary* :—N. S. Kajrolkar ; *Chairman* :—M. B. Maniar, Bar-at-Law ; *Hon. Treasurer* : U. H. Kulkarni.

DR. DHIRAJRAM DALPATRAM AND BAI DAHIGAORI CHARITABLE TRUST

Tulsi Villa, Harvey Road, Gamdevi.

THE DIAMOND JUBILEE TRUST

Khoja Jamatkhana Compound,
Chinchbunder Road, Khadak, Bombay 9.

President :—M. R. Chinoy.

Hon. Jt. Secy. :—Mrs. Zarina E. G. Currimbhoy, J.P. ; *Hon. Jt. Secy.* :—Haji Mahomed Jamal, J.P.

DISTRICT BENEVOLENT SOCIETY OF BOMBAY

Sir J. J. Dharmasala, opp. State Bank of India, Byculla Branch.

Committee Members.—Sir Jamsetjee Jeejeebhoy, Bart., *Chairman* ; G. Ross Thomas, *Hon. Treasurer* ; *Secretary*.—Mrs. Jer N. Gobhai ; *Jt. Hon. Secretary*.—Dr. Mrs. B. M. Dubash ; *Assistant Secretary*.—Mrs. N. J. Patel.

FAMILY PLANNING ASSOCIATION OF INDIA

1, Metropolitan House, Dadabhai Naoroji Road, Bombay 1.

The Association was established in 1949 and conducts (*a*) a *Family Welfare Centre* (Kutumb Sudhar Kendra), where advice on and assistance in birth control are given at premises in the Bombay Central Station Compound, Lamington Road North, Bombay 4 ; with Branch services in B.D.D. Chawls, DeLisle Road, Mahim and Kurla under the direction of Dr. V. N. Shirodkar ; (*b*) *Family Welfare Bureau* where treatment for infertility and subfertility is available,

* Bilingual.

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at premises in the New Hospital for Women, New Queen's Road, Bombay 4, under the direction of Dr. G. M. Phadke with a panel of Specialists; (c) family planning clinics are being run in Badlapur village and Kalyan Refugee Camp; (d) clinics are also being conducted by the Association at the Reserve Bank Colonies in Byculla and Mahim, at the Century Mills and Spring Mills; (e) the Association also conducts a free library and reading room at 1, Metropolitan House, Dadabhai Naoroji Road, Bombay 1; (f) it publishes a monthly bulletin 'Planned Parenthood' giving information and general news items on family planning; (g) edits and publishes a quarterly magazine, "The Family Welfare Journal"; (h) issues literature, pamphlets in various languages for educational purposes; (i) the Association arranges lectures in various languages, question and answer meetings and film shows for educative propaganda; (j) specialised training courses are conducted for doctors, health visitors and social workers, not only at Headquarters, but in other parts of the country by a touring training team; (k) the Association has arranged three All India Conferences, and two International Conferences on Family Planning, where eminent experts from many countries have participated; (l) a Supply Department is maintained for the distribution of contraceptives to clinics all over India, which require all varieties of contraceptive appliances; (m) the following are the Branches of the Association: Agra, Ajmer, West Bengal, Bombay, Andhra Pradesh, Delhi, Indore, Jalpaiguri, Jamnagar, Kalchini, South Kanara, Madras, Manipur, Ahmedabad, Miraj, Bhavnagar, Bihar Jabalpur, Mysore State, Punjab, Tiruchirapalli, Trivandrum, Vidarbha and Midnapore.

The Association is affiliated to the International Planned Parenthood Federation.

President.—Smt. Dhanvanthi Rama Rau.

Vice-President.—Smt. Premlata Gupta, Lt.-Col. Dipak Bhatia, Dr. N. P. Tripathi.

Hon. Gen. Secretary.—Smt. Avabai B. Wadia.

Jt. Hon. Treasurers.—Smt. Vaidehi Char, Smt. M. S. H. Jhabvala.

FAMILY SERVICE CENTRE

5, Convent Street, Fort, Bombay.

A counselling agency for families and individuals with a trained Social Work Staff.

President.—Valerian Cardinal Gracias.

THE FAMILY WELFARE AGENCY

209, Dadabhai Naoroji Road, Fort.

FELLOWSHIP OF THE PHYSICALLY HANDICAPPED

No. 7, Queen's Barracks, Foreshore Road, Backbay Reclamation, Bombay 1.

President: Mrs. Fathema Ismail; *Vice-President:* H. B. Kher; *Hon. Gen. Secretary:* Mrs. S. K. Kothavala; *Associate Hon. Gen. Secy.:* Mrs. B. Ratanlal; *Hon. Treasurer:* D. P. Guzdar; *Assoc. Hon. Treasurer:* V. H. Karmakar.

FREE OPHTHALMIC HOSPITALS SOCIETY

Jehangir Merwanji Road, Poibavdi, Parel, Bombay 12.

President.—Khan Saheb Haji Hyderally Haji Bachooally, J.P.

Hon. Secretary.—Dr. M. K. Sathe.

Hon. Treasurer & Mg. Trustee.—Dr. S. V. Oak.

GANDHI SEVA SENA

12, Ness Baug, Nana Chowk, Bombay 7.

The Gandhi Seva Sena conducts (a) a Village Industries Shop, (b) a Ration Shop, (c) a Khadi Shop and a free work Class for Women for Embroidery Work only on Khaddar-Hand-spun and hand-woven cloth.

It also conducts 2 Night Schools for men and boys at Bandra and Khar respectively since several years.

GARIB ZARTHOSTIONA REHETHAN FUND

Rustom Building, Vir Nariman Road, Fort.

GHATKOPAR BALKAN-JI-BARI

Prafulla Nivas, Agra Road, Ghatkopar, Bombay 39.

Conducts various child welfare activities.

GIRDHAR JIVA CHARITY TRUST

88, Dadyseth Agiary Lane, Bombay 2.

Trustee: Jamnadas Harjivandas.

GOCULDAS TEJPAL BOARDING SCHOOL & SANSKRIT PATHSALA

Tejpal Road, Gowalia Tank, Bombay.

Boarding School admits poor deserving Students for degree courses in Arts, Science and Commerce, as free, half free and paying students. Pathsala prepares students upto the Acharya examinations in Sahitya, Vyakaran and Jyotish.

Superintendent.—Dayashanker Madhavji Bhatt, B.A., S.T.C., LL.B.

GOCULDAS TEJPAL CHARITIES

7, Bastion Road, Fort, Bombay.

GOCULDAS TEJPAL NURSING ASSOCIATION

Forbes Building, Home Street, Fort, Bombay 1.

Chairman.—Dr. R. N. Cooper, M.S. (Lond.), F.R.C.S. (Eng.).

Hon. Secretary & Treasurer.—J. D. Smithard, M.A. (Oxon.).

GOVERNOR'S HOSPITAL FUND FOR BOMBAY

C/o Jehangir J. K. Patell, W. I. A. A., Post Box No. 211, Bombay 1.

Chairman.—N. B. Jeejeebhoy; *Joint Hon. Secretaries.*—Khatau G. Dayal, Jehangir J. K. Patell; *Hon. Treasurer.*—E. Golwalla.

GOWALIA TANK ROAD PARSI WELFARE CENTRE

President.—H. N. Dallas; *Vice-President.*—Adi K. Munshi; *Jt. Hon. Secretaries:*—R. D. Bugwadia and N. B. Cardmaster; *Jt. Hon. Treasurers.*—H. H. Panthaky and M. K. Saklatwala. All communications to be addressed to R. D. Bugwadia, Forjett Cross Lane, Bombay 26.

HABONIM WORK ROOM

55, Forbes Street, Fort.

Women and girls from all strata of society are admitted. For deserving people, free training, free meals every afternoon; free medical attention and bus transportation fees are given.

President and Founder-member: Mrs. E. Judah.

HAJI ALLARAKHIA RAHIMTOOLA SONAWALLA CHARITY TRUST (WAKF) FUND No. 1.

Khetwadi 9th Lane, Bombay 4.

President:—Husseinally M. Visram.

Managing Trustee:—Valimahomed Haji Alarakhia Sonavala.

HAJI ALLARAKHIA RAHIMTOOLA SONAWALLA CHARITY TRUST (WAKF) FUND No. 2.

Khetwadi 9th Lane, Bombay 4.

President:—Jagadishbhai K. Munshi.

Managing Trustee:—Valimahomed Haji Alarakhia Sonavala.

HAPPY HOME & SCHOOL FOR THE BLIND

B. D. D. Chawl 52, 3rd Floor, Worli, Bombay 18.

This charitable residential institution for blind boys between 6 and 20 and fully secular, is the only one of its kind to provide for street blind and delinquents. It was started in 1925. It aims at giving educational and vocational training to blind juvenile boys. Music both instrumental and vocal as well as cane-work, weaving, net-work, sewing, knitting, dramatics, physical culture, scouting, etc. are taught, with a view to making them self-supporting. It gives general education in Marathi and Gujarati upto the 7th standard. Hindi and a little bit of English are also taught. Special attention is paid to developing the character of inmates and turn them into useful citizens thus saving them from becoming beggars.

There are 60 inmates with room for 60, funds permitting.

President:—Kamalnayan Bajaj; *Hon. Secretary:*—Mrs. Coomi Sohrab Bharoocha, 63, Pedder Road, Bombay 26.

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HARIJAN SEVAK SANGH

(Bombay Provincial Board)
C/o Congress House, Bombay 4.

President.—N. S. Kajrolkar.
Hon. Secretary.—H. N. Trivedi, J.P.

HIND KUSHTA NIVARAN SANGHA

Maharashtra State Council, Red Cross Office, 141, Mint Road, Bombay 1.

President.—The Minister for Health, Maharashtra.
Hon. Secy. & Treasurer.—Dr. J. N. Vazifdar, M.B.B.S., M.C.P.S.

HINDU DEEN DAYA SANGH

Plot No. 255-56, Sion Road, Bombay 22.
A foundling home for infants and orphans.

President.—Mangaldas M. Pakvasa. *Trustees.*—Bhavanji A. Khimji, M.P., Madhavalal H. Shah, Liladhar P. Shah, Navalmal K. Firodia, B.Sc. *Chairman.*—Prabhashanker R. Bhatt, *Vice-Chairman.*—Dr. D. D. Vora, M.D., M.R.C.P.; Nathalal M. Parekh. *Hon. Secretaries.*—Pravinchandra T. Shah, Dipchand M. Shah, Smt. Siddhida A. Trivedi. *Hon. Treasurer.*—Laxman G. Vinze.

HINDU SEVAK SAMAJ

C/o Mrs. Usha Khandwalla, Fulchand Nivas, Chowpatty Sea Face.

HINDU WOMEN'S RESCUE HOME SOCIETY

(Shraddhanand Mahilashram.)
King's Circle, Matunga (C. Rly.), Bombay.

President.—Mrs. Tarabai M. Premchand.
Chairman.—N. H. Pandia.
Hon. Treasurer.—K. H. Dhamdhere. *Joint Hon. Secretaries.*—S. S. Navare, R. S. Tatke.

HOLY NAME DISPENSARY & HEALTH CENTRE

Conducted by the Daughters of Mary Immaculate.
Villa Vincenta, Convent Street, Fort.

INDIAN CONFERENCE OF SOCIAL WORK

42, Queen's Barracks, Foreshore Road, Bombay 1.

The Central Office is situated in Bombay and it serves as a clearing house of information and a central body for planning, co-ordinating and collaborating social work in India. A Regional Office of the International Conference of Social Work for the Far East with jurisdiction from Australia to Iraq, also functions in co-operation with the Central Office of I.C.S.W.

INDIAN COUNCIL FOR MENTAL HYGIENE

Cambatta Chambers, 42, Queen's Road, Bombay 1.

Chairman: K. R. Masani.

INDIAN RAILWAY PASSENGERS CONFERENCE ASSOCIATION

23, Bell Bldg., 2nd floor, Sir Pherozeshaw Mehta Road, Bombay 1.

President: C. B. L. Bhatnagar; *Vice-President:* M. J. Divwalla; *Gen. Secy.:* Prem Bhatnagar.

INDIAN RED CROSS SOCIETY

(Bombay* State Branch.)
141, Mint Road, Bombay 1.

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Chairman.—Commandant General M. J. B. Maneckji.
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General Secretary.—Dr. J. N. Vazifdar, M.B.B.S., M.C.P.S.
Asstt. Secretary.—Miss M. Frenchman.

INDIAN SAILORS' HOME SOCIETY

Musjid Siding Road, Bombay 9.

Office-Bearers:—A. L. Dias, I.C.S. (*Chairman*); T. V. Rajagopalan (*Hon. Secretary*); I. B. Das Gupta (*Hon. Treasurer*); Sital Das Gupta (*Superintendent*).

INDUSTRIAL HOME FOR BLIND WOMEN

160, Dadar Main Road, Dadar, Bombay 14.

This is the first industrial home of its kind in Bombay for blind women. There are 28 inmates at present and they are given free boarding, lodging, clothing, medical aid, tuition and other amenities.

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INSTITUTE OF SOCIAL SERVICE

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Two year Home Science Course; 1 year Course for Teacher Training in Home Science; two year Post Graduate School of Social Work.

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Kermani Building, Sir P. M. Road, Fort.

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Maneckji Wadia Bldg., Mahatma Gandhi Road, Bombay 1.

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209, Dr. Dadabhai Naoroji Road, Fort, Bombay.

Chairman:—Sir Jamsetjee Jeejeebhoy, Bart.; *Chief Correspondent-cum-Secretary:* B. F. Anklesaria, B.A., LL.B.; *Principal, Sir J. J. Fort Boys' High School:*—J. M. Irani, B.Sc., M.Ed., M.A. (Lond.); *Principal, Sir J. J. Fort Girls' High School:*—Miss N. K. Bamji, M.A., B.T.

JEEJEEBHOY DADABHOY CHARITIES

Alice Building, Hornby Road. Tel. No. 255788.

Chairman:—Nanabhoy B. Jeejeebhoy.
Trustees:—Rustom D. Jeejeebhoy; Padam D. Jeejeebhoy Dinbai J. M. Jeejeebhoy. *Secretary:* Nariman R. Neralwalla.

JEWISH RELIEF ASSOCIATION

Hague Building, Sprott Road, Ballard Estate, Post Box No. 47.
Hostel:—Habib Chambers, 32A, Victoria Gardens Road.

J. J. HOSPITAL AMBULANCE

J. J. Hospital, Bombay 8.

The J. J. Group of Hospitals Ambulance is available for the General Public in the City of Greater Bombay if phoned on Telephone No. 71103 between 8-0 A.M., and 7-0 P.M., on all working days and on Telephone No. 76565 at any other time. The ambulance charges are Rupees five for first five miles and every additional mile is charged twelve annas per mile. Free ambulance service is given to poor and indigent patients only, and to Maharashtra Government servants and their families. This service is available in Greater Bombay only.

* Bilingual.

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J. N. PETIT PARSI ORPHANAGE AND TECHNICAL HIGH SCHOOL

28, Bund Garden Road, Poona.

BOMBAY OFFICE: N. M. Petit Charity Fund, Petit Building, Dr. Dadabhoy Naoroji Road, Fort.

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J. N. TATA ENDOWMENT FOR THE HIGHER EDUCATION OF INDIANS

Bombay House, Bruce Street, Fort.

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The Bureau, a preventive undertaking of the Children's Aid Society, Bombay, offers free service to parents and guardians, who may have trouble with their children regarding their maladaptive behaviour. It endeavours to detect and treat the potential delinquent child while it is still in the predelinquency stage. It also helps mentally or physically handicapped children.

Bureau Officer :—B. R. Chohan.

KASHIBAI HERLEKAR HOME

83, Cadell Road, Shivaji Park, Dadar, Bombay 28.

Secretary.—Smt. Shantabai Kashalkar.

KESARBAI CHARITY TRUST

88, Dadiseth Agiary Lane, Kalbadevi Road.

Trustee : Jamnadas Harjivandas.

KHOJA GIRLS' ORPHANAGE

125, Jail Road East, Habib House, Bombay 9.

KING EDWARD MEMORIAL MEN'S INDUSTRIAL HOME

(The Salvation Army.)
122, Ripon Road, Byculla.

Major W. A. Robinson, *Manager.*
Col. Prabhakar S. Dass, *Social Services Secretary.*

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30, Kudaldeshkar Brahmin Niwas, Bombay 4.
Scholarships to Students from Community.

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Vice-Presidents : The Venerable the Archdeacon of Bombay, Mrs. M. G. R. Aitken, Mrs. J. R. Butler.

Hon. Secretary & Ag. Hon. Treasurer : Mrs. P. M. J. Dance.

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LOKMANYA SEVA SANGH

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The Sangh runs a library, a gymnasium, tailoring and embroidery classes and other educative and useful civic activities in its own premises.

President :—B. D. Phansalkar.

Secretaries : —N. B. Sapre, M. W. Rege.

MAHARASHTRA STATE COUNCIL ON BLINDNESS

C/o Sir C. J. Ophthalmic Hospital, Bombay 8.

Patron : Governor of Maharashtra. *Chairman :* Chief Minister, Maharashtra; *Vice-Chairmen :* Minister for Public Health, Minister for Social Welfare; *Adviser in Ophthalmology and Jt. Hon. Secy. :* Dr. V. K. Chitnis, D.O. (Oxon. & Bom.), F.C.P.S.; *Adviser in Blind Welfare and Jt. Hon. Secretary :* M. N. Chhatrapati.

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Servants of India Society Bldg., 2nd Floor, Sardar Vallabhbhai Patel Road.

First Bombay Branch of the All-India Women's Conference established in 1929. Conducts a Bal Mandir for the Backward class children at Arthur Road Municipal Stables.

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MANGALOREAN CATHOLIC EDUCATIONAL CO-OPERATIVE CREDIT SOCIETY, LTD.

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The object of the Trust is to help the poor and deserving students and destitutes in the whole of the Gowd Saraswat Brahman community. The trust spends annually Rs. 3,000, two-thirds of which are given by way of scholarships and the balance as subsistence allowance to destitutes.

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Objects :—Spread of education through day and night schools.

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MR. & MRS. BAGOMAL TULSIDAS CHARITIES

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Benevolent Institution giving medical relief.

Sole Trustee :—G. B. Sujan.

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Medical Officer and Pathologist :—Dr. L. H. Mirchandani; *Dental Surgeon* :—Dr. P. G. Diwan; *Orthodontist* :—Dr. J. R. Kulkarni; *Ophthalmic Surgeon* :—Dr. R. G. Chabria; *Optometrist* :—K. G. Singh.

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Trains adult blind in Cane-Work, Carpentry, Handloom Weaving, Tailoring, Music and Rehabilitation and gives them free boarding and lodging.

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174, Arthur Road.

MUSLIM AMBULANCE SOCIETY

152-54, Kambeker Street, Bombay 3.
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N. S. D. INDUSTRIAL HOME FOR THE BLIND

B.D.D. Chawl No. 52, Worli, Bombay 18. Tel No. 75995.

The chief aim is to enable the inmates to lead an independent life.

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Director :—P. R. Gaikwad, B.A., Dip. S.S.A., M.S.; *Medical Officers*:—Dr. (Mrs.) P. M. Mody, M.B.B.S., Dr. (Mrs.) S. P. Gaikwad, L.S.M.F.; *Women's Work Organizer* : Miss M. Buch, B.A., B.T., Dip.S.S.A.

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THE NATIONAL ASSOCIATION FOR THE BLIND

51, Mahatma Gandhi Road, Bombay 1. Tel. No. 254404.

AIMS AND OBJECTS.—To work in the whole of India for the prevention and cure of blindness and for the welfare of the blind, to bring about co-operation among the various organisations of the blind, to co-ordinate their activities, to organise and start new organisations and institutions for various activities for the welfare of the blind and to do all such other things as may be necessary for the promotion of the interest of the blind.

Funds are derived from donations from the public and by organising entertainments, etc.

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Petit Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

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Hon. Secretary.—Prof. P. A. Wadia, M.A.

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The Trustees of the Parsi Punchayet manage religious and charitable funds. They also manage several institutions and projects some of which are—Nursery School, The Fort Nursery and Infant School (Noble Chambers, Parsi Bazaar Street, Fort, Bombay 1); Sir Jamsetjee Jejeebhoy Zarthoshti Madressa (Engineer Building, Princess Street, Bombay 2); Sir Jamsetjee Jejeebhoy College of Commerce (14/14-A, Nanabhai Lane, Fort, Bombay 1); The Boarding Home for Rural Boys, Gholvad; The B. N. Gamadia Technical Institute (Gamadia Colony, Tardeo); The Health Unit (Gamadia Building, Gamadia Colony); Hostel for Boys (Gamadia Colony, Tardeo); The Central Employment Bureau (209, Dr. Dadabhai Naoroji Road, Fort, Bombay 1); The Industrial Institute (Gamadia Colony, Tardeo); An Infirmary known as the F. S. Parekh Dharamshalla (Hughes Road, Bombay); M. P. Khareghat Memorial Hall and Museum (Khareghat Colony, Hughes Road, Bombay 7); Department of Psychological Services (Head Office), Housing Colonies for poor, lower middle and middle class families throughout Greater Bombay, Towers of Silence at Doongerwadi, "Parsi Prakash", a chronicle of Parsi events, etc., etc.

The Trustees are also custodians of charitable and religious funds of mofussil and foreign towns.

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201, Khadilkar Road, Girgaum, Bombay 4.

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THE POPULAR AMBULANCE ASSOCIATION

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Conducts a hostel for boys at Chembur and a hostel for girls a Borivli.

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RECREATION AND SOCIAL CENTRES FOR YOUNG WOMEN AND GIRL DOMESTIC SERVANTS (FEMALE)

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Conducted by the Daughters of Mary Immaculate.

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SCHOOL FOR CHILDREN IN NEED OF SPECIAL CARE

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SETH ARDESHIR SORABJI FRAMJI PATEL CHARITY FUND

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Secretary: P. P. Antia.

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Gamdevi, Bombay 7.

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Chairman:—The Rev. H. V. Paul.

Honorary Secretary:—Mrs. M. Brown, Marble Arch, Pedder Road, Bombay 26.

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Medical Officers: Dr. M. G. Wanjara, M.B.B.S. (*Chembur*), Dr. K. M. Mehta, M.B.B.S. (*Ghatkopar*).

SHREE VILE PARLE KELAVNI MANDAL

Dadabhoy Road, Vile Parle.

Conducts Primary and Secondary Schools.

SHRI JAIN MAHILA SAMAJ

Mangrol Mansion, Bora Bazar Street, Bombay 1.

Dadar Centre: A-36, Palanji Sojpal Bldg., Portuguese Church Street, Bombay 28.

It is open to all Indian women above the age of 18. There are 1,500 members at present. Coaches ladies for the diploma course in tailoring of the Technical Education Department of Maharashtra, conducts classes for its own tailoring. Adult education in Hindi, Gujarati and English also given. Besides the Samaj conducts a Kanya Mandal for girls between 12 and 16 years of age and a Bal-Mandir for children of 3 to 6. *Vikas*, a magazine is run by the Samaj. Classes in cutting, sewing and music are also held. Scholarships are given to needy women and girls joining Nursing Course and Teacher's Training College Courses. A new Centre has been opened at Shantinagar, Arthur Road.

President:—Smt. Taraben M. Premchand.

Hon. Secretaries:—Smt. Lilavatiben Devidas, Smt. Menaben N. Sheth, Smt. J. M. Kapadia.

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Ranade Road, Jiva Devsi Niwas, Dadar, Bombay 28.

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Medical Superintendent.—Dr. S. P. Mehta, M.D.; *Radiologist.*—Dr. M. M. Mehta, M.B.B.S., D.M.R.E.

SIR DORABJI TATA TRUST

Bombay House, Bruce Street, Bombay 1.

Trustees.—Lady Ratan Tata, Sir Homi Mody, K.B.E. (*Chairman*), J. R. D. Tata, A. D. Shroff, N. H. Tata, Prof. R. Choksi; *Secretary.*—N. D. Godbole.

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Bombay House, Bruce Street, Fort.

Trustees.—Lady Ratan Tata; Naoroji Hormusji Tata; Sir Hormuzdiar Dastur, Kt.; Naroisang H. C. Coyajee; Nariman K. Suntook.

Secretary.—Pirosha Pestonji Mistri.

SIR RATAN TATA INDUSTRIAL INSTITUTE

Sir Ratan Tata Industrial Institute, Hughes Road.

SIR RATAN TATA WELFARE CENTRE

Cowasji Jehangir Colony, Tardeo, Bombay 7.

S. K. PATIL AROGYA DHAM

Malad, Bombay 64.

It has a middle class medical benefit insurance scheme.

SOCIAL SERVICE DEPARTMENT

J. J. Group of Hospitals, Byculla.

SOCIAL SERVICE LEAGUE

St. Xavier's College, Bombay 1.

SOCIETY FOR THE CARE, TREATMENT AND TRAINING OF CHILDREN IN NEED OF SPECIAL CARE

Sewri Hill, Sewri Road, Bombay 15.—Tel. No. 72770.

President.—Sir N. J. Wadia, Kt.

Vice-President.—Dr. R. N. Cooper, M.S., *Director*, Mrs. Jal H. Vakeel.

SOCIETY FOR THE EDUCATION OF THE CRIPPLED

Chunilal Mehta Scout Guide Hut, Mahatma Gandhi Road, Bombay 1.

President.—Mrs. Fathema Ismail; *Hon. Gen. Secretary.*—Miss Rehmat Fazalbhoy; *Hon. Treasurer.*—Vasant Karmarkar.

SOCIETY FOR THE PREVENTION OF BEGGARY

C/o The Times of India Offices, Bombay 1.

To eradicate beggary from Greater Bombay and rehabilitate beggars by setting up more homes and workshops and to conduct persuasion campaign against indiscriminate charity like alms-giving.

President:—Sri Prakasa (Governor of Maharashtra).

Chairman:—Homi J. H. Taleyarkhan.

Gen.-Secretary:—J. C. Jain.

SOCIETY FOR THE PROTECTION OF CHILDREN IN WESTERN INDIA

The Byramjee Jeejeebhoy Home for Children, Matunga, Bombay 19.

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Vice-Presidents:—Sir Rustom Masani, M.A.; N. B. Jeejeebhoy; Mrs. G. B. Seervai; *Hon. Secretaries*:—Lady Kania; Diwan Bahadur Dr. J. S. Nerurker; Mrs. Gopa Mehta; Mrs. Mehra P. Shroff; *Hon. Treasurers*:—Rustomjee J. R. B. Jeejeebhoy; K. A. Chidambaram. *Superintendent.*—Miss I. A. Sabnis.

SOCIETY FOR THE REHABILITATION OF CRIPPLED CHILDREN

Haji Ali Park, Clerk Road, Mahalakshmi.

Chairman.—Dr. A. V. Baliga, F.R.C.S. (Eng.).

SOCIETY OF N. SRA. DA PIEDADE, DABUL

49, Dukerwadi, Bombay 2.

SOCIETY OF ST. VINCENT DE PAUL, ST. PETER'S CONFERENCE

St. Peter's Church, Hill Road, Bandra.

SORABJI MANECKJI SETT CHARITIES

Spinner Building, 8/10, Tamarind Lane, Bombay.

ST. ANTHONY'S HOME

Bellasis Road, Byculla.

Orphanage, School and foundling home.

ST. CATHERINE'S HOME

Ambivili, Off Versova Road, Post Andheri.

Home for destitutes.

ST. FRANCIS D'ASSISI HIGH SCHOOL & ORPHANAGE

Mount Poinsur, P.O. Borivli.

Superior-General.—REV. Brother Leonard Modestus.

Local Superior.—REV. Brother Vincent.

ST. JOHN AMBULANCE ASSOCIATION

MAHARASHTRA STATE CENTRE

President.—The Governor of Maharashtra.

Chairman.—Commandant-General M. J. B. Maneckji.

Hon. Secretary.—Dr. J. N. Vajifdar, M.B.B.S., M.C.P.S.

Secretary.—M. K. Saklatvala, B.A.

Office Address.—141, Mint Road, Bombay 1.

ST. JOHN AMBULANCE BRIGADE (INDIA)

No. 3 District, Bombay.

District Headquarters.—Red Cross and St. John Ambulance Building, Town Hall Compound, Fort, Bombay.

Commissioner.—Commandant-General M. J. B. Maneckji.

ST. JOHN AMBULANCE BRIGADE (INDIA)

COSMOPOLITAN DIVISION

Divisional Headquarters—Sir Byramji School, opposite Charni Road Station, Bombay. *President*: Lt.-Col. J. D. Kothawala, C.St.J., J.P., A.I.R.O. (Retd.); *Divisional Superintendent*: S. P. Rane, S.B.St.J., S.T.C., C/o St. John Ambulance, H. Q., Town Hall.

ST. JOHN AMBULANCE BRIGADE (INDIA)

PARSI DIVISION

Lady Willingdon Building,

1, Mahatma Gandhi Road, Fort, Bombay. Tel. No. 263666.

Service open to all.

Divisional Supdt.—T. P. Panthakey.

ST. JOHN AMBULANCE BRIGADE (OVERSEAS)

MUSLIM AMBULANCE DIVISION

152-154, Kambekar Street, Bombay 3. Phone No. 70145.

Divisional Surgeon.—Dr. G. R. Shaikh, B.Sc., M.B.B.S.

Divisional Superintendent.—Khan Saheb M. I. Baig.

AMBULANCE OFFICER.—Shareef Abdul Hameed.

ST. JOHN AMBULANCE BRIGADE (OVERSEAS)

MUSLIM NURSING DIVISION

152-154, Kambekar Street, Bombay 3. Phone No. 70145.

Lady Divisional Superintendent.—Mrs. Khadija Shuffi Tyabji, J.P.

Lady Ambulance Officer & Lady Divisional Secretary.—Mrs. Sultana Fazlehusain.

ST. JOSEPH'S HOME AND NURSERY

Reynold's Road, Byculla Bombay 8.

ST. PETER'S SCHOOLS AND HOSTEL

Mazagaon, Bombay 10.

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STRI ZARTHOSTI MANDAL

Hughes Road, Bombay 7.

Nature of Body : Work classes and Welfare Activities.

President.—Lady Ratan Tata ; *Hon. Gen. Secretary.*—Mrs. Dinbai F. S. Patuck ; *Hon. Treasurer.*—Mrs. Shirin S. Talati.

SWASTIK LEAGUE

Seth Varjivandas Motilal Swastik Mandir, Vithalbhai Patel Road, Bombay 4.

Ambulance Service Tel. No. 70232.

President.—Mr. Justice P. B. Gajendragadkar, M.A., LL.B.

Vice-Presidents.—Mr. Justice B. N. Gokhale, M.A., LL.B. ; Seth V. M. Saraiya, B.A. ; Dr. K. S. Bhaskar, M.A., M.D., D.P.H. ; D. J. Nanavati, B.A., LL.B. (Advocate) and Dr. R. V. Sathe, M.D., M.R.C.P. (Eng.).

Chairman.—M. V. Jayakar, B.A., LL.B., Solicitor.

Jt. Honorary Secretaries.—M. W. Pradhan, B.Sc., LL.B. ; S. G. Rane, B.A., LL.B., Advocate.

Jt. Honorary Treasurers.—Dr. V. P. Kamat, M.B.B.S. ; G. D. Lovalekar.

Jt. Hon. Auditors :—M. C. Chudawala ; N. D. Lovalekar, Chartered Accountants.

TAHERI SCHOLARSHIP SOCIETY

Mohamedi Baug, 21, Sarang Street, Bombay 3.

The Society is being run by contributions from His Holiness Syedna Dr. Taher Saifuddin Saheb and members of the Dawoodi Bohra community for awarding scholarships and for promoting the educational interests of the Dawoodi Bohra students.

H. H. THE AGAKHAN'S SHIA IMAMI ISMAILIA COUNCIL

Khoja Jamatkhana, Khadak, Bombay 9.

Social reforms institution.

President :—Akbar Hashambhoy D. Merchant, B.A., LL.B., Solicitor; *Vice-President :*—Ashrafbhoy G. Sachedina ; *Hon. Jt. Secretaries :*—Mahomed Alibhoy Bhanji, Ismail Huseinbhoy Padamsee.

UTTAR BHARTIYA MAZDOOR SANGH

8, Amba Bhuvan, Bhoiwada, Parel, Bombay 12.

VANITA VISHRAM

Sardar Vallabhbhai Patel Road, Bombay 4.

The institution aims at ameliorating the condition of women in the States of Maharashtra and Gujarat and also elevating their social status. It conducts Primary Teachers' Training Colleges, Primary Schools, College Hostels and Ashrams at Bombay and Surat and a High School at Bombay. About 2,100 students take their education in the institutions without distinction of caste, creed or religion. There are also 280 boarders.

Hon. Secretary.—Mrs. Kanta Khandwala, B.A., J.P.

VICENTA MARIA SOCIAL SERVICE SOCIETY

This Society, conducted by the Daughters of Mary Immaculate comprises the following :

Fort Branch.—Villa Vicenta, Convent Street, Bombay 1.

1. Home and Orphanage for poor and homeless children ; 2. Recreation and Social Centre for young domestic servants (female) ; 3. Holy Name Dispensary and Health Centre (free Dispensary for the poor—both sexes) ; 4. Hostel for Young Women.

Byculla Branch.—Regina Pacis, Love Lane, Byculla, Bombay 7.

1. Vicenta Maria children's Home for poor and homeless children ; 2. Recreation and Social Centre for young domestic servants (female) ; 3. Hostel for young lady students and business women ; 4. Regina Pacis Free Dispensary for the poor.

VICTORIA MEMORIAL SCHOOL FOR THE BLIND

Tardeo Road, Bombay.

Chairman.—H. K Chainani, Chief Justice.

Vice-Chairmen.—M. D. Bhat, Vijay M. Merchant.

Hon. Secretary.—J. R. Shroff, B.A.; *Principal.*—K. N. K. Jussawala, B.A., B.T., U.N.O. Fellow ; *Head Master.*—R. R. Buxi, B.A., B.T. ; *Matron.*—Mrs. T. C. Ranikhetwala.

FORT OFFICE—C/o Jayant Trading Co., Sir Vithaldas Chambers, Apollo Street, Fort, Bombay.

WORLI GOPCHAR AND BHOYE SAMSTHAN

Worli, Bombay 18.

Managing Trustees.—B. H. Mantri, Y. W. Mantri, G. K. Worliker, J. A. Mantri and A. M. Raote.

YOUNG MEN'S FREE NIGHT HIGH SCHOOL

179, Bazargate Street, Fort ; 200, Bora Bazar Street, Fort.

Officer-in-Charge.—S. K. Kanchan ; *Head Master.*—S. Venkataraman, B.A., L.T.

CHAMBERS OF COMMERCE IN GREATER BOMBAY

ALL INDIA EXPORTERS' CHAMBER

2nd Floor, Janmabhoomi Chambers, Fort Street, Bombay 1. (Established 1959). Phone No. 261055.

Number of members : 415.

Activities : Exports of cotton piece-goods and cotton yarn and other commodities to any part of the world.

President :—Chinoobhai C. Javeri.
Vice-President :—Suryakant C. Vakil.
Hon. Secretaries :—Kantilal K. Sheth ; Jayant Moolchand Shah.
Hon. Treasurer :—Kantilal K. Manseta.
Office Secretary :—H. A. Bharucha, B.A.
Jt. Secretary :—G. R. Jarmarvala, B.A., LL.B.

BOMBAY CHAMBER OF COMMERCE & INDUSTRY

Mackinnon Mackenzie's Bldg., Ballard Estate, Bombay 1.

All firms or persons engaged or interested in mercantile or industrial pursuits are eligible for election as Ordinary Members or Associate Members in their conventional or corporate name. The Chamber member's annual subscription is Ordinary Rs. 720, Associate Rs. 540. An Ordinary Member on election pays an entrance fee of Rs. 1,000 and an Associate Member Rs. 500.

Officials and others indirectly connected with the trade, commerce or manufactures of India, or who may have rendered distinguished service to the interests represented by the Chamber may be elected by the Committee Honorary Members of the Chamber.

GENERAL COMMITTEE (1961-62) :—*President :* N. M. Wagle ; *Vice-President :* F. E. H. Goddard ; *Members :* G. L. Anderson, C. H. Campbell, Akbar Hydari, E. A. Jenkins, J. C. Kidd, J. A. E. Macpherson, Keshub Mahindra, N. R. Mody, J. W. Sinclair, P. L. Tandon ; *Secretary :* B. Barker, M.B.E.

EAST INDIA CHAMBER OF COMMERCE LIMITED

Patwa Chawl, Sheikh Memon Street, Bombay 2. (Tel. No. 30913).

Number of members : 500. The Chamber at present deals in forward trade in guvar.

President : Jivanlal Amulakh Kuvadia ; *Vice-President :* Chimanlal Jethalal Shah ; *Hon. Secretary :* Jayantilal Nanchand Shah ; *Jt. Hon. Secretary :* Kikabhai Ratanchand Shah ; *Treasurers :* Narandas Navalchand Doshi and Jayantilal Chunilal Shah ; *Manager :* Ambalal Kalidas Dave, Vanijya Visharad (Guj. Vidyapith).

INDIAN MERCHANTS' CHAMBER

Lalji Naranji Memorial, Indian Merchants' Chamber Building, 76, Veer Nariman Road, Churchgate, Bombay 1.

The Chamber has a membership of over 2,100. About 122 Commercial and Trade Associations representing various trades such as

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rice, grain and seeds, iron, match, bullion, indigenous banking, insurance, cotton, etc., in the city and State of Bombay* are affiliated to the Chamber.

The Chamber is directly represented on several public bodies.

President : Vallabhdas V. Mariwala.

Vice-President : Pravinchandra V. Gandhi.

Members of the Committee.—Gopaldas P. Kapadia, Madhusudan M. Amersey, Dirubhai G. Kapadia, J. V. Bhagat, Pratapsinh Shoorji Vallabhdass, Ratansi Mulji, Babulal Bubna, Gordhandas Bhagwandas, Lt.-Col. J. D. Kothawala, Sankalchand G. Shah, D. M. Desai, Jayantilal R. Mehta, Murarji J. Vaidya, Dr. R. C. Cooper, Dhirajlal Maganlal, Prof. M. P. Gandhi, Chandrakant C. Patel, B. D. Somani, B. K. Setalvad, G. D. Modi, Vadilal C. Gandhi, Tanubhai D. Desai, Chandrakant S. Desai, Shantilal P. Zaveri.

Co-opted (5 Individuals) :—M. A. Master, Madanmohan R. Ruia, Ambalal Kilachand, Lalchand Hirachand, Ramnath A. Podar.

Ex-Officio :

Trustees.—Gordhandas G. Morarji; Chatrabhuj Gordhandas; Bhawanji A. Khimji ; Ratilal M. Gandhi ; R. G. Saraiya.

Bombay Port Trust :—Pratapsinh Mathuradas, Naval H. Tata, S. M. Shah, Ratanshi Champshi, Ramdas Kilachand (*Indian Central Cotton Committee*).

Secretary.—C. L. Gheevala.

Sr. Asstt. Secretaries.—M. K. Desai, D. S. Pendurkar.

Legal Assistant.—S. K. Aiyar.

Jr. Asstt. Secretaries.—P. M. Pathak, V. M. Mehta.

Journal of the Indian Merchants' Chamber.

(Anglo-Gujarati Monthly) : Established in 1907.

Editor : C. L. Gheevala. Published by P. M. Pathak for the Indian Merchants' Chamber, 76, Veer Nariman Road, Churchgate, Fort, Bombay 1. Official organ of the Indian Merchants' Chamber.

INDO-GERMAN CHAMBER OF COMMERCE

P.O. Box No. 1689,

Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.

The Chamber promotes and fosters trade and commerce of all description between the Union of India and the Federal Republic of Germany. It has also offices at Calcutta, Delhi and Frankfurt (W. Germany).

President :—G. Wilhelm.

Vice-President :—A. B. Parakh.

Treasurer :—V. C. Setalvad.

Secretary :—Dr. K. Pracht.

MAHARASHTRA CHAMBER OF COMMERCE

12, Rampart Row, Bombay 1.

Membership of the Chamber is open to all carrying on trade, commerce and industry in Maharashtra State irrespective of caste, creed or community.

The Chamber issues a monthly magazine *Vaibhav* and distributes it free of cost to its members.

Membership : Chamber has over 600 members spread over throughout the territory it serves.

Number of Joint Stock Companies : over 140.

Number of Commercial Associations : over 20 (having amongst them more than 1,000 members).

Office-Bearers .

President :—Lalchand Hirachand.

Vice-Presidents :—Dr. J. M. Rane, Ramkrishna J. Bajaj, Shantanurao Kirloskar.

Secretary.—R. G. Mohadikar.

MEMON CHAMBER OF COMMERCE

Patharia Palace, Mohamedali Road, Bombay 3.

President.—Alhaj Ebrahim Motiwala.

Vice-President.—H. H. Ismail.

Hon. Secretary.—Moosa Kasam Jetturwala.

Jt. Hon. Secretary.—Sayed Ahmed Sarfullah.

Office Secretary.—Ismail Ahmed Mottiwala.

WESTERN INDIA CHAMBER OF COMMERCE, LTD.

232-234, Kalbadevi Road, Bombay 2.

To promote and protect the interests of merchants in Bombay, in wheat and other grains and remove all causes of friction among such merchant interests and between them and their constituents.

* Bilingual.

CHURCHES IN GREATER BOMBAY

ALL-INDIA FEDERATION OF NATIONAL CHURCHES

St. Paul's Indian National Hindustani Church, 287, Bellasis Road, Byculla, Bombay-8.

It is a Christian Fellowship of National and Independent Churches of various Denominations which function under the management of either of their own congregations or properly elected Local Panchayats, quite independent of any outside control.

His Excellency the Most Reverend Dr. K. C. Pillai, D.D., Archbishop and Metropolitan of India in the Indian (National) Orthodox Church is also the Bishop recognised for all the Apostolic and Episcopal Churches within the Federation.

The Rev. Dr. R. S. Modak, *President* (in U.S.A.).

The Very Rev. Father Dr. J. S. Williams, M.A., D.D., C.T., M.R.S.T. (England), *Secretary-General & Ag. President* also Archpriest & Bishop Designate, Indian National Church.

ST. PAUL'S INDIAN NATIONAL HINDUSTANI CHURCH

287, Bellasis Road, Byculla, Bombay 8.

It is an autonomous Hindustani Church under a purely indigenous and nationalist leadership, and a cultural and educational centre for Hindi, Urdu and Hindustani-speaking people in the State of Bombay.* It is affiliated to the All-India Federation of National Churches, is chartered by the Ecumenical League for Christian unity, is in fellowship with the World Fellowship of Faiths and *Registered under Government of India Act, XXI of* 1860 *and B. P. Charitable Act of* 1950.

Minister and Chairman : The Very Rev. Father Dr. J. S. Williams, M.A., D.D., C.T., M.R.S.T. (England), Archpriest & Bishop Designate, Indian National Church ; *Honorary Secretary :* P. K. Ramball ; *Hon. Treasurer :* L. L. Saway ; *Dy. Minister :* The Rev. A. F. Luther, I.D.A.S.

BOMBAY BAPTIST CHURCH

Opp. Colaba Post Office, Colaba.

The church has been on the present site since 1911 when it was moved from Byculla.

Minister . Rev. R. F. Preston.

Hon. Secy. & Treasurer : A. C. Daniels.

Sunday Services: (English)—10.30 and 6·30 ; Hindustani : 4.30 ; Sunday School : 9 a.m. ; Prayer & Bible Study : Tuesday 7 p.m. ; Young People's fellowship : Wednesday 7 p.m. ; Ladies meeting : Friday 11 a.m.

CHRISTIAN SCIENCE SOCIETY, BOMBAY

31, Murzban Road, Bombay 1.

This society is a branch of The Mother Church, The First Church of Christ, Scientist in Boston, U.S.A. A Reading Room is maintained at the same address, where the Bible, the Christian Science Textbook, "Science and Health with Key to the Scriptures" by Mary Baker Eddy and other authorized Christian Science literature may be read, borrowed or purchased. Reading Room open daily.

CHURCH OF INDIA, PAKISTAN, BURMA AND CEYLON

Bishop of Bombay (St. John's House, Duxbury Lane, Colaba).—The Rt. Revd. William Quinlan Lash, M.A.

* Bilingual.

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Archdeacon of Bombay (21, Waudby Road, Bombay).—The Ven. C. W. Venkataramiah.

Registrar of the Diocese of Bombay, St. John's House, Duxbury Lane, Bombay 5.—The Rev. Canon F. D. P. Halliwell.

ALL SAINTS' CHURCH
Malabar Hill, Bombay 6.

CHAPLAIN :—The Rev. J. W. L. Timmins.

CHRIST CHURCH
Clare Road, Byculla, Bombay.

CLERGY.—The Rev. H. V. Paul (*Chaplain*) ; The Rev. N. Whittam (*Asstt. Chaplain*) ; The Rev. K. F. MacGowan (*Hon. Priest*).

CHURCH OF SAINT JOHN THE EVANGELIST
Colaba.

CHAPLAIN : The Reverend Canon F. D. P. Halliwell.

CHURCH OF ST. MARY THE VIRGIN
Elphinstone Road, Parel, Bombay

EMMANUEL CHURCH
C. M. S. House, Proctor Road, Bombay 7.

CLERGY : *Marathi* and *Gujarati*.—Rev. D. S. Shrisunder, B.A., B.D. (Priest-in-Charge).

HOLY REDEEMER CHURCH
Dadar.

There are in the parish over 500 persons. It is a very scattered parish.

CLERGY : The Rev. B. G. Bhonsle.

ST. NICHOLAS' CHURCH
Nicol Road, Ballard Estate, Bombay.

CLERGY.—The Rev. Robert Barlow.

ST. STEPHEN'S
Bandra Hill, Bombay.

ST. THOMAS' CATHEDRAL
Vir Nariman Street, Bombay 1.

The Ven. C. W. Venkataramiah (Surrogate), Senior Chaplain.

CHURCH OF SCOTLAND
THE SCOTS KIRK, BOMBAY.
Apollo Street, Bombay 1.

Minister.—Rev. J. C. Becke, M.A.

The Scots Kirk Office at 11, Waudby Road, Bombay 1, is open daily.

The Church at Apollo Street is open daily.

METHODIST CHURCH
Bombay.

The Methodist Church has been established in the City since 1887 and has the following centre:

Wesley Church, The Causeway (opp. Electric House). This Church is in charge of the Rev. A. W. Saunders, Wesley House, 62, Causeway, Fort, Bombay 1.

METHODIST CHURCH IN SOUTHERN ASIA
Robinson Memorial, Byculla, Bombay-8.

RESIDENT BISHOP.—Rt. Rev. Mangal Singh, M.A., D.D.

DISTRICT SUPERINTENDENT.—Rev. James B. Satyavrata, Robinson Memorial, Byculla, Bombay 8.

FINANCIAL AGENT.—Rev. James B. Satyavrata.

CONFERENCE SECRETARY.—Rev. A. G. Bhatt, M.A., B.D., M.Th., Robinson Memorial, Byculla.

CENTRAL TREASURER : Miss Frances Major, 22, Club Back Road, Byculla, Bombay 8.

CONFERENCE TREASURER.—Rev. B. B. Misra, G.Th., Centenary Church, Grant Road, Bombay.

BRANCH TREASURER.—Rev. C. P. Heins. (IMBO), P. Box 92, Bombay 1.

CHURCHES :

Bowen Memorial Church : Landsdowne Road, Fort, Bombay 1. Rev. D. Hine Butler.

Taylor Memorial Church : Clare Road, Byculla, Bombay 8. Rev. Eric Mitchell, B.D.

Robinson Memorial Church : 13, Sankli Street, Byculla, Bombay 8. Kanarese Central Church : Rev. Th. B. Williams ; Marathi Central Church : Rev. D. D. Chandekar, G.Th., B.D.

Centenary Church : Grant Road, Bombay 7 ; Gujarati Central Church : Rev. A. G. Bhatt, M.A., M.D., M.Th. ; Malayalam Central Church : Rev. M. J. Poyyayil, B.A. ; Hindustani Central Church : Rev. B. B. Misra, G.Th.

Rahator Memorial Church : Elphinstone Road, Parel, Bombay 12. Marathi Church : Rev. V. D. Deolalikar ; Telugu Church : Rev. K. Manikyam ; Tamil Church : Rev. J. N. Harris, B.A., A. Sabharanjithan ; Gujarati Church : S. Trivedi.

Worli Union Church : Behind Podar Hospital, Worli, Bombay 18. Kanarese Circuit : Rev. Elisha James.

Kurla Methodist Church : Old Agra Road, Kurla ; Marathi Church : Rev. D. D. Chandekar, G.Th., B.D. ; Hindustani Church : Rev. B. B. Misra, G.Th. ; Telugu Church : Rev. D. S. P. Rao.

Circuits :

Kanarese-Telugu, Matunga-Dharavi Circuits : Rev. Elisha James.

Salsette Gujarathi, Bandra, Bombay 50 : S. Trivedi.

The Women's Division of Christian Service connected with the Methodist Church has its headquarters at 22, Club Back Road, Byculla, Bombay 8, with a hostel for women. This institution is managed by Miss Euna Stewart and Miss S. Trikamlal. A centre in Rebesch Street, Agripada, has a nursery for children and a sewing class for women, managed by Miss Ivy Childs.

The W.S.C.S. of the Kanarese Central Church run a Kindergarten School at 22, Club Back Road, Byculla, which is indigenous.

Other Ministerial Workers.—Rev. Darious Mallappa ; Rev. R. A. Kamble ; Rev. A. C. F. King ; Rev. R. S. Rahator ; Rev. A. Barnabas.

ORTHODOX SYRIAN CHURCH
Bombay Parish, 171, Naigaum Road, Dadar, Bombay.

The Church runs the Sant Thoma Charitable Dispensary and the Catholicate Montessori School.

HEAD OF THE CHURCH.—Mar Baselios Geevarghese II, Catholicose of the East.

Vicar of Parish.—Rev. Fr. K. K. Punnose.

UNITED CHURCH OF NORTHERN INDIA

The Hume Memorial Church : Rev. M. L. Sathe.

St. Paul's Church, Matunga Labour Camp : Rev. M. L. Sathe (Worli Church Residence, off Annie Besant Rd., Worli).

The Ambroli Church : Rev. S. J. Tivade (Dr. Wilson Street, Girgaum).

AMBROLI CHURCH
Dr. Wilson Street, Girgaum, Bombay 4.

The Ambroli Church, formerly supported by the United Free Church of Scotland Mission, was founded by the Rev. John Wilson, D.D. the renowned missionary.

It stands on Vithalbhai Patel Road halfway between C. P. Tank and Prarthana Samaj.

MINISTER :—Rev. S. J. Tivade, Ambroli Manse, Bombay 4.

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CATHOLIC CHURCHES

BASILICA OF OUR LADY OF THE MOUNT
Bandra Hill, Bombay 50.

CHURCH OF OUR LADY OF FATIMA
Ismail Manzil, opp. Sewri Cemetery, Bombay 15.

CHURCH OF OUR LADY OF DOLOURS
Sonapur, Bombay 2

CHURCH OF OUR LADY OF DOLOURS
Wadala, Bombay 31.

CHURCH OF OUR LADY OF EGYPT
Kole Kalyan, P.O. Santa Cruz.

CHURCH OF OUR LADY OF FATIMA
Kirol, P.O. Ghatkopar.

CHURCH OF OUR LADY OF GLORY
Byculla, Bombay 27.

CHURCH OF OUR LADY OF GOOD COUNSEL
Sion, Bombay 22.

CHURCH OF OUR LADY OF HEALTH
Cavel, Bombay 2.

CHURCH OF OUR LADY OF HEALTH
Sahar, P.O. Vile Parle (Bombay 57).

CHURCH OF OUR LADY OF HEALTH
Versova, *via* Andheri.

CHURCH OF OUR LADY OF MOUNT CARMEL
Bandra, Bombay 50.

CHURCH OF OUR LADY OF THE ROSARY
Mazagon, Bombay 10.

CHURCH OF OUR LADY OF SALVATION
Dadar, Bombay 28.

CHURCH OF OUR LADY OF THE SEA
Aldeia Mar, *via* Andheri.

CHURCH OF OUR LADY OF VICTORIES
Mahim, Bombay 16.

HOLY CROSS CHURCH
Kurla (Central Rly.).

HOLY CROSS CHURCH
Lower Parel, Bombay 13.

HOLY FAMILY CHURCH
Chakala-Gundowli.

PRO-CATHEDRAL OF THE HOLY NAME
Wodehouse Road, Fort, Bombay 1.

SACRED HEART CHURCH
Santa Cruz, Bombay.

SACRED HEART CHURCH
Worli, Bombay 18.

ST. ANDREW'S CHURCH
Bandra, Bombay 50.

ST. ANNE'S CHURCH
Nesbit Road, Mazagon, Bombay 10.

ST. ANNE'S CHURCH
Pali Hill, Bandra, Bombay 50.

OUR LADY OF PERPETUAL SUCCOUR
Chembur.

ST. ANTHONY'S CHURCH
Mani, P.O. Trombay.

ST. ANTHONY'S CHURCH
Vakola, P.O. Santa Cruz.

ST. BLASE'S CHURCH
Amboli, Andheri.

ST. FRANCIS XAVIER'S CHAPEL
Middle Colaba, Bombay 5.

ST. FRANCIS XAVIER'S CHURCH
Dabul, Bombay 2.

ST. FRANCIS XAVIER'S CHURCH
Vile Parle, Bombay 24.

ST. IGNATIUS' CHURCH
Kazi Syed Street, Mandvi, Bombay 3.

ST. IGNATIUS' CHURCH
Jacob Circle, Bombay 11.

ST. JOHN THE EVANGELIST'S CHURCH
C/o Regent Hotel, Ballard Estate, Bombay 1.

ST. JOHN THE EVANGELIST'S CHURCH
Marol, *via* Andheri.

ST. JOSEPH'S CHURCH
Colaba, Bombay 5.

ST. JOSEPH'S CHURCH
Juhu, P.O. Santa Cruz.

ST. JOSEPH'S CHURCH
Umerkhadi, Bombay 9.

ST. MICHAEL'S CHURCH
Mahim, Bombay 16.

ST. PAUL'S CHURCH
Upper Parel, Bombay 12.

ST. PETER'S CHURCH
Bandra, Bombay 50.

ST. SEBASTIAN'S CHURCH
Marouli, P.O. Chembur.

ST. STEPHEN'S CHURCH
1, Nepean Sea Road, Cumballa Hill, Bombay 26.

ST. TERESA'S CHURCH
Girgaum, Bombay 4.

ST. TERESA'S CHURCH, KHAR-PALI
32, Turner Road, Bandra, Bombay 50.

ST. VINCENT DE PAUL'S CHURCH
Chuim, Khar, Bombay 52.

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THE SALVATION ARMY

WESTERN INDIA TERRITORY.

Territorial Headquarters: Morland Road, Byculla, Bombay 8.

Territorial Commander.—Lt. Commissioner Stanley Hannam. Chief Secretary.—Col. Prabhakar S. Das.

Evangelical Work Centres:

Maharashtra.—Bombay, Poona, Satara, Ahmednagar, Puntumba, Shevgaon.

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BOMBAY LABOUR BUREAU

(Regd. under Societies Registration Act, 1860)

Nagpada Neighbourhood House, Byculla, Bombay 8.

The aims are :—To arrange voluntary bodies for creating harmonious industrial relations between management and labour and settling their industrial disputes by bi-partite conferences; to organise and conduct short-term refresher courses in labour management and allied subjects for the benefit of executives; to disseminate information on labour management and allied subjects through its quarterly Journal—the *Management Executive*, and *Indian Labour Review*; to undertake study tours and carrying out research surveys in labour and industrial relations; to render free legal and professional advice to its members and representing them in any court of law.

Founder :—S. K. Patil; *Patron :*—S. L. Silam; *Chairman :*—D. D. Gupta; *Vice-Chairman :*—Charles Singh; *Director :*—K. S. Gupta.

BOMBAY LABOUR INSTITUTE

(Government of Maharashtra)

Chamarbaugwala Road, Parel, Bombay 12.

Director :—Prof. V. B. Kamath, M.Sc. (Bom.), B.Sc. (Spl.), London, F.S.S. (London).

The Institute was started in 1947 with the purpose of organising leaders for labour and social work. Till 1955, 9 months and 3 months courses were conducted for the same for which students from all over India and candidates nominated by various State Governments, prominent industrial concerns and Trade Union Organisations, besides fresh students were taken up. In July 1955 the Institute started 2 year Diploma Course in Labour Welfare (Dip. L.W.) for training labour welfare officers. As in the past the institute gets the patronage of all State Governments, employers and trade union organisations.

Since July 1959 the Institute has been recognised by the Bombay University as a post-graduate institution of specialised studies leading to 2-year University Diploma in Labour Welfare (D.L.W.). The course is open to Degree holders in B.A., LL.B. or B.Com. of Bombay University or any other recognised University.

The Institute operates the State Workers' Education Scheme on behalf of the Government to train and discipline the mind of the workers, to enable them to be good and efficient workers and to promote better industrial relations. The class is open to all factory workers and each session lasts 3 months.

On behalf of the Planning Commission the Institute conducts from time to time Case-studies of Labour-Management Relations in different units.

The faculty consists of the following members. In addition, outside experts in various fields of labour are invited to deliver lectures on topics contained in the curriculum.

Lecturers :—O. P. Goel, B.A., Dip. S.S.A., S.A.F. (U.N.O.); V. G. Mhetras, M.A., LL.B.; G. K. Thakker, M.Com.; R. D. Joshi, B.A. (Hons.); *Registrar :* M. J. Naik, B.A., Dip.S.S.

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Army and Navy Bldg., 3rd Floor, Mahatma Gandhi Road, Bombay 1.
Tel. No. 251383.

The aim of the Association is to promote mutual exchange of knowledge, experience and ideas on the principles and practices of Management among its members; to co-operate with educational institutions in developing schemes of instruction in Management principles and practice; to establish a Management Library in the Bombay area.

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14-A, Jamal Mansion, Sleater Road, Bombay 7.

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Swadeshi Mills Estate, Near Roxy Cinema, Tata Road, New Queen's Road, Bombay 4.

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The Council maintains the Dentists Register for the State* and administers the Code of Dental Ethics.

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Town Hall, Bombay 1.

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The objects of the Association are (1) to secure recognition of the principle that the moral law is the same for both men and women ; (2) to suppress and prevent the traffic in women and girls and the outrage, corruption, abduction and prostitution of persons under eighteen ; (3) to do rescue and vigilance work in general ; (4) to see that the provisions of the Indian Penal Code and of the Prevention of Prostitution Act of 1923, are efficiently carried out ; (5) to prevent the publication and sale of indecent and obscene pictures, books and papers, and of objectionable advertisements, cinema films and theatrical performances ; and (6) to carry on active propaganda work for the ultimate and complete abolition of brothels.

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Demonstrators—1. E. V. Hariharan, M.Sc. (Bom.). 2. T. S. Murthy, M.Sc. (Mysore).
Investigator—S. S. Desai, M.Sc.

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ACADEMIC YEAR 1960-61

University Departments	7
Constituent colleges	39
Recognized post-graduate institutions	14
Total	60

Number of students as on 1st August, 1960.

Students in University Departments	1,694
Students in constituent colleges	49,293
Students in recognized post-graduate institutions	330
Total	51,317

BUDGET (1960-61)*

(*a*) Income Rs. 56,29,778 (exclusive of non-recurring income); (*b*) Expenditure Rs. 59,21,302 (exclusive of non-recurring expenditure); (*c*) Govt. Grants for year 1960-61: Bombay Government Grants Rs. 8,86,574; (*d*) Non-recurring expenditure Rs. 1,13,763.

COLLEGES

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Bombay 58.

Principal:—Dr. R. D. Adatia, M.Sc., Ph.D., F.B.S.

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Byculla, Bombay 8.

Principal:—Dr. K. L. Shourie, B.Sc., M.B.B.S., M.D.S., M.Sc., Ph.D.

* Budget Estimates (1961-62): Income: Rs. 61,85,993; Expenditure: Rs. 67,03,293.

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Principal :—T. K. Tope, M.A., LL.B.

GRANT MEDICAL COLLEGE

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Dean :—Dr. D. V. Virkar, M.S., F.R.C.S. (Ed.).

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Principal, P. S. Rege, B.A. (Bom.), B.Sc. (Econ.) (Lond.).

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This is a teaching and affiliating University.

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The University conducts two Arts colleges, one College of Education and two high schools (in Poona and Bombay) and four Colleges are permanently affiliated to it in Ahmedabad, Baroda, Bhavnagar and Surat and three Colleges at Matunga, Ghatkopar and Fanaswadi are temporarily affiliated.

The Senate is the Supreme Governing Body. It meets ordinarily twice a year and consists of 87 members; 40 elected, 11 nominated, 34 *ex-officio*, and 2 special members. The Annual Convocation for conferring the Degrees is generally held in the month of September as decided by the Chancellor.

The executive government of the University is vested in a Syndicate consisting of the Vice-Chancellor, Dr. Smt. Premlila V. Thackersey, Dr. D. K. Karve, the Deputy Director of Education, Smt. Sharda Divan, Dean of the Faculty of Arts, Principals of conducted and affiliated colleges and 10 Fellows elected by the Senate for three years.

Chancellor :—Governor of Maharashtra.

SYNDICATE

Vice-Chancellor :—Dr. Smt. Premlila V. Thackersey, D.Litt.

Dean of the Faculty of Arts :—Smt. Sharda Diwan, M.A.

Registrar :—Smt. Kamdini H. Bhansali, B.A., M.Ed.

Conducted Colleges :

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(2) P. V. D. Thackersey College of Education for Women, Bombay (*No. of Students :* 106).

(3) S. N. D. T. Thackersey College for Women, Poona. (*No. of Students :* 219).

Affiliated Colleges:

(1) S. L. U. College for Women, Ahmedabad. (*No. of Students :* 351).

(2) Maharani Chimnabai Mahila Pathashala, Baroda. (*No. of Students:* 281).

(3) Shree Mahila College, Shah Sadan, Waghwadi Road, Bhavnagar. (*No. of Students :* 137).

(4) Z. F. Wadia Women's College, Surat. (*No. of Students :* 164).

(5) Shri Matunga Gujarati Seva Mandal Women's College, Matunga, Bombay 19. (*No. of Students :* 154).

Budget 1960-61 :

	Rs.
Grant from Vithaldas D. Thackersey Trust ..	45,000
Government Grant	1,65,000
From other sources such as Examination fees, etc.	5,30,100
Income from Schools and Colleges	5,96,574
Total ..	13,36,674
Expenditure	15,58,407
Deficit	2,21,733

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GHATKOPAR STREE HUNNER UDYOG SHIKSHAN VARGA (Mahatma Gandhi Road, Ghatkopar).

GHATKOPAR STREE HUNNER UDYOG SHIVAN VARGA (Hansraj Morarji Wadi, Mahatma Gandhi Road, Ghatkopar, Bombay).

GHELABHAI PUNSEY MAHILA UDYOG GRIHA (12, Dr. Maisari Road, Bombay-9).

GOVERNMENT LEATHER WORKING SCHOOL (Bandra).

GOVERNMENT POLYTECHNIC (C/o Elphistone Technical High School Compound, Bombay-1).

GOVERNMENT TANNING INSTITUTE (Bandra).

GUJARATI HINDU STREE MANDAL (Amroli House, Vithalbhai Patel Road, Bombay 4).

GUJARATI HINDU STREE MANDAL (Hiravati Hall, Tagore Road, Santa Cruz, Bombay 54).

GUJERATI MAHILA KALA KENDRA (Bombay City Social Edn. Committees), Bhawani Shankar Road, Dadar.

HALAI MEMON INDUSTRIAL HOME (93, Memon Wada, Bombay-3).

HANDICRAFTS TEACHERS TRAINING COLLEGE (Near Worli Sports Club, Dr. Annie Besant Road, Bombay 18).

HIND MAHILA SAMAJ, Cutch Castle, Opp. Opera House, Bombay-4.

INDUSTRIAL ARTS SCHOOL (262, Rane Building, Charni Road, Bombay 4).

INSTITUTE OF RADIO TECHNOLOGY (Jestharam Baug, Tram Terminus, Dadar).

JAIN MAHILA SAMAJ (Mangrol Mansion, Bora Bazar, Fort, Bombay 1).

KALA MANDIR (C/o Girgaum New English School, Mughbhat Naka, Bombay 4).

KANDIVLI STREE MANDAL, Ghodbunder Road, Kandivli.

KANDIVLI TAILORING & EMBROIDERY INSTITUTE, Dhanmal Vidya Bhavan, Mathuradas Road, Kandivli.

KASTURBA MAHILA MANDAL, Jivan Prakash, Tulsi Pipe Rd., Mahim, Bombay-16

KATCHI LOHANA MAHAJAN MAHILA MANDIR (Narottam Road, Mulund).

KSHATRAIKYA SAMAJ KALA KENDRA (Vanmali Hall, Dadar, Bombay).

KUMBARWADA SANSKAR KENDRA (Mahila Mandal, Durgadevi Park, Bombay-4).

LADIES INDUSTRIAL HOME (C. K. P. Hall, Linking Road, Khar, Bombay).

LOHANA BHAGINI UDYOG GRIHA (286, Samuel Street, Vadgadi, Bombay 3).

LOHANA MAHILA PARISHAD MAHILA UDYOG GRIHA (Netaji Road, Mulund).

LOKMANYA SEVA SANGH (Tilak Mandir, Vile Parle, Bombay 24).

M. G. TEXTILE TECHNICAL SCHOOL (Damodar Thackersey Moolji Hall, Parel, Bombay 12).

MADARASHAH TAIYABI HUSSEIN CUTTING CLASS (Saifi Masjid, Doctor Street, Bombay 3).

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MAHARASHTRA LABOUR WELFARE BOARD (Jambori Maidan, Worli, Bombay).
MAHILA KALA BHAVAN, Vinayak Bhavan, Opp. Diamond Talkies, Borivli.
MAHILA KALA BHUVAN (D. L. Vaidya Road, Rammurat Road, Dadar, Bombay 28).
MAHILA KALA BHUVAN (Kunte Building, Vithalbhai Patel Road, Girgaon, Bombay 4).
MAHILA KALA KENDRA (Tank Bldg., Bhuleshwar, Bombay-2).
MAHILA KALA KENDRA (Santa Cruz, Bombay 54).
MAHILA KALA KENDRA TARABEN UDYOGA GRIHA (Sa Niketan, Chandavarkar Lane, G. B. Road, Borivli).
MAHILA KALA MANDIR, Brahmin Sabha Building, Underai Cross Road, Malad.
MAHILA KALA MANDIR (Laxmi Sadan, Vithalbhai Patel Road, Bombay 4).
MAHILA KALA NIKETAN (Gamdevi, Bombay 7).
MAHILA SEVA MANDAL INDUSTRIAL CLASSES (Jubilee Bldg., Damodar Hall, Parel).
MAHILA SEVA SADAN, Plot 205, Opp. Vadala Station, Vadala, Bombay-31.
MAHILA PARISHAD, BHAIDAS LIBRARY SEWING CLASS (Versova Road, Andheri).
MAHIM HINDU MAHILA SANGH (Amirani Mansion, Station Road, Mahim, Bombay 16).
MALAD MAHILA SHIVAN VARGA, Shanti Sadan, Marve Road, Malad.
MARINE COLLEGE & SEAMEN'S ORPHANAGE (C/o The Chief Estate Manager, Sir Mohd. Yusuf Trust, Novha House, 65, Queen's Road, Bombay 2).
MATUNGA GUJARATI HINDU STREE MANDAL (Near Aurora Cinema, Matunga, Bombay-19).
MODEL INDUSTRIAL INSTITUTE (388, Vithalbhai Patel Road, Near Congress House, Girgaon, Bombay 4).
MODERN TAILOR & CUTTER ACADEMY (Gool Mahal, Sleater Road, Bombay-7).
MODERN TAILORING COLLEGE (Central Rly. Stores Lane, Patri Chawl, Lower Parel, Bombay 13).
MOHD. HAJI SABOO SIDDIK TECHNICAL SCHOOL & INSTITUTE (8, Shepherd Road, Byculla, Bombay 8).
MULODYOGA SHIKSHANA KENDRA (Lady Jamshedji Road, Municipal Upper Primary Marathi School, Ranade Road, Dadar, Bombay).
MULUND COLONY NARI SHALLA (Mulund).
NARI SHALLA (T. 44, Chembur Camp, Chembur, Bombay 71).
NAVABHARAT AUDYOGIK VIDYALAYA (Girgaon Municipal Marathi Boys' School, Girgaon, Bombay 4).
NAVA BHARAT KALA MANDIR (336, Bhai Jivanjee Lane, Thakurdwar, Bombay 2).
NAVYUG TAILORING COLLEGE (Narvekar's Anant Nivas, Arthur Road, near Chinchpokli Bridge, Bombay 12).
NEETA MAHILA TAILORING CLASS (Shivanmahal, Near Chinchbunder, Bombay).
NEW INDIA TAILORING COLLEGE (Jawahar Nagar, Bandra, Bombay).
NEW PEDNEKAR TAILORING COLLEGE (Contractor Building, First Floor, 2nd Dubash Lane, V. P. Road, Bombay 4).
NORTH INDIAN ASSOCIATION, LADIES SEWING CLASS (Manu Mahal, King's Circle, Bombay 19).
NUTAN MAHILA KALA BHUVAN (Vishnu Sadan, Hindu Colony, 4th Road, Dadar, Bombay 14).
PATHARE PRABHU MAHILA SAMAJ CUTTING AND SEWING CLASS (333, Thakurdwar, Bombay).
PATUCK POLYTECHNIC, Nehru Road, Santa Cruz (East), Bombay-55.
PRABHADEVI SANKAR KENDRA, Mahila Mandal, Khed Galli, Prabhadevi Road, Bombay-28.
PRIYATAM DHARMA SABHA (Sind Seva Samiti Nagar, Kolwada, Bombay 22).
R. V. TECH. HIGH SCHOOL, 17th Road, Khar, Bombay 52.
RADIO ELECTRIC INSTITUTE (Lamington Chambers, Lamington Road, Bombay 4).
SARVODYA WOMEN'S CO-OPERATIVE SOCIETY, 153-A, Jain Society, Sion, Bombay-22.
SARASWAT BRAHMAN SAMAJ (Nikadwari Lane, Girgaon, Bombay 4).
SCHOOL OF PRINTING TECHNOLOGY, J. J. SCHOOL OF ART, Bombay.
SEVA SADAN SOCIETY (Harvey Road, Gamdevi, Bombay 7).
SEVA SAMAJ MARWADI BUNGALOW, Borivli.
SHIVAN KALA KENDRA (Naigaon Labour Welfare Centre, Naigaon, Bombay-14).
SHIVAN KALA MANDIR, Jamat Khana Bldg., Kurla, Bombay-70.
SHRI BAGNAVI PANCHAYAT NAVISHALA (Panchayat Hall, 162B, Cadell Road, Mahim, Bombay-16).
SHRI DHARMA SHIKSHAN & NIRASHRIST SAHAYAK MANDAL (Shivaji Hall, Byculla, Bombay).
SHRI GURUNANAK NATIONAL SCHOOL (Sion Sindhi Colony, Bombay-22).
SHRI JAIN MAHILA SAMAJ, Palanji Sojpal Chawl, "A" Block, Portuguese Church St., Dadar, Bombay.
SHRI JAIN SHWETAMBER CONFERENCE UDYOGA GRIHA, Lotisha Jain, Lalbag, 109-117, C. P. Tank Road, Bombay 4.
SHRI KOT HINDU STREE MANDAL, 45, Modi Street, Fort, Bombay-1.
SHRI LAD MAHILA MANDAL (Lad Wadi, C. P. Tank), Bombay.
SHRI LOHANA MANDAL (Mahila Parishad Bhavan, 10, Khetwadi, 4th St., Bombay-4).
SHRI VANITA VIKAS MANDAL (Sakarlal Damji Kheraj Bungalow, Trivedi Road, Mulund, Bombay).
SIR J. J. COLLEGE OF ARCHITECTURE, J. J. School of Art Compound, Bombay.
SIR J. J. INSTITUTE OF APPLIED ARTS, J. J. School of Art Compound, Bombay.
SITA'S TAILORING INSTITUTE, Sharda Bhuwan, IInd Floor, Station Road, Kandivli.
ST. XAVIER'S COLLEGE TECHNICAL INSTITUTE (Cruickshank Road, Bombay 1).
STRAND TAILORING COLLEGE (Room No. 24, Abdulla Bldg., Fergusson Road, Lower Parel, Bombay 13).
STREE MITRA MANDAL (Aurora Vistar) (Zaveribhai Hall, B. N. Kapol Nivas, 54/57, R. A. Kidwai Road, Bombay).
VANITA SAMAJ (National Library Hall, Bandra, Bombay 50).
VANITA VIKAS (120-33, Fanaswadi, Bombay 2).
VICTORIA JUBILEE TECHNICAL INSTITUTE (Matunga, Bombay 19).
VICTORIA JUBILEE TECHNICAL INSTITUTE (Govt. Apprentices Scheme, Matunga, Bombay 19).
VIDYUT SHIKSHAN KENDRA (Near Ahmed Tailor Bldg., Vincent Road, Dadar, Bombay).
VIDYUT VIDYALAYA (C/o Ram Mohan English School, Girgaum, Bombay 4).
VIENNA TAILORING COLLEGE (Haroon Rangari Chawl, Opp. Vijayanagar, Dadar, Bombay 28).
VIJAYA VIDYALAYA TAILORING CLASSES (Mohd. Mansion, Dr. Maheshwari Road, Bombay 9).
VILE PARLE GUJARATI MANDAL (Shraddhanand Road, Vile Parle (East), Bombay 57).
VIVEKANAND EDUCATION SOCIETY (Vivekanand Housing Society, Lady Hardinge Road, Bombay-16).
WADALA MAHILA MANDAL (H. No. 909, Katnak Road, Bombay-31).
YESHWANT TAILORING AND CUTTING COLLEGE (Opp. Post Office, Agra Road, Bhandup).
YOUNG MEN'S HINDU ASSOCIATION (Vithalbhai Patel Road, Bombay 4).
ZARAPKAR TAILORING COLLEGE (Bhavani Shankar Road, Dadar, Bombay 28).

BOMBAY DUMB & DEAF INSTITUTION

Kakadwadi, Girgaon, Bombay 4.

The above institution was started in 1925. Dumb and deaf boys and girls are taught here to write, read and sew and also cane & paper work. Admission is given to the needy irrespective of caste and creed. More than 508 students have had the benefit of this charitable institution so far. Almost all of them now earn their own livelihood.

Trustee : C. B. Joshi.

BRITISH INSTITUTE OF ENGINEERING TECHNOLOGY (INDIA) PRIVATE LTD., BRITISH INSTITUTE OF COMMERCE

359, Dadabhoy Naoroji Road, Flora Fountain, Bombay 1.

Principal, R. P. Wellsman.

DOCKYARD APPRENTICE SCHOOL

Naval Dockyard, Fort.

Dockyard Apprenticeships are awarded to boys between 15—17 years (General Apprentices) and 15 to 19 years (Trade Apprentices) who pass competitive examinations and interviews annually in the Naval Dockyard, Bombay for a period of four years.

Officer-in-Charge, Commander A. S. Salvi, I.N.

Senior Instructor Officer, Lieut.-Commander G. N. Dimri, I.N.

"DUFFERIN," TRAINING SHIP

Off Mazgaon Pier, Bombay 10.

(Under the administrative control of the Government of India, Ministry of Transport & Communications).

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The "Dufferin" is a pre-sea training ship for cadets aspiring to become Navigating Officers and ultimately the Captain of a ship in the Merchant Navy. A large number of ex-Dufferin cadets are also employed as officers in the Indian Navy, Port Services, Mercantile Marine Department and other ancillary services.

The course is of 2 years duration and consists of educational and professional subjects, stress being laid upon officer-like qualities and physical proficiency. All cadets are resident on board and are required to be physically fit to take part in all ship's activities. On satisfactory completion of training cadets are accepted in sea-going ships of the Merchant Navy for 3 years apprenticeship. After passing a Ministry of Transport Certificate of Competency they become qualified for appointment as Navigating Officers.

The age limits for admission are 15½ to 18 years on the 1st July of the year of entry. Annually about 80 cadets who have matriculated are selected on the basis of an all-India qualifying examination, and interview. The approximate total cost to a parent is about Rs. 2,300. A large number of scholarships ranging in value from Rs. 400 to Rs. 1,500 are available.

The first cadets joined the Training Ship in November 1927 since when 1,115 cadets have been trained for a sea career; in addition between the years 1936 and 1949, 287 cadets were trained for the Engineering Branch. Of the 1,115 cadets, 460 are Officers in the Merchant Navy, 61 in the Indian Navy, 175 in the Port Services and 57 are serving in the ancillary and other services. In addition, there are 163 cadets in training on board the ship.

The "Dufferin Committee" under the auspices of the Merchant Navy Training Board presided over by the Minister of State in the Ministry of Transport & Communications, with the Director General of Shipping as Chairman is the Advisory Body.

Captain Superintendent.—Captain M. F. S. C. Harvey, R.D., F.R.G.S., M.I.N., A.I.N.A., J.P.

ELPHINSTONE TECHNICAL HIGH SCHOOL

Cruickshank Road, Fort.

The School is full-fledged Technical-cum-Multipurpose High School. Evening classes & National Apprentice scheme for Industrial Workers to teach trade theory are conducted.

Head Master, D. K. Tilak.

INDIAN INSTITUTE OF ARCHITECTS

Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

President: Hom N. Dallas, F.R.I.B.A., F.I.I.A., *Vice-President:* A. S. Patil, F.R.I.B.A., F.I.I.A.; *Jt. Hon. Secretaries:* J. B. Fernandes, A.R.I.B.A., F.I.I.A., J. B. Aga, L.R.I.B.A., F.I.I.A.; *Hon. Treasurer:* B. D. Bhatre, G.D.Arch., F.I.I.A.

INDIAN INSTITUTE OF BANKERS

State Bank of India Building, Apollo Street, Bombay 1.

Hon. Secretary.—A. J. Doctor.

INDIAN INSTITUTE OF ROAD TRANSPORT

Best House, P.O. Box No. 192, Fort, Bombay 1.

President: R. G. Saraiya; *Chairman:* R. C. Joshi; *Hony. Secretaries:* N. Balkrishna, T. V. Ramanujam; *Hon. Treasurer:* M. C. Chuduwala.

INDIAN INSTITUTE OF TECHNOLOGY

P.O. I. I. T. Bombay, Powai, Bombay 76.

The Institute is the second in the chain of four such institutes to be set up in the country. The first is located in Kharagpur.

The Institute has a campus of over 550 acres of picturesque land surrounding the Powai Lake in Greater Bombay which has been placed at its disposal by the Government of Bombay.*

The Institute has facilities for training 2,000 students—undergraduate, postgraduate and research. The Institute provides training in chemical, civil, electrical, mechanical and metallurgical engineering, leading to Bachelors and postgraduate degrees.

The Institute is fully residential and provides not only hostel accommodation for all the students on the campus but will also provide accommodation to its staff.

The building scheme of the Institute includes laboratories for various departments, central workshop, central library, assembly hall, auditorium, administrative blocks, printing press, hostels for students, a hostel for officers and residential buildings for members of staff.

The Institute has been functioning as an autonomous body governed by a Board of Governors under the Chairmanship of Kasturbhai Lalbhai since April 1958.

From the very beginning the UNESCO became associated with the Institute. As a result of an agreement with UNESCO ten million roubles worth of equipment from U.S.S.R. are being supplied to the Institute. In addition, equipment of 3 million roubles will be available to the Institute, under a new bilateral agreement between the Government of India and the Government of the U.S.S.R. The services of eighteen UNESCO experts are also made available to the Institute during a five-year period.

Facilities for training of teachers of the Institute in the U.S.S.R. are also being provided.

Director: Brigadier S. K. Bose.
Dy. Director: Prof. N. R. Kamath.
Registrar: V. Nehra.

INDIAN TECHNICAL EDUCATION SOCIETY'S RADIO ELECTRIC INSTITUTE

Lamington Chambers, Opp. "The Naaz", Bombay 4.

This Institute was started in April 1934 to fulfil a much-felt need in Radio Circles for good, trained Radio Experts. It gives students a thorough experience and training in courses preparatory to

(*i*) Associate Membership Examinations held by (*a*) Institute of Engineers (India), (*b*) Institute of Electrical Engineers (London), and (*c*) British Institute of Radio Engineers.

(*ii*) City and Guilds—London Institute Final Grade Examinations in (*a*) Electrical Engineering Practice, (*b*) Radio Service Work of proficiency.

(*iii*) Government of India's I, II and Special Class Certificate of Examinations in Wireless Telegraphy.

(*iv*) Department of Technical Education, Government of Bombay Examinations in (*a*) Radio Engineering, (*b*) Radio Servicing, (*c*) Electricians, (*d*) Wireman Apprentices, (*e*) Wireless Telegraphy.

INSTITUTE OF SUPERVISORY TRAINING

121, Queen's Road, Bombay 1.

President: Kali H. Mody; *Vice-President:* S. N. Roy; *Hon. Secy.:* S. M. Bekal.

MOGAVEERA FREE INDUSTRIAL SCHOOL FOR WOMEN

46, Vir Nariman Road, Fort, Bombay.

M. H. SABOO SIDDIK POLYTECHNIC

8, Shepherd Road, Byculla, Bombay 8.

This institution is divided into a technical high school section leading to the S.S.C. Examination and diploma and certificate courses section providing instruction in technical subjects.

Principal, S. S. Desnavi.

NAUTICAL AND ENGINEERING COLLEGE

Azad Maidan, Waudby Road, Bombay 1.
(Ministry of Transport & Communications, Government of India).

This College provides training facilities to officers of the Merchant Navy and akin services.

Principal:—Captain P. Alexander, F.R. Met.S., M.I.N., Assoc.I.N.A., J.P.

ROBERT MONEY SCHOOL

Proctor Road, Bombay 7.

The School was converted into a Technical High School in 1948 preparing pupils for the Government Secondary School Certificate examination with technical subjects. A Primary School is attached to the High School.

Principal.—C. A. Christie, B.A., B.T.

* Bilingual Bombay.

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SIR JAMSETJEE JEEJEEBHOY SCHOOL OF ART

D. Naoroji Road, Fort.

A small Art Museum containing specimens of Indian and European art is attached to the school.

Dean.—P. A. Dhond.

ST. XAVIER'S COLLEGE TECHNICAL INSTITUTE

Cruickshank Road, Bombay 1.

Courses taught at Diploma and Certificate level on Electronics and allied subjects.

Rev. E. J. Benedetti, S.J., *Principal.*

STATE COUNCIL OF TECHNICAL EDUCATION, STATE OF MAHARASHTRA

C/o Department of Technical Education, Elphinstone Technical High School Building, Dhobi Talao, Bombay.

The functions of the Council are to advise Government on matters relating to technical education.

TEACHERS TRAINING ACADEMY

Bharda New High School, Waudby Road, Bombay 1.

Director :—J. H. Trivedi, B.A. *Secretary* :—B. M. Kapadia, M.SC., B.T.

VICTORIA JUBILEE TECHNICAL INSTITUTE

Matunga, Bombay 19.

(Central Technological Institute, Bombay).

Principal.—R. K. Mody, M.Sc.Tech., A.T.I.

MISCELLANEOUS

ALLIANCE FRANCAISE DE BOMBAY

French Bank Building, 21, Homji Street, Fort, Bombay.

Central Audio-Visual : Dhanraj Mahal, Apollo Pier Road, Bombay 1.

The aim of the Alliance Francaise is to make known French language, thought and culture.

OFFICE-BEARERS :—S. P. Godrej, *President* ; J. Sanna, *Attache & Cultural Director* ; E. Finot, *Honorary Treasurer.*

ALL INDIA INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION

Haji Ali Park, Clerk Road, Mahalaxmi, Bombay 11.

Rehabilitation Centre for the Orthopaedically handicapped; training centre in rehabilitation for physicians, physiotherapists, occupational therapists, nurses, social workers, prosthetists, vocational counsellors, etc.

Medical Director, Dr. M. V. Sant.

ALL INDIA INSTITUTE OF LOCAL SELF-GOVERNMENT

(Established in 1951.)

With which is combined the Local Self-Government Institute, Bombay.

(Established in 1927).

11, Horniman Circle, Bombay-1.

An association of Local Bodies established with a view to advancing the study and knowledge of the principles and practice of Local Self-Government.

Conducts Training Classes for Local Self-Government Service, awards L.S.G. Diploma, recognised by the Ministry of Health and various State Governments. Conducts the Sanitary Inspectors' Training Classes and is likely to conduct Classes in Higher Studies for Officers of Local Bodies.

Maintains a big Library and runs a book depot of publications on Local Self-Government subjects, conducts four Journals in English, Marathi, Gujarati and Hindi.

Tenders free legal and technical advice to Local Bodies, acts as Central Stores Purchasing Agency, holds periodical Conferences of Local Bodies, and renders other numerous services.

ANGLO-SCOTTISH EDUCATION SOCIETY

6, Outram Road, Fort.

Principal, B. Gunnery, M.A. (Oxon.).

ANJUMAN-I-ISLAM

92, Dr. Dadabhoy Naoroji Road, Bombay 1.

The Anjuman-i-Islam, originally founded in 1875, is an association registered under the Indian Companies Act. It conducts :

4 Boys' High Schools ; 1 Boys' Middle School ; 1 Boys' Residential School ; 1 Polytechnic ; 2 Commercial High Schools ; 2 Girls' High Schools with Primary Sections ; 1 Urdu Research Institute for Post-Graduate Studies ; 1 Public library and reading room ; 1 Boys' Hostel ; 1 Night School for adults ; 1 Children's Foundling Home ; and 2 Girls' Orphanages.

President.—Akbar A. Peerbhoy, Bar-at-Law ; *General Secretary.*—A. R. Dawood.

AYURVIDYA PRASARAK MANDAL

(Ayurvedic Hospital and College).

Near Sion Railway Station, Sion, Bombay 22.

President : Vaidya G. V. Puranik ; *Donor Trustee* : Bhagwandas Dharamdas ; *General Secretary and Dean* : Dr. T. R. Naravane.

BALAK MANDIR

C/o P. K. V. Samaj, Gamdevi, Bombay 7.

The Institution was founded in June 1949 by the Pathare Kshatriya Vaktrutwottejak Samaj to impart education to children through Montessori methods.

Hon. Secretary—Gangubai Vasant Dholekar.

BANKERS' TRAINING COLLEGE

Cadell Road, Dadar, Bombay 28. Conducted under the auspices of the Reserve Bank of India.

Principal.—T. K. Ramasubramaniam.

BHARATIYA VIDYA BHAVAN

Chowpatty Road, Bombay 7.

Bharatiya Vidya Bhavan, a unique educational institution, conducts Shastric studies on indigenous lines, Indological research on lines developed in the West and the dynamic cultural activities of resurgent India looking forward to the future. It conducts (*i*) Sanskrit Mahavidyalaya for Shastric studies, (*ii*) Gita Vidyalaya for study of Hindu religion, (*iii*) Samshodhan Mandir for Post-graduate studies and research in Indology, (*iv*) Sarasvati Mandir for fine arts and handicrafts, (*v*) Sangit Shiksha Pith, (*vi*) Bharatiya Nartan Shiksha Pith, (*vii*) M. M. Arts College and N. M. Institute of Science, Andheri, affiliated to the Bombay University for M.A., M.Sc. & Ph.D. courses, and (*viii*) Publishes University Books, the *Bharatiya Vidhya*, an Indological Quarterly, is publishing a *History and Culture of the Indian People* in ten volumes, a fortnightly English journal, "Bhavan's Journal" and *Bharati*, a Hindi monthly and *Samarpan*, a Gujarati monthly, incorporating "Kulapati's Letters on Life, Literature and Culture". It conducts examinations in easy Sanskrit on all India basis and in which a large number of students appear. Its research work consists of 66 volumes published, an equal number under print and more under preparation. Many Chairs and scholarships are established for study and research. The library and museum have valuable collections. Many scholars of all-India reputation are on the staff.

Founder-President.—K. M. Munshi.

BOMBAY CITY SOCIAL EDUCATION COMMITTEE

Sales Tax Offices Bldg., Swadeshi Mills Compound, Tata Road No. 2, Near Roxy Cinema, Charni Road, Bombay 4.

The Committee imparts Social Education including instruction in community and individual health, hygiene, civics and literacy both in theory and practice to men and women in the city of Bombay.

The Committee has a Special Scheme for educating workers in mills and factories also.

Activities :—The Committee runs 2,000 literacy and 600 post literacy centres per year in Marathi, Gujarati, Hindi, Urdu, Kannada and Telugu ; arranges cultural programmes every week ; cinema programmes every day ; circulates library boxes ; arranges science and other exhibitions for the enlightenment of the illiterate masses and cleanliness programmes. It has also established 14 Community Radio Centres in the labour areas. It has organised 6 Matru Vikas Kendras for women and a special Research Department for Social Education.

Finances :—The annual expenditure is about Rs. 3,75,000. The Govt. of Maharashtra pays 60 per cent of the annual expenditure and the Bombay Municipality contributes about 12 per cent. Amongst others, Sir Dorabjee Tata, Sir Ratan Tata Trust and

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N. M. Wadia Charities make regular yearly contributions. A special annual feature is the Social Education Week celebration to collect funds and to awaken consciousness in the public of the need of Social Education.

Achievements :—During the last 12 years, the Committee has educated in literacy and general knowledge in Marathi, Hindi, Urdu, Gujarati and Telugu languages more than 418,418 adults of whom 84,208 were women at a total cost of Rs. 50,14,723. Adults are provided with all educational facilities free.

President.—S. L. Silam (Speaker, Maharashtra Leg. Assembly); *Secretary* —G. K. Gaokar.

BOMBAY CO-OPERATIVE SCHOOL

11, Bank Street, Fort, Bombay 1.

Principal : Prof. Ram Joshi.

THE BOMBAY EDUCATION INSTITUTE

Ganga Nivas, Ranade Road,
Dadar (Western Railway), Bombay 28.

The institute conducts courses in commercial subjects. It holds morning and evening classes.

Sole Proprietor and Principal : H. A. Kirtane, B.A., LL.B. ; *Secretary and Accountant* : R. E. Hyams.

BOMBAY EDUCATION SOCIETY

Clare Road, Byculla, Bombay 8.

The Bombay Education Society was founded in 1815 by Archdeacon Barnes for the maintenance and education of poor European and Anglo-Indian children in the city of Bombay.

President.—The Rt. Rev. the Bishop of Bombay; N. R. Ferguson, *Chairman, Managing Committee* ; The Rev. H. V. Paul, *Hon. Secretary* ; P. J. Thomas, W. I. Jacobs, *Hon. Treasurers* : W. R. Coles, B.A., Headmaster, Barnes High School, Deolali, Nasik Dist. ; The Rev. K. F. MacGowan, M.A., Headmaster, Christ Church High School, Byculla, Bombay.

The Society owns and manages two schools—the Christ Church High School at Byculla and the Barnes High School at Deolali.

BOMBAY EDUCATIONAL LEAGUE

(Estd. 1933)
Shri Bhuwan, IInd Floor,
169/20, Thakurdwar Road, Bombay 2.

The Institution runs the Colaba Night School, and is attended by two hundred students from all communities who belong to the working class.

Hon. Patrons : Prof. V. G. Rao, Mrs. Eapsey A. Salava'a.

Gen. Secy. : A. P. Pardeshi.

BOMBAY HIGHER EDUCATION SOCIETY

(Founded 1958)
208, Dinshaw Watcha Road, 2A, Mistry Court, Bombay 1.

AIMS AND OBJECTS : To provide and promote higher education by giving financial aid to the needy and deserving students belonging to the educationally-backward communities.

THE BOMBAY SCHOOL OF REFRACTION

(for the scientific correction of vision).
19, P. M. Road, Bell Building, Bombay 1.

Dean :—Dr. V. V. Gupte. *Executive Secy.* :—K. G. Singh.

BOMBAY STATE CO-OPERATIVE UNION

9, Bake House Lane, Fort, Bombay 1.

Apex body for Co-operative Education, Training and Propaganda and Publicity in Maharashtra State.

Chairman : V. L. Mehta ; *Vice-Chairman* : V. P. Varde ; *Hon. Secretary* : Dhirajlal D. Shah ; *Chief Executive Officer* : G. C. Mukhtyar; *Asst. Chief Executive Officer and Editor, Bombay Co-operative Quarterly* : M. V. Madane ; *Asstt. Editor*, V. S. Mali.

THE BRITISH COUNCIL

REGIONAL OFFICE AND LIBRARY.—French Bank Bldg., 4th Floor, Homji Street, Fort.

Poona Branch Library.—Ranade Institute Bldg., Fergusson College Road, Poona-4.

The British Council is a body under Charter to Her Majesty the Queen and is the principal agent of Great Britain for the development of cultural relations with foreign and Commonwealth countries. It works in some seventy countries, in addition to extensive activities in the United Kingdom itself.

Its purpose and work are to convey knowledge of Britain to other countries. This it does by encouraging the flow of knowledge, ideas, and understanding between the technical, professional, and learned men of societies of Britain and those of countries abroad ; it assists in English language teaching and in the promotion of English studies ; it awards a small number of scholarships each year for post-graduate study in Britain; it concerns itself with the welfare of overseas students in Britain, and maintains centres in most of the university towns ; it arranges courses and programmes of a professional nature for visitors to Britain, and it has administrative and welfare responsibilities for fellows and scholars of the United Nations agencies, for Colombo Plan trainees, and for beneficiaries under the established Commonwealth Universities Interchange Scheme as well as the latest Schemes for Educational Co-operation in the Commonwealth.

The Bombay Library and Reading Room contains 25,000 books on literary and technical subjects, and a large collection of over 280 periodicals. Poona branch library has 6,000 books and 80 periodicals.

Headquarters : 65, Davies Street, London W. 1.

Headquarters in India : New Delhi.

Other Regional Offices in Calcutta and Madras.

Branch libraries in Poona, Bangalore, Lucknow and Ranchi.

CHANDRASENIYA KAYASTHA PRABHU EDUCATION SOCIETY, DADAR, BOMBAY

2 Bhaskar Bhau Wadi, Gamdevi, Bombay 7.

President : Rao Bahadur B. H. Shringarpure, B.A., LL.B.; *Chairman* : V. G. Mokashi, B.Com. ; *Secretary* : V. S. Chaubal, B.A. (Hons.), B.T., M.Ed.

THE REV. D. G. D'ALMEIDA EDUCATIONAL FUND

Victoria Cottage, 38, St. Sebastian Colony, Bandra, Bombay 50.
Secretary : D. E. Pereira, A.C.R.A.

THE DADAR PARSEE YOUTHS' ASSEMBLY

Perviz Hall, 800, Jam-e-Jamshed Road, Parsee Colony, Dadar.

S. S. C. & Pre-S. S. C. Classes, Commercial Classes, Hindi Classes, Shorthand & Typing Classes, Loaning of Books to students, Small Scale Industries, High School.

President : R. J. Mithaiwalla, B.A., LL.B. ; *Vice-President* : R. B. Kakalia ; *Hon. Secretary* : D. D. Kajadia, B.A., LL.B., Advocate, High Court ; *Hon. Treasurer* : F. K. Kutar.

THE DAWOODBHOY FAZALBHOY MUSLIM EDUCATIONAL TRUST & NURSERY SCHOOL

42, Pydhoni Road, Bombay 9.

Trustees : Mrs. Fatmabai D. Fazalbhoy, E. A. Karim Panjoo, Y. C. Chinwala and D. G. Esmail.

DEODHAR'S SCHOOL OF INDIAN MUSIC

Mody Chambers, French Bridge Corner, Bombay 4.

DEVGAD EDUCATION BOARD

C/o Dr. M V. Rege, Kandewadi, Girgaum, Bombay 4.

President : B. D. Sawant ; *Chairman, Executive Council* : B. D. Chirputkar, B.Com., LL.B. ; *Principal, Sheth M. G. High School, Devgad* : S. A. Tenkshe, M.A., M.Ed., R. B. Pandit ; *Head Master : A. K. Kelkar High School, Vada*, G. H. Mutalik, B.Sc., B.T., and Madhyamik Vidyalay, Vijaydurg.

FIDAI ACADEMY & GIRLS' EDUCATIONAL INSTITUTE

Fidai Baugh, Marzban Road, Andheri (Bombay).

Conducted By—The followers of H.H. The Agakhan's Ismaili Community.

Maintains 210 orphans and needy boys and girls.

President, Fidai Academy : Esmail Shakoor Gangji ; *President, Fidai Girls' Educational Institute* : Alibhai Premji Tyrewala ; *Hon. Chief Secretary* : Kasamali S. Jagmagia ; *Hon. Jt. Secretaries* : Samsudin K. Budhwani, Tajdin Alibhai Hooda ; *Hon. Treasurers* : Fatehali Alimohamed, Mohamed Alibhai Mohamed, Kurbanali M. Hooda.

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GENERAL EDUCATION ACADEMY

65, Babu Genu Road, Bombay 2.

A private organisation for the promotion of education among the masses. Thesis on educational matters particularly Hindi translation of scientific and technical subjects considered for publication. Rare books and hand written manuscripts bought, sold and exchanged. Information re : educational matters available against return postage. Employment of teachers secured in institutions and families. Donations accepted.

Director :—Hari Prasad Gupta.

THE GENERAL EDUCATION INSTITUTE

Dadar, Bombay 28.

OBJECT : Promoting education among the masses.

The Institute at present conducts the following institutions :—

Chhubildas Lulloobhoy Boys' High School, Dadar, Bombay; High School, Kalyan; New High School, Kalyan; M. H. High School, Thana; Native Institution, Uran, District Kolaba; Girls' High School, Dadar, Bombay; English School, Mahim, Bombay; Parsharam Ramnarayan High School, Bhivandi, District Thana; S. V. Joshi High School, Dombivli, District Thana; High School, Kurla; Chhubildas Lulloobhoy Primary School, Dadar, Bombay.

President : Justice P. B. Gajendragadkar; *Chairman, Board of Directors :* G. S. Diwan; *Secretary :* S. V. Kulkarni.

GOKHALE EDUCATION SOCIETY

Vithalbhai Patel Road, Bombay 4.

The objects of the Society are:—1. To start, control and maintain institutions imparting education to students with a view to making them ideal citizens. 2. To encourage and facilitate among the life-workers of the Society the study of educational problems in India and other countries. 3. To carry on educational propaganda by means of lectures, publications and other means. The present number of life-members is eleven.

The affairs of the Society are managed by a Senate which consists of all the Life-members of the Society, retired life-members and representatives of the Staff and by a governing body consists of life members and retired life members.

GOLWALLA'S CLASSES

(Estd. 1910)

Bombay Mutual Building, Dadabhoy Naoroji Road, Fort, Bombay.

PRINCIPAL AND PROPRIETOR.—Eruch R. Golwalla

GOVT. TANNING INSTITUTE

Bandra (East), Bombay 50.

Tanning Expert & Superintendent : N. N. Guha; *Asst. Superintendent :* V. G. Damle.

GOVERNMENT TRAINING INSTITUTE FOR PHYSICAL EDUCATION

Kandivali, Bombay 67.

Admission is open to university graduates. The institution is wholly residential with separate accommodation for 80 men and 20 women.

Principal, D. B. Kothiwale, B.A., M.Ed., D.P. Ed. (Mad.).

HIND EDUCATION SOCIETY

C/o Dr. S. J. Patkar, Dossa Bldg., Nowrojee Hill Road No. 7, Bombay, 9.

President : P. G. Manjrekar; *Vice-President :* S. M. Thakare, J.P.; *Secretary :* Dr. S. J. Patkar, M.B.B.S., J.P.

THE INDIAN INSTITUTE OF EDUCATION

40/1, Township Colony, Chembur, Bombay 71.

An Educational Research Institute—(*i*) Guides post-graduate students of the University of Bombay, (*ii*) Publishes educational researches.

Chairman : N. P. Samant, B.A., LL.B.; *Hon. Secretary and Director :* V. P. Khanolkar, M.A. (London).

INDIAN STATISTICAL INSTITUTE

(Bombay Branch)

1st Floor, Nanabhay Mansion, Sir P. M. Road, Bombay 1.

Telegrams : 'ISIBOM'

OFFICE-BEARERS :—Dr. Jivraj N. Mehta, *Hon. President ;* R. G. Saraiya, Dr. N. S. R. Sastry, Dr. C. Nanjundayya, M. G. Kotibhaskar, *Hon. Vice-Presidents ;* M. A. Telang, *Hon. Secretary ;* K. A. Antony, *Hon. Jt. Secretary ;* Dr. D. T. Lakdawala, *Hon. Treasurer.*

INDUSTRIAL MANAGEMENT SECTION

Victoria Jubilee Technical Institute, Matunga, Bombay 19.

Prepares management students for Post-Graduate Diploma in Industrial Management of Bombay University and for Certificate in Foremanship and Supervision.

Principal : R. K. Mody; *Asstt. Professors :* R. K. Gupta, B. Chakraborty.

INSTITUTE OF SCIENCE

Mayo Road, Fort, Bombay.

Director : Dr. D. V. Bal; *Professor of Bio-Chemistry :* Dr. (Mrs.) Kamala Sohonie.

INSTITUTE OF SECRETARIES

Lentin Chambers, Dalal Street, Fort.

President.—H. A. Bharucha, B.A.

Chairman.—C. C. Sutaria, F.C.C.S., F.A.I.A. (Lond.).

THE INSTITUTE OF VOCATIONAL GUIDANCE

3, Cruickshank Road, Elph. Tech. High School Bldg., 1st Floor, Bombay 1.

JAIN EDUCATION SOCIETY

14, Marzban Road, Fort, Bombay 1.

Manager : Bachubhai P. Doshi, B.A.; *Secretaries :* Chimanlal C. Shah, M.A., LL.B., Solicitor; Durlabhji K. Khetani.

KARNATAK PROGRESSIVE EDUCATION SOCIETY BOMBAY

179, Hindu Colony, Bhalchandra Road, Dadar, Bombay 14.

The object of the Society is to advance loan scholarships. It is open to scholars of all Communities in the Kannada speaking areas of the Indian Union or whose parents originally belonged to such areas.

Loan Scholarships granted—to 203 scholars to the extent of Rs. 1,40,750 till 30-6-1960. Reserve Fund :—Rs. 55,885 till 30-6-1960.

President : Mr. Justice K. G. Datar; *Managing Committee : Chairman :* S. H. Belavadi; *Treasurer :* K. S. Bhujang; *Hon. Secretary :* S. V. Kalghatgi.

KISHINCHAND CHELLARAM EDUCATIONAL TRUST

Gazdar House, Dhobi Talao, Bombay 2.

TRUSTEES.—Hotchand Gopaldas Advani, Bar-at-Law; K. Lokumal; T. Murli; Purshotamdas H. Sabnani; Vishindas Gianchand Motwani; Watumal Jhamnadas; Gobindram Hassaram; R. B. Lalchand Watanmal; Manghanmal Udharam; T. Pishu; K. D. Kirpalani.

K. R. CAMA ORIENTAL INSTITUTE

136, Apollo Street, Fort, Bombay.

OBJECTS.—The Institute has been founded with the object of promoting and advancing oriental studies and offering facilities to the existing societies and institutions already engaged in such work, and if necessary by founding scholarships for the purpose of encouraging and advancing oriental studies. The Institute publishes a journal periodically. Life-membership subscription, Rs. 100, annual membership, Rs. 10.

PRESIDENT.—Sir Rustom Masani, Kt., M.A.

TRUSTEES.—Sir R. P. Masani, Kt., M.A.; Rustam J. J. Modi, Bar-at-Law; J. H. Cama, B.A.; K. H. Cama; N. H. Tata and T. D. Desai, B.A., LL.B.

JT. HON. SECRETARIES.—J. C. Tarapore, M.A., LL.B.; Erwad M. F. Kanga, B.A. (Hons.); *Librarian,* K. P. Dastoor, M.A.

THE M. F. CAMA ATHORNAN INSTITUTE

Office : 24-26, Dalal Street, Fort, Bombay 1.

Institute : Cama Road, Andheri, Bombay 58.

President : J. H. Cama; *Secretary :* J. R. Mistry; *Principal :* Dr. P. K. Anklesaria.

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MANAGEMENT TRAINING CENTRE

448, Sardar V. Patel Road, Bombay 4.

The Centre is a division of Kumar Jain and Associates, Counsellors to Management. Occasional training in different cities is imparted on various management topics of office, business and sales.

Director : S. Kumar Jain, B.Sc., M.B.A., Ph.D.

Secretary : N. S. Gopalkrishnan, A.C.W.A., A.M.B.I.M.

MODEL ART EDUCATION SOCIETY'S
MODEL ART INSTITUTE

Noor Building, Opp. W. Rly., Dadar Station, Bombay 28.

Principal : M. S. Joshi, G.D.Art., A.M. ; *Secretaries :* B. L. Samudra and R. P. Joshi, A.M.

NATIONAL KANNADA EDUCATION SOCIETY

Sewri-Wadala Estate, Bombay 31.

The Society runs a high school at the Sewri-Wadala Estate having Standards I to XI.

Principal of the School : P. N. Moorthi, M.A., B.T.

OCCUPATIONAL THERAPY TRAINING CENTRE & SCHOOL

K.E.M. Hospital, Parel, Bombay 12.

In-Charge : Mrs. Mira M. Shahani.

PARSEE GIRLS' SCHOOL ASSOCIATION

42, New Marine Lines, Bombay 1.

Hon. Secy., Mrs. J. B. Godrej.

PEOPLE'S EDUCATION SOCIETY, BOMBAY

Anand Bhavan, Near Flora Fountain,
Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

The Society was founded in 1945 by the late Dr. B. R. Ambedkar. Its object is to bring college education within the reach of the middle and poorer classes. It gives special facilities to the Scheduled Caste and Backward Class Students.

GOVERNING BODY.—*Chairman :*—R. R. Bhole, B.Sc., LL.B.; *Deputy Chairman :* Barrister M. B. Samarth; *Members :* D. G. Jadhav, B.A., LL.B.; Prof. V. G. Rao, B.A., LL.B. (Cantab.), Bar-at-Law, O.A.; C. N. Mohite; M. V. Donde, B.A.; B. H. Varale; S. A. Upasham.

Secretary.—K. B. Talwatkar, M.A.

The Society runs five colleges, two High Schools and one Night High School. (1) Siddharth College of Arts and Science, Bombay. (2) Siddharth College of Commerce and Economics, Bombay. (3) Siddharth College of Law, Bombay. (4) Milind Mahavidyalaya, Aurangabad. (5) Milind Vidyalaya, Aurangabad. (6) Siddharth Night High School, Bombay. (7) Dr. Ambedkar College of Commerce. (8) People's Education Society's High School, Osmanpura, Aurangabad.

The Society also maintains a Backward Class Hostel at Pandharpur and gives grants to Backward Class Hostels at Manmad, Nandurbar, Chalisgaon, Sangamner, Dapoli, Dholka, Nipani, Patan and Poona.

RAO BAHADUR S. V. RAJADHYAKSHA G. S. B. FOREIGN EDUCATION SOCIETY

Chikitsaka Samuha Building, Kandewadi, Bombay 4.

FUNDS.—The Permanent Fund of the Society amounted to Rs. 2,17,437 on 31st December 1959.

LOAN-SCHOLARSHIPS GRANTED—65 Scholars have been granted loan-scholarships of the aggregate sum of Rs. 3,02,692 during the last 37 years.

MANAGING COMMITTEE :—*Chairman :*—S. S. Naik; *Vice-Chairman :*—*Principal :*—K. R. Gunjikar; *Hon. Treasurer :*—V. M. Telang; *Hon. Secretaries :*—K. S. Laud and Y. H. Sukthankar.

SARASWAT VIDYARTHI SAHAYAK MANDALI

OFFICE.—Chikitsaka Samuha Building, Kandewadi, Bombay 4.

WORK DONE.—The Institution has advanced in all nearly Rs. 6,19,345 to 2,421 poor and deserving students from all parts of the country to get an education and has built up a Reserve and Endowment Fund of Rs. 6,32,674.

Trustees :—Dewan Bahadur Dr. J. S. Nerurkar; S. A. Sabnis; Y. H. Sukthankar; *Chairman :*—Y. V. Lawande; *Hon. Secretaries:* S. R. Sukthankar, V. N. Kamat.

SCHOOL OF DRAMATIC ARTS

Bhulabhai Memorial Institute, 89, Bhulabhai Desai Road, Bombay 26.

The School was founded and is managed by the Theatre Unit. It consists of two class rooms, library, an open air theatre and a workshop with electrical and mechanical tools. It has the latest teaching aids, two tape recorders, an epidiascope and a film projector.

Sessions begin in July. The School provides a 2-year Course in Dramatics (theory and practice) plus an optional 1-year Post Graduate Course. The syllabus covers, in addition to Acting, the History of Eastern and Western Drama, Speech training, and Movement (including Mime). Classes are held in the evenings only, from 6-30 p.m. to 9 p.m. and are conducted in English. Hindi is compulsory.

The Staff consists of the Principal, who is the Chief Instructor in Acting and Production, a Teacher of Speech, an Assistant Teacher of Acting and a Lecturer on Western Drama.

Fees.—Rs. 20 per month, including vacations.

Principal.—E. Alkazi.

SHRI MAHAVIRA JAINA VIDYALAYA

Gowalia Tank Road, Bombay 26.

Among its multiple aims includes founding useful secular and religious institutions, giving special facilities to students for prosecuting their studies in different colleges and universities as well as encouraging studies of Sanskrit and Prakrit literature.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Apollo Pier Road, Bombay 1.

The Tata Institute of Fundamental Research was established jointly by the Government of Bombay* and the Trustees of the Sir Dorabji Tata Trust in June 1945. The object of this all-India Institute is fundamental research in Physics, Mathematics and allied sciences. The Institute is permanently recognised by the University of Bombay as a constituent recognized institution for post-graduate research in physics and mathematics.

Though, at its inception, the Government of India was not directly concerned with the Institute, it has provided grants since 1948. In view of the increasing financial assistance given by the Government of India, which latterly contributed over 90% of the Institute's budget, a tripartite agreement was entered into between the Government of India, the Government of Bombay* and the Sir Dorabji Tata Trust, and came into force on April 1, 1956. This agreement, under which the Government of India recognises the Institute as the National Centre for advanced study and fundamental research in nuclear science and mathematics, provides for its administration by a council consisting of representatives of the 3 parties, the Government of India having a major voice.

Till the Atomic Energy Establishment of the Department of Atomic Energy was created, the Department recognised the Institute as the centre for all large-scale projects in nuclear research and entrusted to it important research projects in which it was interested. With the creation of the Atomic Energy Establishment such projects have been taken over by the Establishment; however, pending the construction of its own laboratories at Trombay, facilities are being provided at the Institute to some groups of the Physics Division of the Establishment.

COUNCIL

J. R. D. Tata (*Chairman*); Dr. H. J. Bhabha, D.Sc., F.R.S., F.N.I.; P. N. Thapar, I.C.S.; N. N. Wanchoo, I.C.S.; M. R. Yardi, I.C.S.; Professor R. Choksi, M.A.

STAFF

Academic

Dr. H. J. Bhabha, D.Sc., F.N.I., F.R.S., *Director and Professor of Theoretical Physics*; Professor K. Chandrasekharan, Ph.D., *Deputy Director, Mathematics, and Senior Professor*; Professor D. D. Kosambi, *Professor of Mathematics*; Professor M. G. K. Menon, Ph.D., *Professor of Experimental Physics*; Professor R. Ramanna, *Professor of Experimental Physics*; Professor S. S. Dharmatti, *Associate Professor of Experimental Physics*; Professor D. Lal, *Associate Professor of Experimental Physics*; Professor D. Y. Pandke, *Associate Professor of Experimental Physics*; Professor K. G. Ramanathan, *Associate Professor of Mathematics*; Dr. B. V. Sreekantan, *Reader in Experimental Physics*; Dr. B. V. Thosar, *Reader in Experimental Physics*.

* Bilingual.

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Administrative

E. C. Allardice, I.C.S. (Retd.), *Deputy Director (Administration)*; N. R. Puthran (*Registrar and Secretary to the Council*).

TATA INSTITUTE OF SOCIAL SCIENCES

Sion-Trombay Road, Chembur, Bombay 71.

Board of Trustees.—Lady Ratan Tata; Sir Homi Mody, K.B.E. (*Chairman*); J. R. D. Tata; A. D. Shroff; N. H. Tata; Professor R. Choksi.

Governing Board.—Prof. R. Choksi (*Chairman*); N. H. Tata; D. R. D. Tata; P. N. Kirpal; Prem Narain; P. A. Narielwala; A. D. Gorwala; Col. L. Sawhny; Prof. A. R. Wadia, M.P.; L. S. Kudchedkar (*Secretary*).

The Tata Institute of Social Sciences was founded in June, 1936—then known as Sir Dorabji Tata Graduate School of Social Work—by the Trustees of the Sir Dorabji Tata Trust. Admission to the Institute is open only to graduates of recognised universities. The Institute offers a two years' training in professional social work on the successful completion of which a Diploma in Social Service Administration is awarded. The Courses of specialization include Labour Welfare and Industrial Relations, Family and Child Welfare, Medical and Psychiatric Social Work, Urban Community Organisation and Development, Criminology, Juvenile Delinquency and Correctional Administration, Social Research, Rural Welfare and Tribal Welfare.

The Institute also offers one-year programmes of training in (1) Criminology, juvenile delinquency and correctional administration, Personal Psychology, Social Research and Tribal Welfare, (2) six-months programmes of training in Organisation of Community Welfare Centres, (3) Rural Welfare and (4) Labour Welfare and Management.

In addition to the training programmes, the Institute maintains a Department of Research which promotes research in social problems. Under the auspices of the Department of Publications *The Indian Journal of Social Work* is published every quarter and edited by the Director of the Institute.

Among other activities of the Institute are the Child Guidance Clinic and a special school for bedridden children located in the Jerbai Wadia Hospital for Children, Parel, Bombay, and a community welfare centre in Worli, Bombay. Psychological and Group Work Laboratories have also been equipped to provide facilities for practical work.

Director.—Professor A. R. Wadia, M.P.

Registrar.—L. S. Kudchedkar, M.A.

UNIVERSITIES INFORMATION BUREAU

University of Bombay, Fort, Bombay 1.

Secretary.—H. M. Remedius, M.A., Dip. Lib.

The Bureau collects and supplies information in regard to Indian and Foreign Universities, other educational Institutions, training centres or industrial works and assists students of the Bombay University to secure admission to institutions in foreign countries.

THE VAISHYA VIDYA VARDHAK SAMAJ, BOMBAY

33 G, Vithal Mandir, Mugbhat Cross Lane, Bombay 4.

President: G. N. Maluste, B.A.; *Secretary:* R. S. Laud; *Treasurer:* A. S. Shetye.

WORKERS' EDUCATIONAL SERVICE LEAGUE, BOMBAY

Municipal Central Urdu School Bldg., New Nagpada.

This Institution conducts two full-fledged free Night High Schools at the Municipal Central Urdu School Building, New Nagpada and Imamwada Road. It also runs a Commercial Class under a qualified Instructor.

YOUNG MEN'S EDUCATION SOCIETY

Room No. 21-A, Karwar St., Fort, Bombay.

AIMS AND OBJECTS.—To conduct the Young Men's Free Night High School and to impart free education irrespective of caste or creed.

President.—D. P. Puthran; *Vice-President.*—C. T. Salian; *General Secretary.*—P. A. Karkera.

HOSPITALS, MATERNITY AND NURSING HOMES, CONVALESCENT HOMES & SANATORIA, CLINICS, DISPENSARIES IN GREATER BOMBAY

HOSPITALS

ADAMS-WYLIE MEMORIAL HOSPITAL

Wylie Road, Post Jacob Circle.

ADATIA'S GENERAL AND MATERNITY HOSPITAL

Jai Hind Estates, Bhuleshwar, Bombay 2.

AJINKYA MATERNITY AND GYNAECOLOGICAL HOSPITAL

204, Charni Road, Bombay 4, Ajinkya Mansion, Hughes Road, Bombay 7 and 11th Road, Khar Extension.

Superintendent: Dr. Y. N. Ajinkya, M.M. (Lond.), F.R.C.S. (Edin.), F.R.C.O.G. (Lond.), D.Ch., R.C.P.S. (Eng.).

ALBLESS OBSTETRIC HOSPITAL

Cruickshank Road, Fort.

AYURVEDIC HOSPITAL

Savitribhuvan, 87, Mughbhat Street, Bombay 4.

General Secretary.—Dr. T. R. Naravane, A.V.V., L.M.Z.G.S.

DOCTORS and VAIDYAS:—Vaidya G. M. Abhyankar, *Physician*; Vaidya N. H. Joshi, *Physician*.

There are also the following branches at Sion, Bombay 22:

1. Shudhha Ayurved Maha Vidyalaya (Govt. Recognised).
2. Sheth Ramchoddas Varjeevandas Ayurvedic Hospital.
3. V. M. Charitable Ayurvedic Dispensary.

BAI JERBAI WADIA HOSPITAL FOR CHILDREN

Parel, Bombay. (Tel. 60494.)

Board of Management.

Neville N. Wadia (*Chairman*), Sir Jamsetjee Jejeebhoy, Bart., H. R. Batlivala, K. J. Khambata (representatives of Nowrosjee Wadia & Sons Pr. Ltd.); Dr. S. R. Wadia, M.B.B.S., M. F. Hom. (Lond.), S. B. Mahadeshwar, Dr. V. S. Ranadive, Dr. V. K. Toraskar, M.B.B.S. (representative of Bombay Municipality).

Honorary Principal Medical Officer:—Dr. R. N. Cooper, M.S. (Lond.), F.R.C.S. (Eng.); *Secretary:*—N. C. Sethna, B.Com.

BAI MOTLIBAI AND SIR D. M. PETIT HOSPITALS

Mazagon, Bombay.

These Hospitals are exclusively meant for the treatment of diseases of women (Obstetrics and Gynæcological). The hospitals accommodate 96 beds (56 obstetrics and 40 gynæcological) and are open to all nationalities.

Dean:—Dr. D. V. Virkar, M.S., F.R.C.S.; *Hon. Specialist in Obstetrics & Gynaecology:*—Dr. J. M. Desa Souza, M.D., F.R.C.S.

BAI SAKARBAI DINSHAW PETIT HOSPITAL FOR ANIMALS

Govt. Gate Road, Parel, Bombay 12.

President.—Sir Dinshaw Petit, Bart.

Vice-President.—Miss S. K. Powvala.

Secretary & Treasurer.—D. M. Mehta.

BAI YAMUNABAI L. NAIR CHARITABLE HOSPITAL

Dr. A. L. Nair Road, Bombay 8.

The Bai Yamunabai L. Nair Charitable Hospital provides free medical aid without distinction of caste, creed or colour. It also provides clinical facilities to the students of the T. N. Medical College. There are 336 beds.

Dean.—Dr. Louis Monteiro, M.D.

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DR. BALABHAI NANAVATI HOSPITAL

Ghodbunder Road, Vile Parle West (Opp. Juhu Aerodrome), Bombay 24.

Provision of free gynaec, maternity, medical and surgical treatment for poor patients, to all communities; facilities for special rooms also available. Deserving patients are treated at concessional rates. Fully equipped laboratory, X-ray, dental and ophthalmic departments. Casualty department open at all hours. (Tel. 86868).

BHATIA GENERAL HOSPITAL

Chikalwadi, Tardeo Road, Bombay 7.

BOMANJEE DINSHAW PETIT PARSEE GENERAL HOSPITAL

Bomanji Petit Road, Cumballa Hill, Bombay 26.

Erected for the use of Parsees from subscriptions by the Parsees.

President.—Maneckji D. Petit.

Vice-President.—H. P. Dastur, Kt. *Honorary Medical Secretary.*—Dr. H. S. Mehta, M.S., F.C.P.S., J.P.

BOMBAY HOSPITAL

12, Marine Lines, Bombay 1.

This hospital was opened in 1950 and Annexe in 1959 and both are run by the Bombay Hospital Trust, a public charitable institution. Hospital has out-patient and in-patient wards.

The Annexe has got an air-conditioned auditorium named after Birla Mathushri Sabhagar which can accommodate 1,200 persons.

Total number of beds: 355. Out of these 115 beds are in Nursing Home Section and the remaining are in general ward for Medicine, Surgery, Obstetric & Gynaec, Pediatric, E.N.T. and Eye Units. New Orthopaedic, Thoracic and Neuro-surgery Units have been opened now.

Total number of daily in-patients: 320 (1959); out-patients: 400 (1959). Total number of operations performed in 1959: 11,500.

Chief Pathologist: Dr. B. M. Amin, M.D. (Lond.); *Asstt. Pathologists* Dr. S. M. Deoras, M.D. (Bom.), D.T.M. & H. (Eng.), D.Path.

Chairman: R. D. Birla.

Hon. Secretary: B. D. Binani.

Dy. Hon. Secretary: S. G. Nevatia.

Superintendent: Dr. K. R. Tipnis.

BOMBAY MUNICIPAL CORPORATION, DR. BHAJEKAR HOSPITAL

Dr. Bhajekar Street, off Sardar Patel Road, Bombay 4.

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9, Benham Hall Lane, Girgaum, Bombay.

BYRAMJEE JEEJEEBHOY HOSPITAL FOR CHILDREN

Mazagon, Bombay.

The Hospital is situated along Mazagaon Road, next to the Out-patient's Department of the J. J. Hospital. Number of beds 100 (50 medical and 50 surgical).

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The Pediatric Centre at J. J. Group of Hospitals, Bombay (B. J. Hospital for children) has been started from May 1960, by the State Government, with the additional help of Central Government, W.H.O. and UNICEF. It consists of following Units:—

1. B. J. Hospital for children (100 Beds). 2. Infectious Diseases Block (15 Beds). 3. Premature Baby Unit (20 Beds). 4. Child Welfare Centre. 5. Child Guidance Clinic.

Dr. P. M. Udani, M.D., D.C.H., *Director.*

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FRACTURE AND ORTHOPAEDIC HOSPITAL

395, Lamington Road, Bombay 4.

GOCULDAS TEJPAL HOSPITAL

Carnac Road, Bombay 1.

Superintendent: Dr. H. V. Pophale, M.R.C.P. (Edin.), D.T.M. & H. (Edin.), D.C.H. (Lond.), B.M.S., Class I.

GROUP OF T. B. HOSPITALS

Opp. Christian Cemetery, Jerbai Wadia Road, Sewri, Bombay 15.

Patients are selected for admission at the G.T.B. Hospitals and Sarvodaya Hospital, Ghatkopar out of the patients referred by the different Municipal T.B. Clinics which are at—(1) Princess Street, (2) Foras Road Junction, (3) Ramkunwar Daftary T.B. Clinic, Dadasaheb Phalke Road, Dadar and (4) Mr. & Mrs. M. M. Munshi T.B. Clinic, Ghodbunder Road, Khar. Facilities for A.P. and P.P. treatment exist at all the T.B. Clinics. Time: 8 a.m. to 12 noon and 4 p.m. to 6 p.m.

There are 458 beds in the hospitals at Sewri. In Ramkunwar Daftary T.B. Hospital, Dadar, an Isolation Centre, there are 88 beds for advanced cases, and 200 additional beds are reserved by the Bombay Municipal Corporation at Sarvodaya Hospital, Ghatkopar.

No bed can be reserved. All treatment is free of charge. Facilities for Laboratory, X-ray, A.P., P.P. major and minor operations are available.

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Pathologist:—Dr. R. K. Gadgil, M.D.

Resident Medical Officer:—G. V. Kane, M.B.B.S., B.M.S.Cl.II.

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Visiting Ophthalmologist:—Dr. H. D. Patel, D.O.M.S., D.O. (Oxon).

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Next to Ruia College, Bombay 19.

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Robert Money School.—C. A. Christie, B.A., B.T.

INTER MISSION BUSINESS OFFICE

Financial Hqrs., American Missionary Societies, 364, Dr. Dadabhoy Naoroji Road, Bombay 1.

Manager, G. Ross Thomas.

MAHA BODHI SOCIETY OF INDIA

(Bombay Branch)

Bahujan Vihar, Buddha Temple Street, Parel, Bombay 12.

Secretary.—Bhikkhu H. Dhammananda.

MISSIONARY SETTLEMENT FOR UNIVERSITY WOMEN

Reynolds Road, Byculla, Bombay.

Maintains a hostel for about 60 women students attending the various colleges in Bombay.

STAFF.—Miss H. D. Hunt, B.A., *Warden ;* Miss E. D. Mason, M.A., Ph.D., D.Sc. ; Miss R. Gurupatham, Miss M. Thomas, B.A., Dip. in Social Science.

PARSI VEGETARIAN AND TEMPERANCE SOCIETY

Noble Chambers No. B, Parsi Bazar Street, Bombay 1.

PRARTHANA SAMAJ

Girgaum, Bombay.

The Bombay Prarthana Samaj is a religious body whose faith is founded on the essential belief in One God who is without form and all-pervading, and in the brotherhood of man.

G. L. Chandavarkar, *President ;* P. B. Madgavkar, *Vice-President ;* B. A. Rege, *Hon. Secretary.*

RAMAKRISHNA MISSION ASHRAM

Khar, Bombay 52.

President.—Morarji R. Desai, Union Finance Minister ; *Hon. Secretary.*—Dr. C. A. Mehta, M.A., LL.B., Ph.D.

SANT NIRANKARI MANDAL

Sant Nirankari Sat Sang Bhawan,
50, Morbagh Road, Dadar, Bombay-14.

Secretary :—Ram Saran.

SHREE AYYAPPA BHAKTA SAMITI

Star of Cochin, Opp. Broadway Cinema, Dadar, Bombay 14.

President, General Council.—G. P. Nair ; *Chairman*, C. A. Menon ; P. V. Menon, K. G. Menon (*Secretaries*) ; K. G. Narayanan, K. M. G. Menon (*Treasurers*).

SOCIETY OF SERVANTS OF GOD

Mayfair, 34, Little Gibbs Road, Bombay 6.

SPIRITUAL ASSEMBLY OF THE BAHA'IS OF THE CITY OF BOMBAY

Baha'is Centre, 7, Bruce Street, Bombay 1.

Objects :—To establish universal peace and the oneness of mankind in co-operation with fellow Baha'is of over 5,000 Centres in 255 other countries through the spiritual principles of the Baha'i World Faith proclaimed by Baha-u-llah in 1863.

SPIRITUALIST DEVELOPMENT AND HEALING CIRCLE

Kalam Kutir, 211/219, Frere Road, Bombay.

To help those who desire to develop psychic power and to give relief to those who are ailing.

President : Dr. F. D. Nasikvala.

ST. JOSEPH'S CONVENT

Bandra, Bombay 50.

This Institution, conducted by the Daughters of the Cross of Liege, Belgium, comprises :—

1. An Anglo-Indian High School (Boarding and Day).
2. An English-Teaching High School (Boarding and Day).
3. An Orphanage.

THEOSOPHICAL SOCIETY

The Blavatsky Lodge, T.S. French Bridge, Bombay 7.

This is the first Lodge in India, founded in 1879, having a good library and a book-depot.

WESTERN INDIA UNION OF SEVENTH-DAY ADVENTISTS

HEADQUARTERS ADDRESS : 16, Club Road, Byculla, Bombay 8.

PRESIDENT : Pastor G. W. Maywald.

SECRETARY AND TREASURER : Harry Osmond.

ZOROASTRIAN RADIH SOCIETY

Noble Chambers, No. B, Parsi Bazar Street, Bombay 1.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

PUBLIC TRUSTS IN GREATER BOMBAY

Note : No new trusts, with an average annual income of Rs. two lakhs and over, have been formed after the Charity Commissioner published the list mentioned in the 1959-60 edition of the Directory.

READING ROOMS AND LIBRARIES IN GREATER BOMBAY

THE ASIATIC SOCIETY OF BOMBAY
Town Hall, Bombay 1.
(See also p. 547.)

BLAVATSKY LODGE LIBRARY
Blavatsky Lodge, T.S., French Bridge, Bombay 7.

BOMBAY KERALEEYA SAMAJ LIBRARY & FREE READING ROOM
Road No. 2, Hindu Colony, Dadar, Bombay 14 and Kerala Bhavanam, 16A, Brahmanwada Road, King's Circle, Bombay 19.

BOMBAY UNIVERSITY LIBRARY
Mayo Road, Fort, Bombay 1.

BRITISH INFORMATION SERVICES
Mercantile Bank Bldg., Mahatma Gandhi Road.

CHUNILAL SHROFF LIBRARY FOR COLLEGE STUDENTS
C/o Shroff Private Ltd., Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay 1.
Proprietor : J. R. Shroff.

DAVID SASSOON LIBRARY AND READING ROOM
152, Mahatma Gandhi Rd., Bombay 1.
Hon. Secretary : Raju C. Shroff.

Dr. H. D. KANGA MEMORIAL LIBRARY
Brabourne Stadium (North Stand),
Veer Nariman Road, Bombay 1.
Possesses over 3,700 books and subscribes for 25 magazines and periodicals on all kinds of games indoor and outdoor.

JAMSETJEE NESSERWANJI PETIT INSTITUTE
312, D. Naoroji Road, Bombay 1.
Librarian.—Minocher K. Mowdavala, B.A., LL.B., A.L.A.

K. R. CAMA ORIENTAL INSTITUTE LIBRARY
136, Apollo Street, Fort.
President : Sir Rustom Masani, Kt., M.A., *Jt. Hony. Secretaries :* Jamshed C. Tarapore, M.A., LL.B., Advocate and Ervad Maneck F. Kanga, B.A.
Librarian : K. P. Dastoor, M.A.

KARNATAKA FREE READING ROOM AND LIBRARY
46, Vir Nariman Road, Bombay 1.

MAHARASHTRA MITRA MANDAL LIBRARY AND FREE READING ROOM
Saraswati Building, Government Gate Road, Lalbaug, Bombay 12.
President : Y. S. Shinde. *Hon. Secretaries :* S. K. Prabhu; K. S. More.

MAZAGAON TADWADI MUNICIPAL CHAWLS TENANTS' ASSOCIATION
St. Mary's Road, Block 3, Room No. 40, Mazagaon.
Hon. Gen. Secy. : A. R. Jadhav.

MOOLJIBHOY JIVRAJ KHOJA GENERAL READING ROOM AND LIBRARY
(Estd. 1865)
9, Dontad Cross Lane, Khadak, Bombay 9.
President.—Mahomed Umer Fakirmahomed Kokil; *Vice-President.*—Gulamhusein Mahomed Sagir; *Chairman.*—Kasamali Fazal Nathani; *Vice-Chairman.*—Shaukat J. Contractor; *Hon. Treasurer.*—Abdulrasul G. Nathani; *Hon. Secretary.*—Fazleabbas Hatim Kanga; *Hon. Auditor.*—Nazarali Dhanji Surani.

MUMBAI MARATHI GRANTHA SANGRAHALAYA
Bhai Jeewanji Lane, Thakurdwar, Bombay 2.

MUNSHI SARASWATI MANDIR GRANTHAGAR
Bharatiya Vidya Bhavan, Chowpatty Road, Bombay 7.

PEOPLE'S FREE READING ROOM AND LIBRARY
Ravelin Street, Dadabhai Naoroji Road, Fort.
The Institution has two branch libraries one at Dhobi Talao and another at Dadar.
Secretary and Chief Librarian.—J. S. Jariwalla, B.A., LL.B.

SANTA CRUZ MALAYALEE SAMAJ LIBRARY AND FREE READING ROOM
14, Air View, Vakola, Santa Cruz, Bombay 55.
Librarian.—K. R. P. Nair.

SHRIMAN MUNI MAHARAJ SHRI MOHANLALJI JAIN CENTRAL LIBRARY AND SANSKRIT PATHSHALA
Near Madhavbag, Bombay 4.
Chief Librarian.—Pragji K. Desai.

TATA INSTITUTE OF FUNDAMENTAL RESEARCH LIBRARY
Colaba, Bombay 5.

TATA INSTITUTE OF SOCIAL SCIENCES LIBRARY
Sion-Trombay Road, Chembur, Bombay 71.

THEOSOPHY COMPANY (INDIA) PRIVATE LTD.
40, New Marine Lines, Bombay 1.

TRADE MARKS REGISTRY LIBRARY
Central Govt. Building, Queen's Road, Bombay 1.

UNITED STATES INFORMATION SERVICE
"The International," 16, Queen's Road Estates, Bombay 1.
Executive Officer, Stephen B. Jenkins.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

SWIMMING POOLS AND BATHS IN GREATER BOMBAY

BREACH CANDY SWIMMING BATH TRUST

66, Bhulabhai Desai Road, Bombay.

Dimensions of Pool : The main pool is irregular in shape covering an area of approximately 3,500 sq. yards containing about 1¼ million gallons of sea water.

Chairman.—C. S. Barrett.

Honorary Secretary.—A. M. Steele.

Honorary Treasurer.—F. F. Stewart.

GOLWALLA'S VICTORIA SWIMMING BATH

Back Bay, Fort, Bombay.

This has been the oldest and the first cosmopolitan Salt Water Swimming Pool since 1901, and over 100,000 people of both sexes have learnt Swimming, Diving and Water Polo.

The Bath has also a most up-to-date Rowing and Boating Club and is the first of its kind in India to have shallow ends on both sides with dressing rooms (air-conditioned) beneath the pool and a complete change of water every day. There are underwater lighting arrangements and observation windows for training in elementary and advanced swimming and diving.

The Bath is open to all communities of both sexes and special personal instruction in Swimming, Diving, Life Saving, Water Polo, Rowing etc., is given by a staff of well qualified teachers.

MAFATLAL PARK SWIMMING POOL

Bhulabhai Desai Road, Bombay.

Dimensions of the Pool : 60 ft. 6 in. long and 30 ft. 4 in. wide. The depth varies from 3 ft. at one end to 8 ft. 3 in. at the deepest point and again reduces to 6 ft. 9 in. at the other end.

The swimming pool is meant for the use of the tenants of Mafatlal Park only, free of charge. However tenants can bring their own guests in which case they are charged at the rate of Re. 1 per guest, per day.

The Swimming Pool is managed by Messrs. Mafatlal Gagalbhai Co., Private Ltd., Bombay, the proprietors of Mafatlal Park.

MAHATMA GANDHI MEMORIAL OLYMPIC SWIMMING POOL

(Bombay Municipal Corporation).

Cadell Road, Bombay 28. (Tel. No. 62162).

Largest fresh-water pool in India constructed by the Bombay Municipality as a memorial to Mahatma Gandhi. The pool can accommodate over 450 persons at a time.

Dimensions of the Pool : 165 ft. by 60 ft. with a recess for diving 60 ft. by 40 ft. Depth varying from 3 ft. shallow end to 16 ft. below the diving stage. Capacity 7½ lakhs of gallons.

Entrance Fee Rs. 3 ; Monthly Rs. 4 ; Quarterly Rs. 10 ; Yearly Rs. 30 ; Instruction fee Rs. 10 (Quarterly) ; Special Concession (Yearly) for family members ; Members' Guest 0·60 ; Casual Dip 0·50 ; Visitors 0·05 ; Labourers & Factory Workers 0·10 per hour for 2 hours on Sundays only.

Manager : K. F. Golwalla.

PRANSUKHLAL MAFATLAL HINDU SWIMMING BATH AND BOAT CLUB TRUST

OFFICE : Netaji Subhas Road, Bombay 7.

The above Club owns two Swimming Pools (Gents & Ladies, claiming membership of about 7,000 Ordinary and 1,900 Life Members situated at Netaji Subhas Road, Bombay-7 with modern club with Badminton, Billiards and Table Tennis sections. The land is contained by admeasurement 12,210 sq. yds. ; the construction cost about Rs. 9,00,000.

The Club is governed by a scheme approved by the High Court and managed by a Managing Committee consisting of five Trustees as ex-officio members in addition to fourteen elected members.

Hon. Secretary.—G. J. Choksi.

Hon. Treasurer.—M. N. Mehta.

WILLINGDON SPORTS CLUB SWIMMING POOL

Bombay 11.

(FOR MEMBERS AND THEIR GUESTS ONLY).

Size of the Pool—60′ × 30′.
Depth—at shallow end 3′-6″.
,, below high diving board 9′.
,, at deep end 7′.
Capacity of Pool—80,000 gallons.
,, of Filtration Plant—7,000 gallons per hour.

BANKS and BANKERS

ALLAHABAD BANK, LTD.

(Established 1865).

Affiliated to the Chartered Bank.

AUTHORISED CAPITAL	Rs.	1,00,00,000
ISSUED CAPITAL	Rs.	60,00,000
PAID-UP CAPITAL	Rs.	45,50,000
RESERVE FUND	Rs.	1,08,00,000

LONDON CORRESPONDENTS :—The Chartered Bank.

HEAD OFFICE :—Calcutta.

BOMBAY OFFICES

Allahabad Bank Building, 35–39, Apollo Street. Agent—J. Ritchie, O.B.E. Accountant—N. S. Chakravarti. Asstt. Accountants—P. S. Krishnan, P. K. Ghose, K. S. Gupta, C. M. Chandran, D. T. Barve and D. S. Vithalkar. Tel. Address : "Allah." Phone for Office No. 253546, for Agent No. 251935. P.O. Box No. 282.

BOMBAY CITY (Kalbadevi)

Western India Chamber of Commerce Building, 232-34, Kalbadevi Road. Agent—R. P. Singh. Asstt. Agents—G. K. Phadke and H. R. Rao. Tel. Address : "Allacity." Phone No. 29404.

BRANCHES

Agra, Agra—Johri Bazar, Ahmedabad—Maskati Market, Akola, Aligarh, Allahabad, Allahabad City, Allahabad-Katra, Ambala Cantt., Amritsar, Bareilly, Bareilly City, Batala Bhagalpur, Bhopal, Bangalore, Bombay, Bombay (Kalbadevi Road), Calcutta, Calcutta—Burra Bazar, Calcutta—College Street Market, Calcutta—Shambazar, Calcutta—South, Chanda, Chandausi, Chandigarh, Dehra Dun, Delhi, Deoria, Drug, Etawah, Faizabad, Firozabad, Ghaziabad, Gorakhpur, Hyderabad, Hapur, Hardoi, Hathras, Jabalpur City, Jhansi, Jullundur City, Kanpur, Kanpur City, Lucknow, Lucknow—Aminabad Park, Lucknow City, Ludhiana, Mathura, Meerut, Meerut City, Mirzapur, Modinagar, Moradabad, Moradabad City, Mussoorie, Muzaffarnagar, Muzaffarpur, Nagpur, Nagpur City, Naini Tal, New Delhi, New Delhi—Karolbagh, Orali, Patna, Patna University, Rai Bareli, Raipur, Rajnandgaon Satna, Shahjahanpur, Sitapur and Varanasi (Banaras).

PAY OFFICES

Auraiya, Banda, Bindki, Buxar, Fatehpur, Ghazipur, Gorakhpur City, Jabalpur—Civil Lines, Kalpi, Mahoba and Shahjahanpur City.

CASH OFFICES

Belanganj, Agra, Muslim University, Aligarh.

CODE USED :—Bentley's Complete Phrase Code.
Bentley's Second Phrase Code.

CORRESPONDENTS—In all the Principal Towns throughout India.

THE AMERICAN EXPRESS COMPANY, INC.

(Incorporated in the U.S.A. with limited liability).

International Bankers, Travel & Shipping Agents.

HEAD OFFICE : 65, Broadway, New York, N.Y. CAPITAL : (Paid-up) : U.S. $6,000,000. SURPLUS and RESERVES : U. S. $9,940,708. LONDON OFFICE : 6, Haymarket, S.W. 1. BOMBAY OFFICE : 364, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Grams : "AMEXCO", Phone Nos. 25–5021/4. Branches in all the principal cities throughout the world.

BANK OF BARODA LIMITED

Apollo Street, Bombay. HEAD OFFICE.—Baroda. General Manager. —N. M. Chokshi.

BRANCHES :

ANDHRA PRADESH : Guntur, *Hyderabad, Kakinada, *Secunderabad, Vijaywada.

EAST PUNJAB/DELHI : Amritsar, Chandigarh, Gurgaon, Jullundur, *Delhi (Chandni Chowk), New Delhi (Connaught Circus), New Delhi (Paharganj), New Delhi (Karol Baug).

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GUJARAT STATE: *Ahmedabad, (Bhadra, Dhanlaxmi Market, *Delhi Chakla, Ellis Bridge, Kalupur, (M. G. Road, Main Branch), (Maninagar, Panch Kuva, *Relief Road, Sabarmati), *Amreli, Anand; Baroda (Khanderrao Market, M. S. University Extn., Raopura, Sayaji Ganj), Bhavnagar, *Billimora, Bodeli, *Cambay, *Dabhoi, *Dwarka, Harij(N.G.), *Jamnagar, Kadi(N.G.), *Kalol, *Kapadwanj, *Karjan (Miyagam), Mehsana, *Mithapur, *Nadiad, *Navsari, *Navsari (Station Road), (N. Patan G.), *Petlad, Porbandar, Radhanpur, Rajkot, *Rajpipla, *Sankheda, *Sidhpur, Surat, Surendranagar, Unjha, Veraval, Vijapur, *Visnagar, Vyara.

KERALA STATE: Alwaye, Cochin, Irinjala Kuda.

MADRAS STATE: Coimbatore, Madras (City, Main Branch, Ambattur, Mylapore, Theagaroyanagar).

MADHYA PRADESH: Indore (Siyaganj).

MAHARASHTRA STATE: Ahmednagar, Akola, Amraoti, *Bombay (Andheri, Bullion, *Bandra, Backbay Reclamation, Bruce Street, Crawford Market, Dadar, *Fort (Main Branch), Girgaon, *Ghatkopar, *Matunga (Chandavarkar Road), Matunga (Podar College), Mandvi, Phirozshah Mehta Road, Queen's Road, Sion, Vile-Parle (East), *Vile-Parle (West), *Wadala, *Zaveri Bazar, Chanda, Deolali, Dhulia, Ichalkaranji, Jalgaon, Mahaji Bazar, (Jalgaon), Karanja, Shivaji Chawk (Kolhapur), Shahupuri (Kolhapur), Kopergaon, Lonand, Mahad, Malegaon, Miraj City, Murtizapur, Sitabuldi (Nagpur), Dharampeth (Nagpur), Nampur, Nandurbar, Nasik City, Nasik Road, Pandharpur, Pen(Kolaba), Pimpalgaon Baswant, *Laxmi Road (Poona City), Budhwar Chawk (Poona City), *Poona Camp, Shivajinagar (Poona 5), Sangamner, Sangli, Sholapur, Sinnar, Yeotmal.

MYSORE STATE: *Bangalore, Belgaum.

RAJASTHAN STATE: *Ajmer, *Jaipur.

UTTAR PRADESH: Kanpur, Lucknow.

WEST BENGAL: Calcutta (Brabourne Road, Burra Bazar, Cross Street, Dum Dum, India Exchange (Main Branch), Pageyaputty Street, Sham Bazar).

FOREIGN BRANCHES: United Kingdom (London).

BRITISH EAST AFRICA: Dar-es-Salaam (Tanganyika), *Jinja (Uganda), *Kampala (Uganda), *Kisumu (Kenya), *Makadara Road, Mombasa (Kenya), *Saliam Road, Mombasa (Kenya), *Mwanza (Tanganyika), *Nairobi (Kenya), Suva (Fiji Islands).

EAST PAKISTAN: Naraingunj.

Agents in all the Principal Countries of the World.

BANK OF CHINA

(Incorporated in China, Liability of Members Ltd.).

HEAD OFFICE:
Peking.

BRANCHES ALL OVER CHINA.

OVERSEAS OFFICES:
London, Hongkong, Singapore, Djakarta, Surabaja, Medan, Rangoon, Karachi, Chittagong, etc.

OFFICES IN INDIA:
Calcutta Office: 15, Brabourne Road, Calcutta 1.

Bombay Office:
Lakshmi Insurance Building, Sir Phirozshah Mehta Road, Bombay.
Correspondents in all principal countries of the world.

BANK OF INDIA, LIMITED

(Established 7th September, 1906)

Registered Office:—70/80, Mahatma Gandhi Road, Bombay 1.

CAPITAL—AUTHORISED, ISSUED AND SUBSCRIBED	Rs.	5,50,00,000
CAPITAL—PAID-UP	Rs.	3,00,00,000
RESERVE FUNDS	Rs.	3,10,00,000
DEPOSITS AS AT 31-12-1960		1,09,44,00,000

BOARD OF DIRECTORS:
Sir Cawasjee Jehangir, Baronet, G.B.E., K.C.I.E.—*Chairman*; A. D. Shroff—*Vice-Chairman*; Ambalal Sarabhai, Ramniwas Ramnarain, Bhagwandas C. Mehta, Krishnaraj M. D. Thackersey, Madanmohan Mangaldas, N. K. Petigara, Jugmohan Prasad Goenka, Jaisinh Vithaldas, Girdharilal Mehta.

GENERAL MANAGER: T. D. KANSARA.

Overseas Branches:—Aden, Dar-es-Salaam, Hongkong, Jinja, Kampala, Karachi, London, Mombasa, Nairobi, Osaka, Singapore, Tokyo.

BRANCHES IN INDIA:—

BOMBAY:—Andheri, Bandra, Bullion Exchange, Churchgate, Colaba, Fort, Ghatkopar, Kalbadevi, Malabar Hill, Santa Cruz, Sion, Walkeshwar.

AHMEDABAD:—Bhadra (*Main Office*), Ellis Bridge, Gandhi Road, Manekchowk, Maninagar, Navrangapura, Station Branch.

CALCUTTA:—23-8, Netaji Subhash Road (*Main Office*), Bara Bazar, Bhowanipur, Chowringhee Square.

MADRAS:—Armenian Street (*Main Office*), Mount Road, Sowcarpet.

OTHER BRANCHES:—Amritsar, Bangalore, Baroda, Bhuj, Bhavnagar, Calicut, Cochin, Coimbatore, Coonoor, Delhi, New Delhi, Ajmere Gate Extension, New Delhi, Gandhidham, Hyderabad, Indore, Jamshedpur, Junagadh, Jamnagar, Kanpur, Madurai, Nagpur, Nagpur City, Palanpur, Poona, Poona City, Rajkot, Sholapur, Surat, Veraval, Vishakhapatnam.

Agents: In all the principal countries of the world.

THE BANK OF TOKYO, LIMITED

(Successor to The Yokohama Specie Bank Ltd.).
Incorporated in Japan.
Liability of Shareholders Limited.

Head Office.
Nihombashi, Chuoku, TOKYO (Japan).

Bombay Branch:
"Jeevan Prakash", Sir Phirozshah Mehta Road, Fort, Bombay.
MANAGER: MR. K. HASHIMOTO.

Calcutta Branch:
No. 2, Brabourne Road, Calcutta.
MANAGER: MR. E. OHARA.

New Delhi Representative Office:
26, Golf Links, New Delhi 3.
REPRESENTATIVE: MR. K. MATSUMOTO.

Karachi Branch:
Qamar House, Bunder Road, Karachi 2.
MANAGER: MR. H. KAMIYA.

BOMBAY MERCANTILE CO-OPERATIVE BANK LIMITED

ESTD. JUNE 1939.
HEAD OFFICE: 78, Mohamedali Road, Bombay 3.
Phone: **30017 (3 lines).**

AUTHORISED CAPITAL	Rs.	10,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL	,,	8,06,000
RESERVE AND OTHER FUNDS	,,	5,82,000
DEPOSITS	,,	1,83,66,000
WORKING CAPITAL	,,	2,09,43,000
CASH AND INVESTMENTS IN GOVT. SECURITIES	,,	1,08,12,000

Annual Turnover Exceeds Rupees Twenty-two Crores (Government Audit Classification "A").

CHAIRMAN:—Khan Bahadur Mohamedally Allabux.

GENERAL MANAGER:—Z. G. Rangoonwalla.

Branches:—Jariwalla Building, Null Bazar, Bombay 3. Phone: 73378. 294, Abdulrehman Street, Bombay 3. Phone: 30017 (3 lines).

Sub-Office: Mohamed Haji Saboo Siddick Musafirkhana, Carnac Road, Bombay 1.

Gujarat Branch: Gandhi Road, Ahmedabad.

All kinds of Banking Business Transacted.

THE BRITISH BANK OF THE MIDDLE EAST

(Incorporated in England by Royal Charter 1889).
HEAD OFFICE:—7, King William Street, London E.C. 4.

AUTHORISED CAPITAL	£2,500,000
ISSUED AND FULLY PAID-UP	£2,000,000
RESERVE FUND	£2,774,000

BOARD OF DIRECTORS:—Sir Dallas Bernard, Bt. (Chairman); G. C. R. Eley, C.B.E. (Deputy Chairman); Sir Neville Gass, K.B.E., M.C.; Sir Alec Seath Kirkbride, K.C.M.G., C.V.O., O.B.E., M.C.; Sir Arthur Morse, K.B.E.; H. Musker, O.B.E., M.C.; M. R. Norman, O.B.E.; S. W. P. Perry-Aldworth.

General Manager: H. Musker, O.B.E., M.C.; *Deputy General Manager*: C. F. Warr, O.B.E.

Branches:—ADEN—Crater; INDIA—Bombay; IRAQ—Baghdad (3 Branches), Basra; JORDAN—Amman, Jerusalem; LEBANON—Beirut (3 Branches), Tripoli; LIBYA—Benghazi, Tripoli; PERSIAN GULF—Abu Dhabi, Bahrain, Dubai, Kuwait (4 Branches), Muscat, Doha Qatar, Sharjah; SAUDI ARABIA—Alkhobar (for Dhahran), Jeddah; TUNISIA—Tunis; UNITED ARAB REPUBLIC, Syrian Region—Aleppo, Damascus.

Bombay Branch:—314, Dr. Dadabhai Naoroji Road, Fort, Bombay 1; *Manager*:—P. E. H. Alexander, *Sub-Manager*:—D. V. Morgan, *Telephone*:—252267-8-9. *Tel. Address*:—"BACTRIA."

ASSOCIATED WITH
THE BANK OF IRAN AND THE MIDDLE EAST
Capital Rials 250,000,000.
Head Office: Teheran, Iran (Persia).

* Branches where Safe Deposit Lockers are provided.

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CANARA BANK, LIMITED

(Established in 1906). HEAD OFFICE :—Mangalore, South Kanara. Administrative Office : Bangalore. Foreign Departments in Bombay and Madras.

THE CANARA INDUSTRIAL & BANKING SYNDICATE, LIMITED

REGISTERED OFFICE : UDIPI. ESTD : 1925.

AUTHORISED CAPITAL	Rs.	1,00,00,000
ISSUED & SUBSCRIBED CAPITAL	,,	50,00,000
PAID-UP CAPITAL	,,	47,21,419
RESERVE FUND	,,	42,50,471

Board of Directors :

Dr. T. M. A. Pai, M.B.B.S., CHAIRMAN AND MANAGING DIRECTOR.

A. L. N. Rao, B.A., B.L.
M. N. Prabhu Shiroorkar
V. V. Shanbhag
L. H. Prabhu, B.A., LL.B.
B. Padmanabha Pai
K. Gururaja Rao, B.A., B.L.
P. Padmanabha Rao, B.A., B.L.
Dr. K. Mohandas Pai, B.Sc., M.B.B.S.
Dr. K. L. Aithala, M.B.B.S.
M. D. Narayan, B.Sc., M.S. (Colo.).

DY. CHIEF OFFICER :

T. A. Pai, B.Com. (Bom.), A.I.I.B., F.R.E.S. (Lond.)

BOMBAY OFFICES :—

Sir Phirozshah Mehta Road, Fort.
83/85, Kazi Syed Street, Mandvi.
3A, Dadar Matunga Estate, Bombay-Agra Road, Matunga.
542, Subhas Road, Mulund West.

141 Branches throughout South India—States of Andhra, Gujarat, Kerala, Madras, Maharashtra and Mysore—and Agencies all over India.

THE CENTRAL BANK OF INDIA, LIMITED

(Established—December, 1911)

HEAD OFFICE : Mahatma Gandhi Road, Fort, Bombay 1.

AUTHORISED CAPITAL	Rs.	6,30,00,000
SUBSCRIBED CAPITAL	,,	5,77,50,000
PAID-UP CAPITAL	,,	3,15,00,000
RESERVE FUND & OTHER RESERVES	,,	4,16,84,856
DEPOSITS AS AT 31-12-1960	,,	2,00,01,41,000

DIRECTORS :

Sir Homi Mody, K.B.E. (*Chairman*); Cooverji Hormusji Bhabha, Esq. (*Vice-Chairman*); Dharamsey Mulraj Khatau, Esq.; C. P. Wadia, Esq.; Chimanlal Bapalal Parikh, Esq.; Sir Jamsetjee Jejeebhoy, Bart.; Jaykrishna Harivallabhdas, Esq.; Shiavax Sorabjee Khambata, Esq.; Nani Ardeshir Palkhivala, Esq.; Nityanand Mangesh Wagle, Esq.

Branches and Pay Offices in all important Commercial Centres of India, Pakistan and Burma.

LONDON BRANCH :

159, Fenchurch Street, London, E.C. 3.

NEW YORK AGENTS :

Morgan Guaranty Trust Co. of New York.
The Chase Manhattan Bank.

N. K. Karanjia,
GENERAL MANAGER.

THE CHARTERED BANK

(INCORPORATED IN ENGLAND BY ROYAL CHARTER, 1853.)

Wholly owned subsidiary bank : The Eastern Bank Ltd.
Affiliated bank in India : The Allahabad Bank Ltd.

CAPITAL	£	5,500,000
RESERVE FUND	£	5,700,000

HEAD OFFICE.—38, Bishopsgate, London, E.C. 2.

COURT OF DIRECTORS.—Vincent Alpe Grantham (*Chairman*); Sir John Tait (*Deputy Chairman*); Sir Paul Benthall, K.B.E.; Sir Arthur Atkinson Bruce, K.B.E., M.C.; William Ewing Eadie, C.A.; Sir Stephen Gibson, C.B.E.; Sir Harry Greenfield, C.S.I., C.I.E.; The Rt. Hon. The Earl of Inchcape; Sir Evan Meredith Jenkins, G.C.I.E., K.C.S.I.; Ian Lilburn MacEwen; Sir Charles Watt Miles, O.B.E.; Ernest John Pakes, C.B.E.; Sir John Henry Swain Richardson; Clifford Waite, C.M.G.

CHIEF GENERAL MANAGER.—W. G. Pullen.

JOINT GENERAL MANAGERS.—D. Beath, S. C. R. Northcote, G. A. Leiper, J. Shewan.

ASSTT. GENERAL MANAGERS.—A. T. Hobbs, R. A. S. Lane.

SECRETARY.—H. E. Faulkner.

WEST END BRANCH.—2, Regent Street, London, S.W. 1.

MANCHESTER BRANCH.—52/54, Mosley Street, Manchester 2.

LIVERPOOL BRANCH.—28, Derby House, Exchange Buildings, Liverpool, 2.

NEW YORK AGENCY.—76, William Street, New York 5, N.Y., U.S.A.

HAMBURG AGENCY.—Dornbusch 2, Hamburg 1, W. Germany.

BOMBAY BRANCH.—Mahatma Gandhi Road. *Manager*.—F. E. H. Goddard; *Sub-Managsr*.—J. Russell; *Accountant*: A. L. Morris.

TELEGRAPHIC ADDRESS :—"CHARTABANK". Phone No. 255241 (4 Lines). P.O. Box No. 558.

REPRESENTATIVE OFFICE

THE CHASE MANHATTAN BANK, NEW YORK

(Incorporated with limited liability under the laws of the State of New York.)

CAPITAL $167,879,250; SURPLUS and UNDIVIDED PROFITS $521,060,921. TOTAL RESOURCES OVER $9,260 million. HEAD OFFICE.—1, Chase Manhattam Plaza, New York 15. 105 Offices in Greater New York. MAIN LONDON OFFICE.—6, Lombard St., E. C. 3; WEST END BRANCH.—46, Berkeley Square, W. 1; Other Branches in France (Paris), Germany (Frankfurt/Main), Lebanon (Beirut), Japan (Tokyo, Osaka), Nigeria (Lagos), Panama (5), Canal Zone (1), Puerto Rico (4), South Africa (3), Representative Offices at Washington, D.C., Buenos Aires (Argentina), Caracas (Venezuela), Rome (Italy), Continental Europe (Paris), Mexico, D. F. Rio de Janeiro (Brazil). Correspondents throughout the commercial world. BOMBAY REPRESENTATIVE OFFICE.—New India Assurance Building, Mahatma Gandhi Road, Post Box No. 1961. Telephone : 252759. *Representative*.—Robert A. Fetherston.

COMPTOIR NATIONAL D'ESCOMPTE DE PARIS

(FRENCH BANK).

(Incorporated in France with Limited Liability.)

HEAD OFFICE :—14, Rue Bergere, Paris.

LONDON BRANCH.—8/13, King William Street, E.C. 4.

TELEGRAPHIC ADDRESS FOR H.O. AND BRANCHES: "COMPTONIA".

BOMBAY OFFICE.—French Bank Building, 62, Homji Street, Fort.

MANAGER.—J. Lamy. *Sub-Manager*: A. Bourgault, 1st *Asstt. Managers*: P. K. Badle and K. B. Scarfe, *Asstt. Managers*: G. W. Kothare and B. Lemmer. *Attorneys*: H. N. Dighe and M. P. Badle. *Relations Officer*: A. F. D'Souza. Phone: 251347-8-9, P.O. Box No. 45.

CALCUTTA OFFICE :—Stephen House, 4A, Dalhousie Square East. Phone: 232815/6. P.O. Box No. 327.

NEW DELHI REPRESENTATION:—19A—Ratendon Road, Phone: 72517.

Other Branches: Brussels, Sydney, Melbourne and over 700 in France, Madagascar, Algeria and Tunisia. (Affiliate—French American Banking Corporation, New York).

DAXINI BRAHMAN CO-OPERATIVE BANK LTD.

Jayant Nivas, 163-165, Girgaum Road, Bombay.

Branch Office: Bhagirthi Nivas, N. C. Kelkar Road, Dadar, Bombay 28. Membership open to Daxini Brahman community above the age of 18, residing in the greater Bombay and the area upto Virar & Kalyan. Current and Savings Bank accounts can be opened by members, non-members inclusive of other Communities also. Advances to members against Gold, Silver, Government Securities, Life Insurance policies, goods, etc., are made. Advances against Gold and Silver to nominal members. Nominal Membership open to all communities. Transacts all kinds of Banking Business. Phone Nos. Head Office : 27738. Branch : 61814.

DEVKARAN NANJEE BANKING CO., LTD.

(Incorporated in Bombay under the Indian Companies Act on 26th May 1938.)

AUTHORISED CAPITAL	Rs.	1,00,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL	,,	50,00,000
RESERVE FUNDS	,,	60,00,000
DEPOSITS EXCEED	,,	35,00,00,000
WORKING FUNDS EXCEED	,,	42,00,00,000
NO. OF ACCOUNTS EXCEED		2,00,000

BOARD OF DIRECTORS :—Lalitchandra C. D. Nanjee (*Chairman*); Prince Udaybhan of Porbandar; Natvarlal S. Choksey; M. A. Master, B.A., LL.B.; Jayantilal R. Trivedi; Laxmikant S. Dabholkar. J.P.; Harshadrai B. Parekh; Dhirendra N. Mehta.

MG. DIRECTOR.—Pravinchandra V. Gandhi.

DEPUTY MANAGER.—Haridas K. Swali, A.I.I.B.

ASST. MANAGER.—Chandrakant K. Kothari, C.A.I.I.B.

CHIEF ACCOUNTANT.—C. V. Subramanian, M.A., A.I.I.B.

SECRETARY.—Ratilal R. Merchant, B.A., LL.B., A.I.I.B.

HEAD OFFICE :—Devkaran Nanjee Buildings, Horniman Circle, Fort, Bombay. Phone No. 255327. Telegraphic Address: "DENA BANK", Post Box No. 41.

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BRANCHES:

Over 100 Offices & 27 Safe Deposit Vaults.

BOMBAY: (30 Branches) *Horniman Circle (H.O.), Andheri, Bhuleshwar, *Borivli, Chembur, *Colaba, *Dadar, *Ghatkopar, Gol Deval, Goregaon, Kalbadevi, Kandivli, Khar, Kharek Bazar, Kurla, *Malabar Hill, *Malad, Mandvi, *Matunga, *Mulund, Sandhurst Bridge, *Santa Cruz, *Share Bazar, Sion, Tardeo, Thakurdwar, *Vile Parle (East), *Vile Parle (West), Worli, *Zaveri Bazar.

GUJARAT: (28 Branches) Ahmedabad: *Delhi Chakla, *Ellis Bridge, *Gandhi Road, Manek Chowk, *Maninagar, *Relief Road, Maskati Market, Saraspur, *Anand, Bardoli, Billimora, Baroda, Borsad, Broach, *Bulsar, Cambay, Dharmaj, Godhra, Lunawada, Nadiad, Navsari, Padra, Palanpur, Patan, Sidhpur, Surat, Umreth, Viramgam.

SAURASHTRA: (20 Branches) Amreli, *Bhavnagar, Botad, Damnagar, Dhoraji, Dhrangadhra, Gondal, Jamnagar, Junagadh, Mahuva, Morvi, Porbandar, *Rajkot, Savar Kundla, Sihor, Surendranagar, Upleta, Veraval, Visnagar, *Wankaner.

MAHARASHTRA: (12 Branches) Ahmednagar, Baramati, Malegaon, Manmad, Nandurbar; Nasik: Nasik City, Nasik Road; Poona: Budhwar Peth, *Camp, *Raviwar Peth; Sholapur, Walchandnagar.

BANGALORE: 65, Avenue Road.

BURHANPUR (M.P.)

CALCUTTA: (3 Branches) 16-A, Barbourne Road, Burra Bazar and * Bhowanipore.

COCHIN: P.O. Box No. 57, Mattancherry.

DELHI: Chandni Chowk, Near Clock Tower.

NEW DELHI: 9-E, Connaught Place.

MADRAS: 193/4, Netaji Subhashchandra Bose Road, G.T.

MANGALORE: Bunder Road.

GENERAL BANKING BUSINESS TRANSACTED AND INLAND AND FOREIGN LETTERS OF CREDIT ARRANGED

FOREIGN AGENTS.—Barclay's Bank Ltd., London and the Chase Manhattan Bank, London & New York.

EASTERN BANK, LIMITED

(Incorporated in England—1909, the liability of members being Limited).

(Wholly owned Subsidiary of the Chartered Bank).

(Incorporated by the Royal Charter, 1853).

HEAD OFFICE:—2 & 3 Crosby Square, London, E.C. 3.

Bombay Office:—Corner of Dr. Dadabhai Nowroji Road and Veer Nariman Road. *Manager:* C. Raymond. *Accountant:* D. N. C. Lambert. Tel. address: "EASTERTIDE". Telephone No. 255056. P.O. Box No. 219. *Branches:* Aden (Crater), Amarah, Baghdad, Bahrain, Basra, Beirut (Lebanon), Bombay, Calcutta, Colombo, Doha (Qatar), Karachi, Kirkuk, Kuala-Lumpur, Madras, Mosul, Mukalla (Hadhramaut, East Aden Protectorate), Sharjah and Singapore.

THE FIRST NATIONAL CITY BANK OF NEW YORK

(Incorporated with limited liability in the U.S.A.)

Established 1812.

World wide Banking Services.

DEPOSITS	$ 7,455,892,760
CAPITAL	$ 249,696,000
SURPLUS & UNDIVIDED PROFITS AS ON June 30, 1961	$ 774,227,271

HEAD OFFICES.—55, Wall Street, and 399 Park Avenue, New York, with 86 Branches in New York City and 83 Branches and Affiliates in 30 countries overseas. LONDON OFFICE.—117, Old Broad Street, London, E.C. 2. Branches in Argentina, Bahamas, Brazil, Canal Zone, Chile, Colombia, Ecuador, England, France, Germany, Hong Kong, India, Jamaica, Japan, Lebanon, Malaya, Mexico, Pakistan, Panama, Paraguay, Peru, Philippines, Puerto Rico, Saudi Arabia, Singapore, United Arab Republic, Uruguay, Venezuela. Affiliates in Liberia and the Union of South Africa. Correspondents in every commercially important city in the world.

BOMBAY OFFICE.—Bombay Mutual Building, 293, Dr. Dadabhoy Naoroji Road, Fort. *Resident Vice-President:* F. de C. Matthews; *Manager:* R. E. Grant; *Assistant Managers:* M. Ratnaker Rau, S. R. Tare; *Accountant:* K. S. Karant; *Pro-Manager:* N. P. Korday; *Assistant Accountants:* R. D. Grant, G. J. Joshi, P. Malhotra, M. V. Stolen and A. K. Varma; *Sub-Accountant:* D. M. Shambhag; *Per Procuration:* H. K. Channabasappa.

Tel. Address: "CITIBANK."

Phone No. 26-3131. P.O. Box No. 175.

CALCUTTA OFFICE.—Bombay Mutual Building, 9, Brabourne Road. *Manager:* E. R. Cutting; *Asstt. Managers:* T. G. Harding and B. B. L. Kapoor; *Accountants:* H. H. Mitchell, S. N. Vittalrau; *Pro-Manager:* T. C. Sanyal; *Asstt.-Accountants:* R. C. Bennett, N. Krishnan, T. R. MeWeeney, D. A. Piercy; *Sub-Accountants:* G. Bose, R. C. Dubal.

Tel. Address: "CITIBANK."

Phone No. 22-5741. P.O. Box No. 655.

CODES USED: Bentley's Complete and Second phrases; Petersons's International; A. B. C. 6th Edition.

THE HONGKONG AND SHANGHAI BANKING CORPORATION

(Incorporated in Hong Kong with Limited Liability).

HEAD OFFICE.—Hong Kong.

CHIEF MANAGER.—The Hon. Sir Michael Turner, C.B.E.

BOMBAY OFFICE.—16, Vir Nariman Road, Fort.

CAPITAL AUTHORISED	HK. $ 100,000,000 (Rs. 8,33,33,333)
CAPITAL ISSUED AND FULLY PAID	HK. $ 79,046,125 (Rs. 6,58,71,771)
RESERVE FUND (INCLUDING SHARE PREMIUM ACCOUNT)	Stg. £ 15,000,000 (Rs. 20,00,00,000)

Manager:
B. O'D. Paterson.

Accountant:
W. C. Richardson.

ASSISTANTS:—J. F. G. Tait, S. F. Fairchild, J. W. Stewart, R. N. de Souza and C. J. G. Mathias.

Telegraphic Address.—"CASSANDRA." Telephone Nos. 255621, 255622, 255623. P.O. Box No. 602.

INDIAN BANK, LIMITED

(ESTD. 1907.)

MADRAS.

OFFICES IN BOMBAY: 1. United India Life Assurance Bldg., Sir Phirozeshah Mehta Road, Fort. 2. Lakhamsey Napoo Road, Matunga (Central Rly.), Bombay 19. 3. 242, Samuel Street, Mandvi, Central Rly., Bombay. With a network of Branches and Sub-Offices in all the important places in Calcutta, New Delhi, Poona. Overseas branches at Singapore, Kuala Lumpur, Penang, Malacca, Colombo. *London Agents:* Westminster Bank Ltd. *New York Agents:* First National City Bank of New York.

THE INDIAN OVERSEAS BANK, LIMITED

Central Office:

151, Mount Road, Madras 2.

AUTHORISED CAPITAL	Rs. 1,00,00,000·00
PAID-UP CAPITAL	„ 75,00,000·00
RESERVES	„ 69,36,659·50

CHAIRMAN:—M. CT. Muthiah, Esq.

GENERAL MANAGER:—C. P. Doraikannu, Esq.

Branches at:

Ahmedabad, Amritsar, Bombay, Calcutta, Cuttack, Ludhiana, Madras, Hyderabad, Delhi, New Delhi and throughout South India, Colombo, Singapore, Ipoh, Klang, Malacca, Penang, Kuala Lumpur, Bangkok, Rangoon and Hong Kong.

Agents in all the Principal Commercial Centres of the World.

Every description of Banking business transacted and for those who trade Overseas, The Indian Overseas Bank Ltd., is particularly well equipped to deal with their requirements.

OFFICES AT BOMBAY:—(1) Elphinstone Building, 2/10, Veer Nariman Road, Fort. (2) 92, Kazi Syed Street, Bombay 3. (3) Tajoo Kaya Park, Vincent Road, Matunga.

JODHPUR COMMERCIAL BANK, LTD.

(Incorporated in Jodhpur State: Liability of Members is Limited).

REGISTERED OFFICE:—Jalori Gate, Jodhpur. CENTRAL OFFICE.:—207, Kalbadevi Road, Bombay. BRANCHES: MARWAR.—Jalori Gate, Jodhpur; Khejarla House, Jodhpur; Kuchaman City, Nagaur; Merta City, Pali; BOMBAY.—53, Tamarind Lane, Fort; 207, Kalbadevi Road; 118-122, Kazi Syed Street, Mandvi; Municipal Building, Bhiwandi (Dist. Thana); Jambhali Naka, Thana; Shivaji Chowk, Kalyan.

MERCANTILE BANK LIMITED

(Incorporated in England.)

(Liability of Shareholders Limited.)

AUTHORISED CAPITAL	£4,000,000
PAID-UP CAPITAL	£2,940,000
RESERVE FUND	£2,200,000

HEAD OFFICE—15, Gracechurch Street, London, E.C. 3.

WEST END OFFICE—123, Pall Mall, London, S.W.1.

Branches & Agencies throughout India and the East.

* Has Safe Deposit Vault.

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CHIEF MANAGER .. .. .. C. R. Wardle.
BOMBAY MANAGER .. .. .. J. B. Stewart.
SUB-MANAGER .. .. .. R. A. Penrose.

THE MITSUI BANK, LIMITED

(Incorporated in Japan.)
(Liabilities of Shareholders Limited.)

AUTHORISED CAPITAL .. .. Yen. 13,500,000,000.
PAID-UP CAPITAL .. .. .. Yen. 9,000,000,000.

HEAD OFFICE: No. 12, Yurakucho, 1-Chome, Chiyoda-Ku, Tokyo, Japan.

Branches throughout Japan.

OVERSEAS OFFICES: Bombay, London, Bangkok and New York.

BOMBAY BRANCH AT: 6, Wallace Street. Dr. Dadabhoy Naoroji Road, Fort, Bombay. P.O. Box No. 1278.

MANAGER: Mr. Kiyoshi Yoshikawa.
Telegraphic Address: "MITSUIBANK".
Telephone No. 26-4834 (3 lines).

NATIONAL AND GRINDLAYS BANK LTD.

(Amalgamating National Bank of India Ltd., Grindlays Bank Ltd., and the Eastern Branches of Lloyds Bank Ltd.)

Registered in London under the Companies Act of 1862 on the 23rd March 1866.

The Liability of Members is Limited.

Bankers to the Government in Aden, Kenya Colony, Zanzibar and Uganda.

AUTHORISED CAPITAL £5,702,925
SUBSCRIBED AND PAID-UP CAPITAL £4,562,400
RESERVE FUNDS £3,050,000

HEAD OFFICE: 26, Bishopsgate, London, E.C. 2.

LONDON BRANCHES:

54, Parliament Street, S.W.1; 13, James's Square, S.W.1.

Branches throughout India, Pakistan, Ceylon, Burma, Aden, Somali, Zanzibar Island, Kenya, Uganda, Tanganyika Territory and Northern and Southern Rhodesia.

The Bank conducts all classes of Banking and Exchange Business throughout the World. Trusteeships and Executorships are undertaken.

BOMBAY BRANCHES: 90, Mahatma Gandhi Road, Mint Road (Corner of Mint Road and Sir P. M. Road); 270/272, Dr. Dadabhoy Naoroji Road (Lloyds Branch); 21/29 Princess Street (Lloyds Branch).

NORTH KANARA GOUD SARASWAT BRAHMIN CO-OPERATIVE BANK, LTD.

Laxmi Sadan, 361, Vithalbhai Patel Road, Bombay.

OBJECTS:—To raise funds by Debentures, Deposits, etc., to be lent out at interest to members of the Bank against personal securities, gilt-edged securities and immovable properties and to undertake such other business on behalf of the members as is incidental to banking business.

THE PUNJAB NATIONAL BANK, LTD.

(Established in 1895)
REGD. OFFICE: New Delhi.

AUTHORISED CAPITAL .. .. Rs. 2,00,00,000
ISSUED, SUBSCRIBED AND PAID-UP CAPITAL (INCLUDING BONUS ISSUE OF 3,75,000 SHARES) ,, 1,25,00,000
RESERVE FUND AND OTHER RESERVES .. ,, 1,58,50,000
DEPOSITS AND OTHER ACCOUNTS (as on 31-12-1960) Rs. 1,39,48,47,019

Over 400 Offices in India, Burma and Pakistan. Transacts Banking and Foreign Exchange Business of every description.

AGENTS IN UNITED KINGDOM: Midland Bank Ltd., Westminister Bank Ltd., N. M. Rothschild & Sons., Bank of America NT & SA, Barclays Bank Ltd., National Provincial Bank Ltd.

AGENTS IN U.S.A.: Bank of America NT & SA, First National City Bank of New York, Hanover Bank, Irving Trust Co., Morgan Gurantee Trust Co. of New York, Crocker Anglo National Bank, First National Bank of Boston, Philadelphia National Bank, United California Bank.

Chairman.—Shri Ram Nath Goenka. *General Manager.*—A. M. Walker.

Secretary and Deputy General Manager.—R. L. Tuli. *Deputy General Manager.*—Mohan Singh. *Chief Accountant.*—S. L. Verma. *Staff Controller.*—Amar Singh Puri. *Asstt. General Manager (Bombay)* H. L. Bedi. *Asstt. General Manager (Madras).*—D. P. Parthasarthy and *Controller of Advances.*—Somesh Chandra Trikha.

Chief Inspector: T. S. Wainwright. *Chief Manager, Foreign Exchange.*—B. K. Vora.

District Managers:—Sita Ram Mohindroo, S. N. Sharma, S. L. Mehra, Y. Prasher, A. L. Bhandari, K. L. Bhandari. *Manager, Bombay Branch,* Karimjee House, Sir Phirozshah Mehta Road, Fort.—C. S. Barara.

RESERVE BANK OF INDIA

Incorporated under the Reserve Bank of India Act, 1934 (II of 1934) to regulate the issue of Bank notes and the keeping of reserves with a view to securing monetary stability in India and generally to operate the currency and credit system of the country to its advantage. Nationalised on 1st January 1949. *Officers and Branches of the Banking Department*—Bombay, Calcutta, Madras, New Delhi, Kanpur, Bangalore, Nagpur, London. *Branches of the Issue Department*—Bombay, Calcutta, New Delhi, Kanpur, Madras, Nagpur and Bangalore.

STATE BANK OF HYDERABAD

(Subsidiary of State Bank of India).

Incorporated in India under Special Statute: The Liability of the members is limited.

HEAD OFFICE: HYDERABAD (DN.) AUTHORISED CAPITAL: Rs. 1,00,00,000; ISSUED AND PAID-UP CAPITAL: Rs. 50,00,000. Offers complete Banking Service through a network of Offices spread over Andhra Pradesh, Bombay, Madras and Mysore States and through its correspondents elsewhere in India. Foreign Exchange Business of all types undertaken. BOMBAY OFFICE: New India Assurance Building, Mahatma Gandhi Road, Fort. MADRAS OFFICE: 41 Linghi Chetty Street, George Town.

STATE BANK OF INDIA

(Constituted under the State Bank of India Act, 1955)

AUTHORISED CAPITAL .. .. .. Rs. 20,00,00,000
PAID-UP CAPITAL AS ON 31-12-1960 .. Rs. 5,62,50,000
RESERVE FUND AND OTHER RESERVES AS ON 31-12-1960 .. .. Rs. 7,45,00,000

Local Head Offices.—Bombay, Calcutta, New Delhi and Madras.
London Office.—25, Old Broad Street, E.C. 2.

Principal Office in Pakistan—Karachi.

Over 907 offices, comprising 4 local Head offices, the office in London, 5 offices in Pakistan, one Office each in Burma and Ceylon and Branches and Sub-Offices in India.

All Classes of Banking Business undertaken including Foreign Exchange Business.

UNION BANK OF INDIA, LIMITED

REGISTERED OFFICE.—66/80, Apollo Street, Fort, Bombay.

BRANCHES: *Local:* Abdul Rehman Street, Bandra, Bhat Bazar, Byculla, Bhuleshwar, Dadar, Goregaon, Kalbadevi, Mandvi, Mulund, Matunga, Null Bazar, Opera House, Princess Street, Pedder Road, Sion and Zaveri Bazar.

UP-COUNTRY: Ahmedabad (Dhanalaxmi Market & Maneck-Chowk), Bangalore, Baroda, Bhavnagar, Bhiwandi, Calcutta (Clive Row & Ezra Street), Cambay, Cochin, Coimbatore, Delhi (Chandni Chowk, Chawri Bazar, Karol Bagh & Khari Baoli), Gauhati, Dhoraji, Hyderabad, Jamnagar, Jetpur, Kanpur, Kolhapur, Kozhikode, Kalyan, Madurai, Madras (Sembudoss Street & Sowcarpet), Nagpur, Poona (City & Camp), Porbander, Rajkot, Surat, Thana, Veraval and Vijayawada.

(Equipped with Safe Deposit Vault).

THE UNITED COMMERCIAL BANK, LTD.

REGISTERED OFFICE: Calcutta.

Branches in all important Cities and Towns of India. FOREIGN BRANCHES: London, Hongkong, Singapore, Penang, Rangoon and Karachi. HEAD OFFICE: Calcutta. BOMBAY OFFICES: Petit Building, Hornby Road, Fort; Near Cotton Exchange, Kalbadevi; Sonawala Building, Zaveri Bazar; Bharatiya Vidya Bhawan, Harvey Road, Chowpatty; Industry House, Churchgate Reclamation.

UNITED WESTERN BANK, LTD.

BOMBAY OFFICE.—Laxmi Insurance Building, Phirozshah Mehta Road, Bombay. (Registered on 17th October, 1936). *Head Office:* Satara. *Central Office:* Bombay. *Branches:* Girgaon (Bombay), Nasik, Poona, Barsi, Lonand, Kolhapur, Halkarni, Dadar, Dombivali and Akluj. AUTHORISED CAPITAL.—Rs. 20,00,000. Transacts every kind of Banking Business, Loans, etc.

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CLASSIFIED LIST OF OVERSEAS FIRMS WITH NAMES OF BOMBAY AGENTS/REPRESENTATIVES.

ABRASIVE WHEELS & GRINDING COMPOUNDS

Carborundum Universal Ltd., Madras and The Carborundum Co. Ltd., Manchester. Manufacturers of Grinding Wheels, Segments, Rubbing Bricks, Roll Scouring Blocks, Abrasive Sticks, Sharpening Stones, Valve Grinding Compound, Crucibles, etc. Distributors : William Jacks & Co., Ltd., Bharat House, Apollo Street.

ABRASIVES

Minnesota Mining & Mfg. Co. Ltd., Arden Road, Adderley Park, Birmingham 8. Agents : Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

ACID AND ALKALI RESISTING CEMENTS

Acalor (1948) Ltd., London. Agents : Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ACOUSTIC TILES

WMB International AB, Goteborg. Agents : Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ADJUSTABLE LOUVRE WINDOWS

James Sandy Pty., Ltd., Sydney, Australia. Agents : Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

AGRICULTURAL MACHINERY MFRS.

E. V. Twose Limited, Tiverton. Agricultural Implements. Sole Agents : Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

International Harvester Export Co., Chicago, U.S.A. Agricultural Machinery and Implements. Sole Distributors : Voltas Limited, Chinchpokli Road, Bombay 12.

Marshall, Sons & Co., Ltd., Gainsborough. Manufacturers of Tractors, Combine Harvesters and Threshing Machinery. Sole Agents : Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Ransomes, Sims & Jefferies Ltd., England. Agricultural Implements and Lawn Mowers. Sole Distributors : William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

AIR-CONDITIONING, REFRIGERATION, HUMIDIFICATION UNITS AND EQUIPMENT

Andrew Machine Construction Co., Ltd., Stockport. Humidifier Installation. Sole Representatives : W. H. Brady & Co., Ltd., Veer Nariman Road, Bombay 1.

Carrier International Ltd., 385, Madison Avenue. Refrigerating and Air-conditioning. Sole Distributors : Voltas Limited, Ballard Estate, Bombay 1.

Davidson & Co., Ltd., Belfast. "Sirocco" Fans, Industrial Vacuum Cleaners, Evaporative Cooling Plants, Air-conditioning. Sole Representatives in Bombay : W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Bombay 1.

KELVINATOR INTERNATIONAL CORPORATION, U.S.A. Refrigerators. Sole Distributors : Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26. Phone : 73261-2-3. Grams : "Torpedos."

Tempair Ltd., Maidstone, Kent, England. Manufacturers of "Tempair" self-contained packaged and window type air-conditioners. Sole Distributors & Progressive Manufacturers : Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

AIR COMPRESSORS

Broom & Wade Ltd., High Wycombe, England. Air Compressors, Pneumatic Tools. Sole Distributors : Voltas Ltd., Ballard Estate, Bombay 1.

De Vilbiss Company, Toledo, Ohio, U.S.A. Air Compressing, Spray Painting Outfits and Hoses, etc. Agents : John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone : 261153.

Tecalemit Limited, Brentford, U.K. Manufacturers of medium size aircompressors. Agents : Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

AIR ENTRAINING AGENT, ASPHALT ANTI-STRIPPING ADDITINE

Dewey & Almy, Chemical Co., Massachusetts, U.S.A. Agents : Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

ALUMINIUM

EMPIRE ALUMINIUM CO. LTD., 204, Polmadie Road, Glasgow S.2. Representatives : James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

ANTIFRICTION METALS AND SOLDERS

Eyre Smelting Ltd., Antifriction Metals. Agents : Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone : 261494 (3 lines). Grams : "BALMER".

The Eyre Smelting Ltd., Tandem Works, Merton Abbey, London, S. W. 19. Sole Agents : Heatly & Gresham, Ltd., 9, Forbes Street.

ANTISEPTICS

British Alkaloids Ltd., T.C.P. Antiseptic Lotion, etc. Sole Agents :—J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Milton Proprietary Ltd., "Milton" Antiseptic Lotion. Sole Agents : J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

ANTI-VIBRATION BEARINGS & MOUNTINGS

Silentbloc Ltd., Manor Royal, Crawley, Sussex. Antifriction, Flexible Mounting and Couplings. Agents : Heatly and Gresham Ltd., 9, Forbes Street, Fort.

AROMATIC CHEMICALS

Dragoco-Holzminden, W. Germany. Agents : B. C. Patel & Co. 79, Princess Street, Bombay 2.

ESROLKO LTD. (Formerly FLORA), Switzerland. Manufacturers of Synthetic Essential Oils & Aromatic Chemicals. Agents : M. C. Davar & Co., 143, Princess Street, Bombay 2. Phone : 39752. Grams : "EMCIDAVAR".

Jean A. du Crocq Jr. N. V., Huizen N. H Holland. Sole Agents for Bombay State : R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. No. 1065, Bombay 1.

Les Derives Resiniques & Terpeniques, Dax (Landes), France. Sole Agents for India : R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. 1065, Bombay 1.

ASBESTOS PRODUCTS

Arthur Hecker Asbest-Und Gummiwerke kg., (14a) Weil Im Schonbuch (Wurttemberg), West Germany. Sole Agents : Datson, Raviraj & Co., Private Ltd., 43, Tamarind Lane, Fort, Bombay. Phone : 39333.

Chillcotts Ltd., Newlands Park, Sydenham, London S. E. 26. Sole Agents : Datson, Raviraj & Co., Private Ltd. 43, Tamarind Lane, Fort, Bombay. Phone : 39333.

AUTOMATIC LOOMS

Henry Livesey Ltd., Blackburn. Weaving Machinery. Sole Concessionaires : Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

AUTOMOBILE

Bentley Motors (1931) Ltd., Conduit Street, London. Manufacturers of Bentley Motor Cars. Sole Distributors : Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Daimler-Benz, A. G., Stuttgart, Germany. Manufacturers of Mercedes-Benz Cars and Diesel Trucks. Sole Distributors : Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 1.

Jaguar Cars Ltd., Coventry, England. Manufacturers of Jaguar Cars and Accessories. Agents : Garware Motors & Engineers Private Ltd., Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

Rolls-Royce Ltd., Conduit Street, London. Manufacturers of Rolls-Royce Motor Cars. Sole Distributors : Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

Rootes Limited, Devonshire House, Piccadilly, London, W.1. Export Division of Humber, Hillman, Sunbeam-Talbot Motor

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Cars and Commer and Karrier Commercial Vehicles. Sole Distributors: Dadajee Dhackjee & Co. Private Ltd., Sandhurst Bridge, Bombay 7.

AUTOMOBILE PARTS & ACCESSORIES

Britool Limited, Sole Agents: Elliott Waud & Hill Private Ltd. 1/2, Lakshmi Building, Sir P. M. Road, Bombay 1.

AVIATION

Aircraft Marine Products Ltd., Amplo House, 87-89, Saffron Hill, London E.C.1, England. All sizes of solderless terminals and connectors for electrical wiring systems with associated hand, hand hydraulic and automatic machine tooling. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Auto Diesels Limited, Uxbridge, Middlesex, England. Aircraft ground starting and servicing equipment, aircraft ground starting and servicing equipment. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Avica International, 50, Pall Mall, London, S.W. 1, England. Stainless steel and rubber flexible pipe assemblies, high pressure swivel pipe couplings, H.T. and L.T. ignition leads and harness, electrical wiring conduit assemblies, stainless steel bellows assemblies, precision barometric bellows, support clips. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay 1.

Blackburn Electronics Ltd., Brough, Yorkshire, England. Industrial electronic equipment including data measuring, display and logging equipment; control engineering and servo systems, analogue computers, digital computers, general system engineering electronic equipment etc. Sole Concessionaries: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Blackburn Engines Ltd., Brough, Yorkshire, England. Piston aero engines from 150 to 180 h.p., gas turbine engines from 325 to 1200 s.h.p., gas turbine ground starting equipment and airborne auxiliary power units. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Aerojet Limited. Banwell Weston-Super-Mare, Somerset, England. Rocket motor cases, pressure vessels in high tensile steel for industrial and aeronautical use, gas storage vessels, oxygen/air cylinders. Sole concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Aeroplane Plastics Ltd., Filton House, Filton, Bristol, England. High Strength reinforced corrosive resistant glass fibre piping, aircraft drop-tanks, radomes, boat hulls, and other plastic products. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Bristol Siddeley Engines Ltd., Post Box 3, Filton, Bristol, England. Turbojet and turboprop engines from 1,000 e.h.p. to 30,000 lbs. thrust including new range of ducted fan and Lift/Thurst jet engines, Proteus gas turbine for marine propulsion, Proteus gas turbine electrical stand-by 3 and 15 megawatt generating equipment, ramjet engines, rocket motors from 500 to 100,000 lbs. trust. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

British Oxygen Aviation Services, Bridgewater House, Cleveland Row, St. James's, London S.W.1, England. Airborne oxygen systems and equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Chelton Electrostatics Ltd., Marlow-on-Thames, Bucks, England. Aerial arrays and static dischargers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Cossor Communications Co., Ltd., Honeypot Lane, Stanmore, Middlesex, England. VHF fixed station and mobile transmitter receiver equipment, HF mobile transmitter receiver equipment, motor cycle R/T equipment, VHF transmitter/receiver pack sets, VHF marine radio telephone, VHF receivers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Cossor Radar & Electronics Ltd., Elizabeth Way, The Pinnacles, Harlow, Essex, England. Air surveillance radar, meteorological radar, ground and airborne secondary surveillance radar, ground and airborne gee navigational equipment, display systems, delay lines, printed waveguides. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

C. T. (London) Ltd., 27, Ashley Place, Westminster, London S.W. 1, England. Aircraft instruments, precision barometers, strain gauges. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Darchem Engineering Co., Ltd., (Refrasil Division) Stillington, County Durhan, England. Thermo and Electrical insulating materials. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Dynatron Radio Ltd., St. Peter's Road, Furze Path, Maidenhead, Berkshire, England. Scaling Units, pulse analysers, pulse amplifiers, portable scalers, power units, coincidence units, timing units, clinical monitors and accessories, cabinet racks and other ancillary equipments. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Dowty Rotol Ltd., Cheltenham Road, Gloucester, England. Propellers, gear boxes, accessory drive equipment, undercarriages and hydraulic systems, electro-pneumatic systems, seals, fuel systems, fuel proportioning systems, ram air turbines and bleed air turbines, hydraulic motors and pumps, powered flying controls, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Ekeo Electronics Ltd., Malmsbury, Wiltshire, England. Amplifiers, ratemeters, sealers, scintillation counters, radiation monitors, electrometers, thickness gauges, density gauges, power units, airborne weather radar automatic direction finding equipment, transistorised power supply. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Hunting Surveys Ltd., 6, Elstree Way, Boreham Woods, Herts, England. Aerial photographic surveys, airborne geophysical exploration for oils and minerals. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay 1.

Redifon Ltd., Gatwick Road, Crawley, Sussex, England. Electronic synthetic training devices, flight simulators, Air Traffic Control radar simulators, harbour radar simulators, tactical trainers. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Short Brothers and Harland Ltd., 17, Grosvenor Street, London W. 1, England. Sealand aircrafts, analogue computing equipment. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Slough Estates (London) Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Thermionic Products (Electronics) Ltd., Southampton, England. Agents: Hindco, 24, New Queen's Road, Bombay 4.

Ultra Electronics Ltd., Western Avenue, Acton, London W.3, England. Search rescue and homing equipment, communication control equipment, engine condition analyser, temperature streak detector, phase failure and under voltage protector, remote warning system, static read-write head, transistor power convertor unit, cabin address amplifier, temperature trip amplifier, throttle control amplifier, jet pipe temperature control amplifier, transistor power units. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

AXLE BOX OILERS

Armstrong Oiler Co., Ltd. Lendal Bridge, York, England. Axle Box Oilers for Railway Rolling Stock. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

BALL & ROLLER BEARINGS (MFRS.)

Fafnir Bearing Coy., England. F. B. C. Ball and Roller Bearings. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

KUGELFISCHER GEORG SCHAFER & CO., West Germany. Mfrs. of Ball and Roller Bearings. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 263479. Grams: "BISUKHI."

STEPHENS ADAMSONS MFG., COMPANY (Sealmaster Ball Bearing Pillow Block units), Los Angeles, U.S.A. Sole Agents: Harchandrai Sons, 172-74, Nagdevi St., Bombay 3.

Timken Roller Bearing Coy., U.S.A. Timken Tapered Roller Bearings. (Industrial and Railway Applications). Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

BATTERIES

Accumulatoren-Fabrik A.G., Export Department, Neue Mainzer Strasse 52, Frankfurt/Main, Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Deutsche Edison-Akkumulatoren Co., G.m.b.H. Export Dept. Neue Mainzer Strasse 54, Frankfurt/Main, Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

D. P. Battery Co., Ltd., Storage Batteries. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

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BATTERY ACCESSORIES

Mueller Electric Co., 1583 East 31st Street, Cleveland, 14, Ohio, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

BEER AND STOUT

Beck & Co., Bremen. Brewers. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

Tennent, J. & R., Ltd., Glasgow. Brewers. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

BELTING (TEXTILE) MANUFACTURERS

British Belting & Asbestos Ltd., Southwark, London. Scandinavia, M.C.M. Cotton Belting, Saturn Hair Belting, MINTEX and Halo Broke Lining and Clutch Rings, etc. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Fenner, J. H., & Co., Ltd., Hull, England. Leather & Woven Belting. Ram Leathers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Gandy Limited, Wheatland Works, Wallasey, Cheshire, England. Leather Belting and Belting Accessories. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Gates Rubber Company, The, Denver Colorado, U.S.A. Cone Belts, Evener Belts & Card Bands. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

John Ormerod & Sons Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Maxa, Limited, 43 & 45, Cannon Street, London, E. C. 4. "Maxa" Belt Dressing and Preservative. Sole Agents: J. D. Jones & Co. (Bombay), Private Ltd., Rustom Building, Veer Nariman Road, Fort.

BISCUIT MANUFACTURERS

Huntley & Palmers Ltd., Biscuit Manufacturers, Reading. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

BOBBINS MANUFACTURERS

Dixon, John & Son Ltd., Steeton, Yorks. Bobbins for Cotton, Wool, Silk & Jute. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Kirk & Co. (Blackburn), Ltd., England. Principal Distributors: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Wilson Bros. Bobbin Co., Ltd., Bobbins, Shuttles, etc. Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

BOILER ACCESSORIES

Baines & Co., Ltd., W.N., Phoenix Brass Works, Rotherham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

Clyde Blowers, Ltd., Livingston Street, Clydebank, near Glasgow C. 2. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

DEWRANCE & CO., LTD., 165, Great Dover Street, London S.E. 1. Steam Valves, Steam Traps and Boiler Mountings. Sole Agents: Kilburn & Co., Ltd., P. O. Box No. 565, Bombay. Phone: 25-1908. Grams: "TASCONIUM".

Dermatine Company, Ltd., 93-95, Neate Street, London, S.E. 5. Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

Everlasting Valve Co. (Great Britain), Ltd., 125, Balham High Road, London, S.W. 12, England. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Farrar Boilerworks Ltd., Newark-on-Trent. Vertical Boilers. Fishmeal & Oil Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Gresham & Craven, Ltd., Post Box No. 4, Norfolk Street, Worsley Road, North Walkden, Manchester. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Scott & Co., England. "Stopskal" Boiler Compound. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Versil Ltd., Rayner Mills, Liversedge, Yorks. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort

BOILER MANUFACTURERS

Clarke Chapman & Co., Ltd., Gateshead-on-Tyne. Water Tube Boilers, Capstans Winches, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Copes Regulators Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Cradley Boiler Co. Ltd., Nr. Birmingham. Makers of Vertical Steam Boilers. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Marshall, Sons & Co., Ltd., Gainsborough Trent, Lancashire, Cornish, Locomotive Economic Boilers. Sole Agents: Marshall Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Penman & Co., Ltd., Caledonian Iron Works, Glasgow. S. E. Lancashire & Cornish Boilers, Economic Boilers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Ruston & Hornsby Ltd., Lincoln. Vertical Cross Tube and "Thermax" Boilers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

BOILER PRESERVATIVES AND COMPOSITIONS

British Boiler Cleaning & Enamelling Co. "Llanghrod" Boiler Composition. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road.

Clensol Ltd., 40, Berkeley Square, London. Patent Scale Remover and Boiler Water Purifiers. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Houseman & Thomson Ltd., New Castle-upon-Tyne. "D.M." Boiler Solution. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BOILER SCALE PREVENTIVE AND COMPOSITIONS

Boilerine Ltd., London. Scale Preventive Composition. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road.

Houseman & Thompson Ltd., Newcastle-upon-Tyne. "D.M." Boiler Solution. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

BOILER TUBES

Comptoir F. B. T. 23-27, Avenue de Nevilly, Paris. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

BOLTS, NUTS & SCREWS

Guest Keen & Nettlefolds (Midlands) Ltd., Darlaston. Bolts, Nuts, etc. Representatives: Guest, Keen Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Guest Keen & Nettlefolds (Midlands) Ltd., Birmingham. Representatives: Nettlefolds of India Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Joseph Fitter Ltd., 26, Sherlock Street, Birmingham, 5. Agents: Soho House, Lohar Street.

BOOKS PUBLISHERS

Brown Son & Ferguson Ltd., 52-58, Darnley Street, Glasgow, S. 1, Scotland. *via:* E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Director of Publications, H. M. Stationery Office, P. O. Box No. 569, London S.E.1. *via:* E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Harrap & Co., Ltd., George G., 182, High Holborn, London W.C. 1. Publishers. Agents: Oxford University Press, Post Box No. 31, Bombay 1.

Imray, Laurie, Norie & Wilson Ltd., Wych House, St. Ives, Huntingdonshire, England. *via:* E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

J. D. Potter, 145 Minories, London E. C. 3. *via:* E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

James Munro & Co., Ltd., 16, Carrick Street, Glasgow C.2, Scotland. *via:* E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Lloyds Shipping Publications, Lloyds, London E.C.3. *via:* E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Thomas Reed & Co., Ltd., 184, High Street, West, Sunderland, England. *via:* E. W. Stevens & Co. Private Ltd., Ballard Road, Bombay 1.

University Tutorial Press, Ltd., Clifton House, Euston Road, London, N.W.1. Publishers. Agents: Oxford University Press, Post Box No. 31, Bombay 1.

BRASS FOUNDRY

Harrison (Birmingham) Ltd., Bradford Street Works, Birmingham, 12. Agents: Soho House, Lohar Street.

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BRICK-MAKING EQUIPMENT

Hebert Alexander & Co. Ltd., Leeds. Brick-making machinery & equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

BRUSH MANUFACTURERS

Addis Ltd., "Wisdom" Nylon Toothbrushes and other Toilet Brushes. Sole Agents: J. L. Morison Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

BRUSHES

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

BUILDING MATERIAL HARDWARE

Richard Hill Ltd., England. Mfrs. of "MAXWELD" brand Steel fabric for Concrete reinforcement. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Wm. Newman & Sons Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

CABLES & WIRES

Aktiebolaget Liljeholmens Kabelfabrik, Stockholm. Manufacturers of cables and wires. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

John Rigby & Sons Ltd., England. Steel Wire for Springs, Pianos, Stitching, Reeds, Screws, Pins, Drawn Pinion Sections & Powder Metallurgy Products, Paper Clips, etc. Agents: Armstrong Smith Private Ltd. 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

London Electric Wire Co., & Smiths Ltd., London, England. Agents: Kilburn & Co., Ltd., P.O. Box No. 565, Bombay 1.

Ohio Brass Co., Mansfield, U.S.A. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

SCOTTISH CABLES LIMITED, Deanside, Renfrew, Scotland. Power Cables. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Vaetite Wire Co., Ltd., Salford, England. Agents: Kilburn & Co., Ltd., P.O. Box No. 565, Bombay 1.

CANNED & BOTTLED PROVISIONS

Frank Cooper Ltd., "Oxford" Marmalade, etc. Agents:—J. L. Morison, Son & Jones India Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Marmite Food Extract Co., Ltd., "Marmite". Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

CANVAS TWINE AND HOSE

Boase Spinning Co., Ltd., Dundee. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Tanner Brothers (Greenfield) Ltd., Greenfield, England. Agents: Soho House, Lohar Street, Bombay 2.

CARRIAGE TYRE CHANNELS

Pritt & Co., Ltd., 11-12, St. Swithin's Lane, London, E.C. 4. Agents: Soho House, Lohar Street.

CASTING MANUFACTURERS

Les Fonderies Magotteaux Limited, Belgium —Steel Casting, Grinding Bodies, for Cement, Mining, Chemical and Ore Crushing Industries. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, P. B. No. 1270, Bombay 1.

CEMENT & CONCRETE

Cement Marketing Co., Ltd., London. Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Christiani & Nielsen, Copenhagen, Denmark. Patented R. C. C. Arch Bridges with inclined hangers. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

Colcrete Ltd., London. Manufacturers of Colloidal Mixers and Colloidal Grouting. Sole Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

Keystone Refractories Co., "Dura-Stix" Firebrick Cement. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Mouchel & Partners, L. G., Ltd., London. Cooling Towers Consultants; Agents in India: Gammon India Private Ltd., Hamilton House, Ballard Estate, Bombay.

CEMENT AND CONCRETE MACHINERY

Cheecol Processes Ltd., Keeland House, 644, Oxford Road, Reading, Berks, England. Patent Concrete Making Processes. Sole Agents: Heatly & Gresham Ltd., 9, Forbes St., Bombay 1.

Winget Limited. Concrete Mixers & Mortar Mills, Vibrators, Batching Plants. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

CEMENT WATERPROOFER

Oliver Keeling & Sons, Keynsham, Nr. Bristol. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

CERAMIC KILNS & MATERIALS

Applied Heat Co., Ltd., The, England. Agents in India: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Buildings, Dr. Annie Basant Road, Bombay 18.

Blythe Colour Works Limited, England. General Agents in India: Indian Wild-Barfield Co. Private Ltd., Lotus Cinema Building, Dr. Annie Besant Road, Bombay 18.

CHAIN BELTS AND CONVEYORS

Griffin Woodhouse Chain Cables Ltd., Chains and Cables. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay. Phone: 261153.

J. Collis & Sons Ltd., London. Sole Agents: Killick Nixon & Co., Private Ltd., Killick House. Home Street,. Fort.

Joseph Wright & Co., Ltd., Tiplori, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

CHAIN LINKS AND DRIVES

Whitney Chain Co., Hartford (U.S.A.). Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

CHARTS (MARINE)

Imray, Laurie, Norie & Wilson Ltd., Wych House, St. Ives, Huntingdonshire, England. Agents: E. W. Stevens and Co., Private Ltd., 4, Ballard Road, Bombay 1.

Superintendent of Issue, Hydrographic Supplies Establishment, Creechlearrow House, Taunton Somerset, England. *via:* E. W. Stevens and Co., Private Ltd., 4, Ballard Road, Bombay 1.

CHEMICAL MANUFACTURERS

DIA CHEMIE. (German D. R.) Sole Distributors: Mahendra Shantilal, Shanti Niketan, Marine Drive, Bombay 2. Grams: "COALTAR," Bombay.

Howards of Ilford Ltd., Ilford, near London. Manufacturers of Pharmaceutical Chemicals, Quinine preparations and Solvents. Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

ROHM & HAAS CO. Philadelphia, U.S.A. Sole Representatives in India: Amritlal & Co. Private Ltd., 11, Sprott Road, Ballard Estate, Fort, Bombay.

CHEMICAL AND PHARMACEUTICAL MACHINERY AND EQUIPMENT MFRS.

Ambeg, Germany. Machinery for manufacture of Ampoules, Vials, Tablet and test-tubes, bulbs, etc., Glass Tubes Cutting, Sorting & Weighing Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Apex Construction Co., London. Tablet Machines, Industrial Compressing Machinery, Pharmaceutical equipment, special process plant. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blackfriars Engineering Co., England. Masson Mills used in Rubber, Plastics and allied industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blackfriars Rotary Cutters, England. 'Masson & Junior' Rotary Cutters used in Rubber, Plastic and allied industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Constructors John Brown Limited. Solvent Extraction, Fatty Acid, Splitting and Distillation Units, Fertilizer Heavy Water Pumps etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Enamelled Metal Products Corporation (1933) Ltd., England. "PFAUDLER" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Foster Wheeler Corporation, New York, U.S.A. Complete Petroleum Refineries for Gasoline, Processing & Chemical Plants, Fertiliser Plants. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

L. A. Mitchell Ltd., England. Heating Ovens, Mitchell Drying Equipment, Acid Pumps, Chemical Plants, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Co., U.S.A. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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Pfaudler Werke A. G., Germany. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Q. V. F. Limited, England. Industrial Plants in Glass, "PYREX" Visible Flow Pipes Lines for Chemical, Pharmaceutical and Food Industries. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CHEMICALS

Airco Company International, 60, East 42nd Street, New York 18 N.Y., U.S.A. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Archer Daniels-Midlands Company, 225, Broadway, New York 7, N. Y., U. S. A. Agents: Hardcastle Waud & Co. Private Ltd., Alice Building, Dr. Dadabhai Naoroji Road, Fort.

C. W. Field Ltd., Liverpool 24, England. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.O. No. 1065, Bombay 1.

CHEMISCHE WERKE HUELS AKTIEN-GESELLSCHAFT, Marl, Germany. Manufacturers of Chemicals, Solvents & Plastic Raw Materials. Sole Distributors: Chika Private Limited, Mehta Chambers, 13, Mathew Road, Bombay 4. Phone: 38091/95. Grams: "DYECOLD".

DIAMALT AKTIENGESELLSCHAFT, Muenchen, Germany. Manufacturers of Gums & Desizing Agents. Please apply to: Chika Private Limited, Mehta Chambers, 13, Mathew Road, Bombay 4. Phone: 38091/95. Grams: "DYECOLD".

FARBENFABRIKEN BAYER AKTIENGE-SELLSCHAFT, Leverkusen, Germany. Manufacturers of Chemicals. Sole Distributors: Chika Private Limited, Mehta Chambers, 13, Mathew Road, Bombay 4. Phone: 38091/95. Grams: "DYECOLD".

Hercules Powder Co., Inc., Wilmington, Delware, U.S.A. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Houghton, E. F., & Co., Philadelphia. Houghton's Heat Treatment Specialities. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Industrial Tartarica Valenciana, S.A., Valencia, Spain. Tartaric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Industrias Quimicas Y. Tartaricas, S.A., Gerona, Spain. Tartaric & Citric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

K. D. Fedderson & Co., "Elbhof", Steinhoft 9, Hamburg 11, Germany. Fine, Heavy, Industrial and Pharmaceuticals Chemicals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

M. W. Hardy & Co., Ltd., London. Chemicals, Pharmaceuticals, Dyes. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Shawinigan Chemicals Ltd., 600, Darchester Street, W., Montreal Que. Products—Pentacroy thritol & Mono-Pentacroy thritol. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

CHEMICALS & RAW MATERIALS

Montecatini, Milan, Italy. Acids, Chemicals, Minerals and Pigments. Contact: Ratansi Morarji Private Limited, Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road. P. B. No. 1270, Bombay.

CHEMISTS, MANUFACTURING

Stafford. Allen & Sons, Ltd., London. Manufacturing Chemists, Distillers of Essential Oils, Manufacturers of Aromatic Chemicals, Soap and Perfume Compounds, and Insecticides. Agents: The Anglo-Thai Corporation, Ltd., Ewart House, Bruce Street.

CHRISTMAS & GREETING CARDS

Masterpiece Studios, Chicago. Sole Agents: Nair Aggarwal Ltd., National House, Tulloch Road, Apollo Bunder.

CIGARETTE LIGHTERS

Ronson Products Ltd., London. Cigarette Lighters & Products. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

CINEMA MACHINERY

British Thomson-Houston Export Co., Ltd., Rugby, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

CIRCLIPS

ORBIS G.m.b.H., West Germany. Mfrs. of Circlips. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKHI".

CLEARING AND FORWARDING AGENTS

Dean & Dawson Ltd., Passenger and Tourist Agents. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Geo. W. Wheatley & Co. Ltd., London, Liverpool, New York and Marseilles. Shipping and Forwarding Agents. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Gerhard & Hey Ltd., Shipping Agents, London, Liverpool, Manchester, Hull, Southampton, Glasgow. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Gerhard & Hey Co., Inc., Shipping Agents, 44, Whitehall Street, New York 4, N. Y. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Pitt & Scott Ltd., London, Glasgow, Liverpool, New York and Marseilles. Shipping and Forwarding Agents. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

COAL CUTTING MACHINERY AND CONVEYORS

Mavor & Coulson Ltd., 47, Broad Street, Glasgow. Coal Cutters and Conveyors. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Siskol Machines Ltd., Siskol Works, Sheffield, England. Electric and Pneumatic Coal Cutters (Portable), Electric, Pneumatic and Petrol Engine Driven Drills. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

COAL PROCESSING PLANT

Nelson L. Davis Company, Illinois, U.S.A., Coal Preparation and Coal Cleaning Plant; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

COLOURS

J. W. & T. A. Smith Ltd., London. Fine Colour & Pigments. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

COMPUTING EQUIPMENT

Short Brothers and Harland Ltd., 17, Grosvenor Street, London W. 1, England. Sealand aircraft analogue computing equipment. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

CONCRETE MACHINERY

Ductube-Udall Ltd., Sole Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay.

Stelmo Ltd., London. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

CONCRETE REINFORCEMENT

McCall & Co., (Sheffield) Ltd., Templeborough, Sheffield, England. "Matobar" High Tensile Electrically Welded Steel Fabric for Reinforcement; "Tentor"—Bars; Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Richard Hill Ltd., England. Mfrs. of "MAXWELD" brand Steel Fabric for Concrete reinforcement. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

CONCRETE VIBRATORS

Allam, E. P., & Co., Ltd., 132-135, Sloane Street, London, S.W.1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Wacker Gebruder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONFECTIONERS

James Pascall, Ltd., Confectionery. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

CONFECTIONERY MACHINERY

Rose Brothers (Gainsborough) Ltd., England. Packing, Wrapping, Labelling & Bag Making Machinery. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONTRACTORS, PLANT AND MACHINERY

Blaw Knox Ltd., London. Concrete Mixers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

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Boydell & Co. Ltd., E., Manchester (Muir-Hill Loaders & Dumpers). Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Cement & Steel Ltd., Kent, (Bar Bending & Bar Shearing Machine). Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Christopher & Sons Ltd., J., London, (Hemel Hoists). Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Ductube-Udall Ltd., London. Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort, Bombay.

Fiorentini & Co., Ing. F., Italy. Agents for Western India:—Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Frederick Parker, Ltd., Leicester. Sole Agents: Heatley & Gresham Ltd., 9, Forbes Street, Fort.

Friedrich Wilh Schwing G.m.b. H. Germany. Construction Equipment like Self-Supporting Hoists, Climbing Craner, Hoeing Showl Load, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fritz Graupner Ohg., Germany. Stone Polishing, Grinding and Cutting both Petrol & Electrically Driven. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Georg. Stetter. Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Johnson (Machinery) Ltd., C. H., England. Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyratory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wacker Gebruder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

CONVEYORS AND LOADERS

Barber-Greene (Overseas) Inc., Aurora, Illinois, U.S.A. Barber-Greene Olding Co. Ltd., Hatfield, Herts, England. Bituminous Finishers, Conveyors and Loaders. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

CRANES & HOISTS

Clyde, Crane & Booth Ltd., Rodley, Leeds, England and Mossend, Scotland. Electric, Steam and Diesel Dock and Wharf Cranes, Travelling Jib Cranes for Docks, Railways and Collieries, Railway Breakdown and Main Line Cranes and Deck cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Cowans, Sheldon & Co. Ltd. Carlisle. Cranes, Gantries, Lifting Gear, Turntables, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay.

Fellows Brothers Ltd., Cradley Heath, England. Overhead Electric and hand Power Travelling Cranes, Pulley Blocks & Hoists. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Holland Cranes, The Hague, Holland. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Bombay 1.

John Smith & Sons (Keighley) Ltd., Keighley. Electric Overhead Travelling Cranes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Loro & Parisini, Milan. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick, House, Home Street, Fort, Bombay.

Reed Crane & Hoist Co., Ltd., Bristol, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Richard C. Gibbins & Co., Ltd., Birmingham. Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Thomas Smith & Sons (Rodley) Ltd., Rodley. Steam and Diesel Cranes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

CUTTING OILS AND SOLUTIONS

Germ Lubricants Ltd., Salford, Manchester. Lubricating Oils, Greases, Soluble Cutting Oils and Quenching Oils. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Bombay.

DAIRY MACHINERY MANUFACTURERS

Enamelled Metal Products Corporation (1933) Ltd., England. "PFAUDLER" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Co., U.S.A. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Pfaudler Werke A. G., Germany. "Pfaudler" Glass Enamelled Steel Storage & Mixing Vessel, Steel Chemical Process Equipment, Stainless Steel Vessel & Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DENTAL GOODS

Nordenta (Sweden) Ltd., Dental Syringes, Instruments & Equipments. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

DIAMOND DRILLING RODS

Jacques Dembitzer, Antwerp, Belgium. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Bombay 1.

DICTAPHONE EQUIPMENT

Dictaphone Corporation, New York, U.S.A. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Dictaphone Co. Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

DIESEL ENGINES

Cummins Diesel Export Corp., Indiana, U.S.A. Sole Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

Davey Paxman & Co., Ltd., Standard Iron Works, Colchester. Diesel Engines for Stationary, Marine and Rail Traction Duties. Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Dorman, W. H. & Co., Ltd., Stafford. Industrial and Marine Diesel Engines. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

East Japan Heavy Industries Ltd. (Japan). For Beacon Diesel Engines. Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

R. A. Lister & Co. Limited, Dursley, Gloucestershire, England; Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ruston & Hornsby Ltd., Lincoln & Grantham, England. Horizontal & Vertical Stationary Diesel Engines, also Marine, Main and Auxiliary Diesel Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Turner Manufacturing Co., Ltd., Wolverhampton. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

DISC SPRINGS

ADOLF SCHNORR, West Germany. Mfrs. of Disc Springs. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKHI".

DISINFECTANTS AND INSECTICIDES, FUNGICIDES, WEEDKILLERS, LIQUID CHLORINE ETC.

Dakin Brothers, Ltd., 82, Middlesex Street, London, E.1. Manufacturers of Dakin's Creasol Disinfectant. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Rustom Building, Veer Nariman Road, Fort.

Hercules Powder Co., Inc., Wilmington, Delware, U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Lee Nagel's (Cowan's) Process for Extermination of White ants. Agents: The Anglo-Thai Corporation, Ewart House, Bruce Street.

Michigan Chemical Corporation, U.S.A. Insecticides. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Sinnova-Paris, France. Agents: Kilburn & Co., Ltd., P.O. Box No. 565, Bombay 1.

DOMESTIC APPLIANCES

Lumbys Ltd., England. Hot Water Boiler, etc. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

DOMESTIC HARDWARES

Valor Co., Ltd., "Stoves, Cookers, Ovens, etc." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

DRAWING OFFICE EQUIPMENT

Hall Harding Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Lawes Rabjohns Ltd., Acre Works, Brooklands Road, Weybridge, Surrey. Drawing Office Materials and Equipment. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

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DREDGERS AND DREDGING PLANT BUILDERS

De Groot, Holland. Bucket Dredgers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

I. H. C. Holland, The Hague, Holland. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Bombay 1.

SIMONS—LOBNITZ, Renfrew Near Glasgow. Representative: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

DRILL STEEL

Sheffield Hollow Drill Steel Co. Ltd., Sheffield; Hollow Drill & Mining Steel; Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Gwynnes Pumps Ltd., Lincoln. Suction Dredgers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

DRILLING AND BORING EQUIPMENT

English Drilling Equipment Co., Ltd., London. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Fredk. Pollard & Co. Ltd., Leicester, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Halifax Tool Co., Ltd., Halifax. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Mindrill Exports Pty. Ltd., Preston, Victoria, Australia. Diamond Coring and blast hole drills, Grout drills and accessories. Rods, Casings and pumps. Diamond bits. Bits for Coring, non-coring, reaming and casing bits. Portable Rotary drills. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Ruston-Bucyrus, Ltd., Lincoln, England and Bucyrus-Erie Company, South Milwaukee, Wisconsin, U.S.A. Excavating Machinery, Well and Blast Hole Drills, Hydro Cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Sheffield Twist Drill & Steel Co., Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay.

Siemens-Schuckert (G.B.) Ltd., Brentford, Middlesex. Electric Hand Drills, Gate End Panels, Wimet Bits, etc. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Swenska Motorborr Aktisbolajet, Sweden. Portable Petrol Driven Rock Drilling & Braking Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DRUGS & MEDICINES

Otto A. H. Wolfer, Hamburg 1, Rosenstrasse 11 (Germany). Agents: Hardcastle Waud & Co. Private Ltd., Alice Building, Dr. Dadabhoy Naoroji Road, Fort.

DUPLICATING MACHINES

A. B. Dick & Co. Chicago, U.S.A. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Ditto (Britain) Ltd., London, England. Agents: Kilburn & Co. Ltd. P.O. Box No. 565, Bombay 1.

Ditto Incorporated, Chicago, U.S.A. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

DUMPERS

Foden Ltd., Sandbach. Dumpers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Road Machines (Drayton) Ltd., West Drayton, Middlessex, England. Weigh-batchers, Dumpers and Monorail Transporters. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

DUST EXTRACTION EQUIPMENT

Dallow Lambert & Co., Ltd., Thurmaston, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

DYESTUFFS

China National Import & Export Corporation, Tientsin, China. Sole Agents in India: Hooseinbhoy A. Lalljee & Sons, Navsari Bldg., Dadabhoy Naoroji Road, Bombay 1.

FARBENFABRIKEN BAYER AKTIENGESELLSCHAFT, Leverkusen, Germany. Manufacturers of Coal-tar Dyes. Sole Distributors: Chika Private Ltd., Mehta Chambers, 13, Mathew Road, Bombay 4. Phone: 38091/95. Grams: "DYECOLD".

L. B. HOLLIDAY & CO. LTD., Huddersfield, England. Sole Agents for India, Amritlal & Co. Private Ltd., 11, Sprott Road, Ballard Estate, Fort.

EARTHMOVING EQUIPMENTS

Aveling Barford Ltd., Invicta Works, Grantham, England. Motor & Diesel Road Rollers, Dumper Trucks, Trench-Diggers, Calf-Dozers, Graders, Crushing & Screening Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Blaw Knox Ltd., London. Bulldozers, Scrapers, Rooters, Tamping Rollers, Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Curtiss-Wright Corpn., New York, Earth-moving equipment, Construction machinery. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Euclid Division General Motors Overseas Operations, U.S.A. Rear Dumps, Bottom Dumps, Scrapes, etc. Sole Agents: Blackwood Hodge (India) Private Ltd., Lotus House, Marine Lines, Bombay 1.

International Harvester Export Co., U.S.A., U.K., Australia and Associates; Crawler and Wheel Tractors, Bulldozers, Bull-graders, Scrapers, Tractor Shovels etc., Sole Distributors: Voltas Limited. Ballard Estate, Bombay 1.

LeTourneau-Westinghouse Company, Peoria, Illinois, U.S.A. Adams Motor Graders, etc. Sole Distributors: William Jacks & Co.. Ltd., Hamilton House, Graham Road, Ballard Estate.

Mack Trucks Inc., 1355 West Front Street, Plainfield, New Jersey, U.S.A. Rear End Dumpers, Truck Tractors and for heavy duty trailer transport, Heavy Duty Trucks. Sole Distributors: Voltas Ltd., Chinchpokli Road, Bombay 12.

Ruston-Bucyrus, Ltd., Lincoln, England and Bucyrus-Erie Company, South Milwaukee, Wisconsin, U.S.A. Excavating Machinery, Well and Blast Hole Drills, Hydro Cranes. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

EARTHMOVING MACHINERY, CRANES

Fiorentini & Co., Ing. F., Italy. Agents for Western India: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

EDUCATIONAL FILMS

Bray Studios Inc., 729 Seventh Avenue, New York, 19, N.Y. Sole Agents: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

Czechoslovak Films, Prague, Sole Agents: National Education & Informations Films Ltd., National House, Apollo Bunder, Bombay.

Common Ground Ltd., Sydney Place, London, S.W. 7. Sole Agents: National Education and Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Coronet Instructional Films, Coronet Building, Chicago, U.S.A. Sole Distributors: National Education & Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Edited Pictures System (E.P.S. Instructional Films), 165 West, 46th Street, New York 19. Sole Agents: National Education & Information Films Ltd., National House, Tulloch Road, Apollo Bunder, Bombay.

Indiana University, Blomington (U.S.A.), Sole Distributors for 16 mm. films. National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

McGraw-Hill Book Co., New York. Distributors of McGraw-Hill Textfilms: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

Moody Institute of Science, Los Angeles, Distributors: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay 1.

National Film Board of Canada, Montreal (Canada). Sole Distributors for 16 mm. Films and Filmstrips: National Education & Information Films Ltd., National House, Apollo Bunder, Bombay.

United World Films Inc., New York. Distributors: National Education & Information Films Ltd., Apollo Bunder, Bombay.

ELECTRIC CONTROL GEAR

Allen West & Co. Ltd., Motor Control Gear of all descriptions. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

ELECTRIC HOUSE SERVICE METERS

Uher & Co., Vienna, Austria. Agents: India Metal Agencies, India House, Fort Street, Bombay 1.

ELECTRIC LAMPS

A.E.I. Lamp & Lighting Co., Ltd., London. Electric Lamps, "Ediswan". Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494. Grams: "BALMER".

ELECTRIC MOTORS

Brook Motors Ltd., Huddersfield. A. C. Motors of all types and sizes. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hugh J. Scott & Co. (Belfast) Ltd., Ireland. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

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ELECTRIC THERMOSTATS

ROBERT MACLAREN & CO., LTD., Eglinton Works, Kilbirnie Street, Glasgow, C. 5. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

G. Bauknecht GmbH., West Germany. Manufacturers of Quality Trifix. Kitchen Machines. Sole Agents in India: Jhaveri Bros. & Co. Private Ltd. (Estd. 1914), 345, Abdul Rehman Street, Opp. Crawford Market, Bombay 3 (India). Grams: "GIFTS".

ELECTRICAL GOODS & APPLIANCES

Artic Fuse & Electrical Mfg. Co., Ltd., Birtley Co., Durham, England. Knife Switches, H.R.C. Cartridge and Fuse Wire Type Switchboard Pattern Fuses, Ironclad Switchgear, etc. Agents: Greaves Cotton & Crompton Parkinson, Ltd., 1, Forbes Street, Bombay 1.

Beanwy Electric Ltd., England. Exhaust Fans. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Belling & Co., Ltd., Southbury Road, Enfield, Middlesex, England. Electric Cookers & Heaters. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay.

Black & Decker Mfg. Co., Towson, Maryland, U.S.A. Portable Electric Tools, etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Black & Decker Ltd., Harmondsworth, Middlesex, England. Portable Electric Tools, etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Bullers Ltd., Milton, Staffs, England. Porcelain Insulators, etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Cooke & Ferguson, Ltd., Openshaw, Manchester, England. High Tension Switchgear. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Crompton Parkinson Ltd., Crompton House, Aldwych, London, W.C. 2, England. Electrical Machinery, Lamps, Fans, Batteries, Wires, Cables, etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Dubilier Condenser Co. (1925) Ltd., North Acton, London, W.3., England. Static Capacitors. etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

E. & E. Kaye Ltd., England. Bare Copper Strips, Plain and Enamelled D.C.C. & S.C.C. Wires. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

ELECTRIC TRANSMISSION LTD., England. Outdoor Switchgear and Fuses. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Electrical Apparatus Co., Ltd., The St. Albans, England. Electric Control Gear. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Gent & Co., Ltd., Faraday Works, Leicester, England. Electrical Clocks and Signalling Apparatus. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

H. K. PORTER COMPANY, INC. Delta-Star Electric Division, Lynchburg, va. U.S.A. : Crystal Valve Lightning Arresters; Sole Agents: Johnson & Phillips, Ltd., Kaiser-I-Hind Building, Currimbhoy Road, Ballard Estate, Bombay.

Horstmann Gear Co., Ltd., Bath, England. "H.B.E." Electric Time Switches. Sole Agents: Johnson & Phillips Ltd., "Kaiser-i-Hind" Building, Currimbhoy Road, Ballard Estate.

LANDIS & GYR. LTD., London, W. 3, England. Electricity Meters. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

Landis & Gyr, Ltd., Zug (Switzerland). Electricity Meters, Time Switches. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

P. R. Mallory & Co., Inc. Indianapolis, 6, Indiana, U.S.A. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Morgan Crucible Co., Ltd., Battersea Church Road, London, S.W.11, England. Carbon and Morganite Brushes. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Nalder Bros. & Thompson Ltd., England. Electrical Measuring Instruments. Sole Agents: Johnson & Phillips Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate.

N. V. Pope's Draad-en Lampen Fabrieken, Holland. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Reyrolle, A., & Co. Ltd., Hebburn Co., Durham, England. Plugs Sockets, Switch-Sockets and Plugs, Switch-Fuse-Sockets & Plugs, etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Richard Johnson & Nephew Ltd., Forge Lane, Manchester 11, England. Steel Cored Aluminium Conductor. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Simplex Electric Co. Ltd., P.O. Box No. 8, Birmingham, England. Iron clad Switchgear and Switch fuse gear. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

S. O. Bowker Ltd., England. "TENBY" Pilot 4 amps. Tumbler Switches and Electrical Accessories. Agents: Armstrong Smith Private Ltd., 1, Sir P. M Road, Bombay 1.

Switchgear & Equipment Ltd., Banbury, Oxon, England. L. T. & H. T. Switchgear & Fusegear, Overhead Line Switchgear, etc. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Thomas & Son (Worcester) Ltd., Worcester, England. "Climax" Piston pumps. Agents: Greaves Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

Walsall Conduits Ltd., West Bromwich, England. Conduit. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Wardle Engineering Co., England. Industrial lighting, Floodlights & Fittings. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

W. H. Keys Ltd., England, "Mastico" Electrical Insulating Compounds & Varnishes. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

ELECTRICAL INSTRUMENTS AND APPLIANCES

Alan H. Reid, Melbourne, Australia. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Nuclear Engineering Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

ELECTRICAL MOTOR CONTROL GEAR

BROOKHIRST AND IGRANIC WORKS BEDFORD LTD., Northgate Works, Chester, England. (Electric Motor Control Gear and Auxiliaries). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

ELECTRICAL PLANT

Asea, Vasteras, Sweden. Manufacturers of all types of electrical machinery and apparatus for power purposes. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

Brown, Boveri & Co., Ltd., Baden, (Switzerland). Steam Turbine and Electrical Machinery Apparatus of every description. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Bruce Peebles & Co. Ltd., Edinburgh. Electrical Machinery, Transformers, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ELECTRICAL & ELECTRONIC TEST INSTRUMENTS

Avo Ltd., 92-96, Vauxhall Bridge Road, London. S.W. 1. England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Sangamo Weston Ltd., Great Cambridge Road, Middlesex, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL RESISTANCE ALLOYS, NICHROME, ETC.

British Driver-Harris Co. Ltd., Cheshire 15, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Driver-Harris Company Harrison, New Jersey, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRICAL SYSTEMS

Aircraft Marine Products Ltd., Amplo House, 87-89, Saffton Hill, London W. 1, England. All sizes of solderless terminals and connectors for electrical wiring systems with associated hand, hand hydraulic and automatic machine tooling. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

ELECTRICAL SWITCHES AND FUSES

Arrow Electric Switches Ltd., Hanger Lane, Ealing, England, London. W 5. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

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ELECTRICAL SWITCHGEAR

Dorman & Smith Limited, Electric Switchfuses, Rewirable & H.R.C. fuses, Miniature Circuit Breakers, Lighting Fittings, Plugs and Sockets—Contact: Ratansi Morarji Private Limited, Post Box No. 1270, Bombay.

Erskine Heap & Co., Ltd., Manchester, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Midland Electric Mfg. Co. Ltd., England. MEM. Switch Products. *Agents:* Richardson & Cruddas Ltd., Byculla, Bombay 8.

M. & C. Switchgear Ltd., Glasgow. Electrical Switchgear. Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Yorkshire Switchgear & Engineering Co. Limited, Meanwood, Leeds 6, England. Manufacturers of Metalclad H. V. Switchgear. Representatives: Asea Electric India Private Limited, Yaffi Building, Goa Street, Ballard Estate.

ELECTRICAL WIRES & CABLES

Manufactures De Cables Electriques Eupen, Belgium. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRODES

Cooper & Turner Ltd., Vulcan Works, Vulcan Road, Sheffield, England. Sole Agents: Datson, Raviraj & Co., Private Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

Murex Welding Processes Ltd., Waltham Cross, Herts. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Union Carbide International Company, New York 17, N.Y. (U.S.A.). Acheson Graphite and National Carbon Electrodes. Representatives in India: Voltas Limited, Ballard Estate, Bombay 1.

Weldcraft Ltd., 26, Purley Way, Croydon, England. Manufacturers of "Bronzecraft" Low Temperature Welding Rods. Sole Agents: Datson Raviraj & Co., Private Ltd., 43, Tamarind Lane, Fort.

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ELECTRONIC APPARATUS FOR RESEARCH & INDUSTRY

Allen B. Du Mont Laboratories, Inc. International Division, 515, Madison Avenue, New York, 22 N.Y., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Blackburn Electronics Ltd., Brough, Yorkshire, England. Industrial electronic equipment including date measuring, display and logging equipment; control engineering and servo systems, analogue computers, digital computers, general system engineering electronic equipment etc.; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Boonton Radio Corp., Boonton, New Jersey, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Cosser Communications Co., Ltd., Honeypot Lane, Stanmore, Middlesex, England. VHF fixed station and mobile transmitter/receiver equipment, HF mobile transmitter/receiver, equipment, motor cycle R/T equipment, VHF transmitter/receiver pack sets, VHF marine radio telephone, VHF receivers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Cossar Radar & Electronics Ltd., Elizabeth Way, The Pinnacles, Harlow, Essex, England. Air surveillance radar, meteorological radar, ground and airborne secondary surveillance radar, ground and airborne gee navigational equipment, display systems, delay lines, printed waveguides. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Dynatron Radio Ltd., St. Peter's Road, Furze Path, Maidenhead, Berkshire, England. Scaling Units, pulse analyers, pulse amplifiers, portable scalers, power units, coincidence units, timing units, clinical monitors and accessories, cabinet racks and other ancillary equipments. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Ekco Electronics Ltd., Malmsbury, Wiltshire, England. Amplifiers, ratemeters, Scalers, scintillation counters, radiation monitors, electrometers, Thickness gauges, density gauges, power units, airborne weather radar automatic direction finding equipment, transistorised power supply. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Sperry Gyroscope Co. Ltd., Brentford, Middlesex, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Sperry Gyroscope Co. Division of the Sperry Rand Corporation. Great Neck, New York, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Ultra Electronics Ltd., Western Avenue, Acton, London W. 3, England. Search rescue and homing equipment, communication control equipment, engine condition analyser, temperature streak detector, phase failure and under voltage protector, remote warning system, static read-write head, transistor power conventor unit, cabin address amplifier, temperature trip amplifier, throttle control amplifier, jet pipe temperature control amplifier, transistor power units. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

ELECTRONIC APPARATUS & RADIO BROADCASTING & COMMUNICATION EQUIPMENT

Westinghouse Trading Co. (Asia) Ltd., 40 Wall Street, New York, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTRONIC EQUIPMENT AND INSTRUMENTS

Brush Instruments. 3405, Perkins Avenue, Cleveland 14, Ohio, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Electronic Instruments Ltd., Surrey, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

General Radio Company, 275, Massachusetts Avenue, Cambridge 39, Mass., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

ELECTROPLATING & POLISHING EQUIPMENTS

R. Cruickshank Ltd., Camden St., Birmingham 1. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Bombay 1.

W. Canning & Co., Ltd., Birmingham, England. Agents and Chief Distributors: S. Mitra & Co., 187, Dr. Dadabhoy Naoroji Road, Bombay 1. Grams: "Mudeshi."

ENGINEERING

Aerex Ltd., 46, Rutland Park, Sheffield. Mine Ventilating Fans. Agents: Balmer Lawrie & Co. Ltd., 5, Graham Road, Ballard Estate, Fort, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Ashworth & Parker, Ltd., Bury, Lancs. High Speed Steam Engines and Accessories. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Beck & Co. (Meters) Ltd., etc. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Craven Bros. Crane Division, Ltd., Loughborough. Breakdown and Railway Cranes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Head, Wrightson & Co., Ltd., Stockton Forge Division, Stockton-on-Tees, England. Ore mining and Treatment Plant, Coal mining and Treatment Plant. Selling Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Hick Hargreaves & Co., Ltd., Steam Engine: and Turbo Generators. Representatives W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Hoffman Sprinkler Co., Ltd., Manchester. Specialists. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Hopkinson, Ltd., Huddersfield. Mountings and Fittings for all classes of Engines and Boilers, Steam, Air and Oil Valves, Oil Purifiers. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Kent, George, Ltd., Biscot Road. Works Luton, Beds. Steam, Water, Air and Oil Meters and Recorders. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lister & Co. (R. A.), Dursley, Glos. Auto Trucks. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Morris (Herbert), Ltd., Loughborough. Hand & Electric Cranes, Pulley Blocks, Runaways, Stacking Machines, Lifts, Conveyors, Elevators, and all types of Mechanical Handling Equipments. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Norris, Henty & Gardner, Ltd., High Speed Oil Engines. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Power Plant Co., Ltd., England. Agents: Balmer, Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Renold Chain Ltd., Didsbury, Manchester. Chains, Chain Drives, etc. Sole Representatives for India: W. H. Brady & Co., Limited, 12/14, Veer Nariman Road, Fort, Bombay 1.

Richard Klinger Ltd., Klinger Engineering specialities. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ultra Lens Company, The, London, E.C. 2. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Veeder-Root Ltd., Hartford, U.S.A. Counters. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

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Weir, G. & J., Ltd., Glasgow. Pumps & Power Plant Auxiliaries. Refrigeration Plant. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wells, A. C., & Company Ltd., Manchester, Wells Oil Filters. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

ENGINEERING STORES & HARDWARE

Britool Limited. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Cumbrian Tools Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd. 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

Dicks Asbestos and Insulating Co., Ltd., Asbestos Packings. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Dixon (Joseph), Crucible Co., Graphite Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Elliott-Lucas Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd. 1-2, Lakshmi Building, Sir P. M. Road, Fort, Bombay.

James Neill & Co. (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

J. E. Baty & Co., Ltd., Burgess Hill, Sussex. Representative: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir Phirozshah Mehta Road, Bombay 1.

Nicholson File Co., Providence, U.S.A. Files and Rasps. Wholesale Representatives in Bombay State: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Sheffield Turist Drill & Steel Co., Ltd., England. Representative: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

Signode Steel Strapping Co., Chicago. "Signode System" of Strapping and Seals. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Taylor Brothers (Saws) Ltd., England. Representative: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Fort, Bombay 1.

Thor Hammer Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Tom Carrington & Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Wm. Gilpin Senr. & Co. (Tools) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Fort, Bombay.

ESSENTIAL OILS

Bruno Court, S. A. Jean Rouke & Cie, Grasse (France). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "Discovery".

Destilaciones Bordas Chinchureta, S.A., Seville, Spain. Essential Oils. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Destilaciones Garcia De la Fuente S.A., Granada (Spain). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

Dragoco-Holzminden., W. Germany. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

ESROLKO LTD. (formerly FLORA), Switzerland. Mfrs. of Synthetic Essential Oils & Aromatic Chemicals. Agents: M. C. Davar & Co., 143, Princess Street, Bombay 2. Phone: 39752, Grams: "EMCIDAVAR".

Holland-China Trading Co. Ltd., Hongkong. Indenting Agents: Aromatic Products and Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Navroji Road, Fort, Bombay 1. Grams: "DISCOVERY".

Jean A. du Crocq Jr. N. V., Huizen N. H., Holland. Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhoy Naoroji Road, P.B. No. 1065, Bombay 1.

L. Russo & Figlio, Messina (Italy). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY."

M. M. Hatherbacha & Co., Penang, Malaya. Agents: M. C. Davar & Co., 143, Princess Street, Bombay 2. Phone: 39752, Grams: "EMCIDAVAR".

N. V. Chemische Fabrick "FLEBO" Hoogezand (Holland). Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY".

P. Roberte & Cie, Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Takasago Perfumery Co. Ltd., Tokyo, Japan. Sole Agents: Aromatic Products & Chemicals Private Ltd., 42, Prospect Chambers Annexe, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "DISCOVERY".

EXCAVATING MACHINERY MANUFACTURERS

Blaw Knox Ltd., London. Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Harnischfeger Corporation International Division, Milwaukee, Wisconsin, U.S.A. Power Shovels, Dragliners, Cranes, Clamshells and Soil Stabilizers. Sole Distributors: Voltas Ltd., Chinchpokli Road, Bombay 12.

Thomas Smith & Sons (Rodley) Ltd., Rodley. Excavators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

FACTORY AND CALENDAR CLOCKS

Solari Remici O. & C. (Italy). Agents: for India: Essential Engineering Co., Botawalla Building, Horniman Circle, Fort, Bombay.

FANS

Blackman Export Co., Ltd., London. Industrial Fans and Blowers. Sole Agents: Marshall Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

FINE PAPERS

TERVAKOSKI OSAKEYHTIO PAPER MILLS, Tervakoski, Finland. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

FIRE ENGINES AND APPLIANCES MANUFACTURERS

Coventry Climax Engines, Ltd., Widdrington Road Works, Coventry (ENGLAND). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Dennis Bros. Ltd., Guildford, Surrey, England. Dennis' Motor, Fire Engines and Trailer Pumps. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

Merryweather & Sons, Ltd., Greenwich, London. Fire Engines & Appliances. Agents: Balmer Lawrie & Co., Ltd. 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Read & Compbell Ltd., 75, Victoria Street, Westminster, London S.W. 1 (ENGLAND). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Walter Kidde Co., England. Fire Extinguishers and built-up systems. Agents: Roberts McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

FIRE FIGHTING APPLIANCES

Albion Motor Co., Sweden. Sole Agents: National Fire Equipment Co., 11 Bank Street, Bombay 1.

Firewater Company, 1, First Street, Los Altos, California (U.S.A.). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

H. Christoferson & Co., Gotebrurg, Sweden. Agents: National Fire Equipment Co., 11, Bank Street, Fort, Bombay 1.

James Hendry Ltd., 252 Main Street, Bridgeton, Glasgow, S.E. (ENGLAND). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Koehler Mfg. Co., Marlboro, Massachusetts (U.S.A.). Sole Agents: Kooverji Devshi & Co., Private Ltd., 164, Lohar Street, Bombay 2.

Mandals Reberbane Mandals Reberbane Ch. & Co., Oslo, Norway. Sole Agents; National Fire Equipment Co., 11, Bank Street, Fort, Bombay 1.

Total Export G.m.b.H., Mannheim. Germany. Sole Agents: National Fire Equipment Co., 11, Bank Street, Fort, Bombay 1.

FISH (PRESERVED)

Seafood Products Ltd., Vancouver. Frozen Fish. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Stavanger Preserving Co., A.S. Canned Fish. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

FLAME GUNS & BURNERS

Hauck Manufacturing Co., U.S.A. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

FLAVOURING & PERFUMERY RAW MATERIALS

Jean A. du Crocq Jr. N. V., Huizen N. H. Holland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

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FLOOR HARDENING COMPOUND

Ironite Co., Ltd., 4, Holbeine Place, Sloane Square, London, S.W. 1. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

FLOUR MILLING PLANT & MACHINERY

E. R. & F. Turner Ltd., England. Complete Flour Milling Plant and Machinery. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

FORGINGS AND STAMPINGS FOR RAILWAYS

COMPTOIR DES FERRURES, CHARLEVILLE (ARDENNES), France. Manufacturers of Component Parts of Machinery, Rolling Stock, etc. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

USINES ET ACIERIES DE SAMBRE ET MEUSE, Paris, France. Steel Castings, Carbon Steel and Alloy Steel. Railroad Parts, Armament Products, Aircraft Bombs, Machinery, etc. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

FORK LIFT TRUCKS

Automatic Transportation Company, Chicago, U.S.A. Electric Automatic Industrial Fork Lift Truck. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Coventry Climax Engines Ltd., Widdrington Road Works, Coventry. Fork Lift Trucks, etc. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Yale & Towne Manufacturing Co., U.S.A., U.K., Germany and Associates. Industrial Fork Lift Trucks and Hoists. Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

FOUNDRY MATERIAL & EQUIPMENT

A. STOTZ, A. G., W. Germany, Manufacturers of Sand Conditioning & Foundry Mechanisation Plants. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

Foseco International Ltd., Long Acre, Nechells, Birmingham, 7, England. Foundry Fluxes for use in the founding of light alloys, non-ferrous and ferrous metals. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

GUSTAVE ZIMMERMANN MASCHINENFABRIK, G.m.b.H., W. Germany. Manufacturers of famous Zimmermann Moulding Machines. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

Hauck Manufacturing Co., U.S.A. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

HESONWERK, Germany. Manufacturers of Moulding Boxes etc. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

J. S. FRIES—Sohn, Germany. Manufacturers of "Fries" Pressure Die-Casting Machines, Continuous Billet Casting Machines. Dealers in India: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

Morgan Crucible Co. Ltd., The, Battersea Church Road, London, S.W. 11. Morgan's tilting and Lift-out Furnaces—Coke and Oil-fired, Crucibles and Accessories, Plumbago and Patching Materials, Refractory-ware and other allied articles. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Newton Chambers & Co., Ltd., Thorncliffe. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Robinson Major & Co., Manchester. Manufacturers of "SCOLS" Iron Cement, Pipe Joint Compound, Tube and Bar Bending Machines. Sole Agents: J. D. Jones & Co. (Bombay), Private Ltd., Rustom Building, Vir Nariman Street, Fort.

FOUNTAIN PEN

Montblanc Simplo GmbH.—Germany. Manufacturers of Quality Writing Instruments, Pens, Pencils, Desk-sets & Ink. Sole Agents in India:—Jhaveri Bros. & Co., Private Ltd. (Established 1914), 345, Abdul Rehman Street, Opp. Crawford Market, Bombay 3 (India). Grams: "MONTBLANC."

FRUIT JUICES AND EXTRACTS

H. D. Davies & Co., Ltd., 98/100 Bishopsgate, London E.C. 2. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

E. I. Michel & Co., Ltd., 415, Oxford Street, London W.I. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

FUEL INJECTION SERVICING EQUIPMENT

Leslie Hartridge, England. Fuel Injection Servicing Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

FURNACES

Efco Furnaces Ltd., Weybridge, Surrey. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay 1.

Foundry & Metallurgical Equipment Co. Ltd., 161, Queens Road, Weybridge, Surrey. Die-Casting Equipment and Furnaces. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

Furnace Construction Co., Birmingham, England. All kinds of Furnaces. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

G. W. B. Furnaces Ltd., England. (Manufacturers of large Electric Furnaces). Sole Agents: Indian Furnace Co., Private Ltd., Lotus Cinema Buildings, Dr. Annie Besant Road, Bombay 18.

ING. LEONE TAGLIAFERRI & CO. Sp. A., Italy. For Direct, Indirect and Submerged Arc Electric Furnaces for Melting and Smelting ferrous and non-ferrous metals. Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

Morgan Crucible Co. Ltd., The, Battersea Church Road, London, S.W. 11. Morgan's tilting and Lift-out Furnaces, Oil and Coke-fired. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

OTTO-JUNKER, G. m. b. H., Germany. For Electric Steel Melting and Heat Treatment Furnaces. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

SKLENAR FURNACES LTD., Cardiff, U.K. Melting Furnaces, Reverberatory—Capacity 25 lb. to 5 tons—oil, coke and gas fired. Also Holding Furnaces. Sole Agents and Manufacturing Licensees in India: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

Stein & Atkinson Ltd., Westminster House, Kew Road, Richmond, Surrey. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Thermic Equipment and Engineering Co. Ltd., England. Sole Agents in India: Indian Furnace Co., Private Ltd., Lotus Cinema Buildings, Dr. Annie Besant Road, Bombay 18.

Wild-Barfield Electric Furnaces Ltd., England. Associated Company in India: Indian Furnace Co., Private Ltd., Lotus Cinema Buildings, Dr. Annie Besant Road, Bombay 18.

GARAGE EQUIPMENT

B. O. Morris Ltd., England. "Morrisflex" Flexible Shaft Equipment for Motor Garages, Workshops and for Boiler Descaling Agents: Armstrong Smith Private Ltd., Sir P. M. Road, Bombay 1.

Barrett Equipment Co., U.S.A. Brake Drum Lathes, Brake Relining Machines, Hydraulic Brake Bleeder & Filler Tanks. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Bear Manufacturing Co., U.S.A. Wheel Alignment and other Automotive Testing Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Black & Decker Ltd., England. "UTILITY" Portable Electric Tools, Valve Refacers, Vibrocentric Kits, Bench & Portable Grinders, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Britool Limited, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

C. & E. Fein, Germany. Heavy Duty Portable Electric Drills with Universal Motors, 440 volts AC. Drills, Slow Speed Drills, Multispeed Drills, Right Angle Drills and Attachments, Screw Drivers, Impact Wrenches, Valve Grinders, Tappers, Tool Post & Precision Lathe Grinders, Brake Drum & Journal Grinders, Shears, Nibblers, Pipe Cutting Saws, Stone (Rock) Drilling Machines, Hammers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Churchill, V. L., & Co., Great South West Road, Bedfont, Faltham, Middlesex. Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

Clayton Manufacturing Co., U.S.A. CLAYTON Engine and Chassis Dynamo meters. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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De Vilbiss Company, Ohio, U.S.A. Air Compressing & Spray Painting Outfits, Hose, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Hall-Toledo (Division of Baker Bros. Inc.), U.S.A. Production Valve Seat Grinders, Eccentric Grinders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Harvey Frost & Co. Ltd., England. Garage Tools, Jacks, Tyre Changers, Vulcanising Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Homestead Valve Mfg. Co. Ltd., U.S.A. Hypressure Steam Jennys & Compounds. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Joseph Bradbury & Sons Ltd., England. Garage Equipment, Jacks, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Lisle Corporation, U.S.A. Cylinder Honing Machines, Wet Honing Machines, Ridge Reamers, Rod Aligners, Glaze Brakers, Garage Tools. Also "Lisle" MAGNETIC PLUGS. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Rogers Wilson & Co. Ltd., England. Tyre Retreading Plants and Accessories. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Taylor & Jones Ltd., England. "T & J" Expanding Reamers and Tool Holders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Tecalemit Ltd., Brentford, U.K. Agents: Tecalemit (India) Ltd., 9, Forbes Street, Fort, Bombay.

Van Norman Co., U.S.A. Cylinder Boring Bars, Crankshaft Regrinders, Horizontal Surface Grinders, Automatic Wet Honer, Super Rotary Surface Grinder, Con-Rod Boring Machine, Piston Turning & Grinding Machines, Race-way Grinding Machines, Special purpose Milling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GAS CUTTING MACHINERY

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

GAS TURBINES

Blackburn Engines Ltd., Brough, Yorkshire, England. Piston aero engines from 150 to 180 h.p., gas turbine engines from 325 to 1200 s.h.p., gas turbine ground starting equipment and airborne auxiliary power units. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Ruston & Hornsby Ltd., Lincoln, England. Gas Turbines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

GAUGES & INSTRUMENTS

BRITISH STEAM SPECIALITIES LTD., Leicester, England. Manufacturers of Pressure Vacuum and Hydraulic Gauges. Agents: Gaytee & Company, Janmabhoomi Chambers, Fort Street, Fort. Phone: 263449. Grams: "IMPENG."

Coley Thermometers Ltd., Brentford, Middlesex. Thermometers & Pressure Gauges. Sole Concessionaires: Greaves Cotton & Co., Ltd., Forbes Street, Fort, Bombay.

Dobbie McInnes Ltd., Glasgow. Engine Indicators & Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

J. E. Baty & Co., Ltd., Burgess Hill, Sussex. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Joseph Tormey & Sons Ltd., England. Gauge glasses, Pressure-Vacuum & Temperature Gauges. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

GEARS

David Brown Corporation (Sales) Ltd, Huddersfield, England. All types of open Gearing, Totally enclosed Gear units, Automobile Gears, Geared Motors. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

GENERATING SETS

Hampson Industries Ltd., West Bromwich. Generating Sets. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

GLASS-CRETE BLOCKS

King, J. A., & Co., Ltd., Bridge House, 181, Queen Victoria Street, London, E.C. 4. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

GLUCOSE AND STARCH MANUFACTURERS

Irving R. Boody & Co., Inc., New York. Liquid Glucose 45° Baume. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

GRAPHITE

Great Lakes Carbon Corporation, U.S.A. Mfrs. of Graphite Electrodes for Arc Furnaces and anodes for Caustic Soda Cells and other Graphite products. Sole Agents: Indian Furnaces Co. Private Ltd., Lotus Cinema Building, Dr. Annie Besant Road, Bombay 18.

GRINDERS

Snow & Co., Ltd. Sheffield. Surface Grinders. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

HARDWARE

Britool Limited, Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay.

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Cumbrain Tools Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

Elliott-Lucas Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay.

J. E. Baty & Co., Ltd., Burgess Hill, Sussex Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

James Neill & Co. (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

Sheffield Twist Drill & Steel Co. Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay.

Taylor Brothers (Saws) Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay.

Thor Hammer Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay.

Tom Carrington & Co., Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Wm. Gilpin Senr. & Co. (Tools) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Fort, Bombay.

HEAVY CHEMICALS

Barter Trading Corp. Ltd., 14, Waterloo Place, London S.W. 1. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

HOISTING MACHINERY

Rowland Priests & Co. Ltd., England. Pulley Blocks, Mechanical & Hydraulic Lifting & Traversing Jacks & Other Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

HOSPITAL EQUIPMENT (MFRS.)

Manlove Alliott & Co., Ltd., Nottingham. Manufacturers of Sterilizers, Disinfectors, Laundry Equipment, Oil Mill Machinery, etc. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

HYDRAULIC JACKS

Epco Ltd., Leeds 7, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

HYDRAULIC MACHINERY

Gilbert, Gikes, Gordon Ltd., Kendal, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

John Blake Ltd., Accrington, Hydram Water Raisers. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Leeds Engineering & Hydraulic Co., Ltd., Leeds. Makers of Hydraulic Machinery. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Small & Parkes Ltd., England, Karmal Engine and Hydraulic Packings and Fepco Jointings. Sole Agents: Alcock Ashdown & Co., Ltd., Defence Works, Mazgaon, Bombay 10.

INDUSTRIAL CHEMICAL & GAS

Humphreys & Glasgow Ltd., London. Agents: Killick, Nixon & Co. Private Ltd.

INDUSTRIAL EQUIPMENT (MANUFACTURERS)

TEDDINGTON INDUSTRIAL EQUIPMENT LTD., Windmill Road, Sunbury-on-Thames, Middlesex. Manufacturers of Industrial Control Equipment. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

INDUSTRIAL INSTRUMENTS

HARRY W. DIETERT, INC., Detroit, U.S.A. Manufacturers of Sand Testing Equipment. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

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RIDSDALE & CO., U.K., Manufacturers of Sand Testing Equipment. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

STROHLEIN & CO., Dusseldorf, Germany, for Analytical Instruments for Iron, Steel and other metallurgical Industries. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

W. & L. E. Gurley Troy, New York, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

INDUSTRIAL INSTRUMENTS AND STEAM LINE ACCESSORIES

Drayton Regulator & Instrument Co. Ltd., West Drayton (Middlesex, England). Steam Traps & Steam Line Accessories, Instruments for Measuring, Regulating or Controlling Temperature, Pressure and Draught. Electrically and hydraulically operated valves, metal bellows. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

INDUSTRIAL PRESSES

Clearing Machine Corporation, Chicago 38, Illinois, U.S.A. (Mechanical and Hydraulic Power presses and Press Brakes). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

INDUSTRIAL TRUCKS

Withers (Industrial Trucks) Ltd., Wordsley, Staurbridge, Worcestershire, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

INSULATING BOARD & MATERIAL

Continental Diamond Fibre Company, Bridgeport, Pa., U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Diamond Fibre Co., Ltd., 59, Southward Street, London. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ioco Ltd., Anniesland, Glasgow. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Mo. & Domsjo Trading Co., Ltd., 47, Piccadilly, London, W. 1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

TOYO FIBRE CO., LTD., THE, 6, 1-Chome, Honcho, Nihonbashi, Chuo-Ku, Tokyo. Fibre Sheets, Rods, Tubes, Leatherod, etc. Agents: Chimanlal Shah & Co., 3-D, Mangaldas Road, Bombay 2.

INSULATORS (HIGH TENSION)

Hoverken, Bromolla, Sweden. Manufacturers of Porcelain Insulators. Representatives: Asea Electric India Private Limited, Yaffi Building, Goa Street, Ballard Estate.

INSURANCE COMPANIES

Alliance Assurance Co., Ltd., London. (Settlement of Marine Claims). Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

Baloise Fire Insurance Co., Ltd., Basle (Inc. in Switzerland). Agents: Volkart Brothers, Ballard Estate, Bombay.

British Law Insurance Co., Ltd., London (Settlement of Marine Claims). Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

Helvetia Swiss Fire Insurance Co., Ltd., St. Gall (Inc. in Switzerland). Agents: Volkart Brothers, Ballard Estate, Bombay.

Insurance Company of North America (Inc. in Pennsylvania, U.S.A.). Agents: Volkart Brothers, Ballard Estate, Bombay.

London Assurance, London (Fire & Marine). Agents: The Anglo-Thai Corporation Ltd., Ewart House, Bruce Street.

Northern Assurance Co., Ltd., London & Aberdeen (Inc. in Great Britain). Agents: Volkart Brothers, Ballard Estate, Bombay.

Prudential Assurance Co., Ltd., Holborn Bars, London, E.C. 1. All classes of Insurance. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Sea Insurance Co., Ltd., Exchange Buildings, Liverpool 2. Marine Claims Settling. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

INTER-COM SYSTEMS

Dictograph Telephones Ltd., Croydon, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

IRON, STEEL & BRASS

Hallamshire Steel Co., Ltd., Hallamshire Works, Sheffield 3, England. Sole Agents: H. Choksi & Co., Ltd., 106/108, Medows Street, Fort, Bombay.

Jessop-Saville Ltd., Triumph Steel Works, Sheffield. Mfrs. of High Speed Carbon & Alloy Tool Steels. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

W. T. Hawkins & Co., Huddersfield. Mfgrs. of Iron Cement. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

LABORATORY CHEMICALS & REAGENTS

Fine Chemicals of Canada Ltd., 124, Pharmacy Avenue, Toronto 13, Ontario, Canada. Agents for Maharashtra State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P. B. No. 1065, Bombay 1.

George T. Gurr Ltd., 136/138, New King's Road, London, S.W.6, England. Agents for Maharashtra State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

International Division Allied Chemical & Dye Corp., 40, Rector Street, New York 6, N. Y. Sole Agents for Maharashtra State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, P.B. No. 1065, Bombay 1.

LABORATORY EQUIPMENT

August Aauter, Ebingen, Germany. Balances for Research Laboratories and Industries. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Cambridge Instrument Co., Ltd., 13, Grosvenor Place, London, S.W.1. England. Mfrs. of Instruments for science and Industry. Distributors: J. T. Jagtiani, National House, Tulloch Road, Apollo Bunder, Bombay 1.

Chr. Beck & Sohne, K. G. Kassel, Germany. Manufacturers of Microscopes. Sole Agents for India: J. T. Jagtiani, National House, 6, Tulloch Road, Apollo Bunder, Bombay 1.

Difco Laboratories Inc., Michigan, U.S.A. Biological reagents and Culture media. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

EVERSHED & VIGNOLES LTD., London. Manufacturers of "TINSLEY" Polarographs. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

General Biological Supply House Inc., Chicago, U.S.A., Turtore prepared biological products viz. Slides, preserved Specimens, Skeletons, Models etc. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

H. STRUERS CHEMISKE LABORATORIUM, Denmark. Manufacturers of METALLOGRAPHIC Polishing Equipments. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

James A. Jobling & Co., Ltd., Sunderland, England. Pyrex brand heat Resisting Laboratory Glassware. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

James Jaquet, Switzerland, Physiology Instruments and Techometers. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Metrohm Ltd., Herisau, Switzerland. Mfrs. of pH-meters, titriscopes, polarometers. Sole Agents for India: J. T. Jagtiani, National House, Tulloch Road, Apollo Bunder, Bombay 1.

Metafiltration Co. Ltd., Hounslow, Middlesex. Metafilters for Laboratory and Industrial use. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir P. Mehta Road.

Nederlandsche Optieken Instrumentenfabriek, Dr. C. E. Bleaker N. V. ZEIST, Holland. Mfrs. of Phase-contrast microscopes, pocket refractometers. Sole Agents for India: J. T. Jagtiani, National House, Tulloch Road, Apollo Bunder, Bombay 1.

Precision Scientific Co., Chicago, U.S.A. Thermostatic Baths, Ovens, Incubators etc. and equipment for testing oils, Liquid Fuels etc. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

Thermostatic Controls Co., Avenue Road, Hampton, Middlesex, England. Mfrs. of Thermostats. Sole Agents for India: J. T. Jagtiani, National House, Tulloch Road, Apollo Bunder, Bombay 1.

W. Memmert, Konigplatr 17 und Aussere Tittersbacher Stresse 38a Postfach 24, Schwabach Forsthof Bayern, W. Germany. Mfrs. of Ovens and Incubators. Distributors: J. T. Jagtiani, National House, Tulloch Road, Apollo Bunder, Bombay 1.

Worcester Royal Porcelain Co., Ltd., Worcester, England. R.W.P. and Sillax brand Laboratory Porcelainware. Sole Agents: Ghordandas Desai Private Ltd., Kermani Bldg., Sir P. M. Road, Bombay 1.

LAMPS AND LANTERNS MANUFACTURERS

Tilley Lamp Co., Ltd., London. Patent Kerosene Floodlight Projectors. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road.

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LATCHES, LOCKS & SAFES

Cheney, C. W., & Son, Ltd., Factory Road, Hockley, Birmingham, 19. Agents: Soho House, Lohar Street, Bombay 2.

LEATHER & SKINS

John Ormerod & Sons Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Thomas Evans & Sons Ltd., Sawston, Cambridge. Agents: Soho House, Lohar Street, Bombay 2.

LEATHER BELTINGS

Edward Parker & Co., Ltd., England. Sole Agents: Alcock Ashdown & Co., Ltd., Defence Works, Mazgaon, Bombay 10.

LEATHER CLOTHS

Robert Pickles Ltd., Portsmouth Mill, Portsmouth, Near Todmordan. Agents: Soho House, Lohar Street, Bombay 2.

LIFE SAVING EQUIPMENT

R. F. D. Company Ltd., Catteshall Lane, Godalming, Surrey, England. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

Schermuly Pistol Rocket Apparatus Ltd., 51, Coleman Street, London E. C. 2. Agents: E. W. Stevens & Co. Private Ltd., 4, Ballard Road, Bombay 1.

LIFTS, ELEVATORS, CONVEYORS (ELECTRIC)

Christopher & Sons Ltd., J., London (Hoists & Winches). Sole Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

GIMSON ENGLAND, Electric Passenger & Goods Lifts. Sole Agents: Eastern Engineers, 1, Bruce Street, Raja Bahadur Compound, Fort, Bombay. Phone: 251810.

Marryat & Scott, London. Electric Passenger and Goods Lifts. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Rowland Priests & Co. Ltd., England. Pulley Blocks, Mechanical & Hydraulic Lifting & Traversing Jacks & Other Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

W. S. BARRON & SONS LTD., Gloucester, England, Manufacturers of Screw Lifts, Elevators & Conveyors. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

LINOLEUM

Tayside Floorcloth Co., Ltd., Newburgh, Fife, Scotland. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street.

LITHOGRAPHERS

Waterlow & Sons Ltd., 26/27, Gt. Winchester Street, London, E.C. 2. Protective Cheque Specialists, Bank Notes, Bond and Stamp Engravers. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

LOCOMOTIVE EQUIPMENT

Associated Locomotive Equipment Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

LOCOMOTIVES

Davey Paxman & Co., Ltd., Standard Iron Works, Colchester. Diesel Engines for Rail Traction in Locomotives and Railcars. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

G. Cesare Rauzi, Legnano, Italy. Sole Agents: India Metal Agencies, India House, Fort Street, Bombay 1.

NORTH BRITISH LOCOMOTIVE CO. LTD., 110, Flemington Street, Springburn, Glasgow, N. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Ruston & Hornsby Ltd., Lincoln. Narrow & Metre Gauge Diesel Locomotives and Broad Gauge Shunting Diesel Locomotives. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

LUBRICATING OILS AND GREASES

Acheson, Colloids Ltd., London. "Colloidal Graphite Products", 'Oildag', 'Aquadag', etc. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

A. E. Westwood Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Boler Petroleum Co., Philadelphia, U.S.A. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Edgar Vaughan & Co., Ltd., Birmingham. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Germ Lubricants Ltd., Salford, Manchester. (Lubricating Oils and Greases). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Ocean Oil Co. (1942) Ltd., Marine Engine Oils. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

LUBRICATION EQUIPMENT

Farvalube Ltd., England and The Farval Corporation, U.S.A., Lubricating System. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone No. 261494 (3 lines), Grams: "BALMER".

MACHINE TOOLS

A. A. Jones & Shipman Ltd., England. Universal & Semi-Universal Grinding Machines, Surface Grinders, Tool & Cutter Grinders etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Adcock & Shipley Ltd., England. Universal, Vertical and Horizontal Milling Machines and Attachments. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Alfred J. Amsler & Co., Switzerland. Testing Machines for all materials. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Anton Kirner, West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Armstrong Whitworth (Metal Industries) Ltd., England. Rolls for Rolling Mills and Tube Mills. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

B. M. W. Maschinenfabrik, Germany. Single Spindle Automatics, Gear Deburring Machines, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Bohner & Kohle 'BOKO' West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay.

B. S. A. Tools Ltd., England. Single & Multi-Spindle Automatic Screw Machines, Centreless Grinding Machines, Multi-Tool Lathes, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

C. & E. Fein, Germany. Portable Electric Tools. Agents in India: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Carl Hurth, West Germany. Tool Room Milling Machines, Key-way and Slot Milling Machines, Spline Shaft Milling Machines, Gear Chamfering Machines, Gear Speeders, Gear Shavers, Power Presses with Epicyclic Gear Drives. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Casati Ernesto & Figli (Caser), Italy. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Churchill-Redman Ltd., Parkinson Lane, Halifax. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Cincinnati Milling & Grinding Machines, Inc., Cincinnati, Ohio, U.S.A. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Cincinnati Milling & Grinding Machines Ltd., Woodlands Farm Road, Tyburn, Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Cincinnati Nederland N. V., Vlaardingen, Holland. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Compagnia Genovase D'Esportazione, Genoa, Italy. Agents: Kilburn & Co. Ltd., P. O. Box No. 565, Bombay 1.

Coventry Gauge & Tool Co. Ltd., England. *Machine Tools:* Jig Boring Machines, Tap Grinding Machines, Thread Grinders, Gear Grinders, Cylindrical Grinders, Broach Sharpening Machines, Tread Milling Machines, etc. *Measuring Instruments:* Floating Carriage Diameter Measuring Machines, "Micro-Maag" Internal Micrometers, Taper Measuring Machines, Pitch Measuring Machines, etc. *Gauges:* Gap Gauges, Caliper Gauges, Slip Gauges, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Craven Bros. (Manchester) Ltd., England. Railway Wheel Lathes, Axle Journal Re-Turning & Grinding Machines, and all types of Railway Machine Tools. Heavy Duty S.S. & S. C. Lathes, Gear Cutting Machines, Horizontal Boring Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Douglas Fraser & Sons Ltd., Scotland. Double ended Facing and Centering Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

E. H. Jones (M.T.) Ltd., England. British Built "Kearney & Tracker" MILWAUKEE Milling Machines, Vertical and Horizontal and Universal, Duplex, Simplex Die Making Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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Eitel K. G., West Germany. Hydraulic Presses various sizes. Capacity 5 tons to 500 tons. Sole Distributors: Voltas Ltd., Ballard Estate, Bombay 1.

Emil Sachs, Germany. Thicknessing Planner, Heavy Duty Smooth Planing, Jointing and Moulding Machines, Upright Chain Mortising machines, tenoning & Slotting Machines and other wood working machinery. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ernst Grob, Switzerland. Vertical Metal Cutting Band Saws. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ernst Grob, W. Germany. Thread Rolling Machines. Special purpose Unit heads and Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

F. B. Hatebur, Switzerland. Automatic Cold Bolt Formers, Automatic Cold and Hot Nut Formers. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

F. J. Edwards Ltd., England. Complete range of Sheet Metal Working Machinery. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Finlay Engineering Co., England. Hydraulic Cold Benders, Press Units, Rail & Grinder Presses, Hand Operated Press, Plate Section Presses, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Fischer, Karl Eugen, Germany. Press Brakes & Guillotine Shears. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Frederick Town & Sons Ltd., Halifax, England. Radial Drilling Machines, Vertical Drilling Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

George Fischer Ltd., Switzerland. Hydraulic Copying Lathes for Bar and Chucking Work. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Gildemeister & Co., West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

GV Nibbler & Company, Sweden. Nibblers, Cutting and Framing Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

H. A. Waldrich G. m. b. H., Siegen, W. Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Hans-Biel, Germany. Metal Spraying and Sand Blasting Equipment. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Herman Hilbert, Ramsched, Germany. Sole Agents: Tirathdas Kesharam, 130, Narayan Dhuru Street, Bombay 3.

Hermann Pfauter, West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Herminghausen Werke, G. m. b. H., West Germany. Precision Centreless Grinders and Polishers. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Hilgers Maschinenfabrik, Germany. Cold Tube Bending Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Innocenti S. G., Milan, Italy. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

J. E. Batty & Co., Ltd., Burgess Hill, Sussex. Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P.M. Road, Bombay 1.

James Neill & Co., (Sheffield) Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Johann Streicher K. G., W. Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Jungner, Svenska Ackumulator Aktiebolaget, Sweden. Universal Tool & Cutter Grinder Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kearney & Trecker Corpn., U.S.A. "Milwaukee" Milling Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Kitchen & Wade Ltd., Halifax, England. Drilling Machines. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Kjellberg-Eberle, G. m. b. H., West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Malmedie & Co., G.m.b.H., Germany. Wire Drawing Plant, Wire Nail Making Machines, Nut Presses, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Mannaioni Works, Italy. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Manurhin, France. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Murad Developments Ltd., England. High Speed Capstan Lathes, Double Ended 'Dustless' Grinders (the only Grinder in the world with built-in Dust Inhibitors). Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

National Acme Co., U. S. A. Multi-Spindle Bar Automatics. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Ned Grossmann, Holland. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Officine Meccaniche Ceruti, S. A., Italy. Horizontal Boring Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Officine Rino Berardi, Italy. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ormerod Shapers Ltd., Hebden Bridge, Yorks, England. Sole Agents: Heatly & Gresham Ltd., 9 Forbes Street, Fort.

Physik Instrument Huggenberger, Switzerland. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Pickles, John & Son (Engineers), Ltd., Hebden Bridge, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Planers (Huddersfield) Ltd., England. Planing Machines. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Prachoma-Werke Kehran & Co., West Germany. Sole Distributors: Voltas Ltd., Ballard Estate, Bombay 1.

Rems—Werke, West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Rex Nicols (Tools) Ltd., Birmingham, England. Nut Tapping Machines and Attachments. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

Rushworth & Co., England. Bar Cropping Machines, Punching & Shearing Machines, Guillotine Shearing Machines, Plate Bending & Straightening Rolls, Press Brakes. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Safag, S. A., Switzerland. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Samuel Denison & Son Ltd., England. Compression & Transverse Machine, Wire Twist & Tensile Testing Machines, Universal Machines, Fabric Testing Machines, Creep Testing Machines, Chain Testing Machines, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Schaudt Machinenbau G.m.b.H., W. Germany. Cylindrical internal, Universal, Camshaft, Jet Bore and Gear grinders. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Schiess—A. G., West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Scottish Machine Tool Corporation Ltd., Glasgow, U.K. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Sheffield Twist Drill & Steel Co., Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Societe Genevoise D'Instruments De Physique, Switzerland. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Standall Engineering Ltd., England. Forging Hammers, Air Compressor Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER."

Stenners of Tiverton Ltd., England. Log Band Mills, Band Rack Saws, Band Resaws, Saw Doctoring Equipment, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Sykes, W. E., Ltd., Manor Works, Staines, Middlesex, England. Hobbing and Gear Cutting Machine. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Tesa, S. A., Switzerland, Precision Measuring Instruments. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Thos. Firth & John Brown Ltd., Sheffield, England. Forged Steel Rolls for Rolling Mills. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

Tolimit Gauges, Ltd., England. Precision Thread and Plain Gauges. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Trumpf & Co., West Germany. Curve, Cutting out and Nibbling-Shears, Flexible Shaft Grinders. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Vertimax Ltd., Glasgow, Scotland. Vertical Production Lathes. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

Vivsunda Verkstader Aktiebolag, Sweden. Internal Grinders. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Wanderer Werke, A. G., West Germany. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Weingarten, Germany. Plate Bending and Rounding Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MACHINERY (BAG FILLING)

Sack Fillers Ltd., London. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

MACHINERY (ELEC. & MECH.)

Electric Construction Co. Ltd., 9, Kingsway, London. Electric Motors and Generators. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

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Lister & Co., Ltd. (R. A.), Dursley, Glos., England. Petrol and Diesel Engines. Distributors: Voltas Limited, Ballard Estate, Bombay 1.

SIEMENS-HALSKE AG, SIEMENS-SCHUCKERTWERKE AG, SIEMENS-ELECTROGERAETE AG & SIEMENS-PLANIAWERKE AG of Western Germany. Manufacturers of all types of Electrical Equipment, Steam & Hydro-Power Plants, Telephone & Telecommunication Equipment, Electrical precision machinery, Cables & Instruments, Electricity Meters and Water Meters, Graphite Electrodes and other Carbon Products for the Electro-Thermal and Chemical Industry. Radios and Household Appliances. Sole Representatives in India: Siemens Engineering & Manufacturing Co. of India Private Limited. 81/83, Veer Nariman Road, Bombay 1.

Stroj Export, Praha, Czechoslovakia. Agents for Western & Central India: India Metal Agencies, Post Box No. 1966, Bombay 1.

Sulzer Brothers Ltd., Winterthur, Switzerland. Diesel Engines, Pumps. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Weston, Shipley & Weston Ltd., Leicester. "Kut-Out" Machinery for cutting C. I. & Steel Pipes. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

MACHINERY MANUFACTURERS

C. H. & E. Manufacturing Co., 3849, North Palmer Street, Milwaukee 12, Wis. (U.S.A.). Agents in India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort.

Cement Gun Co., Ltd., London. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Reckermann Frasmaschinea (Germany). Agents for India: Essential Engineering Co., Botawala Building, Horniman Circle, Fort, Bombay.

MACHINERY PRESSURE GAUGES

Eagle & Wrights (Gauges) Ltd., 87, Carver Street, Birmingham 1, England. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. D. Naoroji Road, Fort, P.B. No. 1065, Bombay 1.

MACHINERY (TEXTILE)

Atwood Division Leesona Corporation, Hartford, U.S.A. Silk Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Cook & Co., Manchester, Ltd., Spinning and Doubling Travellers, Card Vacuum Stripping Plants, Spinning Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay 1.

Daniel Foxwell & Sons, Ltd., Cheadle, Manchester. Cloth Rolling, Folding, Measuring and Lapping Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort Bombay.

Dronsfield Bros., Ltd., Oldham. Card Mounting and Grinding Machinery, Roller Covers Plant. Representatives: W. H. Brady & Co., Ltd., 12-14, Veer Nariman Road, Fort, Bombay, 1.

Dronsfield Bros. Ltd., Oldham. Card Grinding Equipment, Emery Fillet, Roller Covering Machinery. Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

ELLERWERKE MASCHINENFABRIK, Hamburg 33, Germany. Mfrs. of Hydro Extractors. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

Gebruder Wickl, Zurich, Switzerland. Manufacturers of "KNITTAX" Hand Knitting Machine. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Goodbrand & Co., Ltd., Stalybridge. Yarn & Cloth Testing Machines. Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Grob & Co. Ltd., Horgen, Switzerland. Wire and Flat Steel Healds. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Hindle Son & Co., Ltd., Blackburn. Electric Baling Presses. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Hodges, P., & Co., Ltd., Nottingham. High Speed Braiding and Twisting Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

JAMES HOLDSWARTL & SONS (H. X.), LTD., Halifax, U. K. Makers of Worsted and Woollen Spinning Machinery Spare Parts. Sole Importers: Popular (Imp.-Exp.) Trading Co., Jhaveri House, 110, Medows Street, Bombay 1.

John T. Hardaker Ltd., Bradford. Jacquards and Jacquard Sundries. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Leesona Holt, Rochdale, England. High Speed & Automatic Winding & Warping Machines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Longclose Engineering Co. Ltd., Leeds. Cheese, Cone & Beam Dyeing Plants. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Mather & Platt Ltd., Manchester. Dyeing, Bleaching, Printing and Finishing Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Mount Engineering (Sales) Company, Oldham, England. Makers of Improved Mechanical Warp Stop Motions, Pirn Stripping Machines and Hydraulic Beam Trucks, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

OERLIKON MACHINE TOOL WORKS, Zurich 50 Oerlikon, Switzerland. Mfrs. of Roller bearing inserts and Jockey pulleys. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

Power House Components Ltd., Nottingham. Manufacturers of "WAYNE" patent Self-Winding Electric Cable Reels and Fuel Economy Specialities. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Pulrose Co., Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

REINERS & FURST., M. Gladbach, Germany. Mfrs. of Spinning Rings, Ring Travellers & Automatic Winders Knotters. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

RHEYDTER MASCHINEN & SPINDEL-FABRIK, Rheydter (Rhld), Germany. Mfrs. of Spinning Fly Frame Parts & Ball Bearing Tops Rollers of every description. Sole importers: Popular (Imp.-Exp.) Trading Co., Javeri House, 110, Medows Street, Bombay 1.

Rieter Machine Works Ltd., Winterthur (Switzerland). Cotton Spinning Machinery. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Rotameter Mfg. Co. Ltd., Crydon, Surrey. Manufacturers of Flow Meters for all Gases and Liquids. Sole Representatives: W. H. Brady & Co. Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Ruti Machinery Works, Ruti (Zch.), Switzerland. Warping, Beaming and Sizing Machinery, Cotton & Silk Looms. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ryden Mill Stores Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

S. Dodd & Sons Ltd., England. Manufacturers of Hopper Blenders. Conversions of Single Process Blow Room. Suppliers of Meiner's Thread Illuminators. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Schweiter Engineering Works Ltd., Horgen, Switzerland. Automative Pirn Winders and all Winding Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Staubli Bros. & Co., Horgen, Switzerland. Dobbies. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Stone-Wallwork Ltd., London, S.W. 1, England. Suppliers of Ting Tuf Mark 1 Tufting Machine for making Rugs, Carpets, Mats, etc. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

T. W. Riley & Co., Ltd., Rochdale. Cloth Raising Machines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Vollenweider, Sam., Horgen, Switzerland. Shearing Machines. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Wright Hargreaves Engineering Co., Ltd., Blackburn. Vacuum Card Stripping Equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Zellweger Ltd., Uster, Switzerland. Warp Tying Machines. Distributors: Voltas Limited, Ballard Estate, Bombay 1.

MAINTENANCE EQUIPMENT (ELEC. & MECH.)

Martindale Electric Co. Limited, London and Cleveland, Ohio, U.S.A. Electrical and Mechanical Maintenance Equipment, Commstones and Blowers. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

MARINE DIESEL ENGINES

Bergius Co. Ltd., The, Glasgow, England. Agents: India Metal Agencies, India House, Fort, Bombay 1.

Crossley Bros. Ltd., Manchester, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Transport Equipment (Thornycraft) Ltd., Industrial Engines, Propellers & Generating Sets. Sole Agents: Alcock Ashdown & Co. Ltd., Defence Works, Mazgaon, Bombay 10.

MEASURING AND RECORDING INSTRUMENTS

Esterline-Angus Co., Inc. Indianapolis Indiana, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

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H. W. Wallace & Co. Ltd., England. Hardness Meters, Dead Load Hardness Testers, Abrasion Testers, Rapid Plastimeters, Compression Set Apparatus, Flexton Testing Machines, Laboratory Ovens. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Hilger & Watts Ltd., England. Measuring Equipment of all types including Projectors, Enlargers, Optical Gauging & Inspection Equipment etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

L. M. Ericssons Matinstrument Aktiebolaget, Stockholm, Sweden. Manufacturers of Electricity Meters. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

M. S. S. Recording Co., Ltd., England. Dictaphones. Agents: Hindco, 27, New Queen's Road, Bombay 4.

Taylors of London Ltd., London, England. Water Meters, Waste & Cocks Fittings. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

Thomas Ashworth & Co. Ltd., England. "Speedy" Moisture Testers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MECHANICAL HANDLING, CONVEYING & TRANSPORTING EQUIPMENT

Cranes (Dereham) Ltd., Dereham, Norfolk, England. Trailers. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Drake America Corpn., New York, N.Y. Gasoline Powered Solid tired fork lift trucks. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

J. Collis & Sons, Ltd., London. Sole Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

Lansing Bagnall Ltd., Basing Stoke, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Moxey Conveyor & Transporter Co. Ltd., Birmingham, England. Complete Ore handling Plants, Bucket Elevators, Conveyors, Wagon Tipplers. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Oliver International, S.A., Chicago, Illinois, U.S.A., Crawler Tractors, Fork Lift Trucks. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Shinyei Kiito Kaish, Kobe, Japan. Fork Lift Trucks. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

METAL DOORS AND WINDOWS

Gibbons James, Ltd., St. John's Works, Wolverhampton, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

METAL MANUFACTURERS

John Holroyd & Co., Ltd., Rochdale, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Mond Nickel Co. Ltd., The, London. Nickel. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

MICROSCOPES

COOKE, TROUGHTON & SIMMS LTD., U.K. Manufacturers of Vickers Microscopes. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

MILL & GIN STORE SUPPLIERS

Frankland Bros., Blackburn. Loom Pickers and Shuttles. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Haydock & Drake Ltd., Blackburn. Healds and Reeds. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

John Atkinson & Son (Sowerby Bridge) Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Joseph Sykes Brothers, Huddersfield. Card Clothing. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Kenyon & Son, Ltd. (James) Bury, Lancs. Textile Clothing and Filter Cloth. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Lupton Bros., Accrington. Loom Sundries. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Pulrose Co.. Ltd., England. Agents: Altex Private Ltd., 147, Mahatma Gandhi Road, Fort, Bombay 1.

Resilla Cots & Rollers Ltd., Marfleet, Hull, (England) (Cots, Aprons, Buffers, Loop Pickers, Twister Sleeves, Lug Straps, etc). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Robert Hyde & Co., Ltd., Stalybridge. Machinery Cloths for Cotton Spinning & Weaving. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

William Kenyon & Son Ltd., Dukinfield, Cheshire. P.I. Cotton Driving Rope and Banding. Spindles, Tape and Twine. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

MINERAL WATERS, SQUASHES, CORDIALS, ETC.

E. I. Michel & Co., Ltd., 415, Oxford Street, London W.1. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

H. D. Davies & Co., Ltd., 98/100 Bishopsgate, London E.C. 2. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Societe Des Eaux Mineral Source Cachat Evian Les-Bains. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

MINERS LAMPS & EQUIPMENTS

Ceag Ltd., 53, Victoria Street, London, S.W. 1. Miner's Electric Safety Lamps. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Gram: "BALMER."

MINING MACHINERY & EQUIPMENT

A. G. Wild & Co., Ltd., Sheffield, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Austin Hopkinson & Co., Ltd., Manchester, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Automatic Coal Cleaning Co., Ltd., Carlisle, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Barker Davies & Co., Pontypridd, Wales. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Belmos Co., Ltd., Lanarkshire, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Broom & Wade Ltd., High Wycombe, England. Portable and Stationary Air Compressors & Pneumatic Tools. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Bruntons (Husselburgh) Ltd., Scotland. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Etelco Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Exdevco Corpn., New York. Coal Mining Drills. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Head, Wrightson Colliery Engineering Co., Ltd., England. Coal Preparation and Screening Plants. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Hugh Wood & Co., Ltd., Gaeshead-on-Tyne, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

James W. Smallman Ltd., Nuneaton, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

John Mills & Co. (Llanidloes) Ltd., Montgomery Shire, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Joy Manufacturing Co., Pittsburg 22, Pa., U.S.A. & Joy Sullivan Ltd., London, England. Sole Distributors: Voltas Ltd., Ballard Estate, Bombay 1.

Oldham & Son Ltd., Denton, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Triefus Industries Ltd., Crawley, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Uskside Engineering Co. Ltd., Newport, Mon. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

MOTOR ACCESSORIES

H. D. Jackson Co., Ltd., Summit Works, Walsall. Agents: Soho House, Lohar Street, Bombay 2.

MOTOR CYCLES MFRS.

Associated Motorcycles, Ltd., Plumstead Road, London, S.E. 18. Manufacturers of A.J.S. Motor Cycles. Sole Distributors: Dadajee Dhackjee & Co., Private Ltd., Sandhurst Bridge, Bombay 7.

MOTOR SCOOTERS

"Innocenti" Metallurgical and Mechanical General Co., Milan. Manufacturers of Lambretta Motor Scooters, 3-Wheeler Rikshaw and Dely. Van Chassis, Auto-Bykes. Sole Distributors: Dadajee Dhackjee & Co., Private Ltd., Sandhurst Bridge, Bombay 7.

NON-FERROUS METALS

Henry Wiggin & Co., Ltd., Birmingham. Monel and Nickel alloys. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

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Mond Nickel Company Limited, The, London. Nickel, 'F' Nickel. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Thomas Bolton & Sons Ltd., London, England. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

United Non-ferrous Metal Ltd., Birmingham. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

NUCLEAR RESEARCH INSTRUMENTS

Baird Atomic Inc., 33, University Road, Cambridge 38, Mass., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay.

NUT & BOLT MAKING MACHINES

Etchells David & Son Ltd., Bull Piece Works, Darlaston S. Staffs, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

OFFICE APPLIANCES AND EQUIPMENT

Addressograph-Multigraph Corporation, Cleveland, Ohio, U.S.A. Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Addressograph-Multigraph Ltd., London, England. Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Block & Anderson, Ltd., London. Sole Agents for India: The National Cash Register Co., Steelcrete House, Dinshaw Wacha Road, Back Bay Reclamation, Bombay 1.

Friden Calculating Machine Co., Inc., California (U.S.A.). Manufacturers of Friden Automatic Calculators. Sole Agents for India: The National Cash Register Co., Steelcrete House, Dinsha Wacha Road, Back Bay Reclamation, Bombay 1.

Kalamazoo Ltd., Kalamazoo Works, Northfield, Birmingham. Loose Leaf Equipment. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

UNIVERSAL POSTAL FRANKERS LTD., Frankopost Works, London N-18, Postal Franking and Stamp Cancelling Machines, Totometer-Counting & Imprinting Machines. Sole Agents: Kilburn & Co. Ltd., P.O. Box 565, Bombay; Phone: 25-1908. Grams: "TASCONIUM".

OIL BURNERS

Wallsend Slipway & Engineering Co., Ltd., Walsend-on-Tyne, England. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

OIL ENGINES

Blackstone & Co., Ltd., Dursley, England. Voltas Limited, Ballard Estate, Bombay 1.

Lister & Co., Ltd., R.A., Dursley, Gloucestershire, England. Importers: Voltas Limited, U.S.A. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Ruston & Hornsby Ltd., Lincoln & Grantham, England. Horizontal and Vertical Diesel Engines. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

OIL MILLING MACHINERY

Rose Downs & Thompson Ltd., Hull. Maxoil & Duplex Oil Expellers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

V. D. Anderson Co., Cleveland, Ohio, U.S.A. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

OIL PURIFYING EQUIPMENT

Stream-Line Filters Ltd., Surrey, England. Filters for reclaiming used Engine Lubricating Oil, Transformer Oil Filters, Aviation Fuel Filters. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay 1.

OIL SEALS

CARL FREUDENBERG, West Germany. Mfrs. of "cFw" Simmering Oil Seals. Sole Agents: Messrs. B. Chowdhury & Co., Indian Globe Chambers (7th Floor), Fort Street, Fort, Bombay 1. Phone: 26-3479. Grams: "BISUKHI."

OIL WELL EQUIPMENTS

National Supply Co., The, New York. Oil Well Drilling rigs & equipment. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes St., Fort, Bombay.

Baker Oil Tools Inc., Terminal Annex, Los Angeles, U.S.A. Oilwell equipment. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Petroleum & Mining Equipment S.A., Geneva, Switzerland. Rock Bits, Tricone Roller Bits. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

ORE DRESSING & CHEMICAL EQUIPMENT

DENVER EQUIPMENT CO., Denver, U.S.A. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

OUTBOARD MOTORS

Outboard Marine & Manufacturing Co., Wankegan, U.S.A. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

OXYGEN CUTTING & PROFILING MACHINES

Hancock & Co., (Engineers) Ltd., Progress Way, Croydon, England. Sole Agents: Datson Raviraj & Co., (Private) Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

PACKAGING MACHINERY

Packing Machinery (Peters) Ltd., Slough. Labelling Machine. Code & Printing Machines, Unscrombling Hoppers, Carton Erecting & Closing Machines. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

PACKING & JOINT RINGS

Batey Metallic Packing Co., St. Peters, Newcastle-on-Tyne, England. Agents: Heatly & Gresham, Ltd., 9, Forbes Street.

British Metallic Packing Co. (1933), Ltd., Britimp Works, Sidcup, Kent, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Walker, James & Co., Ltd., Woking, Surrey, England. 'Lion' Brand Packings and Jointings. Agents: Roberts, McLean & Co., Ltd., Ilaco House, Sir Phirozshah Mehta Road, Fort.

PADLOCKS & KITCHENWARE

Henry Squire & Sons Ltd., Near Willenhall, Staffs, New Invention. Agents: Soho House, Lohar Street, Bombay 2.

PAINTS, ENAMEL & VARNISHES

Docker Bros., Rotton Park Street, Birmingham 16. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Francisco Nubiola, Avda. Jose Autonio, Barcelona. Agents for Ultramarine Blue: "Cock" Brand, Chemidye Trading Co. Private Ltd., 38, Cawasji Patel Street, Bombay 1.

Morrison Charles Composition Co., Ltd. "Capstan" Brand Paints. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Pinchin Johnson & Co., 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Red Hand Composition Co., The, Mfrs. of Ships Bottom & Other Paints. Sole Agents: Alcock Ashdown & Co., Ltd., Defence Works, Mazgaon, Bombay 10.

Robt. Ingham Clark & Co., 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

Wilkinson Heywood & Clark, 4, Carlton Gardens, London, S.W.1. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

PAPER MFRS. & MERCHANTS

CHARLES MORGAN & CO., LTD., Paper Merchants, Gateway House, 1, Watling Street, London, E.C. 4. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road.

FINNISH PAPER & BOARD CONVERTERS' ASSOCIATION, Unionin-Katu, 19, Helsinki, Finland. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

FINNISH PAPER MILLS' ASSOCIATION, Department I, Helsinki, Finland. Newsprint. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

FINNISH PAPER MILLS' ASSOCIATION, Department II, Helsinki, Finland. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

LIEBIG PAPER EXPORT CO., A/B, Gothenburg, Sweden. Exclusive Agents for: Fiskeby Fabriks Aktiebolag, Sweden. A/S. Follum Fabrikker, Norway. Union Paper Co., Ltd. A/S Norway. Representatives in India:—Scanfennia Paper Co., (Bombay) Private Ltd., 53/57, Lakshmi Bldgs., Sir Phirozshah Mehta Road, Bombay 1. Calcutta Office: Scanfennia Paper Co., (Calcutta) Private Ltd., 32-A, Brabourne Road, Calcutta.

STORM & BULL LTD., Oslo, Norway. Agents: R. K. Gandhi & Co., Aga Khan Building, Dalal Street, Fort, Bombay. Phone: 255634. Grams: "BOARD PAPER".

PAPER MILLS

Backhouse & Coppock Ltd., "Perfection" Postal Wrappers. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

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Cincinnati Industries Inc., Cincinnati (Lockland), Ohio, U.S.A. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Drayton Paper Works Ltd., Talbot House, 9, Arundel Street, London W.C. 2. Agents: Hardcastle, Waud & Co., Pr. Ltd., Alice Bldg., Dr. D. Naoroji Road, Bombay 1.

F. Gardner Corbett Ltd., Napier House, 24-27, High Holborn, London W.C. 1. Agents: Hardcastle Waud & Co. Pr. Ltd., Alice Bldg., Dr. D. Naoroji Rd., Bombay 1.

Smith, Stone & Knight Ltd., Wrapping Papers, Corrugated Strawboards, etc. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Transparent Paper Ltd., Bury, Lancashire. "Diophane" Transparent Papers. Agents: Hardcastle, Waud & Co. Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

PAPER TRANSFERS

Tearne & Sons Ltd., All Saint's Road, Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

PATENT GLAZING BARS

Pennycook Patent Glazing & Engineering Co., Ltd., 38, Bath Street, Glasgow C.2, Scotland. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

PERFORATING MACHINES

J. Sloper & Co., Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

PERFUMERY

Dragco-Holzminden, W. Germany. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

H. Raab & Co., Amsterdam, Holland. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

P. Robert Co., Grasse, France. Agents: B. C. Patel & Co., 79, Princess Street, Bombay 2.

Parfums Lucien Lelong, Ltd., Perfumes. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PHARMACEUTICALS

Arnold Otto Meyer, Ballindamm 1-3, Post Box No. 689, Hamburg 1. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Bigot, Scharfe & Co., Chemische Fabrik, G.M.B.H., Kirchenallee 25, Hamburg. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Chemifa Chemische Fabriek Amsterdam N. V., Amsterdam—"X-Ray Contrast Mediums & Dental Anaesthetics." Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir P. M. Road.

Chemische Vertriebs—Gesellschaft, m. b. h. Gereco, Frankfurt Am Main. "Aretus." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Commercial Solvents Corporation, New York 16, U.S.A., "Penicillin Preparations". Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road.

Conray Products Co., 129, Pearl Street, New York 5, N.Y. Fine Chemicals/Pharmaceuticals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

Curapharm C. V. Amsterdam—"Intravenous Solutions and Administration Sets". Agents: The Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir P. M. Road.

De Witt & Co., E. C., Ltd., London. "De Witt's Kidney and Bladder Pills." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Ephazone and Company, 180, Piccadilly. "Ephazone" for Asthma, Bronchitis, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay.

F. Hoffmann-La Roche & Co., Ltd., Basle (Switzerland). Sole Distributors: Voltas Limited, Ballard Estate, Bombay.

G. D. Searle & Co., Ltd., High Wycombe, U.K. "Ethical Pharmaceuticals". Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Herts Pharmaceuticals Ltd. Pharmaceuticals. Sole Agents: J. L. Morison, Son and Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Heyden Newport Chemical Corporation, 342, Madison Avenue, New York, 17, N. Y. Industrial, Fine & Pharmaceutical Chemicals. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort.

Homburg Chemiewerk, Daimlerstrasse 25, Postfach 3944, Frankfurt/Main, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., "Adelphi", 119, Queen's Road, Bombay. G.P.O. Box No. 1945, Bombay 1.

Honeywill Atlas Ltd., Devonshire House, Mayfair Place, Piccadilly, London W. 1, England. Sole Agents for India for Surface Active Agents: Chemidye Trading Co. Private Ltd., 38, Cawasji Patel Street, Bombay 1.

Hugo Stinnes G.m.b.H., Mulheim (Ruhr) Ruhrstrasse 1, Germany. Products: Phthalic Anhydride, Maleic Anhydride and Fumaric Acid. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Inabata & Co. Ltd., 40 2-Chome, Doshomachi, Higashiku, Osaka, Japan. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

International Division, Allied Chemical Corp., 40, Rector Street, New York 6, N. Y. Sole Agents for India: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, Fort, Post Box No. 1065, Bombay 1.

Istituto Chemioterapico Italiano, Milano—*Via* Crocefisso No. 12, Italy. Products: Sulfa drugs and Vitamins. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

M. & R., Dietetic Laboratories Inc., Columbus, 16, U.S.A. "Similac", Infant Milk Food. Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Merck-Sharp & Dohme International, New York. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Munton & Fison Ltd., Stowmarket, Suffolk, England, Malt Extract. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

Newton Chambers & Co., Ltd., Thorncliff Works, Sheffield. Izal Germicide, etc. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

Nordmark Werke G.M.B.H., Adolphstrasse 32, Hamburg 22, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., "Adelphi", 119, Queen's Road, Bombay. G.P.O. Box No. 1945, Bombay 1.

Optrex (Overseas) Ltd. "Optrex" Eye Lotion and "Optone" Eye Drops. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Oxo Ltd., London. Culture Media & Laboratory Preparations. Agents: Anglo-Thai Corporation Ltd., Ewart House, Bruce Street, Fort.

Pearson & Co., Ltd., E. T., "Lactagol." "Tessol," "Rhinitol," "Iodinosol," etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Pharmaceutical Manufacturing Co., Ltd., "Novutox" "Xylotox" "Surfacaine". Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Riedel de Haen A. G., (Pharmaceutical Department), (20a.) Seelze, b. Hannover, Western Germany. Factory Representatives: German Remedies & Trading Co. Private Ltd., "Adelphi", 119, Queen's Road, Bombay. G.P.O. Box No. 1945, Bombay 1.

Riker Laboratories Ltd., Patent and Proprietary Medicines. Sole Agents: J. L. Morison, Son & Jones (India), Private Ltd., Contractor Building, Nicol Road, Estate, Bombay 1.

Schering A. G., Mullerstrasse, 170-172, Berlin N 65, Western Germany. Sole Importers & Distributors: German Remedies & Trading Co. Private Ltd., "Adelphi", 119, Queen's Road, G.P.O. Box No. 1945, Bombay 1.

Scott & Turner, Ltd., Newcastle-on-Tyne, "Andrews Liver Salt." Sole Agents: J. L. Morison, Son & Jones (India), Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Societa Italiana Medicinali Scandicci Firenze (Scandicci), Italy, *via* Molin Vuovo-Products: Choline Salts. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Spencer & Co., Ltd., Urodonal. Sole Agents: J. L. Morison Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Sperti Faraday Inc., Hoboken, U.S.A. "Electro Medical Apparatus." Agents: Fairdeal Corporation (Private) Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Van Baerle & Co. Ltd., Munchenstein/Basle, Switzerland. Products: Crystalline Phosphoric Acid, Potassium Silicate. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

Wulfing & Co., A., M.B.H., (Sanatogen-Werke Bauer & Cie, and Fabrik Pharmazeutischer Praeparate Johann A. Wulfing) Graf-Adolf-str., 18 (22a.) Dusseldorf, Western Germany. Factory Representatives: German Remedies and Trading Co., Private Ltd., "Adelphi", 119, Queen's Road, Bombay 1. G.P.O. Box No. 1945, Bombay 1.

Yodogawa Pharmaceutical Co., Ltd., 136, Higashi, 2-Chome, Nozato, Nishiyodogawa-Ku, Osaka, Japan. Products: Folic Acid U.S.P. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay.

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PHARMACEUTICAL MACHINERY & EQUIPMENT

A. H. Bland (Engineers) Ltd., England. "PYRAMID" Heat Sealing Machines for Alkathene, Pliofilm, P.V.C., Cellophane, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Albro Fillers & Engineering Co. Ltd. Middlesex, England. Filling Machines for liquid, cream chutneys, Powder, etc. Lidding and Capping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Arenco Aktiebolag, Stockholm (Sweden), Tube Filling, Folding & Crimping Machine, Jar Filling Machine. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Arthur Colton & Co., New York 16, N. Y. Complete range of Tablet Machinery, Filling, Closing, Crimping Machines, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Autopack Ltd., Birmingham, England. Ampoule Cutting, Washing, Filling & Sealing Machines, Powder Ampoule Filling Machine, Vial Feeding, Filling & Capping Machines, Protamin Insulin Double Headed Filling machine, Powder, Tea Powder, Flour, Cereal, Soap Flakes Weighing & Filling Machines, Weighing, Pressing & Tin Feeding Machines, Tube Filling, Feeding and Corking Machine, Cap Spinning Unit for Vials, Screw Capping Machine with/without filling unit, Cellophane wrapping machine, Automatic film wrapping machine, Anacin type Tablet Packing Machine. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Banister Street Works Ltd., London N.1. Tube Filling, Folding & Crimping Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Blomqvists Verkstandsktiebolag, Sweden. Mixers and Dough Kneaders. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

D. Trapow & Co. (Clifford Packaging Machinery Ltd.). England. NEWMAN Fully and Semi-Automatic Labelling Machines for bottles, jars, ampoules, vials, torch batteries, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Greif Werke, Germany. Weighing and Filling Machine for flour, sugar, etc. Agents: Armstrong Smith Private Ltd., Sir P. M. Road, Bombay 1.

James Cruickshank Ltd., Scotland. 'Husky', 'Consul' & 'Envoy' Multispeed Mixers, Vortex Dough Kneader, Vegetable Preparer, Coffee Grinder, Meat Mincer, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

J. G. Jackson & Crockatt Ltd., England. Granulators for Dry & Wet Masses. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

MANESTY MACHINES LTD., Liverpool, 19. Pharmaceutical & Tablet making Machines, Distilled Water Plants, etc. Sole Agents: Kilburn & Co., Ltd., P. O. Box 565, Bombay. Phone: 25-1908. Grams: "TASCONIUM."

Ormerod Engineers Ltd., England. Homogenizers for Pharmaceutical, Textile, Jute, Foodstuffs, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

William Gardner & Sons (Gloucester) Ltd., England. Sifters & Mixers, Crushers, Grinders and Ball Mills, Essence Sprayer, Mixer. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

PHOTO COPYING MACHINES

American Photocopy Equipment Co., Chicago, U.S.A. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

PHOTOGRAPH PLANT AND MATERIALS

Mason, E. N., & Sons, Ltd., Arclight Works, Colchester, England. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

PILE DRIVING EQUIPMENT

British Steel Piling Co., Ltd., Pile Driving Equipment, Steel Sheet Piling and Piles. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

PIPES AND FITTINGS

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

Tom Carrington & Co., Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

PLASTIC MOULDING POWDERS

American Moulding Powder & Chemical Corporation, 703, Bedford Avenue, Brooklyn 6, N.Y. Products—Cellulose Acetate Tenite I., Cellulose Acetate Butyrate Tenite II. "Master" Colour concentrates "Kromaplast" Dry Colorants and Grex High Density Polyethevlene. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

PNEUMATIC PLANT COMPRESSORS, DRILLS, ETC.

DEPRAG PRESSLUFTMASCHINEN SCHULZ K. G. (13a) Amberg/opf., Germany. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

POLISHING MATERIALS

Goddard, J., & Sons, Ltd. Goddard's Plate Powder, Liquid Polish, Furniture Cream, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Ronuk, Ltd., Household Polishes. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

W. Canning & Co., Ltd., Birmingham, England. Agents and Chief Distributors: S. Mitra & Co., 187, Dr. Dadabhoy Naoroji Road, Bombay 1. Grams: "Mludeshi."

POWER PRESSES

Hordern, Mason & Edwards Ltd., Pype Hayes, Birmingham 24, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay.

POWER TRANSMISSION EQUIPMENT

Fluidrive Engineering Co., Ltd., Isleworth (Middlesex, England). Hydraulic Couplings. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

PRECISION TOOLS AND INSTRUMENTS

Dean Smith & Grace Ltd. Keighly, England. Precision Lathes. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

James Neill & Co. (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

J. E. Baty & Co. Ltd., Burgess Hill, Sussex. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay 1.

PRESENTATION ARTICLES

Ronson Products Ltd., London. Cigarette Lighters & Products. Sole Distributors: Spencer & Co., Spencer's Building, Forjett Street, Bombay 26.

PRESS FASTENERS

Busby & Co., Ltd., Price Street, Birmingham 4. Agents: Soho House, Lohar Street, Bombay 2.

PRINTING AND ANTIFRICTION METALS

Fry's Metal Foundry Ltd., Tandem Works, Merton Abbey, England. Printing and Bearing Metals and Solders. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

PRINTING INKS

Fishburn Printing Ink Co. Ltd., England. Sole Agents: Indo-Europa Trading Co., 9, Dalal Street, Fort.

PRINTING PRESS MACHINERY MATERIAL

Rejafix Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Sauven Perforating Machine Co., England. Perforating Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

PROCESS ENGINEERING

Gesellschaft FUR LINDE'S Eismaschinen A.G. Hollriegelskreuth bei MUNCHEN, W. Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Karl Fischer (1) Berlin-Borsigwalde Halzhouser Strasse 161-165, W. Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Pintsch Bamag A. G. (16) Butzbach/Hessen, W. Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Polysius G.m.b.H. Neubeckum, W. Germany. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Polysius Limited, The Brackens, Ascot, Berks, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

PROVISION MERCHANTS

Canada Packers Ltd., Toronto. Sole Distributors: Spencer & Co., Ltd., Spencer Building, Forjett Street, Bombay 26.

PUMPS & FITTINGS

Byron Jackson Co., Los Angeles, California. Deep Well Turbine Pumps, Vertical Spindle and Horizontal Spindle Centrifugal pumps. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

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PUMPS & PUMPING MACHINERY

Auto Diesels Ltd. (England). Agents in India: Essential Engineering Co., Botawala Building, Horniman Circle, Fort, Bombay.

British La Bour Pump Co., Ltd., Blundell St., London N. 7. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

C. H. & E. Manufacturing Co., 3849, North Palmer Street, Milwaukee 12, Wis. (U.S.A.). Agents for India: Essential Engineering Co., Botawala Building, Elphinstone Circle, Fort, Bombay.

Charles S. Madan & Co. Ltd., Altrincham, England. Compressed Air-operated Testing Pumps, Hydraulic Pressure Pumps, Grease and Viscous Fluid Pumps. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Drysdale & Co., Ltd., Glasgow, Scotland. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

Gwynnes Pumps Ltd., Lincoln. Centrifugal Pumps. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hayward Tyler & Co., Luton. Boiler Feed Pumps. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

J. Hartlage, Osnabruck, W. Germany. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

Lee, Howl & Co., Ltd., England. Centrifugal and Power driven reciprocating pumps. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Worthington-Corporation, Harrison, N.J., U.S.A. Pumping Machinery and Air Compressors for all applications. Sole Distributors: William Jacks & Co., Ltd., Bharat House, Apollo Street, Fort, Bombay.

Worthington Simpson Ltd., Newark-On-Trent, England. Pumping Machinery of all descriptions and Air Compressors. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

PYROMETERS

Foster Instrument Co. Ltd., England. Manufacturers of Pyrometers. Sole Agents & Stockists: Indian Furnace Co. Private Ltd., Lotus Cinema Building, Dr. Annie Besant Road, Bombay 18.

QUARRYING EQUIPMENT

Goodwin Barsby & Co. Ltd., Leicester. Stone-breakers & Crushing Plants, Road, Quarry, Gravel and Construction Plant. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

RADAR EQUIPMENT

Decca Radar Ltd., 1-3, Brixton Road, London S. W. 9. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Kelvin & Hughes (Marine) Ltd., 99, Fenchurch Street, London E.C. 3. Agents: E. W. Stevens & Co. Private Ltd. Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Radio Corporation of America, RCA Building, 30, Rockefeller Plaza, New York 20, N.Y., U.S.A. *via* E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

RADIOS & RADIOGRAMS

Telefunken G.m.b.H. Gotlinger, Chaussee, 76, Hanover, W. Germany. Agents: Hindco, 27, New Queen's Road, Bombay 4.

RAIL CARS AND TROLLEYS

D. WICKHAM & CO., LTD., Ware, Hertfordshire, England. Manufacturers of Railway Cars and Equipment. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

RAIL JOINT SHIMS

Wonham Incorporated, 13, Victoria Street, London, S.W.1. Rail Joint Shims. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RAILWAY ENGINEERS

Associated Locomotive Equipment Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

P. & M. Co. (England), Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

RAILWAY EQUIPMENT

D. WICKHAM & CO., LTD., Ware, Hertfordshire, England. Manufacturers of Railway Cars and Equipment. Representatives: James Finlay & Co. Ltd., P. O. Box No. 73, Bombay 1.

English Steel Spring Corporation Ltd., Sheffield. Springs, Forgings and Railway Wagon Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

English Steel Forge & Engineering Corpn., Ltd., Sheffield. Springs, Forgings and Railway Wagon Accessories. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

English Steel Casting Corpn. Ltd., Sheffield; Springs, Forgings and Railway Wagon Accessories; Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

MATISA EQUIPMENT LIMITED, 78, Buckingham Gate, Westminster, London, S. W. 1 (England). Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Owen & Dyson Ltd., Rotherham, England. Wheels and axles for locomotives. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort, Bombay.

PRESSED STEEL CO., LTD., Cowley, Oxford, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

S. A. D. Ateliers de la Dyle, Louvain, Belgium. Agents: Hardcastle Waud & Co., Private Ltd., Alice Building, Dr. Dadabhoy Naoroji Road, Fort.

Steel, Peech & Tozer, Sheffield, England. Locomotive, Carriage and Wagon Tyres. Wheels, Axles and Laminated Springs, Disc Wheel Centres, Crank Axles and Forgings. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Wm. Beardmore & Co. Ltd., Glasgow. Railway Wheels and Axles. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Workington Iron & Steel Co., Workington, England. Steel Rails, Fish plates, Steel Sleepers and Fastenings. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

RAILWAY EQUIPMENT & SANITARY FITTINGS

Levick John Ltd., Birmingham, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RECORDING INSTRUMENTS

PYROWERK, G.m.b.H. Germany, for Temperature Recording Instruments, Pyrometric Indicators, etc. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

REDUCTION GEARS

Turbine Gears Ltd., England. Gears and Gear Units. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

REFLECTIVE SHEETINGS

Minnesota Mining and Mfg. Co., Ltd., Birmingham. Agents: Gillanders Arbuthnot & Co., Ltd., 16, Queen's Road Estate, Bombay 1.

REFRACTORY CEMENTS

Furnace Linings Co., Ltd., Nursery Street, Sheffield 3. Sole Agents: Datson, Raviraj & Co. (Private) Ltd., 43, Tamarind Lane, Fort, Bombay.

Quigley Company of Canada Ltd., P. Q. Lachine, Canada. Sole Agents: Datson, Raviraj & Co., (Private) Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

REFRIGERATORS

KELVINATOR LTD., England. Refrigerators. Sole Distributors: Spencer & Co. Ltd., Spencer's Building, Forjett Street, Bombay 26.

REFRIGERATION EQUIPMENT (COMMERCIAL)

Turbin Aktiebolaget de Laval Ljungstrom (Stal), Norrkoping, Sweden, Manufacturers of Refrigeration and Ice making Plant. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

RIVETS & NAILS

J. & W. Somerville Ltd., Kali Nail Works, Lennoxtown, nr. Glasgow. Agents: Soho House, Lohar Street, Bombay 2.

S. & D. Rivet Co., 'Ariel Works,' Temple Road, Leicester, England. Agents: Soho House, Lohar Street, Bombay 2.

ROAD BUILDING EQUIPMENT & MACHINERY

Alfred Hagelstein, Germany. Kemna Diesel Road Rollers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

British Standard Machinery Co. Ltd., Sydney, Australia. Earthmoving, Logging and Road Construction equipment. Sole Concessionaires: Greaves Cotton & Co. Ltd., 1, Forbes Street, Fort, Bombay.

Galion Iron Works & Mfg. Co., Galion, Ohio, U.S.A. Sole Distributors: Voltas Ltd., Chinchpokli Road, Bombay 12.

Georg. Stetter Baumaschinenfabrik, Germany. High Speed Builder's Winches, Concrete Mixers, Canal Cranes, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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International Harvester Export Co., U.S.A., U.K., Australia & Associates. Bulldozers, Tractor Cranes, Dozer Shovels, Loaders, Land Clearing Equipment, Rippers, Motor, Scrapers, etc. Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

Johnston Bros. (Engineering) Ltd., 284, Ibex House, Minories, London, E.C. 3. (Asphalt Mixers, Tar Boilers, Slush Removers, Suction Scavengers, Mobile Bitumen Heaters, Road Line Makers). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

LeTourneau-Westinghouse Co., Peoria, Illinois, U.S.A. Bulldozers, Scrapers, Rooters and Rollers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Marshall, Sons & Co., Ltd., Gainsborough. Diesel Road Rollers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Thew Shovel Company, The Lorain, Ohio, U.S.A. Shovels, Draglines and Cranes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Wacker Gebruder, Germany. Gasoline/Electric High Frequency Internal/External Concrete Vibrators, Tampers, Tie Tampers, Plate Vibrators, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

W. G. Armstrong Whitworth (Metal Industries) Ltd., England. "Kue-Ken" Jaw and Gyratory Crushers. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

ROLLER BEARINGS

Fafuir Bearing Co., England. F.B.C. Ball & Roller Bearings. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

Timken Roller Bearing Coy., U.S.A. Timken Taper Roller Bearings, Industrial & Railway Applications. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate, Bombay.

ROLLING SHUTTERS

Dennison Kett & Co., Ltd., Kenoval House, Farmer's Road, London, S.E. 5. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

ROLLMAKERS

British Rollmakers' Corporation Ltd., Crewe. Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ROLLS FOR PAPER & RUBBER MANUFACTURE

Miller Co. Ltd., Edinburgh. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

ROOFING MATERIAL

D. Anderson & Sons, Manchester, England. Rok Roofing, Paints, etc. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

Helliwell & Co., Ltd., Brighouse. Patent Glazing Bars. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

McNeil, F., & Co., Ltd., 10, Lower Grosvenor Gardens, London, S. W. 1. Bituminised Roofing Felt. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

RUBBER AND PLASTIC INDUSTRIES

Northern Rubber Co. Ltd., Retford, Notts. Agents: Soho House, Lohar Street, Bombay 2.

RUST, ACID AND HEAT RESISTING STEELS

Firth-Vickers Stainless Steels, Ltd., Rust, Acid and Heat Resisting Steels. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SANITARY WARES & FITTINGS

Allied Iron Founders Ltd., London. Cast Iron Enamelled Baths. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

J. & R. Howie Ltd., Hurlford. Fireclay Works, Kilmarnock, Scotland. Sole Agents for Bombay State: R. K. Shapurji & Co., Prospect Chambers, 319, Dr. Dadabhai Naoroji Road, Fort, P.B. No. 1065, Bombay 1.

Twyfords Ltd., England. Sanitaryware Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

SCIENTIFIC & MARINE INSTRUMENTS

Aldis Brothers Ltd., Sarehole Road, Hall Green, Birmingham 28, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Alfred J. Amsher & Co. Schaffhauses, Switzerland. Testing Machines, Planimeters, Integrators. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Chadburns (Liverpool) Ltd., Park Lane, Aintree, Liverpool 10, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

C. Plath, Stubbenhuk 25, Hamburg 11, Germany. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Decca Navigator Co., Ltd., 1-3, Brixton Road, London S.W. 9. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Electroacustics G.m.b.H., Kiel, Westring 425-429, Germany. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

John Hastie & Co., Ltd., P. Box No. 18, Kilblain Engine Works, Greenock, Scotland. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Kelvin & Hughes (Marine) Ltd., 99, Fenchurch Street, London E.C. 3. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Leeds & Northrup Company, Philadelphia. Indicators, Recorders, Controllers, etc. Electrical Measuring Instruments. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

Raytheon Manufacturing Company, Waltham 54, Massachusetts, U.S.A. *via* E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Ross Ensign Ltd., North Side, Clapham Common, London S.W. 4. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

S. G. Brown Ltd., Shakespeare Street, Watford, Herts, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Sperry Gyroscope Co., Division of Sperry Rand Corporation, Great Neck, Long Island, New York, U.S.A. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Steels Engineering Installations Ltd., Crown Works, Sunderland, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Submarine Signal Co. (London) Ltd., Shakespeare Street, Watford, Herts, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Thomas Mercer Ltd., Eywood Road, St. Albans, England. Agents: E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

Thomas Walker & Son Ltd., 58, Oxford Street, Birmingham 5, England *via* E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

T. Francis & Sons, Electric House, Turner Bridge, Bolton, Lancs., England *via* E. W. Stevens & Co., Private Ltd., Mackinnon Mackenzie's Building, 4, Ballard Road, Bombay 1.

SCREWS

Guest Keen & Nettlefolds (Midlands) Ltd., Birmingham. Wood Screws, Machine Screws, Self-Tapping Screws, Hammer Drive Screws, Spring Washers, etc. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

SEWAGE EQUIPMENT

Cakebread Robey & Co., England. Makers of Drain Cleaning Appliances. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Hughes & Lancaster Ltd., U.K. Makers of Sewage Ejectors, etc. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

SHIPPING COMPANIES

Belships Co., Ltd., Victoria St., Westminster, London, S.W. 1. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Compagnie des Messageries Maritimes, Paris. To and from Continental and Mediterranean Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Ellerman's City & Hall Lines Ltd., Bankside House, 107, Leadenhall Street, London, E.C. 3. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Hoegh Line—Service of the Hoegh Line to and from U.S.A., Atlantic and Gulf Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

Holland-Bombay-Karachi Line and Holland-Bengal-Burma Line. Service of the United Netherlands Navigation Co., Rotterdam, to and from European, Continental and Mediterranean Ports. Representatives: Volkart Brothers, Ballard Estate, Bombay.

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Java Pacific & Hoegh Lines—Service of Java Pacific Line, Amsterdam, and Leif Hoegh & Co., A/s., Oslo to and from Ceylon Malayan Union, Philippines and West Coast of U.S.A. and Canada. Representatives: Volkart Brothers, Ballard Estate, Bombay.

L. Smit & Co.'s Internationale Sleepdienst, Westplein 5, P.O. Box 1042, Rotterdam. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Maersk Line—Service of A. P. Moller, Copenhagen, to and from the Far East. Representatives: Volkart Brothers, Ballard Estate, Bombay.

T. & J. Harrison, Mersey Chambers, Liverpool. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

Thos. & Jno Brocklebank Ltd., Cunard Building, Pier Head, Liverpool. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

SIZING MATERIAL

Houghton, E. F., & Co., Philadelphia. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Fort.

SMALL TOOLS—METAL & WOOD WORKING

Firth Brown Tools Ltd., Sheffield, England. Files, Drills, Augers, etc. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

SOUND RECORDING MAGNETIC TAPES

Minnesota Mining & Mfg. Co. Ltd., International Division, 99, Park Avenue, N. Y. 16, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Minnesota Mining & Mfg. Co. Ltd., 3-M. House, Wighmore Street, London W. 1, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

SPEED INDICATORS & RECORDERS

Hasler Telegraph Works, 26, Victoria Street, Westminster, London, S.W.1. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

SPORTS GOODS MFRS. AND DEALERS

A. G. Spalding & Bros. Ltd. "Sports Goods." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Golf Ball Developments Ltd., Birmingham, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

SPRAY PAINTING EQUIPMENT

Aerograph Co. Ltd., London, England. Spray Painting Equipments. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay. Phone: 261153.

B.E.N. Patents Ltd., High Wycombe, England. Air Compressors, Spray Painting plants, Tyre inflators, Car Washers, Spark Plug Cleaners. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

B. O. Morris Ltd., Coventry, Polishers. Agents in India: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

DeVilbiss Company, Toledo 1, Ohio, U.S.A. Agents: Gillanders Arbuthnot & Co. Ltd., 16, Queen's Road Estate, Bombay 1.

De Vilbiss Company, Ohio, U.S.A. Air Compressing, Spray Painting outfits and Hose, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

SPRINGS

Cope & Timmins (London) Ltd., 91/93, Paul Street, Finsbury, London E.C.2. Agents: Soho House, Lohar Street.

STATIONERS

HARDTMUTH, L. & C. (GREAT BRITAIN), LTD., Koh-i-Noor Pencil Factory, Chard, Somerset. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road, Ballard Estate.

Perry & Co., Ltd., "Perry" Steel Pens and other Stationery Items. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

PIRIE, APPLETON & CO., LTD., Manufacturing Stationers, Chadwell Heath Mill, Essex. Agents: Wiggins, Teape & Alex. Pirie (Export) Ltd., Kamani Chambers, Nicol Road, Ballard Estate.

STEAM, DIESEL & ELECTRIC LOCOMOTIVES & SPARES

Vulcan Foundry Ltd., Newton-Le-Willows, Lancashire, England. Sole Agents: Heatly & Gresham Ltd., 9 Forbes Street, Fort.

STEAM & WATER TURBINES

Hayward Tyler & Co., Ltd., Luton. Steam Turbines. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Hitachi Limited. Tokyo, Japan, Steam & Water Turbines. Sole Distributors: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

Turbin Aktiebolaget de Laval Ljungstrom, Finspong and Nacka, Sweden. Manufacturers of Steam and Gas-Turbo-Alternators. Representatives: Asea Electric India, Private Limited, Yaffi Building, Goa Street, Ballard Estate.

STEAM TRAPS & VALVES

Richard Klingers Ltd., Klingerit Works, Sidcup, Kent. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Dr. Dadabhoy Naoroji Road, Bombay 1.

Velam Engineering Co., Ltd., 18/22, Erskine Street, Leicester, England. Agents: Hardcastle, Waud & Co., Private Ltd., Alice Buildings, Bombay 1.

STEEL

C. D. Walzholz, Hohenlimburg, Germany. Cold Drawn Steel Strips, Wire, Section and Profiles. Distributors: F. Bock & Co., Shale Building, Bank Street, Fort, Bombay 1.

STAHLUNION-EXPORT G.m.b.H., Dusseldorf. Steel materials, Machine Tools and Engineering Products of all kinds. The Stahlunion Company Limited, 61, Pall Mall, London, S.W.1. The Stahlunion Company Limited, India House, 4th Floor, Fort Street, Bombay 1. Telegraphic Address: "MARCASTEEL," Bombay. Branch Office: Calcutta.

STEEL & BRASS

Harrison (Birmingham) Ltd., Bradford Street Works, Birmingham 12. Agents: Soho House, Lohar Street, Bombay 2.

Vossloh Werke, G. m. b. H., Werdohl, Westfalia, Germany (Brit. zone). Agents: Soho House, Lohar Street, Bombay 2.

STEEL (STAINLESS) & ALLOY

Brown Bayley Steels Ltd., "Riverdale", Riverdale Road, Sheffield 10. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

Fox (Samuel) & Co. Ltd., Sheffield, England, Alloy and Stainless Steel Sheets, Bars, Strip and Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL CASTINGS & FORGINGS

Darlington Forge Ltd., Darlington, County Durham, England. Steel Castings and Forgings. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, heavy C. S. castings and Metal Working Tools. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

Wm. Beardmore & Co. Ltd., Glasgow. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

STEEL MANUFACTURERS

Appleby-Frodingham Steel Co., Scunthorpe, England. Mild Steel Plates for Shipbuilders, Bridge builders, Structural Engineers, Boiler Makers, etc. Steel Angles, Channels, Joists, Tees, and Flats. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

ARTHUR LEE & SONS LTD., Sheffield, (Lee of Sheffield Ltd.), Sheffield, England. Manufacturers of Cold Rolled Steel Strips, Free cutting Steel, Bars, Rounds and Hexogons, Stainless Steel Strips, High Tensile Steel Wires, etc. Representatives for Bombay:—Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Dorman Long & Co. Ltd., Middlesborough, England. Agents: Balmer Lawrie & Co., Ltd., 5, Graham Road, Ballard Estate, Bombay. Phone: 261494 (3 lines). Grams: "BALMER".

Dunford & Elliott (Sheffield) Ltd., Attercliffe Wharf Works, Sheffield, England. Mining Drill Steel Bars. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Edgar Allen & Co., Ltd., Sheffield. Makers of High Speed Steels, Heavy C. S. Castings and Metal Working Tools. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

English Steel Rolling Mills Corporation Ltd., Sheffield. Tool & Alloy Steel. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort.

Exors of James Mills, Ltd., Stockport. Agents: Guest, Keen, Williams (P) Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Guest, Keen & Nettlefolds (South Wales), Ltd., Cardiff. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

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Hallamshire Steel Co., Ltd., Hallamshire Works, Sheffield 3, England. Manufacturers of Black & Bright Bars in Alloy & Special Carbon Steels, Wire & Rods, etc. Sole Agents: H. Choksi & Co., Ltd., 106/108, Medows Street, Fort, Bombay.

Huntsman B. (Sheffield) Ltd., Sheffield, England. High Speed and Tool Steel, Hacksaw Strip. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Johnson Richard & Nephew Ltd., Manchester, England. Mild and High Tensile Steel Wire. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Power, Fredrick A. & Sons (Saltley) Ltd., Edgbaston, Birmingham, England. Bright drawn Steel Bars. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Steel Company of Wales Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Steel Peech & Tozer, Sheffield. Mild & Carbon Steel Bars, Strip & Strapping, Forgings, Wheels, Axles & Tyres. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Summers, John & Sons Ltd., Hawarden Bridge Steel Works, Shotton, Chester, England. Steel Sheets. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

TINSLEY ROLLING MILLS CO. LTD., Sheffield, England. Manufacturers of Silico Manganese Spring Steel to EN-45A Quality. Representatives for India: Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

United Steel Companies Ltd., Sheffield, England. Sole Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL PRODUCTS

Firth Cleveland Steel Strip Ltd., Mfrs. of Cold roll, hardened and tempered Steel strips. Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Firth Co. Ltd., England. Mfrs. of High Carbon, boric and Acid Steel wires and other Steel Products. Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Richard Hill Ltd., England. Mfrs. of Steel wire, Rods and M. S. Bars. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

STEEL ROLLS

Daniel Doncaster & Sons Ltd., Sheffield. Hardened rolls for cold rolling. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

Steel Peech & Tozer, Sheffield. Forged unhardened rolls for hot re-rolling. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STEEL SCAFFOLDINGS

Acrow Engineers (Export) Ltd., South Wharf, London W.2. Steel Scaffolding and Formwork for Building and Road work. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

STEEL STRIPS

Steel Peech & Tozer, Sheffield; Strips for Bicycle Mudguards, Rims etc. Representatives: The United Steel Companies (India) Private Ltd., Himalaya House, Hornby Road, Fort.

STONEBREAKERS & GRANULATORS

Baxter W. H. Ltd., Leeds. Knapping Motion Stonebreakers and Granulators. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

STRADDLE CARRIERS

Conveyaneer Fork Trucks Ltd., Warrington, England. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

STUD WELDING EQUIPMENT

Crompton Parkinson Ltd., London. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

SUGAR MACHINERY

A. F. Craig & Co. Ltd., England. Complete Sugar Plant. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Associated Engineering Manufacturers of Australia Pty Ltd., Bowen Street, Maryborough, Queensland, Australia. Sugar Machinery. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

SURGICAL GOODS AND INSTRUMENTS

Smith & Nephew Ltd., Surgical Dressings 'Elastoplast', 'Gypsona', etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Thos. Glover and Son, Ltd., "Verlog" Kneecaps, Anklets etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

SURVEYING INSTRUMENTS

Carl Zeiss Jena, East Germany. Sole Agents: Ghordandas Desai Private Ltd., Kermani Building, Sir P. M. Road, Bombay 1.

COOKE TROUGHTON & SIMMS LTD., England. For Engineers' Block Levels, Gauges, Surveyors' Levels, Theodolites, Tellurometers, etc., etc. Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

TAPE RECORDERS

Magnecord Inc., Division of Midwestern Instruments Inc., Tulsa, Oklahoma, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Simon Sound Service, Ltd., London W. 1, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TEA MACHINERY

Russell Constructions (Export) Ltd., London, England. Agents: Kilburn & Co. Ltd., P.O. Box No. 565, Bombay 1.

TELEGRAPH & RADIO COMMUNICATION EQUIPMENT

Great Northern Telegraph Works. Division of the Great Northern Telegraph Co., Ltd., Copenhagen S V, Denmark. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TELEPHONE EQUIPMENT

Telephone Manufacturing Co., Ltd., Hartell Road, West Dulwich, London. Agents: Hindco, 27, New Queen's Road, Bombay 4.

TELEPHONE, TELEGRAPH AND CARRIER COMMUNICATION APPARATUS

Automatic Electric International Corpn., Chicago 7, Illinois, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

Lenkurt Electric Co., Calif., U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TESTING AND MEASURING INSTRUMENTS

J. Goulder & Sons Ltd., Huddersfield, England. Gear Testing and Measuring Instruments. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Bombay 1.

TESTING MACHINES (PHYSICAL)

A. M. ERICHSEN & SON, Germany, for Sheet Metal Testing Machinery. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

COATS MACHINE TOOL CO., U.K., for Shores Sclerscopes, Hardness Testers etc. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

SOLUS SCHALL LTD., U.K., for Non-destructive Testing Equipment. Sole Agents: Pioneer Equipment Co. Private Ltd., 139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi & Madras.

TEXTILE ENGINEERS

Allen Beam Co., New Bedford, Massachusetts. Wraper Beams, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Bates Textiles Machine Co., Ltd., Leicester, England. Hosiery Finishing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

British Northrop Loom Co., Ltd., Daisyfield, Blackburn, England. Automatic Looms. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Cocker Machine and Foundry Co., U.S.A. High Speed Warping & Sizing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Durrant, G., & Sons, Ltd., Textile Specialists. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Erust Toenniessen KG, Mauerkircherstrasse 86, Munchen 27, W. Germany. Representative in India: T. M. Desai & Co., Post Box No. 617, Commerce House, 4th Floor, 140, Medows Street, Fort, Bombay 1. Phone: 262633, Grams: "TIMDESAI".

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Hans Schmidt & Co., Pfaffatrasse 6, (14a) Esslingen. a.N., Dent—W. Germany. Representatives in India: T. M. Desai & Co., Post Box No. 617, Commerce House, 4th Floor, 140, Medows Street, Fort, Bombay 1. Phone: 262633. Grams: "TIMDESAI".

Kershaw (H.), & Son, Ltd., Mossley. Roller Cloth, Sizing Flannel, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Lang Bridge Ltd., Accrington. Cotton Bleaching, Dyeing, Printing and Finishing Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Leesona Corporation, Providence, U.S.A. Mnfrs. of Textile Winding Machinery, Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

O'Neill, S., & Sons, Ltd., Paper Cones & Tubes. Sole Representatives: W. H. Brady & Co., Ltd., Veer Nariman Road, Fort, Bombay 1.

Petrie & McNaught Ltd., Rochdale, England. Wool Washing, Carbonising and Drying Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Sanderson & Co. (Textile Engineers), Ltd., Manchester, England. Yarn Conditioning Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Tatham (William) Ltd., Belfield Works, Rochdale, England. Cotton Waste and Woollen Machinery. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Tragasol Products Co., Ltd., Hooton. Gum Tragasol and Gum Tragon for sizing and finishing. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Whitley E. Gordon, Leeds, England. Woollen & Worsted Finishing Machinery, etc. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Wilson & Ingham. Mirfled Card Clothing, Burnishing and Stripping Brushes. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

Woonsocket Napping Machine Co., Woonsocket, U.S.A. Raising Machines. Sole Representatives: W. H. Brady & Co., Ltd., 12/14, Veer Nariman Road, Fort, Bombay 1.

TEXTILE MACHINERY & EQUIPMENT

China National Import & Export Corporation, Tientsin, China. Sole Agents in India: Hooseinbhoy A. Lalljee & Sons, Navsari Bldg., Dadabhoy Naoroji Road, Bombay 1.

Lindemann Kommanditgeselischaft, Dusseldorf, Germany. Scrap Sheers & Presses, Hydraulic Balling Presses. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Platt Bros. & Co., Ltd., Oldham. Cotton Gins & Openers. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

TEXTILE & TECHNICAL PUBLICATIONS

NIXON (ALFRED) SON & TURNER, Chartered and Incorporated Accountants, 40, Brazennose Street, Manchester 2, England. British Representatives for The Indian Textile Journal, (Private) Ltd., Military Square, Fort, Bombay.

THERMOMETERS

British Rototherm Co., Ltd., London. Industrial Thermometers. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

TOILETRIES

Delavelle (G. B.) Ltd., "Go" Stick Deodorant, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Gala of London Ltd. Nail Colour, Lipsticks, Liplines, etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Morny, Ltd. Perfumery & Toilet Specialists. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Smith & Nephew Ltd., "Nivea" Creme etc. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

Thomas Christy & Co., Ltd., Glycothymoline, Liquid Lanoline and Zepto Tartar Removing Pencils. Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

TOOLS MFRS.

ACKERMANN U. SCHMITT K. G., Postfach 28, Stuttgart, 13, Germany, Electric Tools. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Austin, Payton & Co., Ltd., England. Warrior Brand Taps and Dies, manufactured by Nuckey, Scott & Co., Ltd., England. Agents: Armstrong Smith Private Ltd., 1, Sir Phirozshah Mehta Road, Bombay 1.

Britool Limited, Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Fort, Bombay.

Cumbrian Tools Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Elliott-Lucas Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

English Steel Tool Corporation Ltd., Manchester, Sheffield. Engineers' Small Tools, Files, Hacksaw Blades, etc. Sole Concessionaires: Greaves Cotton & Co., Ltd., 1, Forbes Street, Fort, Bombay.

Hack Saws Ltd., England. "Aven" Hacksaw Blades, Frames and Metal Cutting Band Saws. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Ideal Machine Tools & Eng. Co. Ltd., England. Precision Tools. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

J. E. Baty & Co., Ltd., Burgess Hill, Sussex. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

James Neill & Co., (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Job Wheway & Son Ltd., England. Electrically Welded Steel Chains, Shackles, Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Peter Stubs Ltd., England. Files, Gravers, Scrapers, Tool Holder Bits, Tool Steels. Agents: Armstrong Smith Private Limited, 1, Sir P. M. Road, Post Box No. 185, Bombay 1.

Thor Hammer Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Tom Carrington & Co. Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Turton Bros. & Matthews Ltd., Sheffield. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

VEERKOOPKANTOOR VANDER HEEM N. V., Maaniveg 256, The Hague, Holland. Electric Drills. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

Wm. Gilpin Senr. & Co., (Tools) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

TOOL STEEL

B. K. Morton & Co., Ltd., Sheffield, England. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

Horbach & Schmitz G.m.b.H. Kolu, W. Germany. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

Low Moor Alloy Steel Works, England. Agents: Dharamdas M. Jhaveri & Co., 108, Jhaveri Bazar, Bombay 2.

Rayo Steel Works, Sheffield. England. Representatives: D. M. Harishanker Narbheram & Co., 94, Kansara Chawl, Kalbadevi Road, Bombay 2.

WALTER SPENCER & CO., LTD., Sheffield, England. Manufacturers of Highspeed Steel, Alloy Tool Steel, Carbon Tool Steel, etc., etc. Milling Cutters, Twist Drills, Reamers, Slitting Saws, Files, Carbide Tipped Tools, Lathe Tools, etc. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort, Bombay. Phone: 263449. Grams: "IMPENG."

TOWER CRANES

H. Liebherr, Germany. Tower Cranes. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

TRACTION GEARS AND UNITS

Wiseman, Alfred & Co. Ltd., Glover Street, Birmingham 9. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

TRACTORS & PLOUGHS

International Harvester Export Co., Chicago, U.S.A. Agricultural Machinery and Implements. Sole Distributors: Voltas Limited, Chinchpokli Road, Bombay 12.

John Fowler & Co., (Leeds) Ltd., Leeds. Diesel Crawler Tractors from 40 BHP to 150 BHP. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Marshall, Sons & Co., Ltd., Gainsborough. Diesel Tractors (Wheel Types). Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

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TRAIN LIGHTING BATTERIES & ACCUMULATORS

Pritchett & Gold Batteries (Eastern) Ltd. Manufacturers of Accumulators of all types, London Office: Victoria, London. Heatly & Gresham Ltd., P. O. Box No. 1774, Bombay. Telephones: 255756 & 255757. Director & General Manager: Niren N. Ghose, J.P., D.F.H. (Lond.), A.M.I.E.E.

TRANSFORMERS

BRYCE ELECTRIC CONSTRUCTION CO., LTD., Kelvin Works, Hackbridge, Wallington, Surrey, England. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

Hitachi Ltd., Tokyo, Japan. Transformers. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

Yorkshire Electric Transformer Co., Ltd, Dewsbury. Transformers. Sole Agents: Marshall, Sons & Co. (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Zenith Electric Co. Ltd., London, N.W. 2, England. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

TRAVELLING REQUISITES

Fibre Case Co. Ltd., 36/8, Peckham Road, London, S.E. 5. Agents: Soho House, Lohar Street, Bombay 2.

TRUCKS & STACKERS (BATTERY)

Earnest Wagner Apparatebau, West Germany. Agents: Consolidated Eng. Equipment Co., Mherwan Building, Sir P. M. Road, Fort, Bombay.

TYGAN FLYSCREENING

Fothergill & Harvey Ltd., Manchester. Agents: Killick, Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

TYGLAS INSULATION

Fothergill & Harvey Ltd., Manchester. Agents: Killick, Nixon & Co., Private Ltd., Killick House, Home Street, Fort.

TYPEWRITERS, CALCULATORS, ADDING MACHINES & TELEPRINTERS

Paillard Ltd., Yverdon (Switzerland). Hermes Typewriters. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

VACUUM BRAKE EQUIPMENT

Vacuum Brake Co., Ltd., Victoria House, Mill Houses, Sheffield 8, London, S.W. 1. Locomotive and Rolling Stock Fittings. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

VACUUM CLEANERS & FLOOR MAINTENANCE MACHINES

Breuer Electric Mfr. Co., Chicago 6, Illinois, U.S.A. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

VALVES (WATERWORKS)

Ham Baker & Co., Ltd., England. Valves, Penstocks Fittings, etc. Agents: John Fleming & Co., Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

J. Blakeborough & Son, Ltd., Brighouse. Makers of Valves all types, and other Waterworks Appliances. Agents: Richardson & Cruddas Ltd., Byculla, Bombay 8.

VEE ROPE MFRS.

Fenner, J. H., & Co., Ltd., Marfleet, Hull, England. V-Belts and V-Belt Drives. Agents: Greaves, Cotton & Crompton Parkinson Ltd., 1, Forbes Street, Bombay 1.

VENTILATORS

Greenwood & Airvac Ventilating Co., Ltd., Kingsway, London. Manufacturers of Airvac Ventilators and Railway Carriage Ventilating Fittings. Sole Agents: J. D. Jones & Co. (Bombay) Private Ltd., Rustom Building, Veer Nariman Road, Fort.

Robertson, Thain Ltd., Mersey Iron Works, Ellesmore Port, Wirral, Cheshire. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

VETERINARY SPECIALITIES

Bob Martin (Export) Ltd., "Condition Tablets and Dog Remedies." Sole Agents: J. L. Morison, Son & Jones (India) Private Ltd., Contractor Building, Nicol Road, Ballard Estate, Bombay 1.

VIBRATORY SCREENS

Niagara Screens (Great Britain) Ltd., Middlesex. Sole Agents: Killick Nixon & Co. Private Ltd., Killick House, Home Street, Fort.

WALKING DRAGLINES

Page Engineering Co., U.S.A. Walking Draglines. Sole Distributors: William Jacks & Co. Ltd., Hamilton House, Graham Road, Ballard Estate.

WATER FILTRATION

CANDY FILTER CO., LTD., London, Manufacturers of all types of Water Purification and treatment Plant. Representatives: Candy Filters (India) Private Ltd., Forbes Bldg., Home Street, Fort, Bombay.

Metafiltration Co., Ltd., Hounslow, Middlesex. Metafilters for Laboratory and Industrial use. Agents: Roberts McLean & Co., Ilaco House, Sir Phirozshah Mehta Road.

WATER METERS

Aquametro Ltd., Basle, Switzerland. Sole Distributors: Voltas Limited, Ballard Estate, Bombay 1.

Bergins Co., Ltd., The, Glasgow. Agents: India Metal Agencies, Post Box No. 1966, Bombay 1.

Cleveland Meters Ltd., Yorkshire. Makers of Industrial Meters. Agents: Richardson & Cruddas, Ltd., Byculla, Bombay 8.

CONTGEA Bruxelles, Belgium. Manufacturers of Water Meters, Gas Meters and Geysers. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 263449. Grams: "IMPENG."

Taylors of London Ltd., London, England. Water Meters, Waste & Cocks Fittings. Agents: John Fleming & Co. Private Ltd., Bastion Road, Fort, Bombay 1. Phone: 261153.

WATER PURIFICATION & SCALE PREVENTING DEVICES

Epuro Limited, Antwerp, Belgium, Water Purification Plants, Electro Magnetic Devices for anti-Calcareous treatment of Water, Sugar-cane Juice, etc. Contact: Ratansi Morarji Private Limited, Prospect Chamber, 317/21, Dr. Dadabhoy Naoroji Road, P.B. No. 1270, Bombay 1.

WEIGHBRIDGES

Ashworth, E. & A. Ltd., Crown Engineering Works, Staincliffe Road, Dewsbury, Yorks, England. Scales & Weighbridges. Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

WEIGHING MACHINES

Aktiebolaget Stathmos, Eskilstuna, Sweden. Sales Distributors: Motwane (Private) Ltd., 127, Mahatma Gandhi Road, Bombay 1.

WELDED STEEL WIRE FABRIC

British Reinforced Concrete & Engineering Co., Ltd., Lichfield Road, Stafford, England. Sole Agents: Heatly & Gresham, Ltd., 9, Forbes Street, Fort.

WELDERS (ELECTRIC & GAS)

A. I. ELECTRIC WELDING MACHINES LTD., Rose Street, Inverness, England. Representatives: James Finlay & Co. Ltd., P.O. Box No. 73, Bombay 1.

WELDING EQUIPMENT

AB Asea Svetsmaskiner, Stockholm, Sweden. Manufacturers of Electric Welding Equipment and Electrodes of all types. Representatives: Asea Electric India Private Limited, Yaffi Building, Goa Street, Ballard Estate.

Donald Ross & Partners Ltd., Twinner Works, Gatwick Road, England. Holding, Positioning and other Ancillary Equipment for Arc Welding Process. Agents: Guest, Keen, Williams Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

Elextriska Sevkningstktiebolaget "ESAB", Sweden. Magnetic Crack Detectors, Welding Plants, etc. Agent: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

F. Bode & Sons Ltd., England. Welding positioners and fixtures for welding operation. Agents: Armstrong Smith Ltd., 1, Sir P. M. Road, Bombay 1.

New Process Welders Ltd., England. All Types of Spot Welders, Seam Welders, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Welding Supplies Ltd., England. Electrodes & Welding Plants, Magnetic Crack Detectors, and Gas Cutting Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

WINDOW & DOOR FITTINGS (TRANSPORT)

E. Hill Aldam & Co. Ltd., Britannic Works, Red Lion Road, Tolworth, Surbiton, Surrey, England. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

WINDOWS FOR RAIL, ROAD AND MARINE TRANSPORT

Beckett Laycock & Watkinson Ltd., Acton Lane, London, N.W. 10. Sole Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort.

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WINE & SPIRITS

Drambuie Liqueur Co. Ltd., 12, York Place, Edinburgh 1. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Martell & Co., Cognac, France. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

Wm. Gaymer & Co., Ltd., Attleborough-Norfolk, England. Sole Distributors: Spencer & Co., Ltd., Spencer's Building, Forjett Street, Bombay 26.

WIRE BRUSHES

Gem Brushes (Luson) Ltd., Gem Works, Minerva Road, Park Royal Road, London, N.W. 10. Sole Agents: Datson, Raviraj & Co. (Private) Ltd., 43, Tamarind Lane, Fort, Bombay. Phone: 39333.

WIRES & CABLES

British Insulated Calenders Cables Ltd., London. Agents: Killick Nixon & Co., Private Ltd., Killick House, Home Street, Fort, Bombay.

WIRE PRODUCTS

Firth Co. Ltd., England. Mfrs. of High Carbon Basic and Acid Steel Wires and other Steel Products. Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Richard Hill Ltd., England. Mfrs. of Spoke Wires, Roping Wire and 'Maxweld' Electrically welded screen cloth. Sole Agents in India: Alsales Ltd., 9, Wallace Street, Bombay 1.

Somerset Wire Co. Ltd., Somerset. Wire for Rope and Spring Making, Pre-stressed Concrete Wire. Agents: Guest, Keen, Williams, Ltd., Wakefield House, Sprott Road, Ballard Estate, Bombay 1.

WIRE ROPE MANUFACTURERS

British Ropes Ltd., England. Mfrs. of Steel Wire Ropes, Manila, Sisal and Nylon Ropes, Canvas and Tarpaulins. Sole Agents: Alcock Ashdown & Co. Ltd., Defence Works, Mazgaon, Bombay 10.

Bruntons (Musselburgh) Ltd., Scotland. Agents: Kilburn & Co. Ltd., P. O. Box No. 565, Bombay 1.

HALL'S BARTON ROPERY CO., LTD., 100, New Cleveland Street, Hull, England. Representatives: James Finlay & Co., Limited, P.O. Box No. 73, Bombay 1.

JOHN SHAW LTD., Workshop, England. Manufacturers of Steel Wire Ropes. Representatives for Bombay: Eastern Trading & Engineering Co., Alice Building, 3rd Floor, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Thos. Holdsworth, & Sons Ltd., Drighlington, England. Sole Agents in India: Anil Private Ltd., 57 Stock Exchange, New Building, Apollo Street, Fort, Bombay 1.

Whitecross Co. Ltd., England. Wire Ropes. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wrights Ropes Ltd., Steel wire ropes of all descriptions. Sole Agents: William Jacks & Co., Ltd., Hamilton House, Graham Road, Ballard Estate.

WIRELESS TRANSMITTERS & APPARATUS

Nera, P.B. 4060, Pilestredet 75c, Oslo, Norway. Agents: E. W. Stevens & Co., Private Ltd., 4, Ballard Road, Bombay 1.

Radio Corporation of America, RCA Building, 30, Rockefeller Plaza, New York 20, N.Y., U.S.A. *via*: E. W. Stevens & Co., Private Ltd., 4, Ballard Road, Bombay 1.

Robertson Radio-Elektro, P.O. Box 75, Egersund, Norway. Agents: E. W. Stevens & Co., Private Ltd., 4, Ballard Road, Bombay 1.

WOOD PULP

FINNISH CELLULOSE ASSOCIATION, S Esplanadgatan 2, Helsinki, Finland. Representatives: James Finlay & Co., Ltd., P.O. Box No. 73, Bombay 1.

WOOD TREATMENT

Pratchitt Brothers Ltd., Denton Ironworks, Carlisle, England. (Timber Impregnating Plant). Sole Concessionaires: Greaves Cotton & Co., Ltd., 1 Forbes Street, Fort, Bombay.

WOODWORKING TOOLS, SAWS & FLOUR MILLING MACHINERY ETC.

Albert Fezer, Germany. Spindle Moulding Machines and Other Wood Working Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

C. & J. Hampton Ltd., Sheffield, England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay.

ELSWORTH LTD., Sheffield, England. Manufacturers of Woodworking Saws and Woodworking Tools. Agents: Gaytee & Co., Janmabhoomi Chambers, Fort Street, Bombay. Phone: 263449. Grams: "IMPENG."

Emil Sachs, Germany. Thicknessing Planner, Heavy Duty Smooth Planing, Jointing and Moulding Machines, Upright Chain Mortising machines, tenoning & Slotting Machines and other wood working machinery. Agent: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Gebruder Canali, Germany. Woodworking Machinery & Wood Wool Manufacturing Machinery. Agent: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

James Neill & Co. (Sheffield) Ltd., England. Sole Agents: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Building, Sir P. M. Road, Bombay.

Mafell Maschinenfabrik, Germany. Powerful Portable and Stationary Woodworking Machines, like Saws, Routers, Jointers, Planers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Max Striffler K. G., Germany. Complete Range of Portable Woodworking Tools. Pattern Making Machines. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Taylor, Brothers (Saws) Ltd., England. Representatives: Elliott Waud & Hill Private Ltd., 1-2, Lakshmi Bldg., Sir P. M. Road, Bombay 1.

Thomas Robinson & Son Ltd., Rochdale. Woodworking and Flour Milling Machinery. Sole Agents: Marshall, Sons & Co., (India) Ltd., Marshall's Building, Ballard Road, Bombay 1.

Wadkin Ltd., England. Woodworking Machinery of all types, *viz.*, Planers, Moulders, Routers, etc. Sole Distributors: William Jacks & Co. Ltd., Bharat House, Apollo Street, Bombay.

WORKSHOP MACHINES

B. O. Morris Ltd., England. "Morrisflex" Flexible Shaft Equipment for Motor Garages, Workshops and for Boiler Descaling. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Berg & Schmid, Germany. Power Driven Rail Saws, Hammer Drills, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

C. & E. Fein, Germany. Heavy Duty Portable Electric Drills with Universal Motors, 440 volts AC. Drills, Slow Speed Drills, Multispeed Drills, Right Angle Drills and Attachments, Screw Drivers, Impact Wrenches, Valve Grinders, Tappers, Tool Post & Precision Lathe Grinders, Brake Drum & Journal Grinders, Shears, Nibblers, Pipe Cutting Saws, Stone (Rock) Drilling Machines, Hammers, etc. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Lawler Ayers & Co. Ltd., England. Hydraulic Head Operated Tube Bending as well as power operated Bending & Cutting Machinery for Pipes & Bars. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Remswerk Germany, Germany. Ratchet Operated, Tangential Pipe Dies. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

Wandsbeker Werkzeug Gesellschaft, Germany. "Barson" Range of Metal Cutting Machinery. Agents: Armstrong Smith Private Ltd., 1, Sir P. M. Road, Bombay 1.

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COMMERCIAL FIRMS

A. A. MORBIWALA & CO., Importers & Suppliers of Iron, Steel & Wires of all kinds. 190/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VARNISH".

A. BOAKE, ROBERTS & CO. (INDIA) PRIVATE LTD.—Manufacturers of Flavouring Essences & Aromatic compounds. 107, Mahatma Gandhi Road, Bombay 1. Phone: 252877, Grams: "FLAVAROM", *Regd. Office:* Madras. *Branch:* Calcutta.

A. C. E. C. INDIA PRIVATE LTD., 96, Apollo St., P. B. 893, Bombay 1; Importers and Stockists of heavy electric Motors; Wires and Cables; Static Condensers; Transformers, Switchgears, etc.

A. K. Porbandarwalla & Sons, Paint Merchants. 19, Parsee Bazar Street, Bombay 1.

A. M. Master & Co., Weights & Measures Merchants. 179–81 Janjikar Street, Bombay 3.

A. V. R. A. & Co., "Remey" brand Tolletries manufacturers. Lalsing Building, Lohar Chawl, Bombay 2.

A. M. Motiwalla & Co., Shipchandlers. 213, Nagdevi Street, Bombay 3.

A. N. Seth & Co., Machinery & Millgin Stores. 127, Narayan Dhuru Street, Bombay 3.

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Abdoolally Noorbhoy, all kinds of Glass and Plywood Merchant, Govt. & Rly. Contractor, Noorbhoy House. 122-24, Abdul Rehman Street, Bombay 3. Tel. No. 23156. Works: 248-A, Duncan Road, Bombay 8. Tel. No. 41980. Grams: "PATTYMART".

Abdoolally Noorbhoy, Dealers in Arms, Ammunition and Shikar requisites, 248-252, Abdul Rehman Street, Bombay 3. Tel. Address: "Guidance." Phone No. 20664.

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ABRAHAM, SHAH & SONS. Freight Brokers & Commission Agents, Hague Building, Sprott Road, Ballard Estate. Tel: 263994. Residence: 24-5876 & 242958.

Abrawheel Private Ltd., Dealers in Abrasives. 159, Nagdevi Street, Bombay 3.

Acme Bobbins & Shuttles (Private) Ltd., Manufacturers of Bobbins and Shuttles for Cotton, Woollen, Silk and Jute. Speciality in Northrop Automatic Shuttles and Jute Shuttles, Raja Bahadur Mansion, 8, Hamam Street, Fort. Telegrams: "Correctfit." Phone: 255358. Factory at: Corner of Ash Lane, Cadell Road, Dadar, Bombay 28. Phone: 61964.

ACME MANUFACTURING CO. LTD., THE, *Registered Office:* Construction House, Ballard Estate, Bombay-1. Phone: 265471 (5 lines). *Managing Agents:* Walchand & Co. Private Ltd. Engineers & General Machinists. Manufacturers, Cooper Diesel Engines, Mechanical Forcedfeed Lubricators, Auto Valves, Automobile Accessories and Railway Spares. *Factory:* Antop Hill, Wadala, Bombay. Grams: "ACMERAY", Dadar. Phone: 62717.

ACME TILES MFG. CO., Manufacturers of Marble and Tiles. 494, Duncan Road, Bombay 4. Phone No. 72587. Grams: "EKMITILE."

Adair Dutt & Co. (India), Ltd., Importers and Dealers of all kinds of Scientific Instruments; Photographic Cameras. Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort. Phone: 263558. Grams.: "LABORIND". Head Office: Calcutta.

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Telephone Connections:
Head Office: 25-1144 & 25-4227.
Residence: 72960.
Telegraphic Address: "Steelyard."

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Adeen & Krips Engineering Co., 419/A, Commerce House, Medows Street, Bombay 1.

Advance Trading Corporation, Importers of Bicycles & Accessories. Hathi Building, Bhangwadi, Kalbadevi Road, Bombay 2.

Adverts Private Limited. (Advertising & Publicity Service), Established in 1945, Syndicate Bank Bldg., Sir Phirozshah Mehta Road, P.O. Box 1838, Bombay 1. Phones: 26-3374 (Gen. Office), 26-5317 (Dir. Personal). Grams.: "Strevda".

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India :—Saurashtra Pipes Private Ltd., Saurashtra.

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General Manager & Electrical Adviser : J. C. Kapur.

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Alibhoy Kadibhoy Kachwala, Glass and Plywood Merchant, 84, Abdul Rehman Street, Bombay 3.

All India Construction Co., Ltd., The, Construction House, Ballard Estate, Bombay. Constructional Engineers and Specialists in Asphalt Road Construction.

All-India Electric Co., Electrical Merchants. 76-78, Dwarkadas Bldg., Mangaldas Road, Bombay 2. For details see in "Electric Goods".

All India Glass Works Private Ltd., Glassware & Bottles Mfrs. 111, Bhandari Street, Bombay 3.

ALL INDIA HERB SUPPLY CO., PRIVATE LTD., 119, Lohar Chawl, P.O. Box No. 2051, Bombay 2. Phone : 30982. Grams : "LIQUORICE". Crude drugs, drugs & medicines, Botanical Herbs, Pharmaceutical Chemicals, Spices, etc.

All India Surgical Co., Manufacturers of Deformity Appliances and Artificial Limbs, 125, New Charni Road, Bombay 4. Phone : 71767.

Alexandra Engineering Works Private Ltd., Engineers, Contractors & Pipe Fitting Mfrs. 29, Quay Street, Darukhana, Bombay 10.

Alliance Electric Mart, Electrical Merchants, 67, Lohar Chawl, Bombay 2.

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Proprietors of :

Mohamadi Fine Art Litho Works, and Matba-e-Mohamadi (Mohamadi Litho Press).

Matba-e-Mohamadi (Mohamadi Litho Press), Publishers of Holy Quran, Arabic, Persian and other calliographed literature, Mohamadi Building, Mazgaon, Bombay 10.

Shop : 373, Ebrahim Rahimtullah Road, Bombay 3. Telephone : 77711.

Branch : 75, Arab Street, Singapore.

Grams : "WARAWALLA," Singapore. Phone : 37639.

Allied Drawing Stores. Sitaram Building, 29, Hornby Road, Bombay 1. Phone : 261403. Telegrams : "ARTCORNER."

Allied Engineers (Associates of N. Dinshaw & Co.), Licensed Electrical Contractors & Engineers, 14, Ismail Building, Flora Fountain, Bombay-1. Phone : 253488.

ALLIED EXPORTERS, Importers, Exporters & Manufacturers' Representatives. Importers :—Cotton, Woollen, Silk & Art Silk Piece-goods & Yarn, Readymade Goods, Hosiery, Stationery, Papers, Electrical Goods, Cables & Wires, Machinery and Parts, Cutlery, Hardware, Glassware, Automobile Spare Parts and Accessories and Garage Equipment, etc. Exporters :—Cotton Piece-goods, Oil seeds, Oil-cakes, Gunny Bags, Hessian Cloth, Spices, Glassware, Carpets, Raw Cotton and Cotton Waste, etc. Kumud House, 267, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, P.O. Box 1422, Bombay. Phones : 80137 (Residence) and 265220 (Office). Grams : "Alexport." Agencies :—Africa, China, Japan and the Middle East Countries. Prop. : G. K. Inamdar.

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Doshee; No. 34, Mount Road, Madras 2. Grams: "Gevaphot". *Branch Manager:* P. P. Rama Iyer; Mahants Building, 22-A, Asaf Ali Road, New Delhi 1. Grams: "Assophot". *Branch Manager:* C. A. Padmanabhan.

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Distributors for :—

Zeiss-Ikon products: Zeiss Ikon A. G. Stuttgart (West Germany).

Allied Traders (India). Plastic Raw Material Merchants. 169, Masjid Bunder Road, Bombay 3.

Allied Trading Co., Paints & Varnish Merchants, 39, Nagdevi Street, Bombay 3.

ALLENBURRY ENGINEERS Pvt., LTD.,
15A, Horniman Circle, Fort, Bombay 1.
Phones: Office—255041
Factory—41297
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Industrial Packaging Specialists, Manufacturers of Card Board Boxes & Printed Collapsible Cartons; Specialists in Corrugated Papers, Boards and Boxes.

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ALSALES LIMITED, Importers, Exporters and Manufacturers' Representatives, 9, Wallace Street, Fort, Bombay 1.

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Stone-Wallwork Ltd., London S.W. 1, England. P. I. V. Gears, stamping machines, Metal Alloy pirns.

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Also at 5/127, Avanashi Road, Coimbatore. Phone No. 510.

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Directors: H. Holck-Larsen, S. K. Toubro, N. M. Desai (Ex-officio).

Selling Agents: Larsen & Toubro Ltd., P.O. Box 278, Bombay 1. Tel. Address: "LARSENBRO".

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Board of Directors:

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Amar Daxni & Sons, Diesel Engines & Spare parts dealers. Tamarind Lane, Bombay 1.

Amar Plastic Industries, Plastic Goods Manufacturers. Queen's Mansion, Bastion Road, Bombay 1.

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Amber Tips Private Ltd. (Estd. 1922), Tea & Coffee Wholesalers and Suppliers to Canteens, etc., 75, New Bardan Lane, Mandvi, Bombay 3. Phone: 34684.

Ambika Travel Service, Janmabhoomi Chambers, Near G.P.O., Fort Street, Fort. Travel Agents.

American Colour & Chemical Co., Chemicals & Dyestuffs Merchants. 79, D'Souza Street, Bombay 3.

American Electric & Engineering Co., Electrical Merchants. 11/12, Himalaya House, Palton Road, Bombay 1.

AMERICAN EXPRESS CO., INC., THE, International Bankers and Travel Agents. Oriental Building, 364, Dr. Dadabhoy Naoroji Road (P.O. Box No. 507), Bombay 1. Phones: 25-5021/4. Tel. Address: "Amexco."

American Express Bakery. Bakers, Confectioners & Caterers. Head Office and Factory: "A.E.B. House," Clare Road, Byculla, Bombay.

AMERICAN INTERNATIONAL UNDERWRITERS (INDIA), PRIVATE LTD., Warden House, 4th Floor, Sir Phirozshah Mehta Road, Fort. P. O. Box 1466. Grams: "AMINTIND." Tel.: 255215 & 252644.

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Residence Phone Nos. 73831, 67499 & 74660. Gram: "PILOTACE."

Office Telephone Nos. 252952-254103.

Amratlal Chaganlal & Co., Hardware & Wire Rope Merchants. 143 Nagdevi Street, Bombay 3.

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Branches at: Delhi, Madras and Amritsar.

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Direct Importers & Stockists of All Kinds of Chemicals.
Anand Bhuvan, Princess Street, Bombay 2. P.O. Box No. 2379.
Phones: 27034 & 27035 Grams: "CHEMDRUGS".
For Details See under Classified Trades Section "Chemical Importers & Stockists."

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ANCHOR LINE LIMITED, (Incorporated in Great Britain). The liability of members and/or Shareholders is limited. Neville House, Graham Road, Ballard Estate, (P.O. Box No. 383), Bombay 1. Head Office: 12-16, St. Vincent Place, Glasgow, C.1. Branches and Agencies: London, Liverpool, Manchester, Dundee, Londonerry, Belfast, Gibraltar, Marseilles, Port Said, Suez, Alexandria, Port Sudan, Bombay, Karachi, Calcutta, Madras, Colombo, and New York.

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Telephone Nos. 262294 to 262297 (four lines). Telegraphic Addresses: "Anchor", Bombay. "Anchor", Karachi. "Coshank", Calcutta. "Best" Madras. "Forsyth", Colombo.

Agents for the Cunard Steamship Co. Ltd., and also for Walter Runciman & Co., Ltd., Lamport & Holt Line Limited, Mungo, Campbell & Co. Ltd., J. & J. Denholm Ltd., J. & J. Denholm (Management) Ltd., J. & J. Denholm (Agency) Ltd., Donaldson Line Ltd., Athel Line Ltd., Sugar Line Ltd., Moor Line Ltd.

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Telephone No. 261355—Office.
,, No. 263054—Personal.
Calcutta—8, Clive Row, Calcutta 1.
Telegraphic Address: "Yuletide," Calcutta.
London—Yule, Catto & Co., Ltd., Orient House, New Broad Street, London. E.C. 2.
Telegraphic Add.: "Yuletide," London.

Anglo-American Dyestuffs Corporation (Private) Ltd., Importers & Stockists of Chemicals & Dyestuffs and Copper Printing Rollers, Prospect Chambers, Hornby Road, Fort. Tel: 254993.

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Branches: Bombay, Bangkok, Singapore, Penang and Kuala Lumpur.
Telegraphic Add.: "Ewart," Bombay.
Tel. No. 25-2261 (3 lines).
Manager: I. W. Revell.
Assistants:—
V. A. Castellino (Signs *per pro*),
N. H. Matthews ,,
Codes used: Bentley's, Acme and "New Standard" (half-word).
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The Great Eastern Life Assurance Co., Ltd.
Subsidiaries: Herbertsons Ltd., Tyresoles Concessionaries Private Ltd.
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ANIL ELECTRICALS, MFG. DIVISION OF (ANIL PRIVATE LTD.), 95, Stock Exchange New Building, Apollo Street, Bombay 1. Phone: 251153. Grams: "PRAMILA". Manufacturers of "ANILEC" Range of Automobile Electrical Accessories, Flame Proof Electric Motors, Vertical speed Motors, Submersible Motors & Generators. Factory Address: 333, Agra Road, Punjab Metal Works Compound, Ghatkoper.

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Apex Traders, Importer, Exporter & Commission Agent. Advani Chambers, Sir Phirozshah Mehta Road, Fort.

ARAS & ARAS, Rating Surveyors and Municipal Tax Consultants, 24, Dalal Street, Bombay 1.

Arc Brazer, The, Welding Engineers and Contractors. 84, Foras Road, Bombay 8.

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Ardesir Hormusji Dinshaw & Co., Solicitors and Notaries Public, 113, Mahatma Gandhi Road, Fort, Bombay.

Arlabs Private Ltd., India House, Fort Street, Bombay 1.

ARMSTRONG SMITH PRIVATE LTD., Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay 1. Postal Address: P.O. Box No. 185, Bombay 1. Telegraphic Address: "ARMSMIT", Bombay. Telephones: 255471/2.
Engineering Department:
Western Rly. Stores Lane, Haines Road, North, Mahalaxmi, Bombay 11. Telephone: 40229.

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Branches at :—

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Madras : 106, Armenian Street, Madras. P.O. Box No. 1618, Madras. Telegraphic Address: "ARMSMIT", Madras. Telephone : 5032 (4 lines).

Delhi : 9-10/3, Asaf Ali Road, New Delhi. P.O. Box No. 670, New Delhi. Telegraphic Address : "ARMSMIT", New Delhi. Telephone : 26749.

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Aromatic Products & Chemicals Private Ltd., Importers of Essential Oils, Aromatic Chemicals & Perfumery Raw Materials, 42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 253151. Grams : "DISCOVERY".

Artbangle Private Limited, Manufacturers of Celluloid Spectacle Frames, 204, Dr. Dadabhoy Naoroji Road, Fort. Phones : 26-1144 ; 26-5321-22. Factory at Mahatma Gandhi Road, Kandivli. Phone : 84186. Grams : "Artbangle."

Artistic Leather Goods & Accessories, Manufacturers of Ladies Handbags, No. 2, Phiroz Building, Apollo Pier Road, Fort, Bombay 1.

Artytoys, Toys and Packing Cases Mfrs., Sir Ratan Tata Road, Tardeo, Bombay 7.

Arvind & Co., Insurance Agents, Bombay Mutual Building, Sir Phirozshah Mehta Road, Fort, Bombay. Agents for Indian Trade & Gen. Ins. Co., Ltd. Tel. Address: "Selection." Phone No. 263232.

Arvinda Trading Co., Private Ltd., Mill Stores, Colours, Chemicals, 105, Apollo Street, Fort, Bombay. Tel. Address: "Radiant". Phone No. 251013.

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Asave Mehta & Co., Textile machinery, Machines & Spares. 24/B, Raja Bahadur Compound, Hamam Street, Fort.

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Turner Brothers Asbestos Co., Ltd., Rochdale, England.

Newalls Insulation Co., Ltd., Washington, England.

Sole Vendors for :

Ferodo Limited, Chapel-en-le-Frith, England.

J. W. Roberts Limited, Leeds, England.

Turners Asbestos Cement Co., Ltd., (Electrical Insulation Dept.), Manchester, England.

ASBESTOS PACKING & MANUFACTURING CO., 15, Bruce Street, Fort, Bombay 1. Phone : 251605. Grams : "FERRYLIGHT". Manufacturers of Asbestos Packings and Insulation Products.

ASEA ELECTRIC INDIA, PRIVATE LIMITED. Mfg. Electrical Engineers and Contractors, Yaffi Bldg., Goa Street, Ballard Estate, Bombay. P.O. Box No. 941. Phone No. 264181 (4 lines). Tel. Address : "Aseafilial." *Managing Director :* S. Edling. *Manager for Bombay,* M. Gunnarson. *Engineers,* C. P. Gajjar, T. Hedin, S. D. Kale, G. M. Kamat, R. K. Kamat, L. D. Matele, S. F. Mehta, M. P. Mobedjina, Y. G. Nagaraj, K. S. Nayak, D. P. Pandya, A. C. Pande, S. L. Parekh, D. D. Patankar, S. T. Patel, A. R. Shah, A. K. Sundaram, P. D. Taskar, I. Udani, S. W. Vaidya, T. S. Venkateswaran. *Accountant,* L. I. Wigell. Calcutta Office, 4, Lyons Range, P. O. Box 194. *Manager for Calcutta,* K. T. Pillai. *Engineers,* S. K. Das, K. D. Murthy, A. Patranabis, F. K. Sen, S. Srinivasan. Madras Office, Mercantile Bank Building, 16, First Line Beach, P. O. Box 123. *Manager for Madras,* V. A. Chandran. *Engineers,* K. Edwin, B. V. Eswar, K. K. Gosain.

Asgarali Nuruddin & Co., Pipe Fittings, Sanitaryware, Hardware Merchants, 95, Nagdevi Street, Bombay 3.

Asha Scientific Company, Lotlikar Mansion, 503, Girgaum Road, Bombay 2. Telegrams : "ASHACOM."

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ASHOKA METALS & ELECTRICALS INDUSTRIES, Head Office: Ashoka Udyog Bhavan, Industrial Estate, Udhna. Manufacturers of Copper & Nonferrous Metals, Rods, Strips & Wires, Branch: 174, Kika Street, Bombay 4.

ASHWIN TRADERS, Iron, Steel & Hardware Merchants, 35/A, Carnac Siding Road, Iron Market, Bombay 9. Phones: 38447 (Office) & 84414 (Res.). Grams: "SUNGLORY".
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Grams: "CHEMICAL".
For Details see in "CHEMICAL MFRS.",

Asian Trading Corporation, 1A, Nazir Bldg., Calicut St., Bombay 1. Sales Dept.: 310, Mirabelle Hotel, 33/A, Marine Lines, Bombay 1. Telegrams: "Ajpipas"—Bombay. Phone: 262575. Publishers' Representatives, Importers of Children's, School, College, Catholic Religious Books, etc. Exporters of Cotton Piece-goods.

Asiatic Electric Trading Co., 46-48, Lohar Chawl, Bombay 2. Importers of Electrical goods.

Asiatic Electric Corporation, Direct Importers of Electrical Goods. Beaumon Chambers, Medows Street, Fort, Bombay 1. Phone: 251761. Grams: "Dhootbije".

Asiatic Trading Co., Importers & Stockists of Industrial Machinery, 19, Bank Street, Fort, Bombay.

ASIATIC TRAVEL SERVICE, 12, Marzaban Road, Bombay 1. Phone Nos. 26-3581/82/83. Grams: "AIRASIA". (*For details please see "Travel Agents"*).

Askay & Co. (Private) Ltd., 279, Bazar Gate Street, Fort, Bombay. Exporters, Importers, Yarns & Piecegoods.

ASOK BROTHERS PRIVATE LTD. Importers of all sorts of Paper & Boards, 104, Apollo Street, Fort, Bombay. Tel. Address: "ASOKBROS". Phone No. 254329.

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Associated Agencies (Bombay), 47, Poddar Chambers, Parsi Bazar Street, Bombay. Phone No. 254881. Tel. Address: "Amonsulph." Indenters, Manufacturers' Representatives.

ASSOCIATED CEMENT COMPANIES LTD., THE, Cement House, 121, Queen's Road, Bombay 1. P.O. Box No. 397. Tel. Addresses: "ACCPURCHEZ," "ACCADMIN," "ACCGEOLOGY," "ACCCOLIERY," "ACCEXPAN," "ACCPERSNEL," "ACCFINACS," "ACCFABRIK," "ACCREST." Phone No. 249111 (9 Lines).

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Associated Commercial & Manufacturing Enterprises Private Ltd., Petroleum Machinery Mfrs. Janmabhoomi Chambers, Fort Street, Bombay 1.

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Phone: 252688
Telegrams: "MACHINERY"
Partners: B. L. DAFTERY, Miss S. P. COMMESARIATE.

Associated Rubber Industries Ltd., Rubber Products Mfrs. Union Bank Bldg., Apollo Street, Fort, Bombay 1.

Associated Steel & Tool Corporation, Steel & Alloy Tool Steel Merchants, 116, Nagdevi Street, Bombay 3.

ASSOCIATED TEXTILE ENGINEERS, (*Props.:—A. T. E. Private Ltd.*) Textile Machinery Merchants and Engineers, 43, Forbes Street, Fort, Bombay-1. Phone Nos.: 255728/29. Grams: "CORATEX."

Atlas Assurance Co. Ltd. (Established 1808).
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Bombay Branch—Dougall Road, Ballard Estate. *Manager:* J. L. Bissell.

Atlas Electric Co. Licensed Electrical Contractors, Engineers & Importers, 243, Bazar Gate Street, Bombay 1.

Atlas Engineering Corporation, Air Conditioning & Refrigeration Engineers. Authorised dealers for 'Chrysler-Air-Temp' Equipment. Importers & Stockists of Refrigeration Equipment & Accessories, Kitab Mahal, 192, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 265234. Grams: "ICYCOOL".

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AUTOMOTIVE MANUFACTURERS PRIVATE LTD., 108, Bazaar Ward, Kurla, Bombay 70. Main Dealers for Leyland & Albion Commercial Vehicles and Diesel Engines for the States of Maharashtra, Gujarat and Andhra Pradesh.

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AZAD BRUSH CO., Manufacturers of Industrial, Textile and Toilet Brushes, Madhavdas Pasta Road, Dadar, Bombay 14. Phone: 61663. Grams: "BRUSHAZAD".

B. A. & BROTHERS, Manufacturing Chemists, Drugs & Pharmaceutical Distributors. 98, Princess Street, Bombay 2. Phone: 22939. Offices: 6, Clive Row, Calcutta. Phone: 225940. Station Road, Patna. Phone: 2647. Pan Bazar, Gauhati, Assam. Phone: 356. Buxi Bazar, Cuttack, Orissa. Phone: 881. Tel. Address: 'Babuline' (for all Offices).

B. B. Electric & Auto Stores, Direct Importers of Electrical and Insulating Materials, 89, Princess Street, Bombay 2.

B. Babulal & Co., Chemicals Merchants, 71, Princess Street, Bombay 2.

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Managing Director: J. M. Marks.

Manager in Bombay: A. K. Bose.

Codes used:—Acme, Bentley's Complete Phrase and Private. Tel. Address: "Boiler." Phone No. 241233.

London Office—Babcock House, 209 to 225, Euston Road, London N.W.-1.

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Baker Brothers, Enamels, Varnishes, Plastic & Cellulose Lacquers, Fine Chemicals and their Thinners. 31, C. P. Tank Road, Bombay 4. Phone No. 72621. Grams: "BAKERCOLOR."

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Baldawala & Co., H.—375, Hornby Road, Bombay 1. Phone: 253258. Grams: "ECHBICO." Import & Export Agents and Manufacturers' Representatives.

Baldota Brothers, Importers, Exporters & Metal Merchants, 43, 2nd Bhoiwada, Bombay 2. Phone: 22787. Grams: "Cozilead".

Baliwalla & Homi Private Ltd., Opticians, 361, Dr. Dadabhoy Naoroji Road.

BALMER LAWRIE & CO. LTD., Machinery and Metal Merchants, Electrical, Civil, Mining, Mechanical and Structural Engineers, Rolling Stock and Crane Manufacturers. Shipping and Passenger Agents. No. 5, Graham Road, Ballard Estate. Tel. Address: "Balmer". Telephones: 261494/5 and 265492. Post Box No. 245, Bombay. *Head Office:* 21, Netaji Subhas Road, Calcutta. London Correspondents: Alex. Lawrie & Co., Ltd., Dunster House, 37, Mincing Lane, London, E.C. 3.

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Baloise Marine Insurance Co., Ltd., The, of Basle (Switzerland). Principal Office for India: French Bank Building, Homji Street, Bombay 1.

Balsara & Co. Private Ltd., Sanitary Engineers. 43, Medows Street, Bombay 1.

Bansi Dhar Kapoor & Sons, Paper and Strawboard Merchants. 73/75, Mirza Street, Bombay 3. Phone No. 34380. Grams: "Bansiharka." Head Office: Amritsar.

Barot Brothers & Co., Jamnabai Mansion, Sandhurst Road, Bombay 4.

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Bashimall Kanahyalall, Hardware and Tools Merchants and Commission Agents, 124, Narayan Dhuru Street, Gupta Mansions, Barbhai Mohalla, Bombay 3.

Bata Shoe Co., Ltd., Wholesale Depot, Atlas Mill Compound, Reay Road, Bombay 10.

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Phone No. 255451/55. Grams: "BATLIBOICO", Bombay.

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Batliboi, C. J., & Co., Manufacturers' Representatives and Commission Agents. 319, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Tel. Address: "Windsorco". Phone: 251167.

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BEACONS PRIVATE LIMITED, Industrial and Commercial Management and Cost Consultants, Structural Design and Engineering Consultants. United Bank of India Building, Sir P. M. Road, G.P.O. Box No. 1723, Bombay 1.

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Phone No. 263534.

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Mettur Industries Ltd., Mettur Dam.

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Representatives for :—

Air Conditioning Corporation Private Ltd., Calcutta (Buffalo Fans).

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Manufacturers of Plastic Advertising and Complimentary Articles.
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Grams: "BESIEGER".

BOMBAY POTTERIES & TILES LTD., Manufacturers of Sanitaryware, Glazed & Acid proof Tiles, Insulators, Refractories etc. Pipe Road, Kurla, Bombay 70.

Bombay Rosin & Turpentine Co., Rosin & Turpentine Mfrs., Podar Chambers, Parsee Bazar Street, Bombay 1.

Bombay Safe Deposit Company, Ltd., Forbes Building, Home Street, Fort. *Directors:* F. H. Kemple (ex-Officio); Mr. M. R. Chinoy; Mr. J. M. Mehta; Mr. J. H. Birtwistle. Phone: No. 268083.

Managing Agents:—Forbes Forbes Campbell & Co. Private Ltd., Forbes Building, Home Street, Fort, Bombay.

Bombay Safe Manufacturing Co., Steel Furniture Mfrs., 307, Kalbadevi Road, Bombay 2.

BOMBAY SAMACHAR, THE, "Red House", Horniman Circle, Bombay. Proprietors: The Bombay Samachar Private Ltd. Phone No. 255531. Tel. Address: "Samachar". G.P.O. Box No. 676, Bombay.

Bombay Scientific Glass Industry Private Ltd., 29, Veer Nariman Road, Fort, Bombay. Phone: 252920. Manufacturers of Laboratory Neutral Glass apparatuses, Mainly Ampoules, Vials, Saline Bottles, Regent Bottles, etc.

BOMBAY SOAP FACTORY, 10, Ripon Road Cross Lane, P.O. Box No. 4508, Bombay 8. India's Premier Oil Millers. Soap manufacturers & perfumers. Phones: 77221/77222. Grams: "BOSFA".

Bombay State Co-operative Marketing Society Ltd., The, Ismail Building, Dr. Dadabhoy Naoroji Road, Fort.

BOMBAY SCOOTER & MOTOR AGENCY, 43, Queen's Road, Bombay 2. Phone: 27586. Grams: "SRETOOCS". Distributors for Lambretta Scooters, Three wheelers, Scooterettes and Medows Automotive type Diesel Engines.

Bombay Silk Mills Ltd., Industrial Estate, Lalbaug, Bombay 12. Manufacturers of Georgettes, Crepes & Knitted Fabrics. Phone: 74644. Grams: "EYEDOC."

Bombay Stationery Mart. Props.: Gulamhusein Ahmedally & Co., Private Ltd., 7/A, Sir Pherozshah Mehta Road, Fort, Bombay. Phone: 253897.

BOMBAY STEEL CORPORATION, Importers and Stockists of Alloy & Tool Steels. 140, Medows Street, Bombay 1. Grams: "SHISHIRCO". Phones: 254756, 255077. Sales Office: 241, Kumbharwada, opp. 2nd Sutar Lane, Bombay 4, Phones: 75807; Residence: 73074.

BOMBAY STEEL SUPPLIES PRIVATE LTD., Govt. Controlled Stockists of Iron & Steel; Exporters and Importers. Regd. Office: K. T. Bldg., Broach Street, Bombay 9. Phone: 38005. 19, Bank Street, Fort, Bombay 1. Phone: 252625. Grams: "STEELSUPLY".

BOMBAY SUBURBAN ELECTRIC SUPPLY, LIMITED, Registered Office: Killick House, Home Street, Fort, Bombay 1. Telegraphic Address: "Kindred". Telephone No. 262311. Managing Agents: Killick Industries Ltd., Technical Office: Central Administration Department, No. 5, Graham Road (4th Floor), Ballard Estate, Bombay 1. Telegraphic Address: "ADISEBS". Telephone Nos. 261741/261742. Local Office: Electricity House, Santa Cruz (East), Bombay 55.

BOMBAY SUBURBAN ELECTRIC SUPPLY LIMITED.

Local Office: Electricity House, Santa Cruz (East), Bombay 55. Tel. 88011.

Officers: N. P. Kirpalani, B.Sc. (Tech.), (Manchester), Resident Manager; R. Y. Apte, B.Sc. (Engg.) (Banares), M.I.E. (India), Assistant Manager (Commercial); M. J. A. D'Lima, A.M.I.E.E., A.M.I.E. (India), A.A.I.E.E., Assistant Manager (Engineering).

Bombay Swadeshi Co-operative Stores Co., Ltd., Western India House, Sir Pherozshah Mehta Road, Fort.

Bombay Tablet Mfg. Co., Manufacturing Chemists. Princess Street, Bombay 2.

Bombay Tools Supplying Agency, 50, Nagdevi Cross Lane, Bombay 3.

Bombay Typewriting Institution, opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Bombay 1. Phone: 262484.

Bombay Woven Wire Netting Works. Manufacturers of Wire-netting Products, Iron Market, Carnac Bunder, Bombay 9. (*For further particulars see under Wire Products Mfgrs. & Dealers*).

BOOTS PURE DRUG CO. (INDIA) PRIVATE LTD. Registered Office: 17, Nicol Road, Bombay 1. Phone No. 261436. Tel. Address: "Drugboots". Bombay. Factory: Sion, Bombay 22. Telephone: 62445. Grams: "BURNOL".

Borivli Hosiery Mills, Hosiery Manufacturers, 63, Champa Gully, Mulji Jetha Market, Bombay 2. Phone: 20414.

Boyce & Co., 38, Fort Street, Fort, Bombay Phone No. 263619. Mines & Minerals General Merchants and Cinema Proprietors, at Belgaum. Phone No. 26.

BRADMA OF INDIA LTD., Lakshmi Bldg., Sir P. Mehta Road, Bombay 1; Phone: 262981; Addressing Machines & Business Systems. Grams: "BRADMALT".

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BRADY, W. H. & COMPANY LTD.

Brady House, 12-14, Veer Nariman Road, Merchants, Machinery Dealers, Exporters and Importers.

Technical Advisers :—
Mr. J. Symon.
,, F. Edwards.

Secretary :—
Mr. V. Mathalone.

Assistants :—
Mr. J. Kapadia.
,, H. Jones.
,, J. Shroff.
,, F. J. Dotiwala.
,, N. V. Iyer.
,, S. H. Advani.
,, J. Jolly.
,, A. N. Krishnaswamy.
,, G. Hira.
,, B. K. Jalota.
,, J. Gordon.
,, R. Subramanian.
,, B. S. Garde.
,, M. J. Engineer.
,, R. H. Rekhi.
,, R. Nair.

Calcutta :—
Mr. P. Moir.
,, I. Rodrigues.
,, H. E. Rose.
,, K. R. Khosla.
,, Ramanujam.
,, R. S. Gadkari.
,, S. P. Sood, (Special Representative in New Delhi).

Kanpur :—
Mr. B. B. Chakravarty.

Madras :—
Mr. W. McFarlane.

Ahmedabad :—
Mr. A. W. Rennie.

Coimbatore :—
Mr. K. G. Varmah.

Manchester :—
Mr. H. Yates.

*Branches :—*Mercantile Buildings, Lal Bazar, Calcutta; 154/55, Popham's Broadway, Madras; Mahatma Gandhi Road, Kanpur; Reid Road, Ahmedabad; 95, Jail Road, Coimbatore; 16, John Dalton Street, Manchester.

Codes used : A 1-A.B.C., 5th and 6th Editions, Bentley's and Lombard.

Telegraphic Address : "Brad", Bombay, Post Box No. 26.

Telephone Nos. : 251331 to 251337 (7 lines) (Offices); 41316 (Godown); 60562 (Brady Engineering); 263201-2 (Caxton Printing Works); 60562 (Empire Dye Works).

Managing Agents : G. Claridge & Co. Ltd., The Empire Dyeing & Mfg. Co. Ltd., The Brady Engineering Co. Ltd., The Belapur Co. Ltd.

*Agents :—*Employers' Liability Assurance Corporation Ltd. and Home Insurance Co.

Representing :—

Allen Beam Co., Warper Beams.

The Andrew Machine Construction Co., Ltd., Humidifier Installations.

Ashworth & Parker, Ltd., High Speed Steam Engines & Accessories.

Atwood Division Universal Winding Co., Silk Machinery.

Bates Textile Machine Co., Ltd., Hosiery Finishing Machinery.

Brady & Co., W. H., "Brad" Specialities for Textile Mills.

British Northrop Loom Co., Automatic Looms.

Broadbent, Thos. & Sons, Centrifugals and Patent Clutches.

Cocker Machine & Foundry Co., High Speed Warping & Sizing Machinery.

Cook & Co. (Manchester), Ltd., Textile Specialities.

Craven Bros. (Crane Division), Breakdown & Railway Cranes.

Davidson & Co., Ltd., Sirocco Fans.

Dicks Asbestos and Insulating Co., Ltd., Asbestos Packings, Jointings.

Dixon Crucible Co., Graphite Paints & Lubricants.

Dronsfield Bros. Ltd., Card Grinders.

Durrant & Son, G., Textile Specialities.

Gates Rubber Co., Cone Belts, Evener Belts and Card Bands.

Healds & Reeds Manufacturing Co. Ltd., Healds and Reeds.

Hick, Hargreaves & Co., Ltd., Engines and Power Plant.

Hoffman Sprinkler Co., Ltd., Automatic Sprinklers.

Hopkinsons, Ltd., Steam Valves & Boiler Mountings.

Kent Ltd., Geo., Steam, Water and Oil Meters.

Kershaw & Sons, Ltd., Hugh, Textile Cloths.

Knott's, Roller Varnish.

Lang Bridge, Ltd., Bleaching & Finishing Machinery.

Morris, Limited, Herbert, Lifting and Conveying Gear.

Mount Engineering (Sales) Co., Hydraulic Beam Trucks, etc.

Nicholson File Company, Files and Rasps.

Norris, Henty & Gardner, Ltd., Gardner Oil Engines.

O'Neill & Sons Ltd., S., Paper Cones and Tubes.

Purdy Machinery Co., Ltd., Labelling Machines.

Power House Components Ltd., Mfrs. of 'WAYNE' Patent Self-winding Elec. Cable and Fuel Economy Specialities.

Petrie & McNaught Ltd., Woollen Machinery.

Renold Chains Ltd., Chain Drives.

Rotameter Mfg. Co., Ltd., Mfrs. of Flow Meters for all Gases & Liquids.

Sanderson & Co. (Textile Engineers), Ltd., Yarn Conditioning Machinery.

Signode Steel Strapping Company, Ltd., Steel Strapping and Packing Appliances.

Tatham Ltd., Wm., Textile Waste Machinery.

Tragasol Products, Ltd., Gum Tragon.

Leesona Corporation, Textile Winding Machinery.

Veeder-Root Ltd., Automatic Counters.

Weir, Limited, G. & J., Power Plant Auxiliaries.

Whiteley, E. Gordon, Woollen and Worsted Finishing Machinery, etc.

Wilson Bros., Bobbin Co., Ltd., Bobbins, Shuttles, etc.

Wilson & Ingham, Textile Card Clothing.

Woonsocket Napping Machine Company, Raising Machine and Wire Ropes.

BRANDON & CO. PRIVATE LTD. Caterers and Aerated Water Manufacturers and Wholesale Provision Merchants. Head Office: Elphinstone Building, Churchgate Street, Fort, Bombay. Phone: 252433.

BREUL & CO., Cotton Merchants, Brokers, Exporters, Commission & Insurance Agents. Taj Building, Dr. Dadabhai Naoroji Road, Fort, Bombay.
J. K. S. Nicholson, *Proprietor.*
Tel. Address: "Breul." Phone Nos. 263981/2/3 (3 Lines), Post Box No. 27.

Brigg Bros., & Co., Agents for Simoniz Guaranteed products. Podar Chambers, Parsee Bazar Street, P. O. Box 268, Bombay. Tel. Address: "Kleener." Phone No. 25-2178.

Bright Brothers Private Limited

156-A, Tardeo Road, Bombay 7. Manufacturers of Quality Plastic Articles for Home, Industry, Office and Gift Advertising.
Managing Director : T.W. Bhojwani.
Phones: 77454 & 77455. Grams: "BRIBOS."

Brijlal & Hargovind, Iron & Brass Founders & Contractors. W. I. Split pulleys manufacturers. 253, Duncan Road (Near B. E. S. T. Power House), Bombay 8. Phone: 40668. Grams: 'PULLEYS'.

BRITANNIA BISCUIT CO., LTD. Head Office: Calcutta. Bombay Office and Factory: Reay Road Bridge, East.
Tel. Address—"Bombisket." Phone No. 73581 (2 lines).

Britannia Talking Machine Co. (Cal.), Manufacturers of Public Address Equipment. Importers & Exporters: Motors, Sound Boxes, Spare Parts and Main Springs of all sizes. *Distributors :* "Deluxe" pick-up Needles and Gramophone Needles. *Authorised Dealers :* H.M.V. and Columbia products. 407, Kalbadevi Road, Bombay 2. Phone: 30465. Tel. Add.: "BRITAPHONE". *Head Office :* Calcutta. *Branch :* Madras.

British Commonwealth Insurance Co., Ltd., Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Phone No. 255088.

BRITISH DRUG HOUSES (INDIA) PRIVATE LTD., Manufacturing Chemists and Agents in India for The British Drug Houses Ltd., London, and The B. D. H. Laboratory Chemicals Group, Poole, Dorset.
*Head Office :—*BOMBAY: Imperial Chemical House, Ballard Estate, Bombay 1. Post Box No. 1341. Phone No. 26-3138 (2 lines).
Branches at :—
CALCUTTA: 58/D, Chowringhee Road, Calcutta 16, P.O. Box 9024. Phone No. 44-5680.
MADRAS: 99, Nyniappa Naick Street, Park Town, Madras 3. Phone No. 4371.
DELHI: P.O. Box 1150, Harbans Singh Street, 24, Daryaganj, Delhi. Phone: 25772.
GRAMS: "Tetradome", Bombay, Calcutta, Delhi & Madras.

British Electric Insulating Co., Ltd., 33, Forbes Street, Bombay No. 1

BRITISH ENGINEERING CO., 105, Apollo Street, Fort, Bombay. Phone: 255045. Grams: "BUCKYPUMP". *Agents for :* "Elin" Heavy Electrical machines and Plants. MWM Diesel generating sets upto 1500 K.W. "Vogal" Pumps for water works and Industrial requirements and Agricultural Equipment to Engines by Bamfords, London (England).

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British India General Insurance Co., Ltd., The, Fire, Marine and All Classes of Accident Business. *Chairman:* Jal H. Mehta; *General Manager:* M. S. Dastur. Head Office: Mehta House, Apollo Street, Fort. Tel. No. 252361 (3 lines). Tel. Address: "Brindia."

British India Press, 108, Love Lane, Mazagon, Bombay-10. Tel. Nos. 75334-35. ESTD. 1887. Grams: "PRINTBIND".

BRITISH INDIA STEAM NAVIGATION CO. LTD., *Agents:* Mackinnon, Mackenzie & Co. Private Ltd., Ballard Estate, Bombay 1.

Marine Superintendent: Capt. R. Brignall.
Assistants: Marine Department: G. H. Johnson, H. R. Phillips.
Superintending Engineer: W. A. H. Taylor.
Asstt. Superintending Engineers: E. A. Thornton, J. R. Line.
Cargo Superintendent: Capt. R. H. Ayres, M.B.E.
Asstt. Cargo Superintendent: W. G. Howcroft.
Medical Superintendents: Dr. G. E. S. Stewart, M.B.E., M.B., Ch. B. (Edin.), D.T.M. & H. (Eng.), Dr. J. R. Daruwala, M.B.B.S., Dr. S. J. Birdy, M.B.B.S.
Superintendent of Supply: M. P. Del Rosso.
Superintending Chief Stewards: A. W. Wilson, W. Rattray.
Inspector of Catering: E. F. Evison.
Shore Superintendent: R. D. Knight.
Superintending Chief Steward: J. H. W. Nicholas.
Shore Chief Steward: C. S. Paton.
Telegraphic Address: "MACKINNONS". 'Phone No. 26-8021. Post Box No. 122.

BRITISH INSULATED CALLENDERS' CABLES LTD., Esplanade House, Waudby Road, Fort. Electrical Engineers, Cable Makers and Contractors. Represented in India by The Indian Cable Co., Ltd. Address as above. Grams: "CALIFATE" alternatively "CABLECO". Phone: 261587 (4 lines).
Indian Distributors for Ferranti Ltd., Hollinwood, (Lancs.) (Manufacturers of Power Transformers, Meters, Electrical Instruments, Electric Wires, Electronic computers, Meter Testing Sets.) Agents for William Sanders & Co., Falcon Electric Works, Wednesbury, England (Switch and Fusegear).
Representatives in India—THE INDIAN CABLE CO. LTD.

BRITISH PAINTS (INDIA) LTD., Manufacturers of Paints, Varnishes, Enamels, etc., Head Office: 32, Chowringhee Road, Calcutta; Factory: Howrah. Sales Offices: Bombay, Delhi, Lucknow, Gauhati, Indore, Patna, Hyderabad, Visakhapatnam, Madras, Cochin.

Bright & Co., Private Ltd., Paint Manufacturers, 16, Commercial Chambers, Masjid Bunder Road, Bombay 5.

British Steel Piling Co. (India), Private Ltd., The, Hamilton House, Ballard Estate, Bombay 1.

BROOKE BOND INDIA PRIVATE LTD., Gresham Assurance House, Sir Phirozshah Mehta Road, P. O. Box 271, Bombay. Phone No. 253527. Grams: "BLENDERS".

Brough & Philpott (India), Private Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate, Bombay.

B. TRIKAMLAL & CO. (PRIVATE) LTD., 196, Princess Street, Bombay 2. Dealer in FAG, SKF and USSR Ball Bearings. Phone: 39119.

Budroodin Mahomedally & Sons, Provisions, Patent Medicines & General Merchandise, 238, Nagdevi Street, Bombay 3. Phone: 22235. Grams: "BIEMSONS."

Bunge & Co., Limited (Incorporated in England with limited liability), Himalaya House, Palton Road, Bombay 1.

BURMAH-SHELL OIL STORAGE & DISTRIBUTING CO. OF INDIA LTD.

(Incorporated in England)

Distributors of Petroleum Products.

GENERAL MANAGER'S OFFICE

Burmah-Shell House, Currimbhoy Road, Ballard Estate, Bombay.

Grams: "KEROPET."

Phone No. 268061 (10 lines).

Post Box No. 688.

BOMBAY BRANCH

Burmah-Shell House, Ballard Estate, Bombay-1.

Grams: "BURMAHSHEL."
Phone No. 268281 (20 lines).
Post Box No. 193.

BOMBAY DIVISIONAL OFFICE

Neville House, Nicol Road, Bombay-1.

Grams: "BURMAHSHEL."
Phone No. 268281 (20 lines).
Post Box No. 612 A.

BURMAH-SHELL REFINERIES LTD.

(Incorporated in India)

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Administrative Office,
Burmah-Shell Refineries
Site,
Chembur

★

Grams: "BESREFIN"

Phone No. 62221 (10 lines)

Post Box No. 1725

BOMBAY

BURN & COMPANY, LTD., Managing Agents: Martin Burn Ltd. Registered Office: 12, Mission Row, Calcutta. Bombay Branch: Esplanade House, Waudby Road, Bombay. Phone: 264102. Grams: "BURNBOM".

BURROUGHS WELLCOME & CO (INDIA) PRIVATE LTD., Manufacturing Chemists.

Registered Office:
16, Bank Street.
P.O. Box No. 290, Bombay 1.
Tel. Address—"Tabloid," Bombay.
Telephone Nos. 255339 & 255330.

City Sales Office:
Janmabhoomi Bhavan, Ghoga Street, Fort, Bombay 1.
Telephone Nos. 255339 & 255330.

Pharmaceutical Division.
88-C, Old Parbhadevi Road, Bombay 28. Phone No. 61968.

Chemical Division.
Bombay-Agra Road, Bombay 80. Telephone Nos. 641314 and 641311.

Byramjee Jeejeebhoy & Co., Alice Building, 3rd Floor, Hornby Road, Fort.

BYRAMJI & CO., T., Merchants and Manufacturers' Representatives. Central Bank Building, Fort, Bombay. *Phone:* 251406. *Grams:* "SWEETSMILE," Bombay. *Codes:* Bentley's, A.B.C. and all standard commercial codes. Partners: T. Byramji and Dhun T. Byramji.

CI

C. ITOH & CO., LTD.

Bombay Branch: United Bank of India Bldg., 5th floor, Sir Phirozshah Mehta Road, Bombay 1. Phones: 38381 & 2. Cable: "ITOHREP," Bombay.

Calcutta Branch: 7, Old Court House Corner, Calcutta 1. Phone: 227911 (3 lines). Cable: "CITOHCAL", Calcutta.

New Delhi Branch: National Insurance Bldg., Ground Floor, Parliament Street, New Delhi 1. Phone: 46068. Cable "CITOH," New Delhi.

Imports: Yarns & Textiles in general, Iron & Steel Products, Ships, Non-ferrous Metals, Machineries, Foodstuffs, Fertilizers, Paper, Chemical, Timber Products, Agricultural & Marine Products, Cement, Sundries etc.

Exports: Textile Raw Materials, Minerals, Ores, Scrap, Coal, Petroleum, Grains, Sugar, Oils & Fats, Fertilizers, Salt, Pulp, Logs & Lumbers, Crude Rubber etc.

Head Office: 36, 2-chome, Hommachi, Higashi-ku, Osaka. Cable: "CITOH," Osaka.

Tokyo Office: 4, Honcho, 2-chome, Nihonbashi, Chuo-ku, Tokyo. Cable: "CITOH," Tokyo.

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CADBURY-FRY (INDIA) PRIVATE LTD., Manufacturers of Cocoa, Chocolate & Bournvita. "Cadbury House", 19, Bhulabhai Desai Road, Bombay 26. Phones: 75350, 75358 & 75359. Grams: "CADFRY."

Calcutta Essence Supply Co., Dealers & Importers of Essential Oils, Aromatic Chemicals & perfumery compounds. Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "Supralux." Phone No. 22623. Agents for Industrial Perfumes Private Ltd., for Bombay State (Except Bombay city) and West Bengal including Calcutta.

C. PRAVINCHANDRA & CO., Manufacturers of "CIPCO" Brand 85% Asbestos Magnesia & other Lagging Products; Bhabha Bldg., 2nd Floor, 36-48, Masjid Bunder Road, Bombay 3. Phones: 65361 & 20738. Grams: "SNOWDROP"; Factory: Plot No. 172, Sewri Road, Bombay 15.

CALCUTTA IRON & STEEL CO. PRIVATE LTD., Shipchandlers & General Hardware Merchants; Dealers in Chain Pulley Blocks, Wire Ropes Crab Winches, Sluice Valves, Reflux Valves, Wheel Valves, Wire Rope Cutters, Carbon Tool Steel, Pneumatic Hose Pipe, Brass Rods, Foot Valves, Steel Flanges, Rope Pulley Blocks and all sorts of pipe fittings, etc.; 68/D, Mahomedali Road, Bombay 3. Grams: "RIVETBOLT". Mandvi, Bombay. Phone: 22182. Calcutta Office: 65/A, Netaji Subash Road, Calcutta 1. P.O. Box No. 179. Phone: 22-4744. Grams: "FLATS".

C. Agrawal & Co., Ltd., Dyestuffs, Chemicals & Pharmaceutical dealers, 43-44, Lakshmi Bldg., Sir P. Mehta Road, Bombay 1.

C. DOCTOR & CO. PRIVATE LTD., Industrial Air Conditioning Engineers, Bombay 1; Ahmedabad 8; Calcutta 1.

CALTEX (INDIA) LIMITED, Distributors and Marketers of Caltex Petroleum Products—Petrol, Kerosene, Powerkero Diesel Oils, Furnace Oil, Caltex RPM Motor Oils, the full range of Lubricating Oils and Greases, Asphalts and Road Surfacing Materials, etc.

District Offices at Bombay, Calcutta, Madras and New Delhi.

Sales Offices at Ahmedabad, Bangalore, Chandigarh, Coimbatore, Indore, Jaipur, Lucknow, Nagpur, Patna, Poona, Secunderabad and Tatanagar.

General Office: Caltex House, 8, Ballard Road, Ballard Estate, Bombay 1.

Telegrams: "Caltex."

Phone No. 26-8031 (10 lines).

Resident Vice-President:—J. R. Price.

General Manager:—H. D. Dennis.

Marketing Department.

Manager, Marketing:—H. R. Bery.

Operating Department.

Manager, Operations: R. J. Vlaco.

Accounting Department.

Manager, Finance & Accounting: R. B. Brown.

Chief Accountant.—R. G. Marshall.

Bombay District Office.

District Manager.—E. D. Sopher.

Installations:

Kerosene Installation, Sewree. Phone Nos. 60221-2-3-4. Petrol Installation, Wadala. Phone No. 60223. Furnace Oil Installation, Hay Bunder. Phone No. 77192. Lube Oil Plant, Hay Bunder. Phone No. 77191.

CALTEX OIL REFINING (INDIA) LTD., Registered Office: Caltex House, 8, Ballard Road, Ballard Estate, Bombay 1.

Refinery Address: Caltex Oil Refining (India) Ltd., Post Bag 145, Visakhapatnam 1, Andhra State.

Managing Director:—J. R. Price, Bombay.

Director & Refinery Manager:—D. M. Berdine, Visakhapatnam.

Director/Secretary:—R. B. Brown, Bombay.

Directors:—G. R. Ferguson,
C. J. Livingston,
S. H. Kuhn,
H. E. Lewis,
H. R. Tittsworth,
R. C. Trackwell.

	BOMBAY	*VISAKHAPATNAM*
Grams:	"CORIL"	"CORIL"
Phone:	26-8031	616

CAMA, NORTON & CO., Importers and Manufacturers' Representatives of Pharmaceuticals and Printing Materials. Cama Chambers, 23, Medows Street. Phone No. 255354. Telegrams: "Camanorton."

CAMBATA AVIATION PRIVATE LIMITED, Aerial Spraying, Crop Dusting, Aerial Fertilising, Aerial Seeding, Top-Dressing Sales & Maintenance of Fixed Wing & Rotary Wing Aircraft. Approved Workshop for C of A Engines, Airframes, Instruments—Gyroscopic & Electrical Starters, Generators, Auto Pilot, Radios.

Head Office: Cambata Building, 42, Queen's Road, Bombay. Phone: 246291 (9 lines). Grams: "COALPITS".

Works: Hangar No. 1, Santa Cruz International Airport, Bombay. Phone: 61061 (Extn. 311).

CAMBATA INDUSTRIES PRIVATE LIMITED, "Cambata Building", 42, Queen's Road, Bombay 1. Telephone: 246291 (9 lines). Grams: "COALPITS."

Branches:—New Delhi, Calcutta, London, New York.

Agents in India for:—

W. H. Allen Sons & Co., Ltd., (Hydraulic, Mechanical and Electrical Engineers), Hamworthy Engineering Ltd. (Pumps), Cemented Carbide Tips, Tools and Dies.—England.

American Machine & Foundry Co. (Cigarette Making Machines), Proto Tools (Garage Tools), Hiller Aircraft Corporation (Helicopters)—U.S.A. Ruhrthaler Maschinenfabrik Schwarz & Dyckerhoff, KG. (Locomotives), Gebr. Hilgeland Maschinenfabrik, (Cold Heading Machines), Wallram Hartmetall G.m.b.H. (Tungsten Carbide Tips, Tools & Dies), Stefan Hertweck KG. (H.S.S. Tools), Seilwerke Heinr Puth KG. (Wire Ropes), Paul Zurstrassen (Mechanical Handling Equipment), Eisen-und Hartgusswerk "Concordia" G.m.b.H. (Chilled Cast Iron Rolls)—West Germany.

Sole Distributors for Greater Bombay:—

BURSHANE GAS.

Camlin Private Ltd., Office. 210, Lady Jamshedji Road, Bombay 16. Phone: Office: 61158. Grams: 'CAMELINK'. Factory: Off Andheri-Kurla Road, Bombay 43. Phone: 86949.

C. R. Contractor & Co., Mill gin, pipe fittings & Hardware Merchants, 82, Nagdevi Cross Lane, Bombay 3.

CANDY FILTERS (INDIA), PRIVATE LTD., Forbes Building, Home Street, Fort. Hydraulic Engineers and water Purification Specialists, Gravity and Pressure Filter Installations. Chlorinators, Ammoniators, Water Softeners, Chemical Dosing Apparatus, Metering Pumps, Water Testing Equipment.

Telegrams: "Pontifex", Bombay.

Telephone No. 26-8081, Bombay.

CAPCO PRIVATE LTD., Importers of and Dealers in Dyestuffs, Chemicals, Pharmaceuticals.

Head Office: 14, Netaji Subhas Road, P.O. Box 2301, Calcutta 1. Grams: 'CAPCODYES'. Phones: 22-2862/3.

Bombay Offices: Dyes & Chemicals Dept.: Co-operative Insc. Bldg., Sir Phirozshah Mehta Road, Bombay 1. Phone No. 255641 E. Merck Dept. 15, Cowasji Patel Street, Bombay 1. Phone No. 255259.

Branches: Ahmedabad, Kanpur, Delhi, Madras, Mathurai, Salem, Secunderabad, Vijaywada, Cochin.

CAPRIHANS (INDIA) PRIVATE LTD., Manufacturers of 'SUN' brand P.V.C. Sheets (Rigid and Soft) and Polythene Sheets. Janmabhoomi Chambers, Fort Street, Bombay 1. Phone: 26-2810. Grams: "CAPRIHANS". Branches: New Delhi and Calcutta.

Cardboard Suppliers, 6, Tank Street, Surti Mohalla, Bombay 8. Phone: 41718; Grams: "RAOOF". Dealers in Gray boards manufactured by Western India Paper & Board Mills Private Ltd., Vikhroli.

CARGO INSPECTORS & SUPERINTENDENCE CO., PRIVATE LTD., Alice Buildings, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Cable: "WAUDCO"—Bombay.

Carona Shoe Co., Private Ltd., Mfrs. of Canvas and Rubber Shoes, Velvet Chappals and Multi Coloured Children Shoes, 143, Mahatma Gandhi Road, Fort, Bombay 1.

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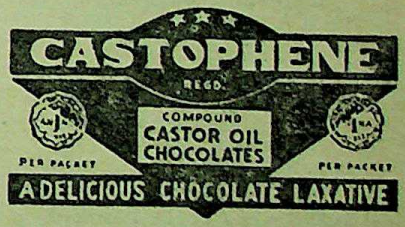

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REGIONAL OFFICES : New Delhi, Calcutta, Madras and Lahore.

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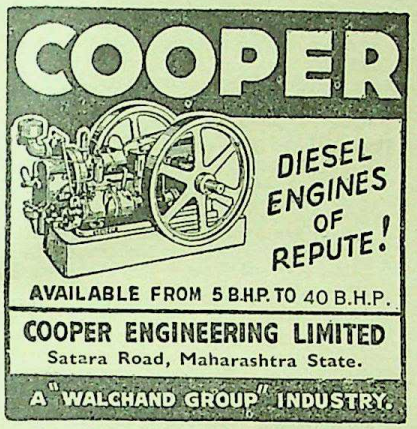
Factory : Satara Road, Southern Railway. Phone : Satara 29. Grams : "Coopeng." Manufacture : Vertical and Horizontal Diesel Engines in the range of 5 BHP to 40 BHP, Textile (Calico Type) Looms and Agricultural Ploughs.

Factory : Chinchwad, Poona. Phone : Pimpri 46. Grams : "Coopeng." Manufacture : Grade I Machine Tools : Shaping Machines, Slotting Machines (16", 25" and 40"), and Planing Machines (with a stroke of upto 20').



COOPER, JAL, F.R.G.S., Standard Bldg., Hornby Road, Fort, Bombay 1. Phone : 252117. Dealer in Indian & States' Philatelic Auctioneer and Valuer. Editor & Publisher, "India's Stamp Journal".

Cooper Landing Co., Dady House, Veer Nariman Street, Fort.

COORLA SPINNING & WEAVING CO., LTD., Manufacturers of Dhoties, Sarees, Shirtings. Reg. Office : Readymoney Mansion, Veer Nariman Street, Bombay. Mills : Kurla. Looms 680, Spindles 31,460. Agents : Cawasjee Jehangir & Co. Private Ltd.

COOVERJI HORMUSJI & SONS N., (Estd. : 1895), Building Contractors, Plumbers & Sanitary Engineers. Specialists in Domestic Hot and Cold Water & Gas Installations, Plumbing Works, Drainage Works, Sewage Disposal, Building Repairs, Building Construction, Painting Works and Monsoon Dammering Works ; 598, Wadia Bldg., Chira Bazar, Girgaum Road, Bombay 2. Phone : 39919.

Corn Products Co. (India) Private Ltd., Importers, Exporters, Manufacturers : Food Products, Fruit Beverages, Speciality Starches, Industrial Adhesives etc. ; Head office : Shree Niwas House, Waudby Road, Fort, Bombay 1 (P.O. Box 994). Phone : 262321-24 (4 Lines) ; Factory : Maniar Building, 116-118 Frere Road, Carnac Bunder, Bombay 9. Phone : 20577. Warehouse : Maniar Building Annexe, 116-118, Frere Road, Carnac Bunder, Bombay 9. Phone : 23076.

COTTON & CLOTH (PRIVATE) LTD., Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1. Telegrams : 'COTONCLOTH'. Telephone : 264641. *Exporters of :* Indian Handwoven Silk Fabrics, Piecegoods, Vegetable Oils and Fats, Spices, Cashew Nuts, Seeds, Gums, Shellac, Essential Oils, Crude Drugs, Tea, Cotton Yarn & Waste, etc., etc.

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Bombay 1.

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Head Office :
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West End Office :
15, Charles 11 Street, Haymarket, S. W. 1.
Other Branches in India & Pakistan.
New Delhi, Karachi.

COX & CO. PT. LTD., H.S., 24, Rampart Row, Fort, Bombay. Tel. Address : "American". Phone : 253133. P. O. Box 427. Importers, Indenters, Representatives and Clearing and Forwarding Agents ; Plywood Products, Sitapur Flushdoors, Plywoods, "Sitawood" concrete shuttering ; Carborundum Universal Ltd., Madras; Sticks, Bricks, Valve Grinding Paste ; Carborundum Co. Manchester, Carborundum Grain ; John Oakeys, London ; Emery Papers, Waterproof Papers, Emery Grains ; Centramex, Germany, Surgical instruments, Cossors' Blood pressure apparatus. Brannon's Thermometers ; Fluxite Ltd., London ; Fluxite Soldering Paste ; 'Excelsior' brand KK Nails ; Blood, U.S.A., Automobile spare parts and garage equipment. "Manet" Metal Helmets for Industrial Workers.

Crawford & Co., Auctioneers Estd. 1848, 132, Apollo Street, Fort.

Crawford, Bayley & Co., Solicitors. State Bank Buildings, Bank Street, Fort, Bombay 1.

M. G. R. Aitken ; A. A. S. Rae ; R. Setlur ; N. S. Phatarphekar; C. H. Pardiwala ; S. Y. Rege ; R. A. Shah. Cable Address : "Lex", Bombay. Phone No. 252317 (3 lines).

Crookes Laboratories, Ltd., The. Manufacturing Chemists, Court House, Carnac Road, Bombay 2. Phone : 38820.

Crown Bucket Factory, Buckets, Drums mfrs., 222, Nagdevi Street, Bombay 3.

Crown Electric Printing Works, 111-A, Mahatma Gandhi Road, Fort. Art Printers and Calendar Manufacturers.

Crown Watch Co., Importers of Watches, Clocks & Timepieces. 16/18, Abdul Rehman Street, Bombay 3.

CRESCENT AGENCIES (PRIVATE) LTD., Beauman Chambers, 27/33, Medows Street, Fort, Bombay. Phone Nos. 25-4177 and 25-2558. Grams : "WELSEL" (Bombay & Delhi).

Handling : Diesel Engines, generating Sets and spares, Electric Motors and spares, Electrical Accessories and Appliances, Power Driven Pumps and Spares, Refrigeration machinery and spares, Machine tools etc., Manufacturing Electric Wall Clocks, Synchronous Motors, Submersible pumps, Speedometers, etc., etc.

Head Office : 9-N, Munshilal Bldg., Connaught Circus, New Delhi ; Phone : 43095.

CRESCENT IRON & STEEL CORPORATION LTD., *Head Office :* Industrial Estate, Lalbaug, Bombay 12. Tel. No. 77391 (3 lines). *Works :* Goregaon (Bombay). Tel. No. 84204. Grams : "Natelin". Makers of Metal Cutting Hydraulic Band Saw Machines, Double Action Machine vices, Quality Grey Iron castings, M.S. Switchgear Panels & Cubicles, etc.

Crescent Trading Co., Stockists of Pipes, Fittings & Cocks & Valves. 48, Bhajipala Lane, Bombay 3. Phone : 29840. Grams : "Watermeter".

Culture Pearls Dealing Co., Wholesale and Retail Dealers in (Real) Culture Pearl ornaments and other jewelleries, Madrasi Building, 2nd Floor, 148, Mumbadevi Road, Bombay 2.

Current Technical Literature Co. Private Ltd., India House, opp. G.P.O., Bombay 1. P.O. Box No. 1374.

Currim, E. A. Private Ltd., Hardware Dealers & Iron-mongers, 97, Apollo Street, Fort, Bombay. Branch at Calcutta.

D. A. Nadkarni & Co. Private Ltd., Medical —College Booksellers, 22, Gowalia Tank Road, Bombay 7.

D. C. Batliwala, Furniture Merchants. 12, Bruce Street, Bombay 1.

Phone: 26-1017. Cables: "FORENOON"
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Importers of Essential Oils & Aromatic Chemicals & Resinoids,
Anees Chamber Annexe, Carnac Road, Bombay 1 (INDIA).

D. D. Sharma & Co., Sports Goods Stockists & Dealers, 1st Marine Street, Dhobi Talao, Bombay 2.

D. S. Coutinho & Co., Billiard Tables Mfrs., 91-93, D'Lima Street, Mazagaon, Bombay 10.

D. Kaniyalal & Co., 45 Cavel Cross Lane, Bombay 2. Mineral Merchants.

D. Shah & Co., Laboratory Equipment Merchants, 24, Sardar Griha Bldg., Carnac Road, Bombay 2.

D. Dahyabhai & Co., Scientific Laboratory and Hospital Equipment Merchants, 79, Princess Street, Bombay 2.

D. Jamnadas & Co., Chemical Merchants, 207, Samuel Street, Vadgadi, Bombay 3. Phone : 38481. Grams : "VANDAN".

D. R. PUNDOLE & SONS
Watch and Clock Makers
Sole Manufacturers of
"BEAUMONT" Watches & Clocks
and agents for "Cyma" Watches and
"CHEMOULD" Picture Frames.
369, Dadabhai Naoroji Road,
Fort, Bombay.

Dada Fireworks Private Ltd., 240-42, Juma Masjid, Bombay 2.

Dadabhoy Hormusjee & Co., Clearing & Forwarding Agents. Dady House, Veer Nariman Street, Fort.

Dadabhoy Hormusjee & Sons (Private) Ltd. 30, Imperial Chambers, Ballard Estate, Bombay.

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Production Dept.: Plot No. 80, Dr. Annie Besant Road, Worli. Phone No. 70951.

Branches: Cannanore, Delhi, Kanpur, Madras, Madura, Nagpur and Patna.

DADAJEE DHACKJEE & CO., PRIVATE LTD., Automobile & Refrigeration Engineers; Dealers for TATA-MERCEDES-BENZ Commercial Vehicles & Mercedes-Benz Cars; Distributors for LAMBRETTA Scooters, Scooterettes & Three-Wheeler Delivery Van & Rickshaw Chassis; Patentees of specially designed 'PR' type streamlined vans on Lambretta Three-Wheeler Chassis; Distributors for Rolls-Royce, Bentley, Billman, Humber & Sunbeam Cars and Commer & Karrier Commercial Vehicles; Importers & Dealers of Automobile spare Parts & Accessories; Distributors for 'WOLF' Electric Tools and Equipment and 'OLDHAM' Automobile Batteries; Manufacturers of 'TEMPAIR' Packaged-type Room Air-conditioners & Distributors & suppliers of Remote & Central type Air-conditioning & Cold Storage Plants, Sandhurst Bridge, Bombay 7. Grams: "PROMPT", Bombay. Telephone Nos. 27021/23, Workshops: 74629.

DAHANUKAR, M. L., & CO. PRIVATE LTD., Industrial Assurance Building, Churchgate, Bombay 1. *Managing Director:* M. L. Dahanukar. *Director:* D. M. Dahanukar. *Secretary:* S. K. Gubbi, B.A. *Managing Agents for* (1) The Maharashtra Sugar Mills Ltd., P.O. Tilaknagar, District Ahmednagar. (2) The Belvandi Sugar Farm Private Ltd., P.O. Belvandi Sugar Farm, District Ahmednagar. Tel. Address: "Design", Bombay. Tel. Nos. 242261-2-3.

Dharamdas M. Jhaveri & Co., Tool & Alloy Merchants. 108, Jhaveri Bazar, Bombay 2. (For details see in "Tool, Alloy & Special Steel Merchants.")

Dahyalal Makanjee Zaveri, Precious Stones & Jewellery Merchants. 98, Sheikh Memon Street, Bombay 2.

DALI B. SHROFF & CO., Manufacturers' Representatives, Importers and Exporters, 361, Dr. Dadabhoy Naoroji Road, Fort, Post Box No. 973, Bombay. Phone No. 251765. Tel. Address: "Oldisgold."

Damania Vidut Kendra, Electrical Merchants, Kitchen Garden Lane, Lohar Chawl, Bombay 2.

DAMJI MANJI, 208, Sandhurst Road, Bombay 4. Estd. 1940. Phone: 71424 & 41978 (Office), 61602 (Residence). Grams: "OILTRADERS". Dealers in Groundnut Oil, Coconut Oil, Castor Oil, Linseed Oil, Mustard Oil, Seasome Oil, etc. Importers of: Copra, Coconut Oil, Palm Oil. Exporters of: Oils, Oil Cakes.

DANDEKAR COMPANY, Acids, Carbon-di-Sulphide C.P. Heavy & Fine Chemicals, Minerals and Sizing Materials, fertilizers. Room No. 40, 4th Floor, Bombay Mutual Annexe, 17, G'unbow Street, Fort, Bombay 1. Phone: 261038. Grams: "SHEKHAR".

DANDEKAR, G. G., MACHINE WORKS LTD., Bhiwandi, Dt. Thana, Bombay. Tel. Address: "Dandekarco."

Danesh Waterproof Materials Private Ltd., Tarpaulin Merchants, 146, Dongri Street, Bombay 9.

Daranshi Ramji, Plastic & Leather Cloth Merchants, 241, Masjid Bunder Road, Bombay 3.

Das & Company, Das Chambers, Dalal Street, Fort, Bombay. Dyestuffs, Chemicals & Sizing Materials.

Daswani Bros., Electrical Goods, Stockists & Dealers, 53, Queen's Road, Opp. Marine Lines Rly. Station, Bombay 2.

DATSON, RAVIRAJ & CO. (PRIVATE) LTD., 43, Tamarind Lane, Fort. Phone: 254433. Grams: "DATNARE." Importers and Exporters, Specialists in Foundry Supplies, Welding Rods, Electrodes, Equipments and Accessories, Hancock Oxygen Cutting & Profiling Machines, High Temperature Refractory Cements, Boiler Laggings, Boiler Fittings, Packings and Jointings, Wire Brushes, Casehardening Compounds, Industrial Protective Appliances, Motor driven flexible shaft tube cleaning equipment & Accessories, etc. Associates: Shetty Chemical & Engineering Works Private Ltd., Bombay. Calcutta Office: 33, Chittaranjan Avenue, Calcutta 12.

Daudbhoy M. Tayebally, Government & Railway Contractors and Glass Merchants, 110, Abdul Rehman Street, Bombay 3.

DAVAR, M.C., & CO., 143, Princess Street, Bombay 2. Phone: 39752, Grams: "EMCIDAVAR". Importers & Stockists of Aromatic Chemicals, Essential Oils & Perfumery Materials. Agents for Esrolko Ltd. (Formerly Flora), Switzerland; Messrs. M. M. Hatherbacha & Co., Penang. Essential Oils.

Davar, N., & Co., Interior Decorators and Painting Contractors. Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 261880. Showroom: Hampton Court, Wodehouse Road, Colaba, Bombay.

Dave Bros., Distributors, Importers and Agents for Bombay & Calcutta Area for Czechoslovakian Photographic materials. Also dealers in Photo & Cine Materials. Shop No. 9, Waterloo Mansion, 170, Mahatma Gandhi Road, Opp. Regal Cinema, Bombay 1. Phone: 211158. Branch: 155, Radha Bazar Street, Calcutta.

David, Sassoon J., & Co., Ltd., Merchants, 143, Mahatma Gandhi Road, Fort, Bombay.

Tel. Address: "Psalmist". Phone Nos. 36907 and 36730.

Dawawala Brothers, 102, Girgaum Road, Bombay 4. Dealers in Medicines, Surgical Instruments and Hospital requisites & Contractors to Native States. Missions, Municipalities, Railways, etc. Tel. Address: "Vakrangi".

Dawn Agencies, Self-Adhesive Tape Mfrs. 22, Gowalia Tank Road, Bombay 7.

Dawson & Co., Billiard Table Makers, Woodworking Machines, Machine Tools, Furniture, etc. 24, Parsee Bazar Street, Fort, Bombay 1. Telegraphic Address: "Cushions". Phone: 251017.

DAYLIGHT FIXTURES CORPORATION Manufacturers of fluorescent light Fittings Ballasts and Accessories; Mercury Vapour Lanterns and their Ballasts. Showroom & Office: New Citizen Bank House, Carnac Road, Bombay 1; Phone: 26-5231/2. Grams: "DAYFIX" Factory: Premier Industries, Old Sunderdas Mills Compound, Anandrao Nair Road, Bombay 11. Phone: 73010.

DEAN & WEBBER MILL STORES CO., Manufacturers of Quality Bobbins, Shuttles, Chemicals, Sizing Materials. 5A, Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay. P.O. Box No. 1461. Phone: 26-3848, 26-4041 and 26-4049. Grams: "EFKAY".

DECORA STUDIO, Interior Decorators and Furnishers. 91A, Walkeshwar Road, Bombay 6. Phone: 42479. Grams: "TEKNIPLANT".

Deepak Electric Corporation, Electric Goods, Stockists & Distributors, 44, Bhangwadi, Kalbadevi, Bombay 2.

DEETH, W. H., & CO., Wavell House, Graham Road, Ballard Estate. General Merchants and Manufacturers' Representatives. Telegraphic Address: "Berdeeth," P.O. Box No. 320, Bombay. Phone: 263703. Branches at Calcutta & Madras.

Delta Products Corporation (India), Auto Springs Mfrs. 3, Madi Chambers, French Bridge, Bombay 4.

Denis Malcolm & Co. (India) Ltd. (incorporated in England) Manufacturers' Agents, Kumud House, 267, Dr. Dadabhai Naoroji Road, P.O. Box 438. Phone: 262423. Telegraphic Address: "Mydom", Bombay. Codes: Bentley's, Lombard and Private. Branches: Calcutta and Madras. Agents: Delhi, Karachi, Lahore and Rangoon.

Desai Tube & Hardware Mart, Mill Gin & Hardware Merchants. 41, Nagdevi Cross Lane, Bombay 3. Phone: 20606, Grams: "Hasty".

DESIGNERS PRIVATE LIMITED, Industrial Designers and Architects, 91A, Walkeshwar Road, Bombay 6. Phone: 42479. Grams. "TEKNIPLANT".

Devidas Nandlal & Co., Dealers in Cutlery, Toilet goods, Stationery, etc., 241-3, Abdul Rehman Street, Bombay 3.

Devidayal Rolling and Refineries Private Ltd., Darukhana, Reay Road, Bombay 10. Phone: 70558-59/73586. Grams: "DEVISTEEL".

Devidayal Sales Private Ltd., Darukhana, Reay Road, Bombay 10. Phone: 70558-59/73586. Grams: "DEVISTEEL".

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A wide range of Kitchen utensils, Tableware, Electrical-Kettles, Pocket-Tiffin Carriers, Fabricated stainless Steel Tanks for food and Chemical Industries, Wash Basins and Hospital Equipment and Railway Fittings and Stampings for Motors, Generators and Transformers.

Dewan Chand Nikha Mall & Co., Stockists of Hardwar, Tools, Workshop & Agricultural Machinery, 126, Narayan Dhuru Street, Bombay 3. Phone : 20102. Grams : "DHAMICHAIN".

Dewan Raj Kumar, Trade Marks & Patents Attorneys and Advertising Consultants. 78, Podar Chambers, Parsi Bazar Street, P. O. Box No. 711. Fort. Phone No. 252044. Tel. Address : "Rajmilap." Poona Office : 1147/B, Shivaji Nagar. Phone : 7455.

Dharampur Leather Cloth Co., Ltd., Manufacturers of heavy upholstery materials. 10, Chowpatty Sea Face, Bombay 1. Phone : 40516. Grams : "PUNEM".

Dharamsi Morarji Chemical Co., Ltd., The, "Prospect Chambers," 317-21, Dr. Dadabhoy Naoroji Road, Fort. Manufacturers of Single, Double and Triple Superphosphates ; Manure Mixtures. Acids, Sulphuric, Hydrochloric and Nitric, Ferrous Sulphate, Sodium Sulphide, Alumina Sulphate Ferric and Iron Free, Alums, Laboratory Acids and Fuming Acids.

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2. Kumhari (Near Raipur) S. E. Rly., Madhya Pradesh.

Managing Agents : Dharamsi Morarji & Co.

Telegraphic Address : "Dharmajaya", Bombay. "Avantika", Raipur.

Telephone Nos. : 255581, 255582 & 255583.

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Dhirajlal & Co., Bearings, Shaftings & Steel Merchants, Manubhai Desai Road, Bombay 4. Phone: 72592. Grams: "WILDERNESS".

DHIRAJLAL & CO., 15, New Queen's Road, Bombay 4. Phone: 27012. (Resi.) 63703. Grams: "RICEMILL" Importers & Distributors of Ball & Roller bearings. Stock holders of F.A.G. & SKF bearings and Distributors of TIMKEN & AETNA, U.S.A. Bearings.

Dhirajlal Morarji, Ball-Bearings Merchants, 37/A, Sarang Street, Bombay 3.

Dialdas, M., & Sons (India) Private Ltd., Haroon Building, 190, Princess Street, Bombay 2. Importers Exporters, Phone: 30124. Grams: "Emdas."

DIAL RUBBER WORKS, Factory, Goregaon East, Bombay. S. D. Sales Office: 12/14, Champa Gali, Zaveri Bazar, Bombay 2. Manufacturers of Acid & Alkali Proof Rubber Hand Gloves, Post-mortem gloves, Surgeon's gloves, Canvassed lined gloves and Rubber Aprons. Tel. Add. 'QUOTATION'. Phone: 38891.

DIAMOND ELECTRIC COMPANY, Electrical Merchants, Engineers and Contractors, 18, Hamam Street, Fort. Tel. Address: 'Lightning' Phone No. 251628. Branch: 166/168, Kalbadevi Road, Opp. Cotton Exchange Building, Bombay 2.

Diamond Surgical Dressings Works, 381, Arthur Road, Bombay 11.

Diarvi Trading Company, Old Custom House Road, Bombay 1. Tel. Address: "Mangalyam."

Dinanath Sons, Importers, Exporters & Manufacturers' Representatives, 466, Kalbadevi Road, Bombay 2. Phone: 39619.

Phone: 243348. Grams: "DINKAM".
DINUBHAI G. DESAI & CO.,
86, Veer Nariman Road, Fort, Bombay 1.
Agents
for
Messrs. Inarco Private Ltd. Manufacturers of "ACCOTEX", Cots & aprons for Textile Spinning.

DINSHAW, N. & CO., Belting, Hardware, Paper and General Merchants, Govt. & Rly. Contractors. 14, Ismail Building, Flora Fountain, Bombay 1. Phone: 253488. Tel. Address: "DEALINALL."

Dinshaw, Khodadad & Co., Provision Merchants, Crawford Market.

DIVYA, Manufacturers, Engineers & Machinery Merchants. 25, Bank Street, Fort, Bombay. Phone: 255175. Grams: "SACHEENCO."

DOBSON & BARLOW (RAYON PLANTS) PRIVATE LTD., Suppliers of Complete plants for the production of Continuous Filament Viscose Rayon, Staple Fibre and Transparent Paper. 3rd Floor, Stadium House, Veer Nariman Road, Bombay 1. Phone: 245878.

DODGE & SEYMOUR (INDIA), PRIVATE LTD., Laxmi Building, 2-B, Ballard Road, Bombay. Phone Nos.: 263674 & 265479. Grams: "EXIMCO."

DONGRE, & CO., PRIVATE LTD., K. T., Manufacturing Chemists. Manufacturers of DONGRE'S BALAMRIT. Chairman & Governing Director: R. V. Dongre, *Office:* Commonwealth Bldg., 82, Medows Street, Bombay 1. Tele. Add. "Balamrit". Phone Nos. 25-4853 and 70670 (Res.).

Doongursee & Sons, Agents, Importers, Exporters, Wool, Hair, etc., Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay.

Dorabji, C., & Co., Manufacturers' Representatives and Agents, Motlibai House, 221, Parsee Bazar Street, Fort. Tel. Address:— "Equitable." Phone No. 252169.

Doric Products, Manufacturers of Doric Pens, Mutual Building, Hornby Road, Fort, Bombay.

DORR-OLIVER (INDIA), LIMITED, "The International," 16, Queen's Road Estate, Bombay 1. Engineers to the Process Industries and Public Health; Processes and Equipment for Chemicals, Sugar, Fertilizers, Minerals, Water and Sewage Treatment. Phone: 242361. Grams: "DORROLIVER."

DRENNAN & CO., Cotton Brokers and Controllers, Neville House, Ballard Estate. Tel. Address: "Alabaster." Phones: 264036 & 264037.

DREWET CHOWNA & CO., 123, Medows Street, Fort, Bombay.

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DUBASH FRERES & CO., Importers & Exporters, Manufacturers' Representatives & Commission Agents, Victoria Building, Parsee Bazar Street, Fort. Phone No. 252131. Tel. Address: "Dubfreres."

DUKE & SONS PRIVATE LTD., Manufacturers of Aerated Waters & Fruit Drinks. Opp. Krishna Cinema, Tribhuwan Road, Bombay 4. Factory and Office Phones: 71347 and 71434.

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DUNLOP RUBBER CO. (INDIA), LTD., Registered Office—"Dunlop House," 57B, Free School Street, P.O. Box No. 391, Calcutta.

Factories—Sahaganj, West Bengal; Ambathur, Madras.

Branches: Ahmedabad, Bangalore, Bombay, Calcutta, Delhi, Ernakulam, Gauhati, Hyderabad, Jullundur, Lucknow, Madras, Nagpur.

Bombay Office: Dunlop House, Hughes Road, P.O. Box No. 4023, Bombay 7. Phone: 73478 (3 lines). Grams: "Dunlops", Bombay.

Manufacturers of tyres and tubes for aeroplanes, automobiles, motor cycles and scooters, tractors, earthmoving machines, animal drawn vehicles and cycles, accessories, repair and retread materials, Cycle rims, conveyor and transmission belting, Vee Belts, hoses, adhesives, Dunlopillo latex foam cushioning.

Durga Arms Stores,—63, Sitaram Building, Dadabhoy Naoroji Road, Bombay 1. Phone: 261879.

Durga Laboratories, Manufacturers of Textile Dyes, 71, Bhandari Street, Bombay 3. (*For further particulars see under "Dyestuffs" Section*).

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East And West Trading Co., The, Chemicals, Dyestuffs and Paper Merchants, Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

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Eastern Import & Export Co., The, Manufacturers' Representatives, Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Eastern Machinery & Trading Co., Heavy Electrical Equipment & Machinery. Imperial Chambers, Wilson Road, Ballard Estate, Bombay 1. Phone: 263343/4. Grams: "BROTOLANI."

Eastern Radio & Refrigeration Co., 307-309, Lotus House, 33-A, Marine Lines, P.O. Box 1196, Fort, Bombay 1. Phone: 243732. Grams: "EASREF." Radio, Refrigeration, Electrical and Telephone Engineers. Sole distributors for PYE British Radios. Branch Office at Beaumon Chambers, Medows Street, Bombay & Offices at Calcutta, New Delhi and Secunderabad.

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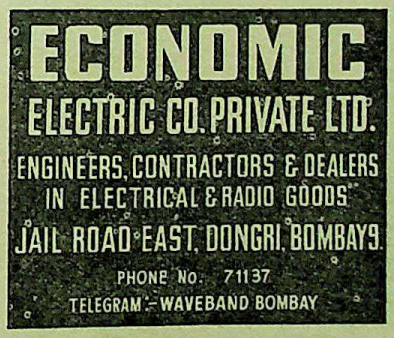

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Lucknow: 11, The Mall, Hazratgunge (Post Box No. 117). Telephone No. Lucknow 4901. Telegraphic Address: "ENELECTICO", LUCKNOW.

New Delhi: Chowdhary Building, 'K' Block, Connaught Circus (Post Box No. 207). Telephone No. Delhi 45801. Telegraphic Address: "ENELECTICO", NEW DELHI.

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Grams: "WIREMESH".
Factory: Goregaon (East), Bombay 62.
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Head Office:—Kitab Mahal, 192, Dadabhai Naoroji Road, Fort, Bombay. Telephones: 26-4771. Tel. Address:—"EVERESTAD", Bombay.

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Evergreen Corporation, Stockists of Hardware & Tools. 9-15, Picket Cross Road, Bombay 2.

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Branches: 3, Australia House. Chowringhee Road, Calcutta 13. Phone: 23-3801. Grams: "ECHOGYRO". La Rive Building, Harbour Road, Visakhapatnam. Phone : 730. Grams : "ECHO-GYRO."

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Express Stationery Service, 12A, Gunbow Street, Fort, Bombay 1.

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H. P. Modi & Co., Manufacturers of Drums, Containers, Kegs, Ghamellas, Kadais, Water Bucket, etc. *Office:* Modi House, 177/79, Nagdevi St., Bombay 3. Phone: 39753. Grams: "MIXTURE", Factory: 41, Sankli St., Byculla, Bombay 8. Phone: 75847.

H. S. SOBHA SINGH & SONS, Importers of Machinery and Equipment such as: Eccentric Presses, Hydraulic Presses, Multiple Die Presses, Press Brakes, Plate Shears, Nibbling Shears, Combined Shearing and Punching Machines, Plastic Processing Machine, Sheet Metal Machinery, Wire Cutting & Straightening Machines, Wire Net Weaving Looms, Rubber Processing Machines. *Offices:* Manu Mansion, Old Custom House Road, Fort, Bombay. Phone No. 252275. Grams: "DALJIT", Bombay.

Haldyn Industries Private Ltd., Glass & Chemicals Mfrs. 344, Cadel Road, Bombay 28.

Hales Brothers (India) Private Ltd., Manufacturers' Representatives, Indenting Agents, Import and Export Merchants. Bombay Office: K. Lekhraj Building, Carnac Bridge, Bombay 3. Grams: "BROSHALES." U. K. Associates: "Hales Brothers (Overseas) Ltd., Audrey House, Ely Place, London, E.C. 1.

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Managing Director: T. H. Bhutta

Hamilton Studios Private Ltd., Photographers, Indu House, Dougall Road, Ballard Estate, Fort, Bombay.

Hamir Jamal & Co., Importers, Exporters, Commission Agents and General Merchants. 229, Nishanpada Road, Khadak, Bombay 9.

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(1937) Private Ltd., Calcutta. *Head Office:* Alice Buildings, Dr. Dadabhoy Naoroji Road, Post Box No. 1254, Bombay 1. *Factories*—Kalyan. Codes used: Bentley's A.B.C. 5th and 6th Edns. and Western Union. Tel. Address: "Waudco". Phone No. 255771 (3 lines).

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Hariprasad Amratlal & Co., Carnac Bunder, Bombay 9. Phone: 27918.

Harichandrai Sons, Ball-Roller Bearings Merchants, 172, Nagdevi Street, Bombay 3.

Harischandra & Co., Jaliwala, Expanded Wire & Perforated Metal Manufacturers & Merchants, 233, Abdul Rehman Street, Bombay 3.

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Hasambhoy Jetha, Machinery Merchant, Opp. Byculla Goods Depot, Parel Road, Bombay 27.

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Hatimbhoy, A., & Co., Iron and Steel Merchants. Carnac Bunder, Bombay.

Havell's Electrical (Sales) Corpn., Electrical Engineers & Importers, 32, Rampart Row, Fort, Bombay 1.

HAZARAT & CO., Importers & Exporters of Cotton, Woollen & Rayon Yarns, Piece-goods, Chemicals & Mill Stores, and Mutton Tallow, Engineers & Contractors, Warden House, Sir Phirozshah Mehta Road, Fort. Tel. Address: "Link." Phone Nos. 25-3960, 25-3968-69. Branch Office: 32, Mahakali Chawl, Tamba Kanta. Amritsar Office: 87, Model Town, Amritsar. Phone No. 2021. Tel. Address: "Lucky". Ahmedabad Office: Hari Sadan, Char Rasta, Ahmedabad. Grams: "Hazrat". Phone No. 4765.

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Deputy Manager: B. N. Sthalekar.

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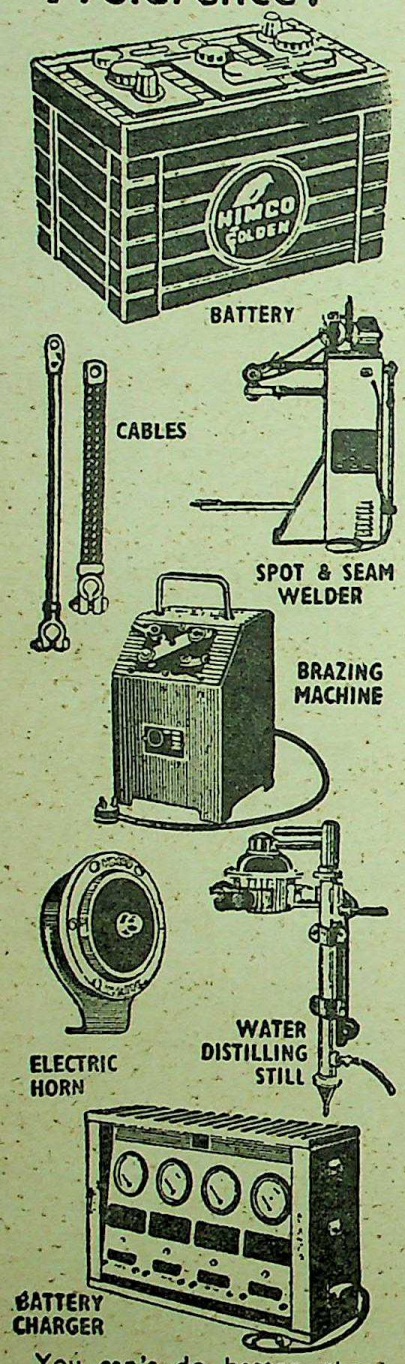

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Grams : "TILES."

Hindustan Tool & Hardware Mart, Engineering Stores & Hardware Merchants. 126, Lohar Chawl, Bombay 2.

Hindustan Tools & Engineering Co., Engineering Tools & Hardware Merchants. 9/11, Picket Cross Lane, Bombay 2.

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Hindusthan Co-operative Insurance Society Ltd., Bombay, Commissariat Building, Hornby Road, Fort.

Hindusthan General Insurance Society, Ltd., Bombay. Area Office ; Commissariat Building, Hornby Road, Fort, Bombay.

Hindusthan Mineral Products Co. Private Ltd., The, Geologists & Mining Engineers. 111, Industrial Area, Sion, Bombay 22.

Hiralal Panchand & Co., Exporters, Importers & Tobacco Commission Agents. Jai Hind Estate, No. 1, 2nd Floor, Cathedral Street, Bhuleshwar, Bombay 2.

Hiscocks & Co., E., Bakery & Dairy, "Win Villa," 23, Clare Road, Byculla, Bombay 8.

HOARE MILLER & CO. LTD., Head Office : 5, Fairlie Place, P.O. Box No. 63, Calcutta 1. Phone : 22-4801-8 (8 lines). Grams : "HOARMILLER."
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Telegrams : "ICIDYES", Bombay. P.O. Box No. 287.
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Fosbery Road, Sewri, Bombay. Telephone No. 76131.
Head Office for India :
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Telegraphic Address : "IMPKEMIX", Calcutta.
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Phone No. : 23-2391 (12 lines).
Technical Service Laboratory, Tiljala Calcutta 19. Telephone : 44-6221.
Branches :
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* Madras—P.O. Box No. 130, Phone Nos. 2928, 2929, 2930 and 55597.
Delhi—Post Box No. 107, Telephone : 43161, Telegram : "IMPKEMIX" New Delhi.
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India Engineering Works, Importers, Exporters and Manufacturers' Representatives, opp. Share Bazar Building, Hamam Street, Fort, Bombay.

India Laboratory Products Co., Aga Khan Bldg., Dalal Street, Fort.

India Machinery Stores, Dealers in Machinery, Flourgrinding Mills, etc., 163, Nagdevi Cross Lane, Bombay 3.

INDIA METAL AGENCIES, Importers & Manufacturers' Representatives, India House, Opp. G.P.O., P.Box 1966, Bombay 1. Telephone: 265456, 261978. Grams: 'WIDEEYE'.

Sole Agents for :—

Thomas Bolton & Sons Ltd., (London, England). Brass & Copper Rods, Tubes, Sheets, Strips, Sections, Phos. Bronze Rods, Wire, Sheets, Copper Printing Rollers, etc.

S. & A. Eredi Grutti., Italy, Brass Tubes for Sugar Mills and Copper Tubes for Refrigeration & Air-conditioners.

G. Cesare Ranzi Legnano (Italy), Diesel Locomotives, wagons and Engine Testing Equipments.

Uher & Co., Vienna (Austria). H. S. Electric Meters.

Agents for Western India :

Bergius Company Ltd., Glasgow, Kelvin Marine Diesel & Petrol Kerosene Engines.

GPIF Indian Make Water Meter ½", ¾", 1" (Agent in Andhra Pradesh).

Strojexport, Praha. (Czechoslovakia) (For Western & Central India). Excavators, Concrete Mixers, Battery Trucks, Conveyors, Electrical Hoists, Mechanical and Hydraulic Jacks, Chain Pulley Blocks.

Outboard Marine International, S. A., Nassau (Bahamas). "EVINRUDE", Outboard Motors.

We also supply Brass Sugar Tubes, A.C.S.R. Conductors, Tubular Poles, Cables, Wire Ropes, Stone Crushers, Road Rollers, etc.

India Publications Company, 31, Hamam Street, Fort, Bombay. Trade, Business and Class Journals.

India Radio Service, Dreamland, New Queen's Road, Bombay 4.

India Raw Products Supply Co., 65, Alli Chambers, Tamarind Lane, Fort, Bombay.

India Taps & Dies Works, Engineering Tools Manufacturers & Brass & Iron Founders, Central Bank Building, Mahatma Gandhi Road, Bombay 1.

INDIA TRAVEL SERVICE PRIVATE LTD., General Travel Agents. People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 261424 (3 lines). Grams: "INDTRAVEL".

INDIA UNITED MILLS LTD., Comprising: Mill No. 1; Mill No. 2; Mill No. 3; Mill No. 4; Mill No. 5 and Dye Works.

Indu House, Dougall Road, Ballard Estate, Bombay. Phone No. 26-5331. Tel Address: "INDUFAB". P.O. Box No. 807.

India Water Proofing Co., Structural Waterproofing Engineers & Contractors. Hassan Chambers, Parsi Bazar Street, Fort, Bombay.

INDIAN ALUMINIUM COMPANY, LIMITED.

Bombay Office : Lotus House, Marine Lines, Bombay 1.

Telephone: 243341-2-3. Telegram: "INDALUMIN".

Head Office : 31, Chowringhee Road, Calcutta 16.

Branches : Bombay, Calcutta, Delhi and Madras.

Products : Bauxite, Alumina Hydrate, Calcined Alumina; Aluminium Ingots; Sheets, Strips, Coils, Circles, Slugs, Corrugated Sheet, Chequered Plate, Extruded Sections, Frameless Houses, Grain Bins; Aluminium paste and powder, Carbon paste.

Non-exclusive distributors for a variety of imported aluminium products.

Indian Arts Emporium, Bombay Mutual Annexe, 2-C, Cowasji Patel Street, Fort, Bombay 1.

Indian Art Museum Private Ltd., Carnac Bridge, Bombay 3. Artwares & Curio Dealers. Manufacturers of Brassware and Carpets. Exporters of Brasswares, Ivory, Woodcarvings, Carpets, Cotton Piece Goods, Benares Silk Sarees, Scarves, Zaribags and other Indian commodities.

Managing Director :—Kishinchand Lekhraj.

Tel. Address: "INDARTMUSE". Phone: 20726.

Indian Automobile Company, Ltd., 4, Apollo Street, Fort. Dealers in Petrol, Oils and Tyres.

Factory : Tatanagar (S. E. Rly.).

INDIAN CABLE COMPANY LIMITED, THE, Cable Manufacturers and Electrical Engineers and Contractors. Representatives in India for British Insulated Callender's Cables Ltd.

Bombay Office : Esplanade House, Waudy Road, Fort.

Head Office : 9, Hare Street, Calcutta 1.

Factory : Tatanagar (S.E. Rly.).

INDIAN CASABLANCAS HIGH DRAFT CO., PRIVATE LTD., THE, Registered Office: Maneckji Wadia Building, Mahatma Gandhi Road, Fort, Bombay 1. Telephones: 255026/7 and 40486. Grams: "INCASA." Patentees and Manufacturers of the Casablancas System of High Drafting for Cotton Spinning, "Casavon" Cots & Bands, Constant Card Stripping Apparatus and Hunt Let-Off Motion, for India, Burma and Ceylon.

INDIAN CATHODIC PROTECTION CO. PRIVATE LTD., Corrosion Engineers. Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay 1.

Director-in-charge : N. B. Bhagat. Tel. Nos.: 255601-2-3. Telegrams: "CATHOPROT".

INDIAN COMMERCIAL CO., PRIVATE LTD., 45/47, Apollo Street, Fort, Bombay. Gram: "INDCOM". Phone: 254258. Exporters and Indentors. Manufacturers of 'CENTRAL' Diesel Engines in India.

Indian Durries Emporium, Carpets, Durries & Coir Mats Dealers, 64, Mahomedali Road, Bombay 3.

INDIAN DYESTUFF INDUSTRIES LTD., Manufacturers of "Navinon Vat Dyes", Mafatlal House, Backbay Reclamation, Bombay 1. Phone: 246281-88 (8 lines). Grams: 'HITSAGAR'. *Factory at :* Shahad, near Kalyan (Thana Dist.).

Managing Agents : Messrs. Mafatlal Gagalbhai & Sons.

Indian Electric Stores, Electrical Goods, Maskati Mahal, Lohar Chawl, Bombay 2. Phone No. 31613.

INDIAN EXPANDED METALS, PRIVATE LTD., THE, Manufacturers of Steel, Brass, Copper & Aluminium Expanded metal of all sizes and meshes.

Managing Director :—N. B. Bhagat, Mechanical Engineer, Overseas Member of the Institute of Welding, London and Sustaining member of the American Welding Society.

Works :—Fort Road, Wadala, Bombay 31.

Office :—Maneckji Wadia Bldg., 127, Mahatma Gandhi Road, Fort, Bombay, Phones: 255601-2-3.

INDIAN FURNACE CO., PRIVATE LTD. (Formerly Indian-Wild-Barfield Co. Pvt. Ltd.), Lotus Cinema Building, Dr. Annie Beasant Road, Worli, Bombay 18. Branch Office: 27/29, Brabourne Road, Calcutta 1. Heat Treatment & Furnace Engineers. Suppliers of: "WILD-BARFIELD" and and "G.W.B." Electric Furnaces; "THERMIC" Fuel Fired Furnaces; "FOSTER" Pyrometers; "GRAFTON" Electric Lehrs and Pottery Kilns; Blythe Ceramic and Enamel Colours; G. L. C. Graphite Electrodes for arc furnaces and anodes for caustic soda cells and other Heat treatment Shop Supplies; "CASSEL". Heat treatment salts; "SHELL-WILDBARFIELD" Quenching Oils. Manufacturers of "IFCO" Thermic Fuel Fired furnaces, "ETERNITE" Carburizing Compounds, "Carbodrip" Gas Carburizing Fluid and "FOSTER" Thermo Couples. Phone: 74687. Grams: "ELECFURN".

Indian Globe Insurance Co., Ltd., The, 315/321, Dr. Dadabhoy Naoroji Road, Fort.

Indian Guarantee & General Insurance Co., Ltd., Bank of Baroda Building, Apollo Street, Bombay. Tel. Address: "IND-GUARCO." Phone Nos. 32955/6.

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INDIAN HOTELS CO., LTD., Bombay House, 24, Bruce Street, Fort.

Taj Mahal Hotel, Green's Hotel & Restaurant and Wellington Mews.

Directors:—

Sir Homi Mody

J. R. D. Tata.

N. H. Tata.

J. D. Choksi.

T. V. Baddeley.

D. R. D. Tata.

K. C. Bakhle.

Secretaries & Treasurers: Tata Industries, Private Ltd.

Director-in-Charge: D. R. D. Tata.

Manager: B. D. Cotval.

Controller of Accounts: S. B. Bajan.

Administrative Officer: T. R. G. Rao.

Public Relations Officer: Mrs. Rani Vicaji.

Tel. Address: "INHOTELS."

Phone No. 219101 (15 lines).

INDIAN HUME PIPE CO., LTD., THE, are the largest manufacturers in India of Concrete Pipes, Steel Pipes and Concrete Poles, Concrete Pipes manufactured by this Company, better known as "Hume Pipes" and "Homogeneous Pipes" are very extensively used for Water Supply, Drainage, Culverts, Irrigation, etc. They are also used as Cable Conduits, Half-round and One-third round Channels, as well as for Well Sinking, Septic Tanks, Telephone Cabins, Dust Bins, Cattle Troughs, Fencing Posts, Latrines, Policeman Cabins, Pillars, etc.

For High Pressure Mains and Distribution required for Water Supply, the Company manufactures Steel Pipes lined and outcoated with Concrete, known as "Hume Steel Pipes." These too are very extensively used and are considered more economical than any other substitutes used for the purpose. During the World War II, the Company started manufacture of Welded Steel Pipes for Penstock requirements of Hydro-Electric Projects. The ever increasing requirement of Penstocks for the various Hydro-Electric Projects under the Second and Third Five Year Plans can now be met with by their Hadapsar Factory (Poona) which is equipped with the up-to-date machinery for Penstocks.

The R.C.C. Poles manufactured by this Company have very advantageously replaced the Steel Electricity Poles for both High Tension and Low Tension Transmission Lines. They are also largely used as Lamp Posts in all the big Cities.

Recently the Company has also started manufacturing the Prestressed Concrete Pipes, which are designed to stand pressures of 150′ of head and above.

The Company have a large network of about sixty factories spread over India, and Ceylon. Head Office: Construction House, Ballard Estate, Bombay 1. Telephone No. 26-5371 (3 lines). Telegraphic Address: "HUMEPIPE", Bombay.

Excellent tests and testimonials: Maintaining large staff of qualified Engineers.

INDIAN INDUSTRIAL ENGINEERS, Electrical Engineers, Importers and Stockists of Electrical Measuring Instruments, 43, Tamarind Lane, Fort, Bombay 1. Phones: 254972 (Office) and 241469 (Res.) Grams: "NEWLIGHT."

Proprietor: B. A. Mehta, B.Sc. (Eng.), M.I.E.

Manager: I. P. Gupta, M.A., B.Com., LL.B.

INDIAN IRON & STEEL CO., LTD., Managing Agents: Martin Burn Ltd. Registered Office: 12, Mission Row, Calcutta. Bombay Branch: Esplanade House, Waudby Road, Fort, Bombay. Phone: 264102. Grams: "INISCOBOM".

Indian Mercantile Insurance Co., Ltd., Indian Mercantile Chambers, Nicol Road, Ballard Estate, Fort.

Indian Pharmaceutical Combine Association Ltd., Manufacturers of Pharmaceutical and Biological Products. 95, Morland Road, Byculla, Bombay 8. Phone: 74631. Grams: 'IPCAPHARM'.

INDIAN PLASTICS LIMITED

KANDIVLI, BOMBAY 67

Telegram:
"PLASTICS KANDIVLI"

Telephone Nos:
84141—84336—84447

Directors: Sarvashri L. N. Birla, H. P. Barat, N. T. Shah, J. J. Ashar, B. N. Ray Chowdhury.

The Company, one of the largest of its kind in Asia, operates three active manufacturing Divisions, as under:

PLASTICS DIVISION: Injection and Compression moulding of various industrial items and manufactures of Perspex novelties.

RADIO DIVISION: Manufacture of well-known JHANKAR Radios. The Division's Carpentry Section manufactures veneered wooden cabinets for JHANKAR Radios as well as several other known brands.

CHEMICAL DIVISION: Manufacture of FLORITE PHENOLIC Moulding Powder and Resins.

INDIAN PLYWOOD MANUFACTURING COMPANY, PRIVATE LTD., Manufacturers of:—Plywood, Veneers, Block Boards, Flush Doors, etc., Factories at: Dandeli & Dharwar (Mysore State) and at Bombay. Head Office at: 9, Wallace Street, Post Box 1175, Fort, Bombay 1.

Phone: 26-3381. Grams: "INDPLYWOOD," Bombay.

Indian Rare Earths Ltd., Manufacturers of Thorium Cerium nitrates, Army & Navy Building, 148, Mahatma Gandhi Road, Fort, Bombay. Phone: 255544/45. Gram: "RAREARTH".

Indian Schering Private Limited, Mercantile Chambers, 1st Floor, Graham Road, Ballard Estate, Bombay.

INDIAN OXYGEN LIMITED

Ghatkopar (Bombay-Agra Road), Bombay 77. Manufacturers of Oxygen, Dissolved Acetylene, Nitrous Oxide, Nitrogen gases, Suppliers of Oxy-Acetylene Welding and Cutting Equipment, Welding Rods and Fluxes, Electric Arc Welding Plant and Electrodes, Automatic Arc Welding Equipment, Argon Arc Welding Equipment, Metal Spraying Equipment and Wires, Hydrogen, Helium, Argon, Neon and other rare gases, also Medical Apparatus for Anaesthesia, Analgesia and Oxygen Therapy and Medical Oxygen.

Distributors of "Burshane" for industrial uses.

Registered Office:—48-1, Diamond Harbour Road, Calcutta 27.

Managing Director:—A. K. Sen.

Bombay Office:—Ghatkopar (Central Railway, Bombay 77).

Telegrams:—"INDOXCO", Ghatkopar.

Phone No. 67941 (4 lines) & 67581.

Bombay City Depot:—Arched Bungalow Road, Off Reay Road, Mazagon, Bombay 10.

Phone Nos.: 75311 and 75312.

Bombay District Manager's Office:—Sadhana Rayon House, 1st Floor, Dadabhoy Naoroji Road, Bombay 1.

Telegrams:—"INDOXYGEN", Bombay.

Phone No.: 264825.

District Manager:—V. N. Swamy.

Bombay Works:—

Oxygen Production and Compression/Dissolved Acetylene/Nitrogen Production Ghatkopar.

Other Branches:—Ahmedabad, Bangalore, Burnpur, Calcutta, Delhi, Jamshedpur, Kanpur, Madras, and Visakhapatnam.

Sales Depots:—Amritsar, Baroda, Cochin, Coimbatore, Cuttack, Gauhati, Hubli, Hyderabad, Jaipur, Jullundur, Kolhapur, Madurai, Nagpur, Nasik, Patna, Poona, Rajkot, Rourkela, Surat, Tiruchirapalli and Vijayawada.

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INDIAN SMELTING & REFINING CO., LTD., THE,
"Industry House"
159, Churchgate Reclamation,
Bombay 1.
Tele. No. 240261.
Cable: "ISARC," Bombay.

Double Hammer Brand. Registered Trade Mark.

Cold Rolled Brass & Copper Sheets Strips, Sheathing & Coils.
Brass & Copper Sheets (Size: 4' × 4').
White Metal (Antifriction) Nos. 6 to 90.
Tin Solder.
Type Metals: Mono, Lino, Stereo, Rotary.
Gunmetal.
Phosphor Bronze No. 200 & No. 500.
Lead Bronze.
Brazing Solder.
All Non-Ferrous Alloys and Castings.

INDIAN STANDARD METAL CO., LTD., THE, I. S. M. Estate, Chinchpokli Cross Lane, Bombay 27. Phone Nos. 42205 and 75018. Tel. Address: "ISMETCO."

REGISTERED TRADE MARK

Metal Smelters, Refiners and Founders.
Manufacturers of:—
Antifriction Bearing Metals, Copper, Brass and Gun Metal, Phosphor Bronzes, Die-Casting Alloys, Aluminium and Light Alloys, Tin and Silver Solders, Type Metal, Monel Metal and S. G. Iron Castings, Die castings in Zinc base & Aluminium alloys, Tower Bells.
Metallurgical and Foundry Engineers.
Board of Directors:
J. D. Choksi (*Chairman*), A. A. Jasdenvala, D. M. Ghia, S. Moolgaonkar, S. K. Handoo.
Works Manager: F. A. A. Jasdanwalla.
Secretaries & Treasurers: The Investment Corporation of India Ltd.

INDIAN TEXTILES CO. PRIVATE LTD.

Manufacturers & Exporters of Handwoven Sarees, Brocades, Silks, Raw Silks, Cottons, Madras Cottons Prints, Woollens, Embroideries, etc.
Bombay Office: Taj Mahal Hotel, Bombay 1. Phone: 211771. Grams: "HANDICRAFT".
Head Office: Varanasi (U.P.). Phone: 1087. Grams: "TEXTILES".
Branches: Great Eastern Hotel, Calcutta. Phone: 231543, and Grand Hotel, Calcutta, Grams: "Artwares". 13N, Connaught Circus, New Delhi. Phone: 46418. Ambassadors Hotel, New Delhi. Phone: 21/14510. Grams: "HANDWOVEN".

INDIAN TEXTILE ENGINEERS PRIVATE LTD., Stadium House, 81/83, Veer Nariman Road, Bombay. Phone: 246238/9/0. Grams: "INTEXTILE". Importers of U.K. Textile machinery for Spinning and Doubling Cotton, Cotton waste, woollen & worsted yarns.

THE INDIAN TEXTILE JOURNAL

THE INDIAN TEXTILE JOURNAL PRIVATE LTD., Registered Office: "Surya Mahal", Military Square, Fort. Proprietors and Publishers of "The Indian Textile Journal," a representative monthly publication for the Textile Engineering and Electrical Industries of South Asia. Founded in 1890 by the late Mr. Sorabji M. Rutnagur.

Directors.—Neville N. Wadia, J.P. (*Chairman*), Jal H. Mehta, Nityanand M. Wagle, J. Symon and Jal S. Rutnagur (*Managing Director*).

Tel. Address: "Journal."
Phone No. 252943.

INDIAN TOOL MANUFACTURERS LTD., THE

101, Sion Road, Bombay 22.
Phone: 62473/74
Grams: "ITOOLS", Sion, Bombay.

"DAGGER" BRAND IT REGISTERED TRADE MARK

Manufacturers of: Small Tools, particularly Twist Drills, Reamers, Cutters and Taps and Carbide Tipped Tools.

INDIAN TRADE & GENERAL INSURANCE CO., LTD., Business Transacted: Fire, Marine, Motor and Miscellaneous, Jehangir Building, Mahatma Gandhi Road, Fort. Phone: 255101 (5 lines). Grams: "ADASTRA".

INDIAN TUBE CO. (1953) LTD., THE, Tubular Steel Poles for transmission wires. 18, Fosbery Road, Sewri, Bombay 15.

INDIAN VEGETABLE PRODUCTS LIMITED, Manufacturers of Refined Oil and Hydrogenated Vegetable Oils.
Directors: F. H. Kemple, Esq. (*Ex-officio*), N. H. Tata, Esq.; Mathuradas Devidas Madhowji, Esq.; K. N. Antia, Esq.; Prahlad C. Mehta, Esq.; Russi Jal Taraporevala, Esq.
Registered Office: Forbes Building, Home Street, Fort, Post Box No. 79, Bombay 1.
Factory: Arched Bungalow Road, Ghorupdeo, Bombay 10.
Telegraphic Address: "YESTERMORN".
Factory Telephone Nos.: 42094/95.
Office Telephone No.: 268081 (10 lines).
Assistant Manager: B. V. Samsi, Esq.
Chief Engineer: R. S. Thapa, Esq.

INDMAG PRIVATE LIMITED, *Head Office:* Esplanade House, Waudby Road, Bombay 1. Telephone: 264907. Grams: "EYESENSTAL".

Branches: Calcutta: 2, Brabourne Road, 6th Floor, Calcutta 1; New Delhi: United Commercial Bank Building, Parliament Street, New Delhi. Resident Engineer at Madras: Mr. D. Seshadri, 160, Ramkrishna Math Road, Mylapore, Madras.

Representatives for Mysore State: Messrs. Industrial Agencies, Hardinge Road, Bombay 4. Gujarat State: Mr. D. M. Zaveri, Patni Buildings, Opp. Jubilee Gardens, Rajkot.

Representatives of Messrs. DEMAG A. G., Duisburg, West Germany and its associated and subsidiary Companies for:—

Mechanical equipments for mining industry, blast furnaces, steel works, rolling mills plants and foundries, electro-metallurgical and electro-chemical plants, crane and loading installations of every description for harbours, shops and storeyards, electric hoist blocks reciprocating, turbo axial flow and rotary sliding-vane compressor pneumatic tools, diesel engines, excavators, high capacity gas producers sintered iron, structural steelworks, steel bridges, steel structures for hydel irrigation schemes and drilling rigs.

Representative of Messrs. E. I. DU Pont De Nemours & Co. (Inc.), Wilmington 98, Delware, U.S.A. for their Textile Fibres, Petroleum Chemicals, Electro-Chemicals, Explosives, Organic and Inorganic Chemicals, Dyestuffs etc.

Indo-Auto Traders, Stockists of Ball-bearings. 524 Sandhurst Road, Bombay 4. (For details see in "Ball-Roller Bearings").

Indo-Bombay Trading Co., Steel Specialists, Pipe Fittings Merchants, 34, Nagdevi Street, Bombay 3.

Indo-British Chemical Co., Dealers in Sizing Materials and Chemicals, Raja Bahadur Mansion, Tamarind Lane, Fort.

INDO-BRITISH TRADING BUREAU (Estd. 1917), Direct Importers and Stockists of Mill & Handloom Stores, 7-10, Horniman Circle, Fort, Bombay. Phone No. 252778. Tel. Address: "Millocraft."

Indo-Europa Trading Co., Estd. 1926, Importers Exporters & Printers' Complete Furnishers. 9, Dalal Street, Fort, Bombay. Grams: "INDOEUROPA." Phone: 252124.

Sole Agents for: Cundall Folding Machine Co., Ltd., England; Fishburn Printing Ink Co., Ltd., England; VEB Druck-automatenwerk Optima Leipzig, Germany; Baptist Bacher, Germany; Kustermann & Comp., Germany; August Fomm, Maschinenfabrik, Leipzig, Germany. Reiss & Schirmer, Hamburg, Germany. Prakma Machinenfabrik G.m.b.H., Berlin, Germany. V E B Kartonagenmaschinenwerk KAMA, Germany.

Indo-European Trading Agencies, 4th Floor, Behramji Mansion, Sir Phirozshah Mehta Road, Fort, P.O. Box 1344, Bombay. Phone: 262664. Grams: "MUSKETEERS." Specialists in Thermostates and Heating Elements and Domestic Refrigeration Spare Parts.

INDO-FOREIGN TRADE SERVICE, Debt collectors, 505, Kalbadevi Road, opp. Edward Cinema, Bombay 2. Phone No. 22848. Tel. Address: "Busitrade."

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Indo-International Commercial Corpn., Private Ltd., Manufacturers' Representatives, Crecent Chambers, Tamarind Lane, Bombay 1.

Indo-Pharma Pharmaceutical Works Private Ltd., Manufacturing Pharmaceutical Chemists, Kohinoor Road, Dadar, Bombay 14.

Indo-Textile Stores, The, Mill & Gin Stores Suppliers, Sir Vithaldas Chambers, 16, Apollo Street, Fort. Phone No. 255261. Tel. Address: "Alltradco."

INDOKEM PRIVATE LTD., 221, Dadabhoy Naoroji Road, Bombay 1; P.O. Box 832. Telegraphic Address: "Indokem". Phones: 265151/5.

Directors :—
Dharamsey M. Khatau.
Ramniwas Ramnarain.
Ratansey Mulji.
C. Ral.

Distributors of :—
Dyes, Chemicals, Pigments and Synthetic Resins manufactured by Badische Anilin & Soda Fabrik, AG., Ludwigshafen (W. Germany); Farbenfabriken Bayer AG., Leverkusen (W. Germany); Cassella Farbwerke Mainkur AG., Frankfurt (Main)—Fechenheim (W. Germany); Indian Dyestuff Industries Ltd., Bombay; Colour-Chem Limited, Bombay.

I. A. E. C.

Industrial & Agricultural Engineering Co. (Bombay) PRIVATE Ltd.

43, Forbes Street, Fort, Bombay 1.

Importers, Manufacturers' Representatives and Stockists of Electrical Machinery, Switch Gear, Machine Tools, Ventilating Plants, etc. *Branch and Associated Offices at :*—Delhi, Madras, Bangalore, Hyderabad and Calcutta.

Phone: 251440. Grams: "AGRICOLA."

INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD., Karimjee House, 2nd Floor, 59, Sir Phirozshah Mehta Road, Fort, Bombay. Phone No. 262475. Grams: "Coolair." Specialists in all Air handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

INDUSTRIAL AND ENGINEERING COMBINE, "Commonwealth", opp. Nariman Point, Post Box No. 1323, Bombay 1. Phone: 245650. Telegrams: "INDUSEAST". Representatives in India of Messrs. Secheron Works Co., Geneva (Switzerland) for Electrical Locomotives, Power Plants, Transformers, Motors, Rectifiers, Regulators, etc. Civil and Structural Engineers.

Industrial and Prudential Assurance Co., Ltd., Industrial Assurance Building, opp. Churchgate Station, Bombay. Tel. Add.: "Prudential." Phone No. 37404.

Industrial Distributors, 10, Hanuman Bldg., Tambakanta, Bombay 3. Yarn Merchants & Cycle & Motor Parts Dealers.

Industrial Engineering Co., Tool & Alloy Merchants. 45 Apollo Street, Bombay 1.

Industrial Electrical Engineering Co., 10, Hamam Street, Fort, Bombay 1. Phone No. 252836. Specialists in Insulating Materials and Armature Wires, *e.g.*, Bakelite, Fibre, Ebonite, Empire Cloth, Tapes, Cotton Tapes, etc. and Enamelled Copper, D.C.C., S.C. Enamelled and high Resistance Wires.

INDUSTRIAL MACHINERY AGENCIES PRIVATE LTD., Importers of Industrial Plant & Machinery, 17, New Queen's Road, Bombay 4. Phone: 20892. Grams: "SCHULERIND." Sole Distributors for: L. Schuler A—G., Goeppingen, West Germany, Schuler Presses, sheet metal and Can making machinery.

Industrial Mill Gin Stores, Stockists of Measuring Instruments, Gauges & Engineering Tools. 51/53, Nagdevi Cross Lane, Bombay 3. Phone: 34363, Grams: "Witegoods".

INDUSTRIAL MINERALS & CHEMICAL CO.

Dealers in Minerals, Ores, Chemicals and Insecticides.
125, Narayan Dhuru Street, Nagdevi, Bombay 3.
Phones: Office 23675, Factory 71456.
Grams: "IMCHEL".

Industrial Perfumes Private Ltd., Army Navy Bldg., Mahatma Gandhi Road, Bombay 1.

Industrial Structural Engineering Works Private Ltd., Structural Engineers & Contractors, Mansukh Nivas, 2nd Fl., 188, Khetwadi Back Road, Bombay 4. Grams: "STEELFRAME". Phone: 76389.

Industries Service Corporation, Importers, Exporters, Manufacturers' Representatives and Commission Agents. Sole Distributors for the States of Bombay and Madhya Pradesh: Tip Top Vulcanizing Products (West Germany), Service Engineers for Splicing and Maintenance of belt conveyors, power transmission belts; Sole Distributors for conveyors, Transmission & V. belts manufactured by Debruin & Berends Ltd., Holland. Raja Bahadur Bansilal Building, 11, Bruce Street, Fort. Tel. Address: "Munpe." Phone No. 251409.

Ingersoll-Rand (India) Private Limited, Devkaran Nanjee Building, 17-B, Horniman Circle, Bombay.

Inter-Mission Business Office, Financial Headquarters, American Missionary Societies, 364, Dr. Dadabhai Naoroji Road.

International Agencies (Regd.), 195, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 26-4101.

International Ball Bearing Corporation. Dealers in Balls, Rollers & Thrust Bearings for Industrial & Automobile purposes. 151, Mutton Street, Bombay 3. Phone: 77309, Grams: "ATOZROLLER".

International Book House Ltd., Booksellers & Publishers, 9, Ash Lane, Mahatma Gandhi Road.

International Cotton Corporation Private Ltd., Cotton Merchants, Importers and Exporters. Indian Globe Chambers, Fort Street, Bori Bunder, Bombay 1. Phones: 262966 & 262594. Grams: "INTERCOTCO".

I·C·T

INTERNATIONAL COMPUTERS AND TABULATORS (INDIA) PRIVATE LIMITED, Hollerith and Powers-Samas Data Processing Equipment. *Head Office :* Liberty Building, New Marine Lines, P.O. Box 516, Bombay, 1. Telephone No. 241982. *Directors :* Mr. Ramnivas R. Ruia (*Chairman*); Mr. Murarji J. Vaidya (*Vice-Chairman*); Mr. S. P. Godrej and Mr. J. Hall (*Non-resident*). *Director and General Manager :* Mr. D. H. F. Arcourt-Rippingale. *Sales Manager & Assistant General Manager :* Mr. J. S. Bedwell. *Secretary and Financial Adviser :* Mr. L. C. Mehta.

Western Zone Office (Sales and Service), Bombay: Mistry Bhavan, Dinsha Vachha Road, P.O. Box 516. Telephone: 245076-7. *Manager :* Mr. D. Y. Hodarkar. *Maintenance Manager :* Mr. R. J. Albuquerque.

Accounts Department : Fazalbhoy Building, Mahatma Gandhi Road, P.O. Box 516, Bombay 1. Telephone: 252243. *Chief Accountant :* Mr. M. N. Bhagvat.

Engineering Headquarters : Amrut Oil Mills Compound, Haybunder Road, P.O. Box 516, Bombay 15. *Field Maintenance Manager :* Mr. M. Vincett.

Card Works : 3, Jackeria Bunder Road, Cotton Green, Bombay.

Also Zone Offices at : Calcutta, Delhi, and Madras.

Area Offices at : Poona, Jamshedpur, Lucknow, Bangalore.

Telegraphic Address : "TABULORIAL," Bombay.

International Dental Co., Direct Importers of Dental Goods, Davar House, 199, Hornby Road, Fort, Bombay 1. Phone: 262829. Grams: "Acrylic."

International Electric Trading Co., The, Importers & Dealers in Everything Electrical, Devkaran Mansion, 63, Princess Street, Bombay 2. Phone: 20613. Grams: "Interlite."

INTERNATIONAL GENERAL ELECTRIC CO. (INDIA) PRIVATE LTD., Thackersey House, Graham Road, Ballard Estate, P.O. Box 992, Bombay 1. Phone: No. 26-3833. Cable: 'INGENETRIC' (all Offices). *Branches :* Calcutta, Madras, New Delhi. Representing General Electric Co., U.S.A., Manufacturers of electrical machinery, apparatus, electric and diesel-electric locomotives, refrigerators, air conditioners, domestic appliances, lamp and lighting fixtures, X-Ray and electro-medical equipment. Distributors in India for American Sterilizer Company; Canadian General Electric Company; S.E.M. (Belgium); Atomic Energy Commission of Canada; Fritz Hoffmann of Germany and Smit Rontgen of Holland (X-Ray equipment).

International Lubricants Private Ltd., Importers of Lubricating Oils & Petroleum Products. Court House. Dhobi Talao, Bombay 2.

International Mercantile Corporation, Importers-Exporters, 313, Himalaya House, Jn. of Hornby & Palton Roads, Bombay. 306/11 Section A, Street No. 8, Aden, Camp.

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International Paper Company. Dealers in all kinds of Papers & Boards 26 People's Building, 3rd Floor, Sir Phirozshah Mehta Road, Fort. Phone: 26-3161.

International Research Laboratories, Manufacturers of Textile Printing Colours. 349, Vadgadi, Bombay 3 Grams: 'INTRALABS.'

INTERNATIONAL RUBBER & GENERAL INDUSTRIES PRIVATE LTD.

TRADE MARK

Office: 24, Argyle Road, Wadi Bunder, Bombay (India). Phone: 23736.

Factory: 18, Argyle Road, Wadi Bunder, Bombay No. 9 (India). Phone: 38124.

Manufacturers of all kinds of Rubber and Canvas Footwear, Gum Boots, Rubber Heels & Soles, Hosepipes, Industrial Rubber Goods, Waterproofing of Textiles, etc., etc.

International Trading Company, Importers, Exporters & Manufacturers' Agents, Manhar Buildings, 187, Lohar Chawl, Bombay 2.

Interseas Corporation, Importers, Exporters, Agents and General Merchants. Great Social Building, Sir Phirozshah Mehta Road, Fort.

Interstate Transport Company, 9-10, Swastik Chambers, Carnac Bridge, Carnac Road, Bombay-1.

INVESTA INDUSTRIAL CORPORATION LIMITED, Ewart House, Bruce Street, Fort.

Business:—

Public Limited Industrial Finance Corporation.

Directors:—

A. D. Shroff (*Chairman*).
Sir Chunilal V. Mehta, K.C.S.I.
N. H. Tata.
J. D. Choksi.
S. Moolgaokar.
M. R. Chinoy.

Secretary.—P. B. Poonjiaji.

Tel. Address: "Intacorp". Phone Nos. 251612 & 251911.

INVESTA MACHINE TOOLS & ENGINEERING CO., LTD., Ewart House, Bruce Street, Fort.

Manufacturers of:—

Precision Machine Tools, such as all geared headstock Lathes, All geared Pillar, Column and Radial types of Drilling Machines etc. and heavy complicated grey iron and alloy castings for Diesel Engines and Locomotive Components.

Secretaries & Treasurers:—

Investa Industrial Corporation Limited. Ewart House, Bruce Street, Fort.

Directors:—

K. C. Bakhle (*Chairman*).
Sir Chunilal B. Mehta.
A. A. Jasdenvala.
Hirjee Cowasjee Jehangir.
T. V. Baddeley.
R. J. Taraporewala.

Chief Executive Officer: R. H. Colah.

H.O.:—Ewart House, Bruce Street, Fort.

Works:—Pais Street, Clerk Road, Byculla.

J. V. Pandit (*Manager*).
J. Mathews (*Works Manager*).
D. H. Kohiyar (*Accountant*).

Tel. Address: "Inmactools," Bombay (*Head Office*); "Vestatools," Bombay (*Works*).

Phone Nos. 251612 & 251911 (*Head Office*), 42004–5 (*Works*).

INVESTMENT CORPORATION OF INDIA LTD., Ewart House, Bruce Street, Fort.

Directors:—

J. R. D. Tata (*Chairman*).
Sir Cowasjee Jehangir, Bart., G.B.E., K.C.I.E.
Sir Chunilal B. Mehta.
Dinshaw D. Romer.
J. D. Choksi.
N. H. Tata.
C. H. Bhabha.
A. D. Shroff (*Managing Director*).
J. N. Patuck (*Secretary*).
R. H. Colah (*Assistant Secretary and Accountant*).

Tel. Address: "Vescor." Phone Nos. 251612 & 251911.

Invex Private Ltd., Mustafa Bldg., Sir P. Mehta Road, Bombay.

IRONITE COMPANY OF INDIA PRIVATE LTD., 43, Forbes Street, Fort, Bombay 1. Phone: 255756–57. Manufacturers of "Ironite" floor Hardner and Cement Waterproofer.

Ismailia Co-operative Bank Ltd., Ismailia Bank Building, Sandhurst Road East, Bombay 9. Registered in 1930.

Ishwardas & Co., Mfrs., dealers and Exporters of all kinds of sewing embroidery and glazed threads. 2, Sutar Chawl, Bombay 2. Phone: 34886. Grams: "BADMINTON".

Issak Bros., Transport Agents & Contractors, Poona Street, Dana Bunder, Bombay 9.

ITALAB PRIVATE LTD., Assayers, Samplers, Surveyors, Geologists, Consultants and Public Analysts. Head Office: 15, Cawasji Patel Street, Bombay 1. Phones: 25-3882/3. Grams: "ITALABO." Chain of Laboratories at: Calcutta, Madras, Nagpur, Visakhapatnam, Kandla and Goa.

ITALINDIA COTTON CO. PRIVATE LTD. (Estd. 1922). Exporters of Piecegoods, Yarns, Seeds and Importers of Egyptian, American, Sudan and African Cotton, Pime Cotton, Staple Fibre, Art Silk and Silk Yarn. Indian Globe Chambers, Fort Street, Fort, Bombay 1. Phone: 26–2629. Tel. Address: "Artbonesch."

Iwacom Private Limited, Manufacturers of Plastic Umbrella handles, 204, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay. Phone: 26-1144, 26-5321/22. Grams: "IWACOM." Factory at Mahatma Gandhi Road, Kandivli. Phone: 84186.

J. A. QUADROS (ENGINEERS), Industrial Corner, Goregaon East, Bombay 62. Mechanical & Electrical Engineers. Manufacturers of Reduction Gears, Units and Machinery Spare Parts. Phone: 84314.

J. K. Chemicals Ltd. (Owners of: The Eastern Chemical Co. (India)), J. K. Building, Dougall Road, Ballard Estate, Bombay 1.

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Indian Made Fibres: J.K. Rayon, Kanpur, J.K. Synthetics Ltd., Kota (Rajasthan).

Jute: Juggilal Kamlapat Jute Mills Co. Ltd., Kanpur, Ganges Manufacturing Co. Ltd., Calcutta.

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Sugar: Kamlapat Motilal Sugar Mills, Kanpur, Motilal Padampat Sugar Mills Co. (P) Ltd., Majhowlia.

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Paints: Hoyle's Paints Ltd., Calcutta, J. K. Paints Works, Kanpur.

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EASTERN ZONE—National Insurance Bldg., 7, Council House St., Calcutta, India.

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Phone : 23023 Grams : "Mayflower"
Estd. 1908

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JACKS, WILLIAM, & COMPANY LTD., Manufacturers' Distributors, Engineers and General Merchants, "Hamilton House", Graham Road, Ballard Estate, P.O. Box No. 335, Bombay. Also at Calcutta, Madras, New Delhi, Bangalore, Hyderabad (Deccan), Karachi, Lahore, Chittagong, Dacca, Rangoon and Hongkong. *Associated with :* William Jacks & Co. (Malaya) Ltd., Singapore, Kuala Lumpur, Penang, Ipoh, Malacca, Jesselton, Kuching and Brunei and William Jacks & Co. (Ceylon) Ltd., Colombo.

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Accountant :—J. N. Vachha, B.Com., A.C.A.

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VARATIO-STRATELINE Gears Ltd.

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Jagtiani Bros., Importers and Stockists of Electrical Goods, 53, Podar Chambers, Parsi Bazar Street, Fort.

JAGTIANI, J. T., Specialists in Hospital and Laboratory Equipment and Refrigeration and Air Conditioning machinery. National House, 6, Tulloch Road, Apollo Bunder, Post Box 332, Bombay 1. Phone: 213035. Grams : "FACMARE."

JAI DAYAL KAPUR (Distributors for Shree Gopal Paper Mills Ltd., Jagadhari), 24, Shamshet Street (First floor), Bombay 2. Phone : 39567. Grams : "JAIKAPSO" (for all branches).

Branches : Chawri Bazar, Delhi 6 ; Gwyne Road (Aminabad), Lucknow ; No. 2, Anderson Street, Madras 1.

N.B.—Madras and Lucknow Offices are the distributors for 'Bellarpur Paper & Strawboard Mills Ltd.,' for South India and Lucknow respectively.

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JAIPUR METALS AND ELECTRICALS LTD., Manufacturers of Arsenical Copper Rods, Copper and Cadmium Copper Conductors, Brass Rods and Wire, 'Jaipur' House Service Meters. *Head Office:* Jaipur.

JAIRAMDAS & SONS, Importers and Stockists of Files, Tools, Saws, Precision Instruments Suppliers to Government & Railways. Manufacturers of Concrete Mixers—pan mixers and other Road building machinery. Branches: Delhi, Bangalore, Secunderabad & Madras. 163, Narayan Dhuru Street, Bombay 3. Grams: "JAIRAMSONS." Phone No. 29020.

"JAM-E-JAMSHED" (Established 1832), Anglo-Vernacular daily. J. B. Marsban & Co. Private Ltd., Ballard House, Mangalore Street, Fort. Tel. Address: "Jamshed", Bombay. Phone Nos. 26-2571 & 26-2572.

James Tools & Hardware Co., Engineering Stores Importers & Manufacturers, 109, Nagdevi Street, Bombay 3.

James Wright Ltd., Wavell House, 15, Graham Road, Ballard Estate, Bombay.

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Jamnadas Jivram & Co., Gum, Grain & Seeds Merchants. 229, Samuel Street, Bombay 3.

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Subscribed Capital ..	,,	50,00,000
Paid-up Capital ..	,,	25,00,000
Total assets exceed	,,	1,66,00,000

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Factory: Jayant House, Bail Bazar, Agra Road, Kurla. Phone : 67424.

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Jayantilal Gokaldas & Sons, Sanitary Engineers & Pipes Fittings Merchants. 232 Masjid Bunder Road, Bombay 3.

Jayantilal Kasturchand & Co.—102, Bhandari Street, Bombay 3. Crockery, Glassware and Enamelware Merchants. Grams: "GLEANAPOT". Phone: 27947.

Jayantilal Keshavlal & Bros., Sewing Machines Mfrs. & Dealers. 282, Sardar Vallabhbhai Patel Road, Bombay 4.

Jayantilal L. Gandhi, Direct Importers of Wire, Wire-netting products, 243, Argyle Road. Iron Market, Bombay 9.

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JAYEMS ENGINEERING CO., Engineers, Machinery Merchants and Manufacturers' Representatives.

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Jehangir P. Lentin & Co., Shipchandlers, Steamship Furnishers & Suppliers of all labour, Lentin Chambers, Dalal Street, Fort.

Jenson & Nicholson (India) Ltd., Manufacturers of Paints, Varnishes, Enamels, etc., Mackinnon Mackenzie Building, Ballard Estate, Bombay. Phone: 263329.

JHAVERI BROS. & CO. PRIVATE LTD. (Estd. 1914). Novelties and Gift Specialists, Manufacturers' Representatives, Importers, Exporters, Wholesalers and Retailers. Sole Agents in India for: "Montblanc" Fountain pens, pencils of Germany. Bauknecht Trifix Kitchen Machines. Three Showrooms in the City. (1) 345, Abdul Rehman Street, near Crawford Market, Bombay 3. Grams: "GIFTS". Phone: 22096.

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Head Office: Fairlie House, 4, Fairlie Place, Calcutta. Phone No. 22-3345/6. Tel. Address: "Watertube," Calcutta.

Managing Director: H. Jeavons.

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JOHNSON & PHILLIPS LTD. (Incorporated in England with Limited Liability.) Head Office: Columbia House, Aldwych, London. Works: Charlton, London. Head Office for India: "Kaiser-i-Hind" Building, Currimbhoy Road, Ballard Estate. Manufacturers of Association (C.M.A.) Electric Wires and Cables, P.B.J. and Signal Cables, Distribution Pillars and Joint Boxes, Transformers, Switchgear (Power), Capacitors for power factor improvement, A.C. Arc Welding Equipment, Overhead Transmission and Distributing material including outdoor switch fuses. Agents for—Horstman Gear Co., Ltd., Bath, England ("H.B.E." Electric Time Switches); Landis & Gyr. Ltd., England (Electric House Service Meters); Electric Transmission Ltd., England (Outdoor switchgear and fuses); Nalder Bros. & Thompson Ltd., England (Electrical measuring instruments); E. & E. Kaye Ltd., England (Bare copper wire, copper strips, plain and enamelled D.C.C. and S.C.C. wires); G. P. Dennis, Ltd., England (L. V. Switch Fuse Gear), H. K. Porter Company, Inc. Delta Star Electric Division, Lynchburg, Va. U.S.A. (Crystal Valve Lightning arresters); British India Electric Construction Co., Ltd., Calcutta. Representatives for Western, Northern & Southern India for Switchgear manufactured to J & P. Designs. Manager for India, Burma & Ceylon: C. E. Stewart. Tel. Address: "Johnphil." Phone No. 26-2457. P.O. Box No. 863.

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Thermal Insulation Engineers
Contractors for Heat & Cold Storage Insulation, Boiler Furnace Bricklining and "Chemico" & "Terracrete". Government (Marine Dept.) approved Deck Flooring for Passengers and crews accommodation. Boiler Coverers in India for over 40 years.
Rustom Building, Veer Nariman Road, Fort, Bombay.
Tel. No. 253520. Tel. Address: "Mica." Post Box 337.
Associated Firm at: Calcutta.
London Correspondents:—J. D. Jones & Co. (London), Ltd., Lotus Works, Heigham Road, London, E.C.

J. & P. COATS (INDIA) PRIVATE LTD., Manufacturers and Sales Agents for sewing cotton and embroidery thread, hand knitting wool, slide fasteners.

Managing Director: J. Thomson.

General Sales Manager: G. R. Mathison.

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Delhi Branch: Garstin Bastion Road, Phone: 26804, Post Box No. 1091.

Madras Branch: 19, Vaniar Street. Phone: 3568, Post Box 273.

Gauhati Branch: Assam Trunk Road, Tokobari. Phone: 883. Post Box No. 40.

Tel. Address for all Branches: "SIXCORD".

Mill: Koratti, Kerala. Phone: Chalakudi Nos. 62 & 64. Tel. Address: "JUMNA".

J. Halley & Co., Ltd., 32, Nicol Road, Ballard Estate, Bombay. Importers of Oilmanstores, Provisions, Hair and Tooth Brushes, Toilet Papers, etc.

J. Ranchhoddas Shah & Co., General Machinery Merchants, Kirti Building, Forbes Street, Fort, Bombay.

Joseph Leslie & Co., Safety Engineers & Manufacturers of Safety Appliances, 105, Apollo Street, Bombay 1. Phone: 251608; Grams: "LEONINE".

JOST'S ENGINEERING CO., LTD., Electrical & Mechanical Engineers and Contractors; Great Social Bldg., Sir Phirozshah Mehta Road, Fort, Bombay; Post Box No. 243, Bombay 1. No. 64, Calcutta. Telephone No 26-2697 and 26-2698 Bombay. No West 23-2257 Calcutta. Tel. Address: "Jost"—Bombay. "JOST"—Calcutta. Codes: A.B.C. 5th & 6th Editions Western Union 5-letter, Bentleys'.

Jostle Trading Corporation Private Ltd., The, Electric Goods, Maskati Mahal, Lohar Chawl, Bombay 2. Phone: 20823.

JUGGAT SINGH'S SON & BROS., Manufacturers and Exclusive Distributors of Pharmaceuticals. Regal Cinema Building, 41, Apollo Pier Road, Bombay 1. Phone: 211812. Grams: 'PHYDRUGCO'.

J. V. MEHTA & CO., Automobile and Radio Specialists, Opera House, Bombay 4. Phone Nos. 27065-66. Partner Res.: 74178. Grams: "JEVIMEHTA."

Jyoti Automobiles, Ball-Bearings Merchants, Modi Chambers, French Bridge, Bombay 4. (For details see in "Ball & Roller Bearings").

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Jyoti Limited, Electric Motors & Pump Manufacturers, Lotus House, Marine Lines, Bombay 1.

Jyoti Calor-Emag Ltd., Lotus House, Marine Lines, Bombay 1.

Jyoti Motor Accessories, Motor Body Fittings Suppliers. Prathana Samaj, Bombay 4.

K. Chapman & Co., Mfrs. of Deformity Appliances. 462, Sandhurst Road, Bombay 4.

K. Mahadev & Co. (Private) Ltd.—Chemical & Chemical Engineering Equipment Mfrs. Bhavani Shanker Cross Road, Dadar, Bombay 28.

K. Parikh & Co., Iron & Steel Merchants. Iron Market, Carnac Bunder, Bombay 9.

K. Suchde & Brothers, Diesel Engines Spares Merchants, 82, Apollo Street, Bombay 1.

K. B. Modi & Co., Cycles & Cycle Accessories Merchants, 8, Ebrahim Mansion, Kalbadevi Road, Bombay 2.

K. J. Corporation, Mill Gin Store Merchants. 78, Ali Chambers, Tamarind Lane, Bombay 1.

K. R. Tavakkuli & Sons, Tea Merchants. Hararwala Bldg., Golpitha, Bombay 4.

K. S. A. Ink & Chemical Co., Office Equipment Mfrs., Mherwan Bldg., Sir P. M. Road, Bombay 1.

Kabbur, Ltd., S. K., Chemicals & Dyestuffs, 3, Bastion Road, Fort, Bombay. Grams: "DIAZO". Phone: 26-1627.

Kachwalla, M. A., & Sons, Importers & Distributors of Glass Sheets, etc., 97-99, Dhanji Street, Bombay 3.

Kadri Paper Box Factory, Mfrs. of Paper and Cardboard Boxes. Noor Manzil, Mohamedali Road, Bombay 3.

Kala Industries (Bombay), 153, Narayan Dhuru Street, Bombay 3. Stockists of Engineering Tools and Precision Measuring Instruments. Phone: 20893. Grams: "HIRAVASOO".

Kalamazoo Parchment Paper Co., India, Elphinstone House, Churchgate Street, Bombay.

KALVERT, A., & CO., 90/92, Mazagaon Road, Bombay 10. Phone No. 42414. Tel. Address: "Currosauce." Manufacturers of Mango Chutney, Pickles, Curry Powder, Condiments, Squashes, Vinegar, Sauce, Syrups, Prumto, Canned Alphonso Mango Slices and Pulp, Prawn Balchow, Jams, Canned Vegetables, Moglai Mutton Biriyani & Curry.

Kamal Rubber Works Ltd., Rubber Balloons & Toys Manufacturers 71, New Citizen Bank Bldg., Palton Road, Bombay 1.

Kamani Engineering Corporation Ltd., Engineers, Kamani Chambers, Nicol Road, Ballard Estate. Phones: 26-1714 (5 Lines).

KAMANI METALS & ALLOYS LTD., Manufacturers of Brass, Copper, Phosphor, Bronze and Zinc Sheets, Strips and Coils, Agra Road, Kurla North, Bombay 70. Phone: 67984 (3 Lines).

Kamdar Private Ltd., Furnishers & Decorators, Show Rooms, Industrial Building, opp. Churchgate Station, Fort, Bombay. Phones: 242347-8.

Kamlashankar P. Joshi & Co., Manufacturers & Distributors of Ball Bearings. 98, Nagdevi Cross Lane, Bombay 3.

Kamrudin Adamjee & Co., Motor Car Hood & Upholstery Materials Specialists, 135, Ibrahim Rahimtoola Road, Bombay No. 3.

Kanara Engineering Co., Private Ltd., Mount Road, Mazagaon, Bombay 10. Structural, Mechanical and Refrigeration Engineers.

Kanchanlal Maganlal & Co., Chemists & Laboratory Equipment Merchants, Bode Chawl, Princess Street, Bombay 2.

KANJI JADHAVJI & CO., Freight Brokers, Stevedores & Landing Contractors, Travel & Shipping Agents. Masjid Bridge, Bombay 9. Phone: 30097 & 22081. Grams: "GITA".

KANSHI RAM KIDAR NATH (ESTD. 1918), 4-C, Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1. Phone: 242217. Grams: "Kaysons." Importers of Wool Tops, Raw Wool, Art Silk & Rayon Arts. Exporters of Woollen Manufactures and Cotton Piece-goods. *Branches:* Delhi and Amritsar.

Kantilal Bhogilal & Co., (Estd. 1933), Engineering & Metal Cutting Tools, Precision & measuring tools, Garage tools and worm and Triple gear chain pulley Blocks and Abrasive products. 68, Nagdevi Cross Lane, Bombay 3. Phones: 30837 (Office) and 70235 (Residence). Grams: 'PIPETOOLS'.

Kantilal Company, Dealers in Batteries, Torches, Bulbs, etc., Jamnabai Building, Abdul Rehman Street, Bombay 3.

Kantilal & Company, Importers of Cycles & Accessories, 170, Princess Street, Bombay 2.

Kantilal Karia & Co., Furniture Merchants & Interior Decorators. Chowpatty View, Bombay 7.

Kantilal Keshavlal & Co., Electrical Licensed Contractors, Manufacturers of Spherehot Water Heaters. 80-82, Vithalwadi, Bombay 2.

Kantilal Sanghvi & Co., Importers, Exporters and Manufacturers' Representatives of Chemicals, Dyes, Intermediates, Solvents, etc. Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay. Tele. Nos. 253041, 253628 and 255636. Tel. Address: "Expim."

Kapadia Brothers, 81, Abdul Rehman Street, Bombay 3. Painting Contractors of Buildings, Mills, Factories, Cinemas, Flats, etc. Estimates free on request. Dealers in: Paints, Enamels, Distempers, Plastic Emulsion Paints, etc. Chief Stockists of "Noble Paints". Grams: "DECORATORS". Phone: 29108.

KAPADIA & CO. (Estd. 1919). Importers and Exporters, Bell Building, 19, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams: "WEDLOCK." Phone: 252942.

Partners.—Kariman Burjor Kapadia and Burjor Kariman Kapadia.

Importers of: Woollen, Cotton & Rayon Piece-goods, P.V.C. Plastic Sheetings, Leather Cloth, Oil Cloth, Essential Oils, Aromatic Chemicals & Sundries.

Karachi Electric Co., Electrical Engineers & Direct Importers, Himalaya House, Palton Road, Bombay 1.

Karachi Engineering Co., Asbestos Cement Products Suppliers, Builders and Contractors. 42, Khorshed Building, Sir P. M. Road, Bombay 1. Phone: 262801.

Karanjia & Co. Private Ltd., N. B. Union Bank Bldg., Apollo St., Bombay 1.

Karnad & Bellare Ltd., 2nd Floor, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay.

KAYCEE INDUSTRIES LTD., Electrical & Mechanical Engineers.

Representatives for:

"WESTINGHOUSE" Semi-conductors and Rectified apparatus.
"CHARMILLS" Water Turbines.

Manufacturers of:

"SANTON" Rotary Switches.
"KAYCEE" Toggle Switches.
"KAYCEE" Water Meters.

Head Office: Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.

Telephone: 264030. *Telegrams:* "KAYCE".

Branches: Delhi, Calcutta, Madras and Kanpur.

KEMP & CO., LTD., Manufacturing Chemists & Pharmaceutical Agents.

Manager: S. Bhattacharyya, M.A.

Dy. Mgr.: M. D. Chothia, B.A., LL.B.

Secy.: U. S. Shah, B.Com., F.C.A.

Works Mgr.: R. D. Kotwal, M.Sc.

Head Office and Factory: "Elphin House," 88C, Old Prabhadevi Road, Bombay 28. Tel. Address: "Pharmacy", Bombay.

Branches:—Sohrab House, Dr. Dadabhoy Naoroji Road, Fort; 44, Cumballa Hill; Clare Road, Byculla; Taj Mahal Hotel; Dr. Ambedkar Road, Parel; Dr. Annie Besant Road, Worli; Bhatia General Hospital, Tardeo; Kashmiri Gate, Delhi; Connaught Place, New Delhi; 32-C, Chittaranjan Avenue, Calcutta 12 and 27/28, Armenian Street, Madras 1.

Kemicolor Industries, 193-195, Hornby Road, Bombay 1.

KERR, F. S., & CO. PRIVATE LTD., Manekji Wadia Building, 125, Mahatma Gandhi Road, Fort, Bombay. Dealers in Dyes, Chemicals, Pharmaceuticals, Solvents and Pigments. Also Exporters of Frozen sea foods.

Representing:—

Koppers Company Inc., International Division, Pittsburgh 19 Pa (U.S.A.). Newport Industries Inc., New York, U.S.A. Tel. Address: "Kerindia." Phone: 254172.

KERSONS MANUFACTURING CO. OF INDIA PRIVATE LTD., Manufacturers of quality Electrical Accessories. Gopal Nivas, Lohar Chawl, Bombay 2. Phone: 20479. Grams: "SNIPE". Factory at Bhandup. Phone: 67388.

KESAR SUGAR WORKS, LTD., 45-47, Apollo Street, Fort, Bombay. Phone: 25-1301. Tel. Address: "KESUWORKS." Sugar Factory at Baheri (U.P.). Chemical Factory: Goregaon, Bombay.

Kesbo (Private) Limited (Formerly known as The Karachi Electric Stores (Bombay) Ltd. Electrical Engineers, and Importers in Electrical Goods. Sole Agents: "Burgess" Vibro Tools, Vibro Sprayers. Micro Switches. Executive Office: Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 7. Phone: 71643. Warehouse: Arthur Bunder Road, Colaba, Bombay 5. Grams: "Rectifiers".

Keshavlal Talakchand Private Ltd., Cloth, Yarn, Staple Fibre & Jute Merchants, Importers & Exporters. India House, opp. G.P.O., Bombay 1. Telegraphic Address: "CHANDRODAY." Phone: 262934.

Branches at: Ahmedabad, Sholapur, Coimbatore, Madras and Salem.

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Kilburns

REGISTERED OFFICE: 2, Fairlie Place, Post Box No. 61, Calcutta 1. Telephones: 22-4301 (15 lines) Telegrams: "MACNEILLS" and "TASCONIUM"

GROUP OF MACNEILL & BARRY LTD COMPANIES

BRANCHES

BOMBAY: Gresham Assurance House, Pherozeshah Mehta Road, P.O. Box No. 565. Bombay-1. Telephone: 251908. Telegram: TASCONIUM.

NEW DELHI: Dr. Gopal Das Block, 28, Barakhamba Road, P.O. Box No. 166. New Delhi. Telephone: 42396. Telegram: TASCONIUM.

TEZPUR: Agency Office, Tezpur. Telephone: 84. Telegram: "TASCONIUM".

AHMEDABAD: Badshah Bhavan, Tilak Road, P.O. Box No. 1065. Ahmedabad. Telephone: 3147. Telegram: TASCONIUM.

COIMBATORE: P.O. Box No. 763, R. S. PURAM Coimbatore. Telephone: 3743. Telegram: TASCONIUM.

BANGALORE: 48, Jayachamrajendra Road, Bangalore-2. Telephone: 5511. Telegram: TASCONIUM.

MADRAS: 32/33, Linghi Chetty Street, P.O. Box No. 1700. Madras-1. Telephone: 21307-21308. Telegram: TASCONIUM.

KANPUR: L. I. C. Building, Mahatma Gandhi Road, P.O. Box No. 286, Kanpur. Telephone: 5454. Telegram: TASCONIUM.

MINING EQUIPMENT FIELD OFFICE: P.O. Dishergarh, Dt. Burdwan, W. Bengal. Telephone: Barakar: 188. Telegram: OLDHAM.

NAGPUR: Amrit Bhavan, Nehru Marg, P.O. Box No. 79. Telephone: 3497. Telegram: TASCONIUM.

SECUNDERABAD: Rashtrapati Road, Secunderabad-3. Telephone: 6577. Telegram: TASCONIUM.

MANUFACTURERS OF

Ammonia Process and Ferro Prussiate Paper—("Victory")
Boiler Mountings—("Dewrance").
Canvas Waterproofed ("P. C.")
Cardboard Packaging—("Indian Cardboard Industries").
Circuit Breakers—("Erskine Heap").
Detail Paper—("Victory").
Diamond Drill Bits & Dressers—("Precision")
Drying Ovens—("Kilburns")
Haulages ("Pikrose")
Motor Starters—("Erskine Heap")
Sensitised Reproduction Paper—("Victory").
Sensitised Tracing Paper—("Victory")
Tarpaulins—("P. C.")
Tracing Paper—("Victory")
Water Stills—("Kilburn")

DISTRIBUTORS FOR

Barbed Wire Making Machines ("Deepak")
Cone Drum Belts ("Kilburns")
Conveyor Belts ("Kilburns")
Diamond Drill Bits ("Precision")
Endless Flat Belts ("Kilburns")
Gas Plants ("Gansons")
Paste Filling Machines ("Atla")
Single and Multi-point Dressers ("Precision")
Solder ("Multiple Core")
Synthetic Rubber Aprons ("Kilbands")
Synthetic Rubber Cots ("Kilcots")
Tube Crimping and Sealing Machines ("Atla")
V-Belts ("Kilburns")
Variable Speed Drive Belts ("Kilburns")
Wheel Dressers ("Precision")
Wire Nail & Panel Pin Making Machines

ENGINEERING SECTION

Alan H. Reid, Melbourne Australia. (Electronic Fault Locators)

Atlas Engineering Works, Delhi 6. (Paste Filling, Tube Crimping & Sealing Machines)

Compagnia Genovese D'Esportazione, Genoa, Italy. (Machine Tool Manufacturers' representatives and exporters)

Copes Regulators Ltd., London, England. (Boiler Feed Water Regulators)

Crossley Bros. Ltd., Manchester, England. (Diesel Engines for marine and stationary applications)

Dewrance & Co. Ltd., London, England. (High Pressure Valves, Fittings and Boiler Mountings)

Drysdale & Co. Ltd., Glasgow, Scotland. (Pumps)

Erskine Heap & Co. Ltd., Manchester, England. (Electrical Switchgear, Motor Control Gear)

Fredk Pollard & Co. Ltd., Leicester, England. ("Corona" Drilling Machines)

Gansons Private Ltd., Bombay. (Gas Plant)

Innocenti S. G., Milan, Italy. (Heavy Machine Tools and Rolling Mill Equipment)

John Holroyd & Co. Ltd., Rochdale, England. ("Holfos" Spuncast Phosphor Bronze Cored and Solid Rods)

Lansing Bagnall Ltd., Basingstoke, England. (Mechanical Handling Equipment)

London Electric Wire Co. & Smiths Ltd., London, England.

Vactite Wire Co. Ltd., Salford, England. (Bare Copper Wires, Insulated Copper Wires, Resistance Wires, Strips, Busbars, etc.)

Manesty Machines Ltd., Liverpool, England. (Tablet Making Machinery, Distilled Water Plants, etc.)

Pulverizing Machinery Ltd. Bristol, England. (Mikro-D Equipment)

Nuclear Engineering Ltd., London, England. (Radiographic Equipment)

Ohio Brass Co., Mansfield, U.S.A. (H. T. Transmission Line, Switch Insulators and Fittings)

Rejafix Ltd., London, England. (Universal Marking and Printing Machines)

Russell Constructions (Export) Ltd., London, England. (Seiving and Grading machines)

Sinnova-Paris, France. (Detergents, Wetting and Penetrating Agents, etc.)

GENERAL & OFFICE EQUIPMENT SECTION

A. B. Dick Co., Chicago, U.S.A. ("Mimeograph" Stencil Duplicating Machines)

American Photocopy Equipment Co., Chicago U.S.A. ("Apeco" Photo-Copying Equipment and Supplies)

Boler Petroleum Co., Philadelphia, U.S.A. (Lubricating Oils, Greases, Waxes, etc.)

Bruntons (Musselburgh) Ltd. Scotland. (Galvanised Wire Ropes)

Deutsche Telephonwerke und Kabelindustrie, Berlin, West Germany. ("Hamann" Electrical Calculating Machines)

Dictaphone Corporation, New York, U.S.A.

Dictaphone Co., Ltd. London, England. (Dictating and Transcribing Machines)

Dictograph Telephones Ltd., Croydon, England. (Inter-Communication Systems)

Ditto Incorporated, Chicago, U.S.A.

Ditto (Britain) Ltd., London, England. (Spirit and Gelatine Process Duplicators)

Golf Ball Developments Ltd., Birmingham, England. ("Penfold" and "Bromfold" Golf Balls)

Hall Harding Ltd., London, England. (Drawing Materials and Copying Machines)

Indian Cardboard Industries Ltd., Calcutta. (Cardboard Packaging)

J. Sloper & Co. Ltd., London, England. (Perforating Machines)

Joseph Wright & Co. Ltd., Tipton, England. (Heavy Shipping Chains)

Mulcott Belting Co. Ltd., Bradford, England. (Hair, Cotton and Plasticon Conveyor Belting)

Multiple-Core Solders Private Ltd. Bangalore. (Three Core Rosin Solder)

National Time Recorder Co. Ltd., London, England. (Time and Attendance Recording Equipment)

Richards Ltd., Aberdeen, Scotland. (Flax Canvas Fire and Delivery Hose)

Pitney Bowes Ltd., London, England. (Postal and Employees' State Insurance Franking Machines)

Victor Adding Machine Co., Chicago, U.S.A. (Adding and Listing Machines)

MINING EQUIPMENT SECTION

A. G. Wild & Co. Ltd., Sheffield, England. ("Sylvester" Pit Prop with drawers)

Austin Hopkinson & Co., Ltd. Manchester, England. ("Pikrose" Haulages—Flameproof-Electric (A.C.) and Compressed-Air)

Automatic Coal Cleaning Co., Ltd. Carlisle, England. (Coal Washing Plant)

Barkar Davies & Co., Pontypridd, Wales. (Safety Detachable Hooks, Rope Cappels, etc.)

Belmos Co., Ltd. Lanarkshire, England. (Flameproof Switchgear and Lighting Fittings)

Bruntons (Musselburgh) Ltd., Scotland. (Steel Wire Ropes for all purposes)

Diamond Drill Syndicate, Calcutta. (Diamond and Calyx Core Drilling Contractors)

Etelco Ltd., (Ericsson Telephones Ltd.), London, England. (Mining Telephone Equipment)

Hayden-Nilos Ltd. Sheffield, England. (Belt Fastening and repairing Materials, Hose Clips and Connections, etc.)

Hugh Wood & Co., Ltd. Gateshead-on-Tyne; England. (Mining and Industrial Conveying Machinery Coal/Stone Drilling Equipment, Diesel Locos, Slicers, Loaders, etc.)

Industrial Plastics (India) Calcutta. ("Duravyn" Miners' Safety Helmets)

James W. Smallman Ltd. Nuneaton, England. (Haulage Clips for Endless Rope Haulage)

John Mills & Co., (Llanidloes), Ltd; Montgomeryshire England. (Heavy duty Haulage Engines—Electric, Steam, Compressed Air)

Oldham & Son (India) Private Ltd. Madras. (Mine Lighting Equipment:—Self servicing Cap Lamps, and Accessories and Storage Batteries)

Oldham & Son Ltd., Denton, England. (Sole Overseas Distributors of I.G.D. Testing Instruments for Mines, Gas Plants, Oil Installations, etc. Also F.L.P. Tube Torches)

Precision Tools (India) Ltd., Calcutta. (Diamond Drill Bits, Wheel Dressers, etc.)

Triefus Industries Ltd. Crawley, England. (Industrial Diamonds, Drilling Bits, etc.)

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Keshowlal Lalubhai & Co., Pipes & Fitting Merchants, 87-91, Dhanji Street, Bombay 2.

Kesho Ram & Sons India Private Ltd., 314, Commerce House, Medows St., Bombay 1.

Keshowdas Hassanand Karachiwalla, Glass & Plywood Merchants. 256, Masjid Bunder Road, opp. Imperial Bank of India, Bombay 3.

Khanna & Co., S., Engineers, Builders, Quarry Owners & Decorators, Mustafa Building, Sir Phirozshah Mehta Road, Fort. Phone No. 251162. Grams: "CRETECO".

Kharas Bros., Merchants, Importers and Exporters. No. 14, Hamam Street, Fort, Bombay. Phone: 251805. Grams: "KHAYA."

Sole Proprietor: Dhanjishaw R. Kharas.

Khatau & Munge, Bombay Mutual Chambers, 19-21, Hamam Street, Bombay. Phone: 254091.

KHATAU MAKANJI SPG. & WVG. CO., LTD., Laxmi Bldg., Ballard Road, Bombay 1. Phone: 265411. Grams: "CRAFTSMAN."

K. Hassaram & Co., (Estd. 1881). Manufacturers, Direct Importers and Wholesalers in Textiles and Hosiery of all kinds; World-wide Exporters. New Silk Bazar, Kalbadevi Road, P. O. Box 2142, Bombay 2. Phone Nos. 34152 and 211729 (Res.). Grams: "HINDWASI."

KHATAU VALABHDAS & CO., Indian Globe Chambers, Fort Street, Bombay. Phone No. 261655. Tel. Address: "SCARLET", Bombay. Manufacturers' Representatives. Importers and dealers in Dyes, Auxiliaries, Pharmaceuticals and Chemicals. *Branches:* Delhi, Madras, Patna, Madura, Secunderabad, Cawnpore, and Bangalore. *Agencies.*—Ahmedabad, Nagpur, Indore, Delhi, Ludhiana, Amritsar, Rajahmundry, Calcutta, Miraj, Bhavanagar, etc.

Khimandas Jagumal & Sons, Estd. 1910 (Sind). Engineers, Machinery Merchants, 12, Gunbow Street, Fort. Phone No. 26-1691. Grams: "EXPOCORP."

KHIMJI POONJA & CO., Banks' Muccadams; Clearing, forwarding and shipping Agents; Share, Cotton & Seeds Brokers, Bullion Merchants and Commission Agents; Ready Cotton Merchants, Commission Agents, Importers & Exporters. 20, Old Custom House Road, Fort. Phone Nos. 253510 and 253669. Tel. Address: "GAINSURE." Branch at Kandla Port (Kutch).

KHIRA STEEL WORKS PRIVATE LTD. Manufacturers of fine steel furniture & equipment for homes, offices, hospitals, libraries, canteens and Patented 'Ajax' Aluminium Collapsible Awnings & Folding Roofs. Executive Office & Factory: Ghodbunder Road, Santa Cruz, Bombay 54. Grams: "STEELCASE"; Phones: 89875 & 89569. Regd. Office: Khira Bhuvan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA". Phones: 27636 & 27358. Showrooms: At Khira Bhuvan, Sandhurst Bridge, Bombay 7. Also at Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27108.

Khokhani & Company, Importers & Stockists of Fountain Pens and Spare Parts, Narayan Building, 38-42, Chippi Chawl, Bombay 2.

KIKABHOY CHANDABHOY, Paper & Strawboard Merchants. P.B. No. 2131, 33-35, Mangaldas Road, Bombay 2. Phone No. 38046. Tel. Address: "Creamlaid."

KILACHAND DEVCHAND & CO. PRIVATE LTD. 45-47, Apollo Street, Fort. Phone No. 25-1301. Tel. Address: "Seeds."

Importers and Exporters in Raw Cotton, Oilseeds and Oils, Cotton, Silk and Art-Silk Yarn and Piecegoods, Rayon, Chemicals, Jute, Hessian and Gunny Bags.

KILLICK INDUSTRIES LTD., Industrialists. Killick House, Home Street, Fort, Bombay 1.

Authorised Capital: Rs. 150 Lakhs.

Issued & Subscribed Capital: Rs. 125 Lakhs.

Subscribed & Called Up Capital: Rs. 1,24,96,200.

Directorate: A. N. Haksar, Chairman & Managing Director; C. M. Mehta; M. R. Chinoy; P. D. C. R. Clark, Managing Director.

Assistants & Administrative Staff: R. P. Aiyer; A. Bennett, S. H. Captain, J. A. Colaco, J. P. Dalal, S. Datta, I. M. Desai, R. N. Joshi, P. J. Kapadia, H. J. MacQueen, S. C. Malhotra, B. M. Maniar, A. C. B. Millar, R. R. Modak, S. A. A. Pinto, N. M. Robertson, D. P. H. Rowe, P. R. Saraiya, M. M. Talwar, B. N. Vakil, L. S. Warner.

Agents & Registered Offices:—The Kohinoor Mills Co., Ltd.; The Ahmedabad Electricity Co., Ltd.; The Surat Electricity Co., Ltd.; Bombay Suburban Electric Supply Ltd.; The Shivrajpur Syndicate Ltd.; The Hingir Rampur Coal Co., Ltd.; The Central Provinces Railways Co., Ltd.

Manufacturers of "Light House" Brand Engineers' Steel Files.

Joint Members:—Cement Agencies Ltd., (Managing Agents: The Associated Cement Cos. Ltd.).

Subsidiary Companies: Messrs. Killick Nixon & Co. Private Ltd., Stamco Industries Private Ltd., A. R. Haseler (Private) Ltd.

London Agents:—Messrs. Nixon Forrest & Co., Ltd., 16-17, Devonshire Square, Bishopsgate, E. C. 2.

Codes used:—A.B.C. 5th & 6th Editions. Bentley's, Scott's, Private.

Grams: "KINDRED." Phone: 26-2311. P.O. Box No. 109.

KILLICK, NIXON & CO. PRIVATE LTD. (A wholly owned Subsidiary of Killick Industries Ltd.), Registered Office: Killick House, Home Street, Fort, Bombay. General Merchants, Engineers and Steamship Agents.

Directors: A. N. Haksar, M. R. Chinoy, H. J. MacQueen.

Chief Executive: N. Nath.

Agency Department: N. F. C. Hilling, R. C. Kapur, A. X. Coelho; K. D. Sharma.

Kilpiece Exports Dept.: S. N. Kapur.

Engineering Department: M. R. Ogle, A. T. Kothavala, N. G. Takle, S. P. Chaudhry, R. K. Jagtiani.

Shipping & Clearing Department: F. Rozario, D. S. Kumana.

Finance & Accounts: P. J. Kapadia, B. N. Vakil.

Calcutta Office: (D-2, Gillander House, 8 Netaji Subhas Road, Calcutta 1)—M. M. Talwar.

Ahmedabad Office: (Relief House, Opp. Jyoti Sangh, Relief Road, Ahmedabad).—S. B. Thadani-Roy.

Delhi Office: (10A, Gobind Mansion, Connaught Circus, New Delhi)—S. Lal.

Madras Office: (Post Box No. 1542, Madras).

Kandla Office: (Godown No. 88, Sardarganj, Gandhidham, Kutch)—R. B. Anantani.

Attached Staff: Ellerman's City & Hall Lines—Capt. W. H. Dalton, Captain J. Mason-Price.

Agency Department: 31, Murzban Road, Bombay 1; Acalor (1948) Ltd., London; Bird & Co. (Private) Ltd., Calcutta; Boase Spinning Co., Ltd., Dundee; British Insulated Callender's Cables Ltd.; Cement Marketing Co. Ltd., London; Contessa Filing System (Patentec Contessa Corporation, Bombay); Dewey & Almy Chemical Co., Massachusetts, U.S.A.; Fothergill & Harvey Ltd., Manchester; Gulf Oil (India) Private Ltd., Bombay; F. W. Heilgers & Co. (Private) Ltd., Calcutta; WMB International, A. B. Goteborg; James Sandy Pty. Ltd., Sydney; Masonite Corporation, Chicago; Pressure Cookers & Appliances Private Ltd., Bombay; Sack Fillers Ltd., London; Snowcem India Private Ltd., Bombay; Stewols & Co., Bombay; Stamco Industries Private Ltd. Bombay; Own Manufacture: U. C. (Universal Cleanser) Detergents.

Kilpiece Division: Export of Textiles, Yarn & Sundries.

Engineering Department: (31, Murzban Road, Bombay 1). Aeronautical Services Ltd., Calcutta; Aluminium Industries Ltd., Kundara; Allied Electrical Corporation Private Ltd., Calcutta; Bell's Asbestos & Engineering Co. (India) Private Ltd., Calcutta; E. Boydell & Co. Ltd., Manchester; (MUIR-HILL DUMPERS & LOADERS); J. Collis & Sons Ltd., London; Conveyancer Fork Trucks Ltd., Warrington; Cement & Steel Ltd., London; Ductube-Udall Ltd., London; Efco Furnaces Ltd., Weybridge; English Drilling Equipment Co. Ltd., London; Failing Supply Co. Ltd., London; Fothergill & Harvey Ltd., Lancashire; Ing. F. Fiorentini & Co., Rome; Humphreys & Glasgow Ltd., London; Halifax Tool Co. Ltd., Halifax; Holland Cranes, The Hague; I. H. C. Holland, The Hague; C. H. Johnson (Machinery) Ltd., Stockport; Jacques Dembitzer, Antwerp; Indian Flexible Tube Manufacturing Company Private Ltd., Bombay; J. Christopher & Sons Ltd., London; K-Streetlite Electric Corporation, Faridabad; Loro & Parisini, Milan; Niagara Screens & Plant Ltd., Enfield; Newton Chambers & Co. Ltd., Sheffield; Richard C. Gibbins & Co. Ltd., Birmingham; Slough Estates Ltd. (M. L. Aviation Co. Ltd.), London; Turner Manufacturing Co. Ltd., Wolverhampton.

Shipping: The Hall Line; The City Line; T. & J. Brocklebank Ltd.; Belships Co. Ltd.; T. & J. Harrison; L. Smit & Co.'s Internationale Sleepdienst, Rotterdam; Hinode Kisen Co., Ltd., Tokyo, Japan.

Insurance: British & Foreign Marine Insurance Co., Ltd.

London Representatives: Nixon, Forrest & Co., Ltd., 16/17, Devonshire Square, Bishopsgate, E. C. 2.

Tel. Address: 'Killick' Bombay. P.O. Box 109. Phones: General Offices: 26-5201; Clearing & Forwarding Dept.: 261395.

Kiron Textile Industries, Electrical Goods Mfrs., Yusuf Bldg., Mahatma Gandhi Road, Bombay 1.

Kirpalani & Co., P., Paper & Strawboard Merchants, Bulakidas Building, 11, Vithaldas Road, Bombay 2.

Kirtikumar & Co., Chemicals and Sizing Materials Dealers, 80, Bhandari Street, Mandvi, Bombay 3.

Kirtikumar Electric Corporation, Electric & General Merchants, 12, Tawawala Building, Lohar Chawl, Bombay 2.

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Kirtilal & Co., Ball Bearings & Mill Gin Store Merchants, 31, Bibijan Street, Barbhai Mohalla, Bombay 3. Phone: 23572, Grams: "PIPEWRENCH".

Kishinchand Chellaram (Estd. 1916), Gazdar House, 629A, Girgaum Road, P.O. Box 2145, Bombay 2.

Kiv Trading Co., Tin Printers & Anodizing Specialists. 17/1, Parsiwada, Khetwadi, Bombay 4.

K. K. Shah & Co., Empty Bottles, Corks and Capsules Merchants, Sheriff Devji Street, Bombay 3. Grams: "NEW BOTTLE". Phone: 29973.

Klimt & Lion Private Ltd., Agents for Import & Export in Textiles of all kinds, Western India House, Sir Phirozshah Mehta Road, Fort. Tel. No. 252452. Tel. Address: "Elkayco."

KODAK LIMITED (Incorporated in England with limited liability), Manufacturers of Photographic Materials, Kodak House, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone No. 26-2604 and 17. Park Street, Calcutta; 33/34, Netaji Subhash Marg, Daryagunj, Delhi; and 2/155, Mount Road, Madras. Tel. Add.: "Kodak."

KOHINOOR ELECTRO GILDERS, Electroplaters, Barrel Platers, Electro Tinners & Galvanisers and anodising alum. Khetwadi 10th Lane, Bombay 4. Phone: 71786.

Komal Mfg. Chemists, Ltd., 23-36, Masrani Mansion, Halov Bridge, Old Kurla, Bombay 37. Manufacturers of Toilet Requisites.

Kooka, N. D., & Co., Distributors for "TCC" Condensers, 13/19, Medows Street, Fort, Bombay.

Kooverji Devshi & Co. Private Ltd., Fire Protection Engineers, 164, Lohar Chawl, Bombay 2. (*Also see* under Fire Fighting Equipment Section.

Kooverji Karamshi Talpatriwala, Gaumukh Bhuvan, opp. Masjid Station, Bombay 9.

KORES (INDIA) LTD., Manufacturers of Carbon Papers, Typewriter Ribbons, Drytype Stencils, Duplicating Inks, Ink Tablets, Stamp Pads, etc.

Head Office & Main Factory: Plot No. 10, Off Haines Road, Worli, Bombay 18. Phone No. 73454 (Three Lines). Tel. Address: "KORESCARBO".

Branches & Factories: Ilaco House, 1 & 3, Brabourne Road, Calcutta 1; and 7, Canal Street, Entally, Calcutta 14; 22A, Asaf Ali Road, Near Kamala Market, New Delhi.

Branches: 334, Thambu Chetty Street, Post Box No. 1591, 1st Floor, G. T., Madras; Pioneer Building, Meston Road, Kanpur; Shanti Niketan 3-4-529/1, Lingampalli, Post Box No. 242, Hyderabad-Dn.; 12/3, Mooljee Rawjee Colony, Devanga High School Road, R. S. Puram P.O., Coimbatore; D-45, 6th Cross, Gandhinagar, Post Box No. 1909, Bangalore 9. 1769, Gandhi Road, Next to Model Talkies, Ahmedabad; Ginni House, Govind Mitra Road, Patna 4.

KORULA RUBBER CO. PRIVATE LTD., Manufacturers of Latex Foam Cushions, Telecord Cables, automobile parts, Rubber lined Tanks, Industrial Rubber goods, Gloves & Pharmaceutical Rubber goods. 249, Worli, Bombay 18. Phone: 41950. Grams: "ZIRCON", Bombay.

KOSMEK PRIVATE LIMITED, Sole Distributors of BINACA Toothpaste and Toiletries. 'BIERI' Fashion Jewellery, 'POLYTAINER' Polythene Containers. Head Office: 'Cecil Court', Lansdowne Road, Apollo Bunder, Bombay 1. P. O. Box 1680. Phones: 212841/2/3. Grams: "KOSDIST". Branches: Calcutta, Delhi, Madras.

Kosmos Paper Stores, Paper & Strawboard Merchants, 87A, Khadilkar Road, Bombay 4. Phone: 71901. Grams: "KOSMOSPAP."

Kotak Brothers, Typewriters & Office Equipment Dealers. 59, Forbes Street, Bombay 1.

Kotak & Co., Cotton Merchants, Navsari Building, Dr. Dadabhoy Naoroji Road, Fort. Tel. Address: "Kotakandco." Phone No. 26-3331 (4 lines).

Kotari Trading Co., Dental Goods dealers, 38, Police Court Lane, Bombay 1.

KOTECHA & CO., Importers, Exporters, Cotton Merchants, Commission Agents & Manufacturers of quality Tin containers, P. B. No. 851, 231, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1.

Kothari Brothers, Textile Machinery and Mill-Gin Store Suppliers, Podar Chambers, Parsi Bazar Street, Fort.

Krishin, N., & Co., Stationers and Paper Merchants. Bombay Mutual Building, Hornby Road, Fort.

K. S. KAPOOR & CO., Advertising Agents, 32/33, 4th Floor, Noble Chambers, Parsi Bazar Street, Bombay 1.

K. T. Steel Industries Ltd., Manufacturers of Wire Nettings of all types. K. J. Building, Broach Street, Bombay 9.

Kulkarni & Co., Insurance underwriters, Merchants & Manufacturers' Agents. Navsari Building, 2nd Floor, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone No. 265247. Tel. Address: "Kulkarco."

Kumar Commercial Co., Machinery & Oil Engines Importers, Nadirshaw Sukia Street, Fort, Bombay.

KUMAR ENGINEERING STORES (ESTD. 1945)., Manufacturers of Pharmaceutical Requisites like Drums, Pans, Ladles, etc. in Stainless Steel, Brass, Copper, Aluminium and other metals. Also manufacturers of Pharmaceutical & Scientific Manufacturing requisite & wads of Alkathine, Vinylite, Resistol, Ceresine, Crystal, Blacol, Tin Foil, Aluminium, Plastic, Rubber & Waxed Corks, etc. Address: Opp. B.E.S.T. Control Depot, Bellasis Road, Bombay 8. Tele: 72694. Grams: "CIBIDER". Partners: C. B. Desai, S. B. Desai. Manager: B. Ramanathan, Guaranteed satisfactory Service backed by over 15 years service.

Kumar Stationery Mart (Estd. 1942), Importers, Stationers, Paper Merchants and Government & Railway Contractors. Sole Distributors of "Daylight" gem clips and pins and "Telephone" Brand Ferro and Ammonia paper rolls and "Projecto" Brand Indian Tracing Cloth. Podar Chambers, Store Lane, 109, Parsee Bazar Street, Fort. Phone No. 255303. Grams: "TRADEMOTO".

KUMUDCHANDRA & CO., Importers of replacement parts for Textile winding machines. 29, Dalal Street, Fort, Bombay. Phone: Office: 253214. Godown: 264437. Grams: 'VERYGOOD.'

Kurwa and Kajiji, Government, Railway and Marine Contractors, Shipchandlers, Ironmongers, General Hardware Merchants, 142-44, Abdul Rehman Street, Bombay 3.

Kusumgar & Co., Private Ltd., V. B., Direct Importers of Cycles & their Accessories, P. O. Box No. 2071. 503, Kalbadevi Road, Bombay 2.

L. C. Trading Co., Gas Lamp Mfrs. & Dealers. 62, Lohar Chawl, Bombay 2.

L. R. Trading Company, Manufacturers of greeting cards for all occasions and 'Flash' zip fasteners. Navsari Chambers, Outram Road, Fort, Bombay. Phones: 263141 & 264073. Grams: 'SHAHANICO'.

LABORATORY FURNISHERS, Dhun Mansion, 186-C, Vincent Road, Opp. Fire Brigade, Dadar, Bombay 14. Phone: 62761. Suppliers of Scientific Equipment and Manufacturers of Thermocouples and Pyrometers Instruments, Apparatus and Appliances for College, Research, Industrial, Pharmaceutical, Textile and all other Laboratories.

Laffans (India) Private Ltd., Rustom Building, Churchgate Street, Fort, Bombay.

Lalitkumar & Co., Gums & Sizing Material Dealers, 86, Kazi Sayed Street, Bombay 3.

LALLUBHAI AMICHAND PRIVATE LTD., Manufacturers of Cycle Brand Aluminium wares & Queen Brand Brassware and also Nickel-Silver & Stainless steel & other wares. Metal-wares, Props. of "Dun Aluminium Factory". 225-227, Tardeo Road, Bombay 7. Grams: "Cyclebrand". Phone Nos. 41618, 77175 and 73220.

Lalwani Radio Corporation, 11, Tinwalla Bldg., Tribhuwan Road, Bombay 4.

LANS METAL & ENAMEL WORKS PRIVATE LTD., Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone: 60637. Grams: 'LANSENAMEL'. Manufacturers of E. I. Shades, Hallow Wares, Hospitalwares, Railways Reflectors, Signboards and such other Enamelled articles. Also solicit job work for Enamelling and Metal Pressing of every description.

Managing Director: M. I. Patel.

Sole Selling Agents: Patel Industrial Agencies, 413-C, Kalbadevi Road, Vasantwadi, 2nd Floor, Bombay 2. Phone: 30903.

LARSEN & TOUBRO LIMITED, Head Office: 1. C. House, Dougall Road, Ballard Estate, Bombay. Telephone: 26-4411 (8 lines). Workshop, Parts Depot, Service Station, General Stores: Powai Estate, North Kurla. Telephone: 67997 (5 lines).

Branches: P.O. Box 619, Calcutta, P.O. Box 5247, Madras, P.O. Box 323, New Delhi, P.O. Box 55, Cochin, P.O. Box 98, Bangalore.

Consulting Engineers, Manufacturers' Representatives, Contractors, Importers & Exporters.

Manufacturers of Plant and Machinery for Dairy and allied Industries; Switchgear and Motor Starters; Petrol Dispensing and Metering Pumps; Solvent Extraction Plants; Equipment for the Chemical, Pharmaceutical, and food processing industries and distilleries and breweries; and Sheepsfoot Rollers & Portable Belt conveyors.

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Importers of Agricultural and Earth-moving Machinery and Implements, tube-well drilling equipment, Electrical Equipment & Switchgear, Industrial chemical and refrigeration plants and machinery for Pharmaceutical & bottling industries.

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Managing Agents : L. & T. (Management) Private Limited.

Tel Address : "LARSENBRO."

LATHAM ABERCROMBIE & COMPANY LIMITED

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Forbes Building, Home Street, Fort, Bombay.

Merchants and Manufacturers' Representatives

Branches at :
Delhi & Calcutta.

Directors :
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G. Khandwala, Esq.,
J. W. K. Oates, Esq.

Managers, Bombay :
V. Kalgutkar, Esq.,
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Dist. Manager, Delhi :
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Art Metal Steel Furniture.
Latham Intercommunication Telephone System.
Typewriter Ribbons, Carbon Papers, Paper Rolls, etc.

Telephone : 26-8081 (10 lines).
Telegrams : "LATHAM."
P. O. Box No. 113.

LAWRENCE & MAYO (INDIA) PRIVATE LTD., Qualified Sight-testing opticians and Scientific Instrument makers, 724, Dr. Dadabhai Naoroji Road, Bombay 1, Telegraphic Address : "Lynx", Bombay. Telephone No. 261827.

Laxmi Commercial Co., Importers and paper merchants, 44, Mirza Street, 1st Floor, Bombay 3. Grams : "LAXMI PAPER."

(ESTD. 1914)
LAXMIDAS & DWARKADAS
466, Sardar V. Patel Road, Bombay 4 (India)
Importers of Radio Parts & Accessories.
Leading Dealers in Radio & P.A. Systems.
Phone : 40692 Grams : "THYMOL"

Lakhmichand Cooverji & Co., Tarpauline Merchants. 297, Narsi Natha Street, Bombay 3.

Laxmi Electric Trading Co., Electrical Equipment, Radios, Refrigerators, Spare Parts and Accessories. 37, Sitaram Building, Hornby Road, Fort.

Laxmi Offset & Printing Works, Lithographers. 30, Goa Street, Bombay 1.

Laxmi Playing Cards Mfrs., 30, Goa Street, Bombay 1.

Laxmi Syndicate, Machinery Importers, 4th Floor, Lentin Chambers, Dalal Street, Fort, Bombay.

Laxmi Trading Co., Dyestuffs Merchants, 340, Samuel Street, Bombay 3.

L. Bhagat & Company, Importers of Watches, Clocks and Time-pieces, Abdul Rehman Street, Bombay 3.

L. Dewan & Son, Cargo Supdts. and Shipping Agents, Jan Mansion, Sir Pherozshah Mehta Road, Fort, Bombay.

Phone : 62018 Grams : "INDLEATHER"
LEATHER CLOTH PROCESSORS & PRINTERS
Moghul Lane, Matunga, Bombay 16.
Manufacturers of : "LEATHERIDE" brand Leather Cloth for Book Covers, Travel Requisites, Shoes and Chapals, Railway Coaches, Cinema seats, Bus seats, Car Upholstery and Household Furniture.

LEDERLE LABORATORIES (INDIA) PRIVATE LTD., *Central Office :* "The International," 16, Queen's Road, Bombay 1. Phones : 241144 (4 lines) & 242160. Grams : "LEDLAB," Bombay.

Western Regional Office & City Sales Depot : "India House," opp. G.P.O., Bombay 1. Phone : 262182 (2 lines). Grams : "LEDERSALES," Bombay.

Factory : at P.O. Atul, *via* Bulsar. Phone : 29. Grams : "LEDLAB," Bulsar.

Lee & Muirhead (India) Private Ltd., Clearing, Shipping, Travel, Warehousing & Insurance Agents. 12, Rampart Row, Fort. Phone : 251571 (9 lines). Grams : "LEMUIR."

LEGAL & GENERAL ASSURANCE SOCIETY LIMITED, (Fire, Marine & Misc.). *Head Office :* 188, Fleet Street, London, E.C. 4. *Chief Office for India :* Madurai ; Manager for India : S. Vinayakam. Bombay Office : Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Manager : J. X. deSouza ; Phone : 255088 (2 Lines). Grams : "LEGRESH." Branches at : Calcutta, Madras, Ahmedabad, Delhi, Nagpur, Sholapur, Coimbatore and Cochin. Agents and Representatives throughout India.

Liberty Printing Works, 40, Police Court Lane, Bombay 1.

Light House, Stoves & Gas Lamps Manufacturers, 51, Kitchen Garden Lane, Bombay 2.

Lightfoot Ice & Cold Storage Co., Byculla Bridge, Bombay 27.

Liladhar, P. Shah, & Co., Importers, Exporters and Commission Agents, 335, Samuel Street, Vadgadi, Bombay 3.

Liladhar Pasoo & Co., Shipping and Clearing Agents, 282, Narshi Natha Street, Bombay 9.

Lilaram Kewalram & Sons, 12, Kishore Building, opp. Edward Cinema, Kalbadevi Road, Bombay 2. Bankers, Manufacturers' Representatives.

Linotype and Machinery, Ltd. Printing Machinery Manufacturers. *Head Office :* 21, John Street, Holborn, London, W.C. 1. Works : Altrincham, Cheshire. Head Office for India : 14, Madan Street, Calcutta 13. Bombay Branch : 11-13, Horniman Circle. Tel. Address : "Linotype." Phone No. 251068. Madras Branch : 6, Club House Road, Mount Road, Madras 2.

LINTAS LIMITED, International Advertising Agency, "Dugal House", 169, Backbay Reclamation, P.O. Box 758, Bombay 1. Phone : 246011.

LIONEL EDWARDS (PRIVATE) LTD., Nicol Road, Ballard Estate, Bombay. Head Office at Calcutta. Freight and Steamship Agents. Managing Agents : India Steamship Co., Ltd. General Agents for India : Lauro Lines. *Agents :* American Export Lines, Inc., New York. Pacific Far East Line Inc., San Francisco. Codes used : Bentley's 1st & 2nd Editions and New Boe Code. (Tel. Address : "LIONWARDS"—All Offices.) Phone Nos. 26-1241/43. Post Box 1000.

Lipton (India) Ltd., Ilaco House, Sir Phirozeshah Mehta Road, Bombay. Tel. Address : "Liptea." Phone No. 262769.

Little & Co., Solicitors and Notaries, Central Bank Building, Fort, Bombay. N. J. Apthorpe-Webb, J. S. Bapasola, N. B. Vakil, C. J. E. Grundy, J. J. Vakil, K. J. Chokshi, N. A. Modi. Cable Address : "Legal," Bombay. Phone : 251281/82.

LIVERPOOL & LONDON & GLOBE INSURANCE CO., LTD., THE (Incorporated in England ; Shareholders' Liability Ltd.) 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary : D. E. Twemlow. Tel. Address : "Globance". Phone : 246226 (5 Lines). Post Box No. 1848. Head Office :—1, Dale Street, Liverpool, England.

Lloyd's Register of Shipping, Laxmi Building No. 2, Ballard Road, Ballard Estate, Bombay.

LLOYD TRIESTINO, Navigation Company, Post Box No. 1080, Bazargate Street, Fort, Bombay 1. Phone Nos. 252388 & 254124. Grams : "Lloydiano."

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LONDON, EASTERN & AMERICAN TRADING CO. PRIVATE LTD., Sole Proprietors:—'AA,' 'XLN,' 'A-1,' 'AONE' Electric Lamps and Accessories. 'Drill,' 'Sunspecial,' 'XLN,' 'A-1,' Mantles, 'Premier,' 'Commander,' Cable Wires, 'Royal Fire-Extinguisher.' Sole Agents for Silvery and Oosmania Clips, Splendor Lamps, 'LEA' Fans, 'Britmac' English Electrical Accessories. Dealers in Electric Fans, Fixtures, Accessories, Eveready Flashlights and Novelties. Phone No. 252969. Tel. Address: "Sanguine," 22, Hamam Street, Fort.

LONDON & PROVINCIAL MARINE & GENERAL INSURANCE CO., LTD., 10, Bruce Street, Fort, Bombay. Grams: "LOPROMAR." Phone: 252321. Post Box No. 842.

Lookmanji Moosaji, Furniture Fittings Merchant, Diamond Building, Lohar Chawl, Bombay 2.

Louis Dreyfus & Co., Ltd., Nicol Road, Ballard Estate. Tel. Address: "Dreyfus."

LUCAS INDIAN SERVICE PRIVATE LTD., Dealers & Repairers of Motor Car Electrical Equipment, Diesel Fuel Injection Equipment and Aircraft Electrical Equipment. *Head Office:* 15, New Queen's Road, Bombay 4. Phone No. 23301. Tel. Address: "Lucasind." Branch Offices at: 46, Rafi Ahmed Kidwai Road, Calcutta 16 and Patullo Road, Madras, 2.

Loucatos & Co., G., Importers of Pharmaceuticals & Chemicals, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1. Phone: 263489. Grams: "Gerassimos".

LUMALA INDUSTRIES PRIVATE LIMITED

Manufacturers of: "LION" Brand Steel Balls, Spares for Bicycles & Rickshaws.

344-346, Kalbadevi Road, Bombay 2

Phone: 29921 Grams: "MAGNITUDE"

Managing Director: K. C. Patel.

Lulz, Manufacturers of Naval, Air Force, Civil, Military Caps, Shoulder and Cap Badges, Stockists of all kinds of Wedding Requisites. Opp. G. T. Hospital, 280, Carnac Road, Bombay 2.

Lusob Trading Co., Consulting Engineers, Machinery Importers and Dealers, Specialists in Ventilation and Dust extraction. Bell Building, Sir Phirozshah Mehta Road, Bombay. Tel. Address: "Lusobtraco." Phone No. 252612.

Luxmi Engineering Works, Engineers & Metal Founders, 197, Corner of Grant Road, Bombay 8.

M. A. Mullick & Co., Export & Import, Rangoonwala Bldg., 91, Mohamedali Road, Bombay 3. Phone: 29935. Grams: "ZANJABIL," Bombay.

M. C. Mody & Bros., Electrical Engineers & Importers. 125A, Lohar Chawl, Bombay 2.

M. J. PATEL & CO., Importers & Manufacturers of Pipes, Fittings & Boiler Tubes & Accessories. 177, Nagdevi Street, Bombay 3. Phone: 39183, Grams: "REDTEE".

M. Desai & Co., Mill Gin Stores & Abrasive Merchants, 163, Narayan Dhuru Street, Bombay 3.

M. L. Mansukhani & Co. Pvt. Ltd., Manufacturers of "ZEBRA" brand Umbrellas. 36, New Hanuman Lane, Bombay 2. (For details see in Umbrella Mfrs.)

M. Kantilal & Co., Tool Merchants, 70, Nagdevi Cross Lane, Bombay 3.

M. Pranjivandas & Co., Empty bottles & corks, 79-B, Princess Street, Bombay 2.

M. V. Joshi & Co., Tarpaulins Dealers, 31, Isaji Street, Bombay 3.

MACFARLANE & CO., LTD. (Secretaries & Treasurers: Cotton Agents (Private) Ltd., pending approval of the Central Govt.), 34, Lamington Rd. (N.), Bombay 8. Telegrams: "Taurus." Phones: 41271 & 74265. Regd. Office: 14, Radha Bazar Lane, Calcutta. Manufacturers of "Vala" Paints, Enamels, Varnishes & Distempers and "Valamoid" Plastic Roofing Compound. Agents for Valentine's "Valspar" Products. S. G. Kedia, Manager for Bombay.

Machine Tools Corpn., Mill gin Store Merchants, 158-160, Narayan Dhuru Street, Bombay 3.

MACHINE TOOLS (INDIA) PRIVATE LTD., "Imperial Chambers." Wilson Road, Ballard Estate, Bombay. Tel. Address: "Immaculate". Post Box No. 522. Phone No. 263269. Head Office: Wimet House, 12-A, Russell Street, Calcutta 16. Tel. Address: "Machtools". Phone: 23-1161. Bangalore Office: 41, Silver Jubilee Park Road, Bangalore 2. Tel. Address: "Immaculate." Phone: 4807.

MACHINE TOOLS & IMPLEMENTS, Engineers, Hardware Merchants and Industrial Suppliers. Approved Suppliers to D.G.S. & D. and Other Government Departments, Railways and Prominent Workshops. Stockists of Ball and Roller Bearings, Tool Steels, Hardwares and Small Tools, etc. Manufacturers of Screw Jacks (Bottle, Lifting & Cable drum types), Surface Plates, Plug, Ring & Taper Gauges & Precision Instruments. Main Office: 93-95, Narayan Dhuru St., Bombay 3. Phones: Office: 22868; Residence: 242425. Tel. Address: "Machtools."

Machinery & Spares, Dealers in all kinds of spare parts for Diesel Oil Engines, Electric Motors, Generators, Pumping Sets, Lathes, Shapers, Hand Press, Power Press, Milling Machines, Drills, Tablet Making Machine, Paper cutting Machines, wire nail making Machines, etc. 30, Apollo Street, Fort, Bombay. Phones: 252176 and 71997 (Res.). Grams: "SAHABZADE".

MACKINNON, MACKENZIE & CO., PRIVATE LTD.

Regd. Office: 16, Strand Road, Calcutta 1.

Branch Office: Ballard Estate, Bombay 1. Merchants.

Managing Directors: G. D. Longhurst (*Chairman*); N. H. G. Grant.

Directors: M. R. Das, E. J. Pakes, C.B.E., A. T. Orr. Deas, M.C., J. W. Anson, S. J. Plested.

Director/Secretary: T. O. Millar, C.A.

Shipping Managers: N. Latif, R. B. Adams.

Chief Accountant: D. J. Holland, C.A.

Assistants sign Per Pro: J. V. Cherry, J. Sloan, C.A., R. P. Vachha, B.A., LL.M. (Bom.), LL.B. (Lond.), Bar-at-Law.

Assistants sign Pro: M. N. Alikhan, J. H. G. Baker, M. N. Bainbridge, R. K. Bilimoria, P. Chatterjee, R. F. Folley, N. P. Iyengar, N. K. Jerath, A. S. G. Lambert, E. H. P. Lewis-Bowen, D. Matheson, R. Pollok, N. R. Sachdev, D. N. K. Sen, P. A. Wagle, R. W. Wilson.

Agents: P. & O.—Orient Lines, British India Steam Navigation Co. Ltd., Isthmian Lines, Inc., James Nourse Ltd., Canadian Pacific Steamships Ltd., Frank C. Stick & Co. Ltd., P. Henderson & Co., Hain Steamship Co. Ltd., Asiatic Steam Navigation Co., Ltd., General Steam Navigation Co. Ltd., New Zealand Shipping Co., Ltd., Union Steamship Co. of New Zealand Ltd., Federal Steam Navigation Co., Ltd., Australasian United Steam Navigation Co. Ltd., Eastern Australian Steamship Co. Ltd., The Avenue Shipping Co. Ltd., Cathay Pacific Airways, Atlas Assurance Co. Ltd., Marine Insurance Co. Ltd., London & Lancashire Insurance Co. Ltd., The Ganges Rope Co. Ltd., East African Protectorates, Clearing & Forwarding Agents.

Sub-Agents: Overseas Tankship Corporation. Overseas Tankship (U.K.) Ltd.

Telegraphic Address: "MACKINNONS".

Phone No. 26-8021, P.O. Box No. 122.

Macmillan & Co., Ltd., Publishers, 276, Dr. Dadabhai Naoroji Road, Bombay 1. Phones: 261184-261185. Tel. Address: "Biblicos."

Macropolo, D., & Co., Private Ltd., Kermani Building, Dr. Dadabhai Naoroji Road, Fort. Cigarettes, Cigars and Tobacco Manufacturers and Importers. Tel. Address: "Macropolos." Phone No. 255764. Factory at Kalachowki (Parel), Bombay. Branches at: 11, Old Court House Street, Calcutta and Connaught Circus, New Delhi.

Madan Mohan Jain & Sons, Approved Govt., Rly., P. W. D. Contractors and State Suppliers. 217, Kalbadevi Road, Bombay. Tel. Address: "Madanmohan." Phone No. 20262.

MADHORAM & SONS, Forest Contractors, 136, Tank Bunder, Reay Road. Stockists: Chil Pine, Fire Pine, Teak Wood, Jungle Wood, etc.

Madhowji Dharamsi Mfg. Co., Ltd., Regd. Office: Foras Road, Bombay. Correspondence at: 15/A, Elphinstone Circle, Fort.

MADHU FASTENERS CO., Manufacturers of Zip Fasteners. Sales Office: Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phones: 253502 (Office) & 40634 (Res.). Grams: "VIRVANDAN". Factories at: "Udyog Bhavan", 250/D, Worli, Bombay 18; Udyognagar, Bhaktinagar Station Road, Rajkot (Saurashtra). Phone: 943. *Proprietor:* M. K. Sanghavi.

Madhusudan Gordhandas & Co., Importers and Exporters of Textiles & Yarns. P.O. Box 2110. Ganeshwadi, M. J. Market, Bombay 2. Phone: 28060, Grams: "Katakia."

MAEVY & COMPANY, Nawab Building, 4th Floor, 327, Hornby Road, Fort, Bombay. Importers & Stockists of all grades of Paper and Boards. Phone: 253235. Grams: "EDRIBAK".

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Smt. Vijayalaxmi Navinchandra Mafatlal.
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The Standard Mills Co. Ltd., Bombay: *Managing Agents*: Mafatlal Gagalbhai & Sons, Gagalbhai Jute Mills Private Ltd., Calcutta, New Shorrock Spg. & Mfg. Co. Ltd., Nadiad (*Managing Agents*: Mafatlal Chandulal & Co., Ltd.), The Sassoon Spg. & Wvg. Co. Ltd., Bombay (*Managing Agents*: M. G. Investment Corporation Ltd.), The Mafatlal Fine Spg. & Mfg. Co. Ltd., Navsari (*Managing Agents*: Navinchandra Purshottamdas & Co. Ltd.), Surat Cotton Spg. & Wvg. Mills Private Ltd., Surat, Indian Dyestuff Industries Ltd., Bombay (*Mg. Agents*:—Mafatlal Gagalbhai & Sons).

Telegraphic Address: "Hitsagar". Telephone No. 240281 (6 lines). P. B. No. 1038.

Mafatlal House, Back Bay Reclamation, Bombay 1.

Maganlal Pranlal & Sons, Pipe Fittings & Sanitarywares Merchants. 105, Nagdevi Street, Bombay 3.

Maganbhai & Lallubhai, Jewellers, Importers, Exporters of Real and Cultured Pearls and Precious Stones, 184-186, Sheikh Memon Street, Bombay 2. Phone Nos. 23785 & 22217 (Res.). Grams: "Motibutton".

Maharashtra Sugar Mills Ltd., Industrial Assurance Building, opp. Churchgate Station, Fort, Bombay. Phone: 37181. Tel. Address: "Sugarmills".

M. Mahasukhlal & Co., Engineering Tools & Precision Instruments Merchants. 93, Narayan Dhuru Street, Bombay 3.

MAHENDRA COMPANY, Direct Importers, Exporters & Wholesale Dealers in Chemicals & Colours. Chatrabhuj Niwas, 70, Vadgadi, Bombay 3. Phone C/o: 23663.

MAHENDRA SHANTILAL, Sole Distributors for DIA Chemic (German D.R.) for Dyes & Chemicals. Shanti Niketan, Marine Drive, Bombay 2. P.O. Box No. 607A. Phone: 242117. Grams: 'COALTAR.'

Mahendralal, B., Cotton, Woollen & Silk Merchants, Muljee Jetha Market, Dwarakesh Gully, Bombay 2.

Mahesh Paper Mart, Direct Importers of Paper & Boards. 13, 2nd Agiary Lane, Dhanji Street, Bombay 3. Phone: 27691. Grams: 'MANTHAN'.

Mahindra & Mahindra Ltd., Gateway Building, Apollo Bunder, Bombay. Telegram: "JEEPS", Bombay. Tel. No. 219131.

MAHOMEDALI ESMAIL (Estd. 1924), Stock Exchange Building, Apollo Street, Bombay 1. Grams: 'MERUNISHA'. Phone: 70570 (Res.).

Importers, Exporters and Tanners. Importers of raw hides and skin. Exporters of Tanned Skins, Steel Bolts and Nuts.

Bankers: The National Grindlays Bank Ltd. and The Union Bank of India Ltd.

Mahomedally Esoofbhoy Kaderbhoy, Importers & Stockists of Glassbeads, Needles, etc., 88, Sarang Street, Bombay 3.

Mahomedally Hebatbhoy & Co., Dealers in all kinds of Indian Papers & Strawboard, 15, Mirza Street, Bombay 3. Tel. No. 22324. Tel. Address: "Taheri."

Mahomedally Noorbhoy, Estd. 1858. Arms & Ammunition Mart, 246, Abdul Rehman Street, Bombay 3. Phone: 22696. Tel. Address: "Shooter."

Mahomedally Vallbhoi, Hardware Merchants, Shipchandlers and Paints and Varnishes, 83, Abdul Rehman Street, Bombay 3.

Mahommedally Vallji Arsiwala, Direct Importer and Dealer in all kinds of Glasses, Plywoods, Picture Mouldings, etc., 76, Abdul Rehman Street, Bombay 3. Phone: 38400.

Makalai Timber Mart, Timber Merchants, 79, Ghoghari Mohalla, Bombay 3.

MAKERS PRIVATE LIMITED, Importers of Paper and Boards of every description. Stockists of 'Rohtas' Paper & Boards. 59, Forbes Street, Fort. Phone No. 253090.

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Malgham Bros., 26, Old Custom House Road, Bombay. Surgical, Electro-Medical and X-ray Equipment. Principal importers of Hanovia Ultra-Violet Ray and Infrared Ray Lamps, Fischer X-ray and Short-wave Equipment, Beck-Lee Electro-Cardiographs. Baker Platinum, and Platinumware. Phone: 252964. Grams: "MALGHAM".

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Mamaji & Son (Private) Ltd., Y. A., Direct Importers of Motor & Carriage Fittings etc.; 136-38, Sir Ebrahim Rahimtulla Road, Bombay 3.

Mangaldas & Co., Importers & Exporters of Textile & Chemicals. Musjid Bunder Road, Gaya Bldg., Bombay 3. Phone: 20457.

Mangaldas & Sons, Lentin Chambers, Dalal Street, Fort, Bombay. Importers, Exporters & Manufacturers, Importers of various Merchandise, Mill Stores, Beltings, Chemicals, Cycles, Hardware, etc. Tel. Address: "Respect." Phone No. 253684.

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MANILAL MOHANLAL KARACHIWALLA, Importers & Exporters, Paper Merchants, Clearing and Forwarding & Shipping Agents. Laheri House, 81N, Mahomedali Road, Bombay 3. Phone: 23139. Grams: 'OWNER.'

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Manoel & Co., Stationers and Booksellers, Jer Mahal, 550, Kalbadevi Road, Bombay. Tel. Address: "Manoelco."

MANOHAR BROTHERS, Engineers & Machinery Merchants. Importers of Oil Engines, Electric Motors, Switch Gears, Generating Sets, Machine Tools and dealers in Ball & Roller Bearings, Rubber Beltings & Mill Stores. Show Room: 4, Commerce House, Medows Street, Fort, Bombay. Phone: 254496. Grams: "Locomotive." Branch: 37, Errabalu Chetty Street, Madras. Phone: 4274.

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(Estd.: 1941)
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Commission Agents
General Merchants.
165, Lohar Chawl, P.O. Box 2225, Bombay 2.
Phone: 38251-2. Grams: "MANSETACOY"

Mansukhlal, Jechandbhai & Co., Paper Bags Mfrs., 180/183, Samuel Street, Bombay 9.

Mansukhani M. L. & Co. Private Ltd., 36, New Hanuman Lane, Bombay 2. "Zebra" brand Umbrella Manufacturers.

Manubhai Shah & Co., Dyestuffs, Chemicals & Colour Merchants, 297, Samuel Street, Bombay 3. (See under Chemicals Section).

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MANUFACTURERS LIFE INSURANCE COMPANY OF CANADA. 123, Mahatma Gandhi Road, Fort, Bombay. *Secretary for India*: C. N. Parikh. Phone: 253282. Grams: "MANULIFE".

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In-charge:—J. Strachan.
Personnel Officer:—G. R. Gupte.
Assistants:—B. S. Vanikar, P. A. Padhye, H. R. Mirchandani, A. Remedios, R. Albuquerque, S. B. Shah, V. D. Soman, R. V. Nathan and S. N. Kale.

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Head Office:—Mercantile Building, Lal Bazar, Calcutta 1. *Factory :* Ashutosh Mukherji Road, Calcutta. Branches : Madras, New Delhi, Rangoon. Directors : J. J. Harris (*Chairman*), G. W. Gosling, F. Lemmon, J. E. Lemmon, P. K. Asli and S. D. Mahant.

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Ward's Natural Science Establishment Inc., Rochester, N. Y.
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Branches at : Delhi, Kanpur.
London Office : Martin Burn Ltd. (London Agency), Martin Burn House, 12, Austin Friars, London E.C. 2.

Managing Agents :—

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Marubeni-Iida Co., Ltd.

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3, 3-Chome Hommachi, Higashiku, Osaka, P.O. Box No. 1000, Osaka, Japan. *Cable Address :* MARUBENI, OSAKA

Tokyo Office:

Ohtemachi Building, No. 4, 1-Chome, Ohtemachi, Chiyoda-Ku, Tokyo, Japan. P.O. Box No. Central 595, Tokyo, Japan. *Cable Address :* MARUBENI, TOKYO.

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Agra Building, 121, Mahathma Gandhi Road, Bombay 1. *Cable Address :* MARUBENI, BOMBAY. Tel. 255499.

Calcutta Branch:

5, Clive Row, Calcutta. *Cable Address :* MARUBENI, CALCUTTA. Tel: 222162.

New Delhi Branch:

3rd floor, Connaught House, E-Block, Connaught Circus, New Delhi. *Cable Address :* MARUBENI, NEW DELHI. Tel : 45240.

Madras Office:

Akbar Chambers, Second Floor, 85/87, Armenian Street, Madras 1. *Cable Address :* MARUBENI, MADRAS. Tel : 5891.

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Masrani & Co., Importers, Exporters and Manufacturers, Hanuman Bldg., Tambakhanta, Bombay 3.

Masrani Mill Gin Stores, Ball-bearings Importers & Stockists, 46, Nagdevi Cross Lane, Bombay 3.

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May & Baker (India) Pvt. Ltd., Head Office: Karimjee House, Sir Pherozshah Mehta Road, P.O. Box 693, Bombay.

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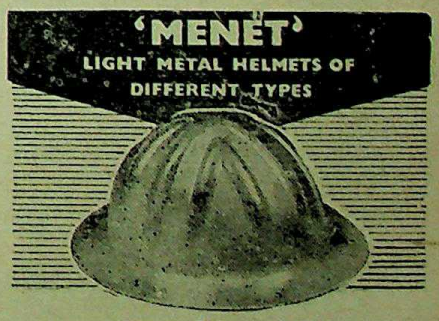

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Mineral Corporation of India Private Ltd., Mineral Merchants. 107, Jamli Moholla, Bombay 3.

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Mody, J. E., & Sons, Coffee Specialists, 164, Hornby Road, Fort. Phone No. 261698.

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Morani Chemicals. Mfrs. of Industrial Chemicals. Sharu Castle, Mohamedali Road, Bombay 3.

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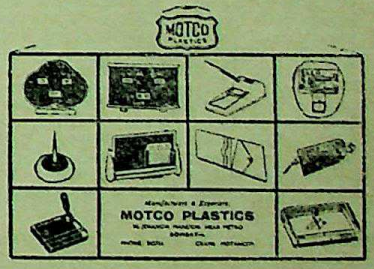

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Motilal Vijbhukhandas, Bullion Merchants, 155, Shaikh Memon Street, Bombay 2.

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MULCHANDANI ELECTRICAL & RADIO INDUSTRIES LTD., Manufacturers of Bush Radio, Celestion Speakers and Hunts Capacitors. Sukh Sagar, Sandhurst Bridge, Hughes Road, Bombay 7. Phone: 74546. Grams: "MULRAIN".

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N. JIVANLAL & CO., PRIVATE LTD., 50, Princess Street, Bombay 2. Phones: 38011-12-13, Grams: "NIRANJAN". Importers, Stockists of Heavy & Light Chemicals, Dyes, Pharmaceuticals, Solvents, Fertilizers, Carbon Blacks. *Delhi Office:* 12/90, Connaught Circus, New Delhi. Phone: 44082. Grams: "METACHEM".

N. Mohanlal & Co., Industrial Rubber Goods Merchants. 124 Nagdevi Street, Bombay 3.

N. M. Mehta & Co., Marble & Tile Merchants, 4-10 Old Custom House Road, Bombay 1. (For details see in Trade Directory Section).

N. P. Master & Co., Exporters & Importers, 17, Gunbow Street, Fort.

Nadirshaw Printer & Co., Suppliers of Dental Goods and Equipment, 121, Mahatma Gandhi Road, Fort.

NAGDEVI TOOL-STEEL MART
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Nakimpex Traders, Universal Merchants & Exports. 24, Veer Nariman Road, Bombay 1.

NANAVATI PLASTICS CORPORATION, Manufacturers of quality plastic goods. Gurukul Chambers, 187/189, Mumbadevi Road, Bombay 2. Phone: 29162. Factory: Tejpal Road, Vile Parle (East), Bombay.

Naoroji N. Vakil & Co., Stoneware Pipes & Fittings Mfrs. Sharu Castle, Mohamedali Road, Bombay 3.

Narandas Rajaram & Co., Private Ltd., Cotton Merchants & Textile Exporters. Navsari Chambers, Outram Road, Fort, Phone: 261861.

Narendra Electric Stores, Electrical Goods & Appliances Merchants, 158, Lohar Chawl, Bombay 2.

Nariman B. Bharucha & Sons, Builders, Civil & Sanitary Engineers, Specialists in prestressed & Thin Shell Concrete Structures. Kha'akdina Terrace "B", Gowalia Tank Road, Bombay 26. Phone No. 40914. Grams: "BARUKSONS."

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National Asphalt Products & Construction Co., Hill View, Mahul Road, Bombay 71.

National Engineering Industries Ltd., 26, Calicut Street, Fort, Bombay 1. Manufacturers of Ball Bearings.

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Virendra Singh.

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Works: Shri Shakti Mills Compound, Haines Road, Mahaluxmi, Bombay 11. Phone Nos. 75342-3. General Manager, H. V. Major.

National Electric Co., Mfrs. of P.V.C. Insulated Wires & Cables, Slewings, Tubings, Pipes, Films, Sheets, etc. 101, Himalaya House, Palton Road, Bombay 1. Phone: 265573. Grams: "BILLION".

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National Employers' Mutual General Insurance Association, Limited. *Head Office:* National Employers' House, 1-4, Bury Street, London, E.C. 3. Fire, Motor, Workmen's Compensation, etc.

Head Office for India: "Kamani Chambers," 32, Nicol Road, Ballard Estate, P.O. Box 730.

Manager for India:—K. L. Pasricha.

Branch Manager:—H. K. F. Nariman.

Telegraphic Address: "EMPLOMUTUA."

Telephone: (2 Lines) 26–2823 & 4.

National Fire Equipment Co., Fire-Fighting Engineers. 11, Bank Street, Bombay 1.

National India Development Co., Ltd., Air Conditioning and Refrigeration Engineers. Forjett Street, Bombay 26.

NATIONAL INSURANCE COMPANY OF NEW ZEALAND LIMITED, THE (Incorporated in New Zealand with Limited Liability). *Head Office:* Dunedin, New Zealand. *Principal Office for India:* Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Marine and Miscellaneous Business. Principal Officers for India: S. R. Idgunji, A.C.I.I. (Lond.), F.F.I.I. and A. Y. Jasdanwalla, B.A., LL.B. Phones: 251537-9, Grams: 'OTAGO,' Bombay.

National Litho Works Private Ltd., Lithographers, 608 Haines Road, Bombay 11.

NATIONAL MACHINERY MANUFACTURERS LTD., Kalwe, Thana. Tel. No. 64/1075. Manufacturers of Textile Spinning Machinery, Spares and Castings.

National Paper Bag Co., Manufacturers of Paper & Polythene Bags. 168, Bhimpura, Chinch Bunder, Bombay 9.

National Plastic & Allied Industries Ltd., Globe Mills Passage, Bombay 13. Manufacturers of Plastic Goods.

NATIONAL RAYON CORPORATION LTD., THE, Sadhana Rayon House, Near Handloom House, Dr. Dadabhai Naoroji Road, Bombay 1. Telephone: Accounts Dept. 261325, Share Dept. 264920. *Administrative Office:* Ewart House, Bruce Street, Fort, Bombay 1. Phone: 259201 (5 lines). Grams: "NARACORP". Bombay. *Factory at:* Mohone, Kalyan, C. Rly. Phone: "Kalyan NRC."

Manufacturers of Rayon Yarn, Sulphuric Acid, Carbon-disulphide, Caustic Soda and Chlorine and Anhydrous Sodium Sulphate.

Directors: Shri Kasturbhai Lalbhai (*Chairman*)
Shri A. D. Shroff
Shri Jiwanlal C. Chinai
Shri Rasiklal J. Chinai
Shri T. V. Baddeley
Shri Mathuradas Mangaldas Parekh
Shri Krishnaraj M. D. Thackersey
Shri Arvind N. Mafatlal.

General Manager (Technical): Dr. M. D. Parekh.

General Manager: Shri C. G. Mahant.

Secretary: Shri S. L. Hemmady.

Works Manager: Shri J. J. Mehta.

MANAGING AGENTS:

CHINAI AND COMPANY PRIVATE LTD., 79, Masjid Bunder Road, Bombay 3.

NATIONAL

METAL INDUSTRIES

15/A, Parel Village Road, Parel, Bombay 12. Phone: 62400. Grams: "MANMUL." Office: 26/A, Behind Mumbadevi Post Office, Bombay 2. Phone: 71534.

Manufacturers of

Weights, Measures and Length Meters according to I.S.I. specifications.

Manufacturers of "NAMI" Oil-Bath Air Cleaners and Fuel Filters. 6 and 12 Volts Car & Truck Horns. Metallic Wash Basins and Sanitarywares. Industrial Hollowwares and pressing according to specifications.

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NATIONAL STEAMSHIP CO. LTD., THE. *Managing Agents:* Dilipsinh Private Limited, 293, Dr. Dadabhai Naoroji Road, Bombay 1. Branches and Agencies at All Important Ports. Telegraphic Address: (Inland) 'RASHTRA', (Foreign) 'VIJAYDHVAJ.' Telephone No. 26-4432.

NATIONAL STEEL EQUIPMENT CO., Naigaum Road, Dadar, Bombay 14. Phone: 61755. Telegrams: "REDLOCKER", Bombay-Dadar. Manufacturers of Hospital & Laboratory Appliances.

NATIONAL STORES, Wine and General Merchants. Sitaram Buildings, Crawford Market, Bombay 1. Phone No. 263121. Grams: "Avija."

National Supply & Distributing of Agency, Electrical Goods Dealers. Jay Mahal, 20-48, Lohar Chawl, Bombay 2.

National Waterproof Co. Manufacturers & Suppliers of Waterproof Papers, Bags, Tarpaulins, etc. Gaya Building, 3rd Floor, Masjid Bunder Road, Bombay 3. Grams: "OMNAMSHIV." Phone: 34125.

National Wire Heald Works (Private) Ltd., Manufacturers of Wire Healds, Lakshmi Bldg., Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 26-2166/67.

NATURAL GAS CO., PRIVATE LTD., H.O.: 53/57, Laxmi Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 263435/6. Grams: 'Naturalgas'. *Branch:* 2, Moledina Road, Poona.

Sole Selling Agents for: MOBIL-FLAME LIQUID PETROLEUM GAS.—STANDARD VACUUM OIL CO.

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Board of Directors: D. M. Khatau, *Chairman;* M. D. Goculdas, *Managing Director;* R. M. Goculdas, K. D. M. Khatau, Mrs. C. D. Khatau and Mrs. R. M. Goculdas.

Navbharat Radio Agencies, 350, Lamington Road, Bombay 7.

Navlakhi, J. V., & Co., Stationers, Kanta Terrace, 533, Kalbadevi Road, Bombay 2.

Navroz Litho Works, 194/B, Gaiwadi, Girgaum, Bombay 4. Phone: 27330. Grams: "Navlitho".

NEAR EAST TRADING CO. (INDIA), 32, Apollo Street, Fort. Phone Nos. 254407 & 251757. Tel. Address: "WIDESPREAD."

NENSHI MONJI, Contractor, Stone and Sand Supplier, 123, Mahatma Gandhi Road, Fort, Bombay 1.

Head Office	.. Tel.	251054. 255048.
Bholwada Quarry	..	„ 61150.
Sand Dept.	..	„ 40186.
Kurla Quarry	..	„ 68044.

Telegrams: "Stonesand."

Neptune Assurance Co., Ltd., The, Transacting Fire and Miscellaneous Insurance, 104, Apollo Street, Fort, Bombay. Phone Nos. 252258 & 252259.

Nestle's Products (India) Ltd., Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate. Tel. Address: "Nestbrand." Telephone No. 263165/66. P.O. Box No. 315.

NETTLEFOLDS OF INDIA LIMITED

Wakefield House, Sprott Road
Ballard Estate
BOMBAY I
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Representing:
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NEW CONSOLIDATED CONSTRUCTION CO., LTD., Engineers and Contractors. Rahimtoola House, Homji Street, Fort, Bombay. Phones: 254227/251144. Grams: "Projects." *Chairman:* A. A. Jasdenvala. *General Manager:* K. Z. Gandhi.

NEW DHOLERA SHIPPING & TRADING CO., LTD. THE, *Managing Agents:* Vikramsinh Private Limited. 293, Dr. Dadabhai Naoroji Road, Bombay 1. Branches and Agencies all over India. Telegram: 'RAVASIA', Bombay. Telephone No. 263443.

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New Era Agencies Private Ltd., Chemicals Importers & Stockists, Kamani Chambers, 32, Nicol Road, Ballard Estate. Phone: 262552. Grams: 'MUJKO'.

New Era Paint Works, Building, Painting Contractors and makers of Industrial & Decorative Air-Dry Crinkle Finishes, Synthetic Hard Enamels, Glossy Oil Paint, Ready mixed Oil Paints, Flat Washable Oil Bound Distempers, Varnishes, Oils, Plastic Emulsion Paints, Rubber Enamels, etc. Opp. Byculla Station, Byculla, Bombay 27. Tel. Address: "NEWERA." Phone No. 40097.

New Field Paper Industries, 48, 2nd Carpenter Street, Bombay 4.

NEW GREAT INSURANCE CO. OF INDIA LTD., THE, Principal Office in the Union of India at 45-47, Apollo Street, Fort, Bombay.

Paid-up Capital .. .. Rs. 20,00,000

Chairman.—Shri Tulsidas Kilachand.

General Manager.—Shri M. G. Mody.

Business Transacted.—Fire, Marine, Accident and Miscellaneous Insurance.

Branches at: Agra, Ahmedabad, Amraoti, Amreli, Amritsar, Bangalore, Bareilly, Bhilvara, Bhavnagar, Calcutta, Cochin, Coimbatore, Gauhati, Guntur, Hubli, Hyderabad (A.P.), Indore, Jalgaon, Jalna, Jharia, Jalpaiguri, Jaipur, Jodhpur, Jammu, Kanpur, Khamgaon, Lucknow, Ludhiana, Madras, Madurai, Mangalore, Masulipatam, Muzaffarpur, Nagpur, New Delhi, Patan, Patna, Poona, Raipur, Sangli, Silchar, Siliguri, Sriganganagar, Surat, Surendranagar, Trichur, Colombo, Chittagong, Karachi, Nairobi.

Representatives at: Amsterdam, Brussels, Colombo, Dar-es-Salaam, Kampala, Mombasa, Mwanza, Rangoon, Rotterdam, Seychelles.

NEW HAVEN STEEL BALL CORPORATION Private Ltd.

Manufacturers of Steel Balls, Bicycle parts, Socket Head Cap Screws, Bolts, Nuts, Auto parts etc.

Office: Nanjee Building, 17-B, Horniman Circle, Bombay 1.
Phone: 255346.
Grams: "GULDASTA".

Factory: Parsi Panchayat Road, Andheri (East).
Phone: 87039

NEW HAMPSHIRE INSURANCE CO. OF MANCHESTER, NEW HAMPSHIRE, Warden House, Sir Phirozshah Mehta Road, Fort, Bombay. Grams: "AMINTIND." Manager for India, A. J. Shah.

New Hind Engineering Co., Mill Gin Store & Textile Beltings stockists, 63, Nagdevi Cross Lane, Bombay 3.

NEW INDIA ASSURANCE CO. LTD., *Head Office:* Bombay, New India Assurance Building, Mahatma Gandhi Road, Fort, P.B. No. 969. Phone: 259151. Grams: "NIASURANCE".

Board of Directors:

A. D. Shroff (*Chairman*).
J. R. D. Tata (*Vice-Chairman*).
Ambalal Sarabhai.
Ramniwas Ramnarain.
Kasturbhai Lalbhai.
Jayantilal R. Mehta.
N. K. Petigara.
Bhagwandas C. Mehta.
J. D. Choksi.
B. K. Shah (*Managing Director*).
P. A. Advani (*Chief Manager*).

Authorised Capital ..	Rs.	10,50,00,000
Subscribed Capital ..	„	5,69,68,485
Paid-up Capital ..	„	1,42,42,125

Transacts Fire, Marine, Motor, Machinery and all classes of Accident Insurance Business.

Regional Offices in India:

Calcutta: 4, Lyons Range, P.O. Box 113. Madras: 4-5, First Line Beach, P. O. Box 270. New Delhi: Connaught House, Connaught Place, P. O. Box No. 46.

Indian Branches:

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London Agents: Messrs. Sedgwick, Collins (Agencies) Ltd., Regis House, 43-46, King William Street, London E.C. 4.

New India Corporation, Importers, Exporters, Engineers, Estate Suppliers and Manufacturers, Warden House, Sir Phirozshah Mehta Road, Bombay 1. Phone: 254440; Grams: 'NUINDCORP'. Other Offices: New India Corporation, 7/1, Mission Road, Bangalore 2. Phone: 71746 and Ensign Engineering Corporation, 117, Armenian Street, Madras 1. Grams: "ENSENCO".

New India Hardware Mart, Shipchandlers, Mill Stores Suppliers, 152, Narayan Dhuru Street, Bombay 3. Phone: 38665. Grams: "FREETRADE".

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Jabalpur Office: 13/2, Ganjipura, Jabalpur.

Jabalpur Factory: Simplex Estates, Nagpur Road, Jabalpur.

Bombay Phone: 41773.

Jabalpur Phone: 889.

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New Standard Engineering Co., Ltd., Carroll Road, Bombay 13. Structural & Mechanical Engineers and Founders.

NEW SURGICAL TRADING CO., THE, Direct Importers and Manufacturers' Representatives. Bulakhidas Building, Mangaldas Road, Princess Street, P. O. Box 2321, Bombay 2. Telegraphic Address: "Coworker." Phone No 38138. Dealers in Surgical, Scientific and Laboratory Equipments, Hospital Steel Furniture and Sundries. Specialised in Soil and Cement Testing Equipment. Proprietor: C. J. Patel.

New United Construction & Engineering Co., Ltd., Industrial Assurance Building, Churchgate, Bombay 1. Phone: 37181.

Nicolls & Company, Typewriter Experts (a complete line of Typewriter business), Kermani Building, above D. Macropolo, Sir Phirozshah Mehta Road, Fort. Telephone No. 253523.

N. Jamnadas & Co., Freight Brokers and Travel Agents, 16, Bank Street, Fort.

Noble Paint & Varnish Co., Private Ltd. Fergusson Road, Lower Parel, Bombay 13.

Phone: 261172.

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Head Office:—14, Netaji Subhas Road, Calcutta. Telephones: 22-4094 & 4095. Telegram Address: "NORINPACO", Calcutta.

Bombay Office:—India House, 4th Floor, Fort Street, Fort, Post Box No. 871, Bombay 1. Telephone: 26-3300. Telegram Address: "NORINPACO", Bombay

Bankers:—The Netherlands Trading Society, 18A, Brabourne Road, Calcutta 1. The Mercantile Bank of India, Bombay.

Principal Business:—Manufacturers' Representatives, Stockists, Aviation, Importers and Exporters—Indentors and dealers in Paper, Paper Bags for Cement, Pulp, Wood Products, Fertilisers, Chemicals, Totanin Tanning Extract, Raw Materials for Paints and Plastics, Penstocks, Refractories, Belting, Aluminium Life Boats, Plastic Lifeboats, other Equipment for ships, machinery, etc.

Exporters of:—Minerals, Ores and Textiles.

North British & Mercantile Insurance Co., Ltd., 9, Wallace Street, Fort. Tel. Address: "Norbrit." Phone No. 264841.

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NORWICH UNION FIRE INSURANCE SOCIETY, LTD., 16, Bank Street, Post Box No. 49, Fort, Bombay. Western Zone Manager: K. M. Dastur. Telegraphic Address: "Nufam". Telephone: 251985.

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Ocean Electric Co., Manufacturers of Electrical Accessories. 480, Kalbadevi Road, Bombay 2 (*For details please see in Electrical Engineers & Mfrs. of Electrical Goods*).

Ocean Marine Insurance Co. Ltd., Macmillan Building, 276, Hornby Road, Fort.

Ochhavlal Chhotalal & Co., Manufacturers of Ropes, Twines, Tapes, etc. 207-209, Nagdevi Street, Bombay 3.

Odhavji, B., & Co., Iron, Steel and Hardware Merchants, Government & Railway Contractors, Carnac Bunder, Bombay 9.

Odhavji Devidas & Co., Chemicals & Colour Merchants, 357, Vakil Building, Samuel Street, Bombay 3.

Odhawji Lawji & Co., Direct Importers & Dealers in all aerated water Requisites, such as Essences, Colours, Empty Bottles, Pure Saccharine, Crown Corks, Soda Water machinery, CO_2 Gas and Cylinders and Aromatic Chemicals, Chemicals, Essential Oils etc., Chikhal House, 144/B, Princess Street, Bombay 2. Phone: 29164. Grams: "PLUMOL", Bombay 2.

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Telephone: 28188.

Factory:

244, Masrani Estate, near Halao Bridge, Kurla, Bombay.

Phone: 67521.

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Oilseeds Trading Co., Private Ltd., The, Currimjee Building, 111, Mahatma Gandhi Road, Fort, Bombay 1. Phone No. 259241. Tel. Address: "Raytrade." Exporters of all kinds of Oilseeds, Oils, Oil Cakes, Spices, Grains and Textile Piecegoods.

Names of Directors:—

Ratilal Mulji Gandhi; Nagardas Ranchhoddas Sanghvi; Dhirajlal Babubhai Sanghvi; Arun Nagardas Sanghvi, Gaurang Nagardas Sanghvi; Kirit Ratilal Gandhi.

Oliver, F. P., & Co., Ltd., Agents, Import and Export Merchants, 32, Apollo Street, Fort, Bombay 1. Post Box No. 50.

Onlooker, The (A. MacRae & Co., Ltd.), United India Building, Sir Phirozshah Mehta Road, Fort.

OOMRIGAR, D. C., & CO. PRIVATE LTD., Wine & Spirit Merchants, 354, Abdul Rehman Street, opp. Crawford Market, Bombay 3.

Oosman Bros., Furniture Merchants & Interior Decorators. 107-B, Mohamedally Road, Bombay 3.

Opil, The Oriental Pharmaceutical Industries, Ltd., Manufacturers of Chemicals and Pharmaceuticals. 64/66, Tulsi Pipe Road, Mahim, Bombay 16.

ORIENT EXPRESS CO. PRIVATE LTD., THE, Petit Building, 359, Dadabhoy Naoroji Road. Bombay 1. Phone: 251047. Grams: 'Orexpresco.' World Wide Travel Service. Authorised Agents for Airlines, Steamship Companies, Railways and Hotels. Offices in New Delhi, Calcutta, Bombay and Madras. Correspondents in 350 cities throughout the world. *Managing Director:* Mr. S. S. Poddar.

Orient Longmans Private Ltd., Publishers, Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay. Offices at Calcutta, Madras, New Delhi, Hyderabad (Dn.), Dacca, Poona, Ahmedabad and Bangalore.

G. D. Sthalekar, *Manager;* P. S. Warty, *Asstt. Manager.* Tel. Address: "Longmans." Phone No. 261811.

Oriental Can Manufacturing Co., Tin Box Manufacturers. 1076 Haines Road, Worli, Bombay.

Oriental Engineering Co., Second Hand Machinery Merchants. 25 Forbes Street, Bombay 1.

Oriental Fire and General Insurance Co. Ltd. (Incorporated in India, 1947). Oriental Buildings, Bombay 1.

Oriental Import & Export Agency, Importers, Exporters and Manufacturers' Representatives, 52, Shrikrishna Nivas, New Silk Bazar, Kalbadevi Road, Bombay No. 2. Phone: 28662.

Oriental Languages Bureau, Lakshmi Building, Sir Phirozshah Mehta Road, Bombay.

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Oriental Rubber Industries Private Ltd., Industrial Rubber Goods Manufacturers. United India Bank Bldg., Sir P. M. Road, Bombay 1.

Oriental Steel & Metals Co., Iron Market, Bombay 9. Dealers in Iron, Steel & Metals.

ORMERODS (INDIA) PRIVATE LTD., Bank of Baroda Building, Apollo Street, Fort. Post Box No. 410, Bombay. Codes used:—A.B.C. 5th and 6th Editions. Bentley's "Second" and Complete Phrase and Private. Tel. Address: "Ramshead," Bombay. Phone Nos. 255434/35 (2 lines).

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Overseas Trade & Agencies (India), Beaumon Chambers, 27/33, Medows Street, Fort, Bombay. Phone: 254942.

OXFORD UNIVERSITY PRESS, Publishers, Oxford House, Apollo Bunder, Bombay 1; Bharat Insurance Building, Mount Road, Madras; Mercantile Buildings, Lal Bazar, Calcutta and London, Amen House, Warwick Square, E.C.4.

Agents in India for:—George G. Harrap & Co., Ltd., The University Tutorial Press Ltd., American University Presses, Ginn & Co.'s *Beacon Readers.*

General Manager in India:—R. E. Hawkins, M.A. (Oxon).

Tel. Address: "Oxonian," Bombay, Madras and Calcutta.

Bombay Telephone: 213104, 213105. Post Box 31.

OXY-CHLORIDE FLOORING PRODUCTS LTD., THE, Manufacturers of "Elephant" & "Stonette" brands jointless flooring composition. Suppliers to Railways, Textile Mills and Ships. On the approved list of D.G.S. & D. and Railways since 30 years. Office:—Arthur Bunder, Colaba, Bombay 5. Phone No. 211571. Grams: "STONETTE."

P. L. Gupta & Co., Motor Body Building Material Merchants, 130 Bhendi Bazar, Bombay 3.

P. N. Joshi & Co., 141, Mahatma Gandhi Road, Fort, Bombay 1. Grams: "JOSHICO." Advertising Agents and Consultants.

P. Carlton & Co., Paper & Board Merchants. 26-A, Sir P. M. Road, Bombay 1.

P. Mohanlal & Co., 44, Nagdevi Cross Lane, Bombay 3. Phone: 30567. Grams: "EMERYCLOTH".

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Packers (India) Co., Packing Consultants and Packing Material Suppliers. Manufacturers' Representatives. 34-38, Hamam Street, Fort. Phone No. 252019. Tel. Address: "Packwell."

PACKING MATERIALS CORPORATION, Manufacturers of Bituminous Wax Products and Waterproof Packing Materials. 248, Samuel Street, Bombay 3. Phone: 22288. Grams: "SUNLIGHT."

Padamshi Meghji, Manufacturers & Exporters of Tarpaulin, Canvas, etc. 106, Narayan Dhuru Street, Bombay 3.

PALANPUR VEGETABLE PRODUCTS LIMITED, Forbes Building, Home Street, Fort, Bombay.

Manufacturers of:—Vanaspati and Allied Products.

Managing Agents:—Forbes Forbes Campbell & Co., Ltd., Forbes Building, Home Street, Fort, Bombay. *Factory:* Taleynagar, Dhuranhar Road, Palanpur (Gujerat).

Directors:—F. H. Kemple (*Ex-Officio*), M. N. Dalal, Esq., His Highness Iqbal Mohamed Khan, Capt. Ata Mohamed Khan, A. H. Bhiwandiwalla, Esq., M. A. Fazalbhoy, Esq., Chhotubhai H. Mehta, Esq., G. Khandwala, Esq.

Tel. Address: "Paveta" (Palanpur).
"YESTERMORN" (Bombay).

Phones: 268081 (Bombay); 34 (Palanpur).

Palekar & Co. Seed Merchants, Sitaram Building, Near Crawford Market, Bombay 1.

Pallonji & Co., M. Painting Contractors. 87, Abdul Rehman Street, Bombay 3.

PANALAL MOHANLAL & CO., 89, Nagdevi Street, Bombay 3. Phone No. 30211. Direct importers of pipes, fittings and valves of all sorts.

PANDIT & CO., 15, Forbes Street, Fort. Phone No. 251779. Grams: "SPECTATION."

Controlled Stockists of Pig Iron.

Managing Agents:
The Manmad Elec. Supply Co., Ltd.
The Igatpuri Elec. Supply Co.
Modern Shuttle Mfg. Co. Ltd.

PANDYAN INSURANCE COMPANY, LIMITED. (Fire, Marine, Misc.). *Head Office*—Madurai, South India. *Manager:*—S. Vinayakam. Bombay Branch Tel. Address: "Legresh." Phone No. 255088 (2 lines). Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. *Branch Manager:*—J. X. de Souza.

Paradise Tea Co. (Tea Merchants), Sambhava Chambers, Sir Phirozshah Mehta Road, Fort.

PARADISE TRADING CORPORATION
73/75 Tamarind Lane, Fort, Bombay 1
Importers & Stockists of V-Belts, V-Link Belts, V-Belt Pulleys, Leather/Rubber Beltings, Loom Sundries—Hardware—other Mill Gin Stores.
Trade Inquiries Invited
Phone: 252668. Grams: "Veedrives"

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PARAMOUNT DYES & CHEMICALS PRIVATE LTD. *Regd. Office :*—Elphinstone Building, Veer Nariman Road, Fort. Sole Distributors of Coal-Tar Dyestuffs, Intermediates, Synthetic Detergents, etc. of International Division, Allied Chemical Corporation. Phone: 252535. Grams: "Paramount."

Paramount Engineering Co., Electrical Engineers and Contractors, Fort Chambers, Hamam Street, Fort, Bombay. Phone No. 251964. Tel. Address: "Sharu."

Paramount Films of India Ltd., Hague Building, Ballard Estate, Bombay.

Paramount Hardware Mart, Iron & Steel Merchants, Authorised Stockists of Tata Agrico Tools. Carnac Bunder, Bombay 9. Phone No. 22932. Grams: "PARAMART", Bombay.

Paramount Industrial Stores, Importers, Exporters & Machinery Merchants, 15, Ropewalk Street, Fort, Bombay 1. (Also see in Machinery Section.)

Paramount Textile Agency, 45/47, Apollo Street, Fort, Bombay.

Parekh Brothers Private Ltd., 65, Mahatma Gandhi Road, Bombay 1. Consulting Chemical Engineers and fabricators of Chemical Plants & Equipments.

Parekh Trading Co., Engineering Stores, Tools & Hardware, Mill Gin Store Merchants. 48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY".

PARKE, DAVIS (INDIA) PRIVATE LIMITED, Pharmaceutical Manufacturers, Saki Naka, Bombay 70. Head Office for India and Ceylon.

Telegraphic Address:—"CASCARA," Bombay 1. Post Box No. 88. Phone No. 67511.

Factory: Saki Naka, Bombay 70. Phone No. 67511.

PARLE PRODUCTS MFG. CO. PRIVATE LTD., Manufacturers of Biscuits & Confectionery, Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams: "VIHARI". *Factory:* Vile Parle, Bombay 24. Phone: 86403.

PARRY & CO. LTD., *Head Office:* Dare House, Madras 1.

Branches:—Bombay, Calcutta, Delhi, Bangalore, Cochin, Cuddalore, Ootacamund, Secunderabad, Vizagapatam, and other sub-Branches.

Bombay Office.—"United India Building", Sir Phirozshah Mehta Road, P.O. Box 506, Fort, Bombay 1. Phone Nos. 253951-2-3-4. Telegraphic Address: "DIESEL."

London Associates.—Messrs. Parry, Murray & Co. Ltd., 13, St. James's Square, London, S.W. 1.

Managing Agents.—The Deccan Sugar & Abkhari Co. Ltd., Madras.

Factories at Pugular and Samalkot.

Parrys Confectionery Ltd., Madras.

Factory at Nellikuppam, South India.

Associated Companies.—East India Distilleries & Sugar Factories Ltd., Madras. Factories at Nellikuppam and Ranipet, South India.

Hawker Siddeley Brush International Ltd., London.

W. J. Bush Products Private Ltd., Madras, Factory at Nellikuppam, South India.

The Mofussil Warehouse & Trading Co., Private Ltd., Madras.

Secretaries and/or Treasurers.—The Travancore Sugars and Chemicals Ltd., Tiruvalla, Travancore.

Factory at Pamba River, Tiruvalla, Travancore.

Cauvery Sugars & Chemicals Ltd., Madras. Factory at Pettaivaytalai, South India.

Andhra Fertilisers Private Ltd.

ENGINEERING:

All-India Agents.—Andrew Barclay Sons & Co. Ltd., Kilmarnock, Scotland. Manufacturers of Locomotives of all types.

Hawker Siddeley Brush International Ltd., London, Mirrless, Petter, Petter Fielding & McLaren Oil Engines.

Ceretti E Tanfani, S.p.A., Milano, Italy. Aerial Ropeways, Cableways, Heavy Duty Cranes, Mechanical Handling Plant.

Chain Belt Company, Milwaukee. Manufacturers of every description of Chains, chain belts and Conveyors.

Eternit S.p.A. Genoa, Italy. Manufacturers of Asbestos Cement Pressure Pipes.

Henry Simon, Ltd., Flour Milling Machinery.

Kirloskar Electric Co. Ltd., Bangalore, Manufacturers of Electric Motors, Transformers.

Kirloskar Oil Engines Ltd., Kirkee (Limited North Indian Franchise). Manufacturers of Diesel Engines.

Railway Mine & Plantation Equipment Ltd., London. Diesel & Steam Locomotives, Tipping Wagons, Rails, Points & Crossings and General Light and Main Railway Equipment.

Ransomes & Rapier Ltd., Ipswich, London. (Except South India). Mobile Cranes, Shop Truck Cranes, Excavators, Walking Draglines, Concrete Mixers, Fork Lift Trucks, Water Control Gates, Wharf Winches.

L. Sterne & Co., Ltd. Glasgow. Manufacturers of Refrigerating Plants, Ammonia Condensers, Water Cooling & Brine Cooling Plants and Ice making Plants of all sizes and for all purposes.

Midland Silicones Ltd., London. Manufacturers of Silicone Fluids, Greases, Release Agents, Insulation material, etc.

K. G. Khosla & Co., Private Ltd., New Delhi, Compressor Sets & Garage equipment.

CHEMICALS & FERTILISERS:

The Anglo-French Minerals Co. Ltd., London. Rock Phosphate.

International Minerals and Chemicals S.A., San Juan, Puerto Rico. Phosphate.

Jordan Phosphate Mines Co. S.A., Amman. Phosphate.

Ruhr-Stickstoff A.G., Bochum. Nitrogenous Fertilisers.

Safaga Phosphate Co., Ltd., S.A.E., Egypt.

PHARMACEUTICALS:

Dragerwerk Heinr. & Bernh. Drager, Lubeck. Anaesthesia Apparatus, etc.

Madras Govt. Quinine Factory, Naduvattam, Quinine Products (S. and W. India only).

GENERAL SALES: *All-India Agents:*

The Britannia Biscuit Co., Ltd., Bombay.

Nicholas of India Ltd., Bombay. "ASPRO".

GENERAL SALES: *Limited Franchise:*

Horlicks Ltd., Slough, England (except E. India).

Horlicks Private Ltd., Sydney, Australia.

Hindustan Milkfood Manufacturers (Private) Ltd., Nabha.

W. J. Bush & Co. Ltd., London, and W. J. Bush Products Private Ltd., Madras (except North & Eastern India). Manufacturers of Essences, Essential Oils, Chemicals and Perfumeries.

Corn Products Co. (India) Private Ltd., Bombay. Manufacturers of Glucose, Squashes, etc.

MANUFACTURERS of Sugar, Confectionery, Acids, Chemicals, Spirits, Liquors, Ceramics, Fertilisers, Tipping Wagons, Light Railway Equipment and Accessories.

PARSI DAIRY FARM
H.O. 261-63, Princess Street, Bombay 2.
Branches:—(1) Lal Baug, (2) Poibavdi, (3) Dadar.
Dealers: Milk, Dairy Products and Indian Sweetmeats Manufacturers.
Tel. No. 23634.

Parth & Co., S. (Estd 1923). Art Printers & Specialists in folding Boxes & Embossed Labels for perfumery, medicines. Aniline Dyes & Textile Trades. 7, Chandra Mahal, Girgaum, Bombay 2.

PATEL BROS., Cotton Brokers and Machinery Importers, 6, Veer Nariman Road, Fort.

Partners.—Sohrab P. Patel; Jehangir P. Patel and Shavaksha P. Patel. Telegraphic Address: "Patelbros." Phone Nos. 25-1236 (4 lines). Post Box No. 399, Bombay.

Patel Bros. & Co., Mill Gin Store and Pipe fittings merchants. 41, Nagdevi Cross Lane, Bombay 3. Phone: 20606. Grams: "HASTY."

PATEL & CO., B.C., Direct Importers of Essential Oils and Aromatic Chemicals, Perfumery Compounds, Food Colours, Soap Colours, Hair Oil Colours, etc. No. 1, Devkaran Mansion, 79, Princess Street, Bombay 2. Grams: "Snehalata." Phone: 20366. *Branch:* Gandhi Bldg., 44/45, Ezra Street, Calcutta.

Agents for: H. Roab & Co., Holland (Aromatic Chemicals).

Dragoco (W. Germany) (Essential oils and Aromatic Chemicals).

P. Robert & Cie, Grasse, France (Essential oils).

Patel & Sons, Dr. K., 249, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Dealers in Dental Goods, Portable Pumping and Generating Sets and their Spare Parts. Phone No. 263762.

PATEL COTTON COMPANY PRIVATE LTD., 6, Veer Nariman Road, Fort. Cotton Exporters, Importers, Merchants and Commission Agents.

Managing Director: Jehangir P. Patel.

Directors: Sorabji P. Patel, Shavakshaw P. Patel. *Secretary:* R. D. Ghadiali.

Tel. Address:—"Patelcotco."

Phone: 25-1236 (4 Lines).

Post Box No. 399, Bombay 1.

Patel Engineering Co., Ltd., United India Bldg., Sir Pherozshah Mehta Road, Bombay 1. Phone: 28304.

PATEL INDIA PRIVATE LTD., Largest Distributors for well known Photographic & Cinematographic Goods for India. Head Office: 190, Dr. Dadabhoy Naoroji Road, Fort. Telegrams: "PATELIND", (for all offices). Phone Nos. 263683-263684. *Factory:* 68, Tardeo Road, Bombay 7. Phone: 75241. *Branches at:* Calcutta, New Delhi and Madras.

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Patell, P. R. & Co. Private Ltd., Union Co-operative Insurance Society Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Import and Export Merchants. *Managing Director:* Sorab Patell. Representatives in England, U.S.A., Japan and Continent. Phone No. 253393. Residence Phone: 212216. Tel. Address: "SOLRUSS", Bombay.

Patruni Sons & Co., Silk, Artificial Silk & Cotton Yarns. 69, Nakhoda Street, Bombay 3.

Patson (India) Corporation, Optical, Dental, Cine and Novelties, 2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay.

Paulsom Plant Cellulose Works, 25, Union Park, Chembur, Bombay 71. Phone: 67241. Grams: "EMBOSSED."

Pavri Sons & Co., Export-Import Merchants, P.O. Box No. 463. 93/97, Bazargate Street, Fort, Bombay.

PAVRI & SONS, FRAMROZ HORMUSJI, Pavri House, 20, Gunbow Street, Fort, Bombay. Phones: 264158 & 262539. Government and Municipal Contractors, Shamianas, Mandap, Stands, Exhibitions, Electric Light & Fans, Suppliers on hire of Glassware, Furniture, Crockery and Decorations of all sorts.

Payne & Co., Solicitors and Notaries Public. Esplanade House, Waudby Road, Fort. Telephone Nos. 26-2284 and 26-2285. Telegraphic Address:—"Paynes," Bombay.

K. K. Lala, B.A., LL.B.
S. N. Vakil, B.A., LL.B.
C. R. Jussawalla, M.A., LL.B.
D. P. Mehta, B.A., LL.B.
E. A. Dastur, B.A., LL.B.

Assistant Solicitors—

N. A. Vesuvala, B.A., LL.B.
Mrs. Z. N. Gamadia, B.A., LL.B.
E. J. Balsara, LL.B.
K. D. Mehta, B.A., LL.B.

Pearl Assurance Co., Ltd., Chief Offices: High Holborn, London, W.C. 1. Bombay Office: Construction House, Nicol Road, Ballard Estate. Phone No. 261642.

Pearl Glass Manufacturing Co., Patel Estate, Goregaon East, Bombay. Phone: 84363. Manufacturers of all kinds of bottles and glassware. *Office:* 44, Cawasji Patel Street, Post Box No. 1627, Fort, Bombay. Phone Nos. 253772 & 253082. Grams: "Ashwinco." Process Works: 51, Bhandari Street, Near Round Temple, Bombay 4. Depot: 108, Ardeshir Dady Street, Near C. P. Tank, Bombay 4. Phone: 73741. Workshop: 8A, Dhobi Wadi, Sett M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone: 29827.

PEARL METAL WORKS, Manufacturers of "PEARL" Brand Stainless Steel Utensils. 20, Wadi Bunder Road, Mazgaon, Bombay 10. Phone: 73880. Grams: "PEARLWORKS". *Factory:* No. 2, 771, Moghul Lane, Mahim, Bombay 16.

Pearl Pesticides, Household & Agricultural Insecticides Mfrs. Sambava Chambers. Sir P. M. Road, Bombay 1.

Pearl Publications Private Ltd., Book Publishers. Eruchshaw Bldg., Dr. D. N. Road, Bombay 1.

Pearline Paris Private Ltd., Manufacturers of Hair & Beauty Specialities, Rahman Building, 24, Veer Nariman Road, Bombay 1. Tel. Address: "Pearlab."

Peerbhoy, E. & Sons, 64, Mohamedali Road, Bombay 3.

Phone: 252080
Grams: "PESTCIL".
PEST CONTROL (India) PRIVATE LTD.
CONSULTING ENTOMOLOGISTS TERMITE CONTROL, DISINFESTATION & FUMIGATION SERVICE.
Address:
36, Yusuf Building, Mahatma Gandhi Road, Fort, Bombay 1.
Managing Director:
N. B. SHANKER RAO, F.R.E.S.
Member:
NATIONAL PEST CONTROL ASSOCIATION, U.S.A.
ENTOMOLOGICAL SOCIETY OF INDIA.

PETROLEUM AND MINERALS PRIVATE LTD., Head Office: Rahimtoola House, Homji Street, Fort. Burmah-Shell Kerosene Agents. *Chairman:* A. A. Jasdenvala; *Managing Directors:* Panachand M. Vora and Panachand H. Shah.

Telephone Connections:—
Head Office: 251144.
Sales Office: 72599.

PFIZER
PRIVATE LIMITED
Manufacturers and Distributors of a complete range of pharmaceuticals (Pfizer and Dumex brands)
Office:
ICICI Building,
163, Backbay Reclamation,
BOMBAY 1
(Phone: **246031-40**)
Factory:
Powder Works Bunder,
Darukhana, BOMBAY 10
(Phone: **76141-2**)
Basic Manufacturing Plant:
178, Industrial Area,
CHANDIGARH (Punjab)
(Phone: **1031**)

Phaltan Sugar Works Ltd., Manufacturers of Sugar, Sangli Bank Bldg., 4th Floor, 296, Bazargate Street, Bombay 1. Phone: 253339. Grams: "RISINGSUN." *Board of Directors:* L. V. Apte, *Chairman*, Kantilal Nahalachand, Arvind N. Mafatlal, M. L. Apte, Rasesh N. Mafatlal, Himatlal Kantilal, R. B. Apte, Natverlal Bhikhabhai.

Pharmax Private Ltd., Manufacturers, Distributors & Importers of Pharmaceutical Products. Pharmax House, Chembur, Bombay 71.

Pharmed Private Ltd., Manufacturers and Distributors of Biologicals & Pharmaceuticals. 'Pharmed House', 141, Fort Street, Fort, Bombay. Phone: 261141. Grams: "Pharmed."

Phillips & Co., Chemists, Waterloo Mansions, Mayo Road, Fort.

PIONEER EQUIPMENT CO. PRIVATE LTD.
H.O: 139, Medows Street, P. O. Box 1909, Bombay-1
Phone: 251882
Also at:
3, Esplanade East, Calcutta-1
Phone: 231611
L. I. C. Bldg., Parliament Street, New Delhi 1
Phone: 46241
and
193, Mount Road, Madras-2
Phone: 86615
Grams: "PIOMETAL"
SALES PLUS SERVICE
Leading suppliers to the industry of
INDUSTRIAL EQUIPMENT & SCIENTIFIC INSTRUMENTS
Specialists in:
Ore Dressing, Metallurgical, Foundry, Testing, Analytical and Chemical Equipment.
★
Manufacturers of:
Cupolas • Sklenar Furnaces Ladles • Sand Mixers & Mullers Sand Aerators • Sand Riddles Vibrating Screens • Moulding Boxes • Hand Moulding Machines Knock-outs • Tumbling Barrels Grinders, etc. also "PMC" Fluxes (under "HARMARK" Licence)
Importers & Dealers of
Foundry & Metallurgical Equipment & Instruments
* * *
(Details under various entries)

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PHIPSON & CO. LTD., No. 1, Bakehouse Cross Lane. Telegrams: "Phipson," Bombay. Tel. Nos. 253996 & 253997. *Branch Manager:* D. Miranda. *Head Office:* Calcutta. Branches in India—Delhi, Madras, Cochin, Visakhapatnam and Bangalore.

Pakistan Subsidiary Company—Phipson & Co. (Pakistan) Ltd., Wallace Road, Karachi 2. Branches in Pakistan—Lahore, Rawalpindi and Chittagong.

London Correspondents— Macgregor. Caldbeck & Co., Ltd., 3, Lloyds Avenue, London, E.C. 3.

PHIROZ N. MOTABHOY & CO. PRIVATE LTD. Textile Stores Specialities. Sole Selling Agents for Swastik Bobbin's Mfg. Co. Private Ltd., Hyderabad. Motabhoy Building, Corner of Medows and Forbes Street, Fort, Bombay. Phone No. 255717. Tel. Address: "Eelog", Bombay.

Phoenix Watch Co., Watches & Clocks Merchants. 169, Dr. D.N. Road, Bombay 1.

PHOTO CINE SOUND PRIVATE LTD., Importers of Scientific, Survey & Audio-Visual Educational Equipment. 12, Rampart Row, Fort, Bombay 1. Phone: 252658. Grams: "PHOTOCINE".

Photo-Masters, Commercial Photographers. 23, Hamam Street, Bombay 1.

Grams: "COWSIE" { Bombay & Ahmedabad

PICKERS LIMITED

Manufacturers of Quality Pickers of all Sizes & Descriptions for the Textile Industries.

Head Office:
Ellis Bridge, Ahmedabad 6.
Phones { Office : 7205
Works : 2755
Branch: 43, Tamarind Lane, 4th Floor, Fort, Bombay. Phone: 25-3707.

Pickfair Pictures Corporation, Motion Pictures Distributors, Dealers in Cinema Equipment and Accessories, Bombay Mutual Annexe, Gunbow Street, Fort, Bombay.

Pioneer Chemical Co., Chemical Manufacturers, 158, Tulsi Pipe Road, Bombay 19.

Pioneer Consolidated Company of India, Ltd., Manufacturers' Representatives, Insurance, Shipping, Clearing & Forwarding Agents, Importers and Exporters. Head Office: 5, Scindia House, New Delhi; 11-13, Horniman Circle, Fort, Bombay 1. Phone: 253320.

Pioneer Electric Industries, Electrical Appliances Mfrs. Court House, Dhobitalao, Bombay 2.

Pioneer Enamelling Works, for Enamel Signboards and Enamelwares, 24, Laxmi Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Pioneer Engineering Co., Electrical and Mechanical Engineers and Machinery Manufacturers, 57, Apollo Street, Fort, Bombay. Phone: 34907. Grams: "Primemover."

PIONEER MAGNESIA WORKS LTD. OF BOMBAY & KHARAGHODA, Manufacturers of Magnesium and Calcium Chloride, Magnesium Sulphate (Epsom Salt), Magnesium Carbonate, 85 per cent Magnesia Potash Fertilisers, Paints, Colours, Anti-incrustative Boiler Compound, Cleansing Compounds.

Founder:—B. S. Lalkaka, B.A.

Director and Secretary:—F. R. Moos, B.A., A.C.A., D.Com., I.M.C., A.C.I.S. (Lond.).

Regd. and Head Sales Offices: 113/115, Mahatma Gandhi Road, 2nd Floor, opp. Rajabai Tower, Fort, Bombay 1.

Telegrams:—"Magnesia". Phone No. 252848.

Pioneer PHARMACY

1st Marine St., near Metro Cinema. 'Phone: 22129.

Pioneer Sports India Private Ltd., Sports Goods Dealers, Dhobi Talao, Bombay 2. Phone: 39287. Grams: 'Sportsman.'

Pioneer Trading Co., Chemicals & Dyestuffs Merchants, 210 Samuel Street, Bombay 3.

Pitamber & Co., Scindia House, Ballard Estate. Freight and Chartering Brokers. Phone: 261066. Grams: "Sagarnur".

Pitamber Laljee & Sons. Freight Brokers, Bharat House, Apollo Street, Bombay 1.

Pitamberdas Lallubhai & Co., Non-Ferrous, Metalwares Mfrs., 86, Kansara Chawl, Kalbadevi Road, Bombay 2. Phone: Office: 20916. Grams: "KATORIWALA".

Pitamberdas Mohanlal & Sons, Precious Stones & Gems Merchants. 4, Mandlik Road, Bombay 1.

PLASTIC & INDUSTRIAL CORP. PRIVATE LTD., Amar Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Manufacturers of Rotaflex Lighting Fittings, Kaycee Lamp Shades, Jaxflex Polyethylene Hose and PVC Tubing & PIC Household Ware. Also Custom Moulders to the leading manufacturers in the Country. Grams: "PICPLAST." Phones: 253263, 251027 and 62759.

PLASTICABLES PRIVATE LTD., THE, Manufacturers of "VINOLITE" Brand P.V.C. Insulated Wire and Cables, Auto-Cables, P.V.C. Insulation Tape, P.V.C. Slewings and Tubings and all types of P.V.C. Extruded Products. Lentin Chambers, Dalal Street, Fort, Bombay. Grams: "POLYMER." Phone: 254893.

Plastichemicals Co., 73/75, Tamarind Lane, Fort, Bombay 1.

PLUCK & CO. (Estd. 1902)

Sales Office: 415, Commerce House, Medows Street, Bombay 1.

Badges, Advertising Gifts like Key Chains, Paper Weights, Paper Cutters, Table Calendars, everything in soft plastics like Wallets, Memo Pads, Files, Diaries etc.

Phone: 251131 — Grams: "INTERSEAS".

Plummer Bros. & Co., Importers & Manufacturers' Representatives, 107, Mahatma Gandhi Road, Fort, Bombay. Phone No. 20877.

Pochee, C. S., & Son (Estd. 1884). Manufacturers of Pochee Incandescent Lanterns, Mantles, etc., 586, Chira Bazar, Girgaum Road, Bombay 2.

Podar Mills Ltd., Podar Chambers, Parsi Bazar Street, Fort. Mills at DeLisle Road. Grams: "Podargirni."

Polish Ocean Lines, Bharat Insurance Building, 15/A, Horniman Circle, P.O. Box No. 559, Bombay 1. *Head Office:* 24, 10, Lutego, Gdynia, Poland. *London Office:* Gdynia-America Shipping Lines (London) Ltd., Branches & Agencies throughout the World. Phone Nos. 255605 & 255606. Grams: "Pollines," Bombay.

Pollack & Co., F. W., Essential Oils, Industrial Fine, Aromatic & Pharmaceutical Chemicals, 11, Oak Lane, Fort, Bombay.

PODAR GROUP OF CONCERNS

Central Office: Podar Chambers, Parsi Bazar Street, Fort, Bombay.

All Codes used.

Phone: 259261 (8 lines).

The group operates principally through the Central Concern, Podar Sons Private Ltd.; has large scale interests throughout India in Cotton Trade (Podar Trading Co. Private Ltd.), Cotton Textiles (Podar Mills Ltd., and Jaipur Spg. & Wvg. Mills Ltd.), Silk & Art Silk Fabrics (Shree Shakti Mills Ltd., and Sassoon & Alliance Silk Mill Co., Ltd.), Manufacture of Plastic Goods (Podar Plastics Private Ltd.), as also in the import and export trade generally.

Polson Limited, 65B, Dockyard Road, Mazagaon, P.O. Box No. 367, Bombay 1. *Branches:* Calcutta and Madras. *Managing Agents:* Polson Agencies Private Ltd. Butter & Casein Factory: Polson Model Dairy, Anand and Patna, Coffee Factory: Mazgaon, Bombay. Gift and Local Sales Bureau: No. 237, Frere Road, opp. G.P.O., Bombay. London Agents: Levetus Ltd. Grams: "Polson."

POLYCHEM LIMITED, Manufacturers of polystyrene plastic moulding material. 45-47, Apollo Street, Fort, Bombay. Phones: 254259 & 251301. Grams: "POLYCHEMIC".

Board of Directors: Ramdas Kilachand (Chairman), K. M. D. Thackersey, Gulabchand Hirachand, Ramniwas Ramnarain Ruia, Ambalal Kilachand, B. K. Daphtary, Ratilal K. Shah, E. H. Huggins and C. B. Branch.

Polymer Corporation, Manufacturers & Printers of 'HIPACK' brand Polyethylene Bags and Liners, Tubular Film & Sheeting. The only manufacturers of Treated Polythene Film. 70, Kansara Chawl, Kalbadevi Road, Bombay 2. Phones: Office: 76457 & Factory: 84131. Grams: "WALKAL."

POONAGER BILIMORIA & CO., Architects, Civil Engineers, Surveyors, Appraisers, Adjusters for Insurance Coys. and Rating Surveyors & Valuers, Cama Bldg., 24-26, Dalal Street, Fort. Phone Nos.: 253625 (Office) & (Res.), 76562 (Shri Poonager) and 70896 (Shri Bilimoria).

Poonjiajee, J. M., Jehangir, J. P., (Prop.: Fruit Farm Products Co.). Manufacturers & Exporters of Fruit Squashes, Syrups, Jams, Jellies, Marmalades, Spices, Pickles, Curry Powder, Fresh Fruits & Vegetables, Fresh & Frozen Fish & Meat. Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 262120.

POONJIAJI, M. M., & CO., 40/42, First Marine Street, Bombay 2. Manufacturers & Exporters of "SHIP BRAND" "GEEN LABLE" Indian condiments, Mango Chutneys, Mango Pickles, Madras Curry Powder and Sugar Cane Vinegar. Telegraphic Address: "Preserve." Codes used: Bentley's 6th and Private. Telephone Nos. 22412, (Res.) 241846.

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Popular Electric & General Stores, Wholesale and Retail Dealers in Everything Electrical, 414, Hararwalla Building, Golpitha Corner, Bombay 4.

Popular Pharmacy (Regd.), Dispensing Chemists, Dhun Building, 310, Lamington Road, Grant Road, Bombay No. 7. Phone No. 71884.

Popular (Imp-Exp) Trading Co., Importers and Exporters. Javeri House, 110, Medows Street, Fort, Bombay. Phone: 255701. Grams: "MAXSPIN". Sole importers for products manufactured by: Oerlikon Machine Tool Works, Zurich, Switzerland. Reiners & Furst, M. Gladbach, Germany. Ellerwerke Maschinenfabrik, Hamburg, Germany, Rheydter Maschinen & Spindelfabrik (Rhld.), Germany. (For further particulars see Bombay Agents for Overseas Firms Section).

POWER-GAS CORPORATION LTD., THE (*Incorporated in U.K. with limited liability*).

Head Office: England.

Designers, Manufacturers & Engineers to Gas, Chemical, Petroleum, Oils & Fats, Iron & Steel Industries.

Bombay Office: Meher Chambers, Nicol Road, Ballard Estate, P.O. Box 1331, Bombay 1. Phone: 261481. Grams: "TETRATOMIC."

Associated Companies: P. G. Engineering Ltd., Ashmore, Benson, Pease & Company Ltd., Rose, Downs & Thompson Ltd.

Powercrafters, Engineers, 31, Queen's Road, Bombay 4.

POWERS SAMAS ACCOUNTING MACHINES (Sales) LTD., See International Computers & Tabulators (India) Private Ltd.

POYSHA INDUSTRIAL CO., PRIVATE LTD., Manufacturers of Open Top Cans for Processed Foodstuffs, Lithographed and Plain Tin Containers, Crown Corks, Closures etc. Messent Road, Sewri, Bombay 15. Phone: 72863. Grams: "SANCANS." *Branch Factories:* New Delhi & Baroda.

Prabha, & Co., V., Printers, Stationers, Book-binders & Die-Sinkers, 476, Sandhurst Road, Bombay 4.

PRABHAT ELECTRIC EQUIPMENT CORPN., Noble Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 254594.

PRABHAT ELECTRONIC, Noble Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 254594.

Prabhat Products Co. Private Ltd., Manufacturers of Gas Mantles, Lanterns and Accessories, Noble Chambers, Parsee Bazar Street, Fort, Bombay.

PRABHULAL L. PANDYA & CO., Salt Freight and Chartering Brokers, Steamships Agents and Stevedores. 26, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 251794. Grams: "Prapandya." Branches: Okha, Jamnagar, Bhavnagar, Veraval, Porbunder, Navalakhi and Kandla.

Pradeep & Co., Auto Nuts & Bolts Merchants. Kothari Mansion, Parekh Street, Bombay 4.

Praffullchandra & Co., Engineering Tools Merchants, Hararwala Bldg., Lohar Street, Bombay 2.

Pramashaw Motor Co., 420, Lamington Road, Bombay 4.

Prahladrai Dalmia & Sons. Paper & Board Merchants, 51, Podar Chambers, Bombay 1.

Pravin & Co., Engineers & Machinery Merchants. Agents for "ASHOK" Drillings, Hacksaws, Dogchucks, Grinders, Shapers & "IEC" Grade I Lathes and Shapers. "RIBCO" truechucks; 85/92, Nagdevi St., Bombay 3; Grams: "POWERPIECE". Phone: 39718.

PRAVIN BROTHERS & CO., Chemicals Importers & Stockists, Commerce House, Medows Street, Bombay 1. (Also see under Chemical Importers & Stockists Section). Importers & Stockists of Chemicals, Sulphur, Solvents, Jute & Products, Limestone & Lime, Pharmaceuticals & Laboratory Chemicals, Fertilizers and Essential Oils, etc.

Precious Electric Co., Yusuf Building, Churchgate Street, Fort. Distributors of Philips Lamps and Radios.

Premchand Iron & Steel Works, Kasturchand Mills Compound, Dadar, Bombay 28.

Premier Aerated Waters Private Ltd., Mfgs. Aerated Waters. Lamington Road North, Bombay 8. Phone: 74282. Grams: "BURGUL".

Premier Art Printing Works, Fine Art Printers and Label Manufacturers. 17-B, Cawasji Patel Street, Fort, Bombay.

Premier Automobiles Ltd., The, *Head Office:* Construction House, Ballard Estate, Bombay 1. Phone: 26-1956.

Premier Chromate & Chemical Works Ltd., 402, Cadell Road, Prabhadevi, Bombay 28. Phone No. 61019. Tel. Address: "Chromchem."

PREMIER CONSTRUCTION CO., LTD., THE, Registered Office: Construction House, Ballard Estate, Bombay 1. Phone: 265471 (5 lines). *Managing Agents:* Walchand & Co. Private Ltd. Constructional Engineers and Contractors. *Allied Companies:* The Hindustan Construction Co., Ltd., The Indian Hume Pipe Co., Ltd., The Acme Manufacturing Co., Ltd.

Premier Electric Co., Ltd., Electrical Goods (Stockists and Dealers), Mehta House, Apollo Street, Fort.

Premier Furnishing & Decorating Private Ltd., Manufacturers & Suppliers of all kinds of Furniture and Stockists of "Dunlopillo" Products. 7, Brabourne Stadium, Churchgate Street Extension, Fort. Phone: 245632.

Premier Glass Traders, Importers of all kinds of Glass, Frames, Plywood, Mounts, Glaziers' Diamonds, etc., 76/78, Dhanji Street, Bombay 3. Grams: "Reason." Phones: 23845 (Office) and 71837 (Res.).

Premier Machine Stores Co., Dealers in Files, Engineering Tools & Machinery, 66, Nagdevi Street.

PREMIER OFFSET WORKS, Offset Photo Lithographers and Colour Printers, Swadeshi Mill Property, Roxy Cinema Compound, Bombay 4.

Grams: "RUBERGOODS."
Bombay Mandvi.
Phone: 38551.

PREMIER RUBBER & CABLE INDUSTRIES

Jamal Building, 211, Nagdevi Street, Bombay 3.

Manufacturers of Quality Rubber Goods such as 'PREMIER' Cycle and Rickshaw Tyres and 'PREMEX' Tubes, Rubber Hose Pipes (Delivery and Suction), Petrol and Oil resisting Hose Pipes, Rubberised Texture Cloth, Rubber Beltings, Moulded and Extruded Articles.

Premier Traders, Agents for Dyer Meakin Breweries Ltd., 95 Netaji Subash Road, Bombay 2.

Premier Typewriter Co., 235, Dr. Dadabhoy Naoroji Road, above Kemp & Co., Fort. Dealers in Typewriters. Phone No. 261737.

PREMIER WIRE PRODUCTS PRIVATE LTD., Manufacturers of Snap Fasteners & Bifurcated Rivets. Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phones: 253502 (Office) & 40634 (Res.). Grams: "VIRVANDAN". Factory: 250/D, Worli, Udyog Bhavan, Bombay 18.

Premji Haridas & Co. (Estd. 1911). Bhanushali Chambers, 166-170, Argyle Road, Bombay 9.

Premshi Umershi, Iron-Steel Merchants, Iron Market, Carnac Bridge, Bombay 9.

Press Process Studio, for Designs, Blocks, Slides, Stereos, etc. Victoria Mills, 2nd Floor, Gamdevi, Bombay 7.

Press Trust of India Limited (News Agency), Petit Building, 357, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams: "Presstrust," Bombay. Phone: 252371.

Primera Corporation, Importers, Exporters and Manufacturers' Representatives, 10, Bruce Street, Bombay 1.

PRINCE, H. I., & SON, 9, Lily Court, Churchgate Reclamation, Bombay. *Sole Proprietor:* H. I. Prince; *Sole Agents:* "Brunsviga" Adding and Calculating Machines and "Luxacopy" Photocopying machines.

Printing Materials Store. Sole Distributors: Mander Bros., Printing Inks. 89, Princess Street, Bombay.

PRITCHETT & GOLD BATTERIES (EASTERN) LTD. (Incorporated in England). Manufacturers of Accumulators of all Types. Post Box No. 1774, Bombay 1; Phone Nos. 255756 & 255757. *Head Office:* Dagenham Dock, Essex, England; *Treasurers & Accountants:* Heatly & Gresham Ltd.

Managing Director: Niren N. Ghose, D.F.H. (Lond.), A.M.I.E.E.

Sales Engineer: R. R. Karandikar.

Asstt. Sales Engineer: J. J. Dadachanji.

Personal Assistant to Managing Director: Miss M. V. de Lima.

Produce Dealers Private Limited, Currimji Building, 111, Mahatma Gandhi Road, Fort, Bombay. Phone: 259241. Grams: "Peanut." Exporters of Oil Seeds, Essential Oil Seeds, Oils, Spices, Crude Drugs, etc.

Progressive Corporation Private Ltd., Publishers, Publishers' Agents and Booksellers, 51, Mahatma Gandhi Road.

PROGRESSIVE TRADING CO.

Importers, Indentors & Exporters of Dyes, Chemicals, Drugs & Medicines, Essential Oils, Aromatic Chemicals, Papers & Boards. Cycles & Accessories, Spices & Kirana, Cloth, Oil & Oil Seeds, Etc., Etc.

Bankers: Devkaran Nanji Banking Co., Ltd., Bombay 2, Bank of Baroda Ltd., Bombay 1.

Address: 50, Essaji Street, Bombay 3.

Phone: 34164. Grams: "COTRADEPRO."

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PROTOS ENGINEERING CO. PRIVATE LTD., 173, Jamshedji Tata Road, Churchgate, Bombay *Telegrams:* "PROTODYN." Phone: 246040, 246047-8-9. Engineers and Manufacturers. Electrical & Mechanical Engineers.

Head Office: P.O. Box 1642, Bombay 1.

Branches: Delhi, Calcutta, Madras.

Managing Directors: Mr. F. K. Heller; Mr. H. Scharbau.

Directors: Mr. G. Wilhelm; Mr. H. N. Kapadia and Mr. S. N. Mozumdar.

Hydro-power plants, Steam power plants Irrigation Plants, Ship Building, Complete heavy Industrial Plants, Excavators, Mineral Dressing Plants, Cable Plants, Cranes, Mixers for Chemical and Allied Industries, Boilers, Sugar Factory Machinery, Diesel Engines, Generating sets, Pumping sets, Air conditioning Plants, Locomotives, Tiles & Bricks making Machinery, harbour equipments.

Provincial Insurance Company Limited (Fire). Gresham Assurance House, Sir Phirozshah Mehta Road, Fort.

Provincial Motor Car Co., Ltd., New Queen's Road, opp. Opera House, Bombay 4.

Publicity Society of India Ltd., Advertising Media Representatives. People's Building, Sir Phirozshah Mehta Road, Fort, Bombay. **Post Box No. 296, Bombay.**

Pundole Watch Co., 263, Dr. Dadabhoy Nowroji Road, opp. "Lloyds Bank," Fort. Dealers in Watches, Clocks, Timepieces and Jewellery.

PUNEGAR, N. E., & CO., Boiler, Economiser, Steam Plant solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone No. 253178. Telegrams: "ACMECOMPO", Bombay.

Punga Trading Syndicate, Manufacturers, Exporters, Woollen Carpets, Hardware, 2, Prospect Chambers, Hornby Road, Fort.

Punjab Metals, Stainless Steel Utensil Mfrs., 20, Wadi Bunder Road, Bombay 10.

Purbhoodas, D. S., & Co., Share, Stock, Exchange & Finance Brokers, Stock Exchange New Building, Apollo Street, Fort.

PURE DRINKS PRIVATE LTD., Worli Naka, Bombay 18. Phone: 74218; Grams: "PUREDRINKS"; Authorised bottlers of Coca-Cola & Manufacturers of Soda Special & Orange Special. General Manager: S. Charles Singh.

Pure Products & Madhu Canning Ltd., Fruit, Vegetable & Fish Canners. Worli, Bombay 18.

Purshotam Mathradas & Co., Ltd., Manufacturers of Myrobalans Extract, 3, Mherwan Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Purshotamdas Madhavani & Co. Private Ltd., Stevedores, Clearing and Forwarding Agents, Botawalla Building, 8, Horniman Circle, Fort. Phones: 251687, 253159, 264558. Tel. Address: "Stevedore."

Purshotamdass Popatlal & Co., Importers, Exporters, Yarn Merchants & Chemicals, Shreenivas House, Outram Road, Fort.

Pyarally Gulamhusein & Co., 103, Tantanpura Street, Khoja Moholla, Bombay 9.

Queensland Insurance Co., Ltd., Contractor Bldg., Nicol Road, Ballard Estate.

R. C. EDWARDS & CO., PRIVATE LTD., 16, Arthur Bunder Road, Colaba, Bombay 5. Phone: 212032. Grams: "Eddicom." Sole Importers of Argo Taximeters Tachographs, Vibracorders and other Recording Instruments.

Chairman, Board of Directors: Sardar Bahadur Bakshi Dalip Singh.

Managing Director: Major Jagtar Singh.

Chief Agents for the State of Bombay: Kanwal & Co. Private Ltd., 16, Arthur Bunder Road, Colaba, Bombay 5.

R. C. H. BARAR & CO., 239, Abdul Rehman Street, Bombay 3. General Merchants, Importers, Exporters and Manufacturers' Representatives. Dealers in Pencils, Stationery Chatous, Buttons, Tailoring Materials, etc. Grams: "ATAL". Phone: 20610.

R. Manharlal & Co., 95/97, Bhandari Street, Chakla, Bombay 3. Grams: "Ashokkila." Phone: 23328. Dealers in all types of Glass bottles. Ampoules, Vials, Plastic & Bakelite Caps, etc.

R. Mohanlal & Co., Mill Gin Store Merchants. 38, Bibijan Street, Bombay 3.

R. Moolchand & Co., Sanitarywares & Fittings Merchants. 44, Nagdevi Cross Lane, Bombay 3.

R. S. Traders, 16, People's Bldg., Sir Phirozshah Mehta Road, Fort, Bombay.

Radha Ballabh & Sons.—Ceramics Dept., 15, Bell Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 252612. Grams: "LUSOBTRACO." Selling Agents of Bhupal Mining Works, Bhilwara. Manufacturers of Mica Insulating Bricks, Slabs, Tiles & Mortar.

RADIANT ELECTRIC & MACHINERY CO., Vithaldas Chambers, Bruce Street, Fort, Bombay 1. Phone: 255297. Engineers & Contractors. Importers, Stockists & Suppliers of Electric Motors & Starters, Generating Sets & Dynamos, Power Transformers & H.T. Switchgears, Distribution & Switchboard Panels, Ironclad Switches & Distribution Boards, Industrial Exhaust Fans, Centrifugal Blowers, Air Circulator Fans, Underground Cables, Cable Boxes & jointing materials, and Insulating Wires, Copper Strips, Laying of Cables, erection of Transformers, Alternating Sets, Distribution Boards etc., Repairing, Rewinding and Re-conditioning of Electric Machinery, Cast Iron Pipes & Pipe Fittings, Valves, Water meters, Power Hammers, Hand Trucks C. I. & Rubber tyred Wheels, Electric Platform Trucks, Chain blocks, Welding generator Sets, Transformers and Accessories.

RADIO CRAFTERS, THE, Radio Sound and Refrigeration Engineers, Laud Mansion, opp. Charni Road Railway Station, 21, C-D, Queen's Road. Phone No. 23006.

Radio Electric Private Ltd., Manufacturers of Radiotone Products. Lamington Chambers, Lamington Road, Bombay 4. Phone: 70824. Grams: "RADTRIC."

Radio Services:—Radio Sales & Service, publishers of "Radio Services" monthly magazine. Skylark Winding machines a speciality, 417-21, Lamington Road, next to Powells Ltd., Bombay 4. Phone No. 70601. Tel. Address: "Voltohm."

Railship Stores, Manufacturers and dealers in Leather goods and travelling requisites made of Leather, Canvas, Leather Cloth & Plastic. 39, Medows Street, Fort, Bombay.

Raj & Co., Printing press material dealers, 40, Cowasji Patel Street, Bombay 1.

Raja, F., & Co., Iron & Rolled Steel Beams Merchants. Carnac Bunder, Bombay 9.

Raja Furniture Mart, Furniture and Fancy Cloth Dealers, Fulchand Nivas, Chowpatty Sea Face, Bombay 7.

RAJARAM BHIKU & SONS, Manufacturers of India's best "AERATED WATER MACHINES" famous for best quality, durability and Workmanship; Production capacity from 40 to 250 Dozens per hour; Trimbak Parsharam Street, Golpitha, Bombay 4. Phone: 71652.

Raj-Der-Kar & Co., Merchants & Instrumentation Engineers, Specialists in Instruments for Research & Industry. Chemical Engineering Process Equipment. Sadhana Rayon House, Dr. D. Naoroji Road, Fort. Phone: 262304. (P. B. X 4 lines), Grams: "TECHLAB." *Branch Office:* 44/6, Regal Building, Connaught Place, New Delhi 1. Phone: 46761. Grams: "Rajderkar".

Rajkamal Supplying Stores, 295, Abdul Rehman Street, Bombay 3. Direct Importers and Stockists of Paints and Dry Colours, Brushes & Artistic Materials.

RALLIS INDIA LIMITED.

Bombay Head Office: Ralli House, 21, Ravelin Street, Fort, Bombay 1. P.O. Box 166. Telephone Nos.: 26-8221 (8 lines); Pharmaceutical Division 26-2994 (2 lines).

Calcutta (Regd. Office): 16, Hare Street, Calcutta 1. Phone No. 234351 (7 lines).

Madras Office: Ralli House, 320, Linghi Chetty Street, Madras 1. Phone No. 3981 (6 lines). Tel. Address: "RALLI."

Chairman: Sir Badridas Goenka, Kt., C.I.E.

Dy. Chairman: Bodh Raj Tannan.

Mg. Director: M. P. A. Paspatti.

Directors: P. A. Cronopulo; J. O. G. Barnes; H. J. Silverston; A. D. Mango.

Subsidiaries: Teddington Chemical Factory Ltd. for manufacture of Pharmaceutical Products; Ralliwolf Ltd. for manufacture of Wolf Electric Tools; Rallifan Ltd. for manufacture of Fans; Ralli-Hoyland Ltd. for manufacture of Umbrella Ribs; Ralli Chemicals Ltd. for manufacture of Superphosphate, and The Hemalatha Textiles Ltd. for manufacture and sale of Yarns.

Associated Company: Boehringer-Knoll Ltd. for manufacture of Pharmaceutical Products, including Antibiotics.

Correspondents: Ralli Brothers Ltd., London, Manchester & Branches.

Ralli Brothers (New York) Inc., New York.

Ramdas Khimji Brothers, Cotton Merchants, Exporters & Importers of Raw Cotton and Piece-goods, Warden House, Sir Phirozshah Mehta Road, Fort, Bombay.

Ramesh Dalal & Co., Cotton Merchants, Nawab Bldg., 327, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 251793. Grams: 'GRAPE JUICE.'

RAMJI DAYAWAHLA & SONS PRIVATE LTD., Erection Engineers and Constructors for Industry. Specialists for Erection of Steel Plants (Blast Furnaces, Rolling Mills etc.), Sugar Plants, Steam & Hydro Power Plants, Fertiliser Factories, Laying and Welding of Pipes, Welding Storage tanks etc., etc.; Stadium House, Block No. 2, Veer Nariman Road, Bombay 1. Phones: 246042, 245580 (Office); 76539 (Res.). Parel—65134. Grams: "ARDEESON".

Registered Office: Palia Street, Nanpura, Surat; Phone: 577.

Ramjanally Ebrahim, Investor in Industrial Joint Stock Cos. Office: 22, Apollo Street, opp. State Bank, Fort, Bombay. Tel. Address: "Biblock." Phone Nos. 251151 & 245464.

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RAMNARAIN SONS PRIVATE LTD., Cotton Merchants, Importers and Exporters, State Bank Building, Bank Street, Fort, Bombay. Tel. Address: "Ramnarye." Phone Nos. 252231 (6 lines).

Members:

Liverpool Cotton Association Ltd.
East India Cotton Association Ltd.
Karachi Cotton Association Ltd.

Managing Agents:

Bradbury Mills, Ltd.
Phoenix Mills, Ltd.
Dawn Mills Co., Ltd.

Ramniklal C. Kothari & Co., Plastics Machinery, Moulds and Raw Materials Dealers, 16, Apollo Street, 513, Sir Vithaldas Chambers, Bombay 1. Grams: "Astrogems."

RAMNIKLAL MAGANLAL & CO., Iron, Steel and pipes Merchants, Carnac Bunder, Bombay 9. Phone No. 38492. Grams: "TESTED", Bombay.

Ranade, G. S., & Co., Temple of Industry, Girgaum Main Road, Bombay 4. Tel. Address: "Newstyle". Phone No. 22548.

Ranbaxy & Co. Private Ltd., 1st Floor, Queen's Mansions, Bastion Road, Fort, Bombay.

RANJIT SALES & PUBLICITY PRIVATE LTD., 111-A, Mahatma Gandhi Road, Fort, Bombay No. 1. (Advertising Service Agents.) Telegrams: "RANJITSALE". Phone: 251121.

RANK FILM DISTRIBUTORS OF (INDIA) PRIVATE LTD., Distributors of Productions of the Rank Organisation of Britain, Lion International, Republic Pictures, RKO Radio Pictures, Walt-Disney Productions and Allied Artists. Head Office: Dhan Nur, Sir P. Mehta Road, Bombay 1. Phone: 263111. Grams: "RANKFILM".

Rasiklal & Company, Lampware Mfrs. & Dealers. Peerbhoy Building, 89, Princess Street, Bombay 1.

Rasiklal & Co., Ltd., Importers & Stockists of Light and Heavy Industrial Chemicals, 60-62, Princess Street, Bombay. P. O. Box 2228.

Rasiklal Hiralal & Co., Diamond Merchants and Jewellers, 205, Sheikh Memon Street, Bombay 2.

RASIKLAL SHAH & CO.

93, Narayan Dhuru Street, Bombay 3.

Stockists & Suppliers of:

Measuring, Engineering Stores, Precision Instruments, Metal Cutting Tools and General Hardware.

Grams: "PRECISION"

RASIWALLA & CO., M. M. A. 17, Janjikar Street, Husseinbhai Building, Mandvi, Bombay 3. Phone: 29550, Grams: "TWIST".

Proprietors of: Kurla Rope & Thread Factories, Pipe Road, Kurla, Bombay 37. Phone: 67312.

Manufacturers of: Cotton Ropes, Thread Twine and all sorts of Fishing Lines.

Dealers in: Fish-Hooks, Hemptwine, Plastic Fishing Lines twines, Sail needles, etc.

Ratansi Morarji Private Limited, Machinery, Water Purification and Treatment Plants and Chemicals. Prospect Chambers, 317/21, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone: 254265. Grams: "Shrijamini."

Ratilal & Co., Automobile Parts and Accessories Dealers, New Bhatwadi, Sandhurst Road, Bombay 4.

Ratilal Dahyabhai Shah, Yarn Merchant & Commission Agent, Tambakanta, Pydhownie, Bombay 3.

Ratilal D. Khetsey & Co., Importers, Exporters and Yarn Merchants, 15, Military Square Lane, Fort, Bombay.

Ratilal Nathalal & Co., Stainless Steel wares mfrs., 118, Kansara Chawl, Bombay 2.

Ratilal, P., & Co., 43, Dhanji Street, Bombay 3. Mill Gin Stores Suppliers. Phone: 39100. Grams: "ETERNAL".

Ratilal Parekh & Co., Imports & Exports, Bombay Mutual Building, 2nd Floor, Sir Phirozshah Mehta Road, Fort, Bombay.

Rational Art Press Private Ltd., Prospect Chambers Annexe, Pitha Lane, Bombay 1.

RAVALGAON SUGAR FARM LTD., Registered Office: Construction House, Ballard Estate, Bombay 1. Phone: 265471 (5 lines); Grams: "RASUFALD." *Managing Agents:* Walchand & Co. Private Ltd. Manufacture Sugar and Confectionery. Farm & Factory: Ravalgaon, District Nasik.

Raval & Co., Electric Cables & Wires Merchants, Shreeji Bhavan, Lohar Chawl, Bombay 2.

Raval Tiles & Marble Private Ltd., 97A, Queen's Road, Bombay. Phone No. 242310. Tel. Address: "Ravaltile."

Ravi Udaya Vijaya Photo-Litho Offset Works, Tilak Road, Ghatkopar, Bombay 39.

Ravin Trading Company, 5, Mohatta Market, Palton Road, Bombay 1. Phone: 26-4883, Grams: "BEWITCH". Dealers in Everything Electrical.

RAVINDRA & CO. (PLATINUM), 11, Dr. Annie Besant Road, Worli, Bombay 18. Phone No. 40024. Grams: 'CRUCIBLE'. Manufacturers of Platinum Laboratory apparatus, i.e. Crucibles, Dishes, Wires, Spatulae, Spoons, Boats, Filter Cones, Tipped Forceps, Tipped Tongs, Triangles, Wire Gauze, Foils, Electrodes, etc.

Rawal Shankerlal & Co., Dental Goods Dealers, 160, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Raymond-Renolds, Publicity Consultants, Bombay Co-operative Insce. Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone No. 31933.

READYMONEY PRIVATE LTD., C.R.H., 107, Mahatma Gandhi Road, Fort, Bombay 1. Importers, Exporters, Seed Merchants. Phone Nos. 253379 & 255348. Grams: "CRUSTREAD."

Recondo Private Ltd., Ewart House, Bruce Street, Fort. Engineer: L. J. Rose, Road Construction, Resurfacing and Civil Engineering Contractors. Secretaries: Anglo-Thai Corporation Ltd.

Regal Plug Mfg. Co., Mfrs. of Plugs. 130, Goghari Mohalla, Bombay 3. (For details see in Electrical Engineers & Mfrs.).

Refrigeration & Appliances Co., Private Ltd., Pravin Court, 95, Queen's Road, Bombay 1. Manufacturers of RACOLD long-life domestic electrical appliances and heating elements. Dealers & importers of domestic and commercial refrigeration equipment and spares.

Directors:—R. B. Patell, S. B. Patell, F. B. Patell, B. A. Meher-Homji, Dorab D. D. Pudumjee, J. C. Shroff and Mrs. D. N. Jeejeebhoy.

Reliance Trading Co., Dealers in Hardware & Engineering Stores. Vithal Sayana Building No. 1, Lohar Street, Bombay 2.

RICHARDSON & CRUDDAS LIMITED

(Estd. 1858)

CONSTRUCTIONAL AND MECHANICAL ENGINEERS, IRON AND BRASS FOUNDERS, SANITARY ENGINEERS, METALS, MACHINERY AND HARDWARE MERCHANTS.

HEAD OFFICE & WORKS: Byculla Iron Works, Post Box 4503, Byculla, Bombay 8.

BRANCH OFFICE & WORKS: First Line Beach, Post Box 1276, Madras 1.

Corresponding Firm: S. B. Industrial Development Co. (U.K.) Ltd., 1, Mint Walk, Croydon, Surrey, England.

Codes Used: Western Union, 5-Letter, Bentley and A.B.C. 5th edition.

Telegraphic Address: "IRONWORKS", Bombay-Madras.

Telephone Numbers: 70011 (Bombay), 3907 (Madras).

GENERAL MANAGER: J. R. Armstrong, A.M.I.Mech.E.

HEAD OFFICE & WORKS, BOMBAY:

Manager, Structural Engineering Department and Sanitary Engineering Department: F. J. Fonseca, B.Sc., B.E., M.I.E. (India).

Assistant Manager, Structural Engineering Department: W. F. Fernandes, B.Sc., B.E., M.I.E. (India).

Structural Engineering Dept.: G. Fatehi, B.E., A.M.I.E.; S. N. Mulye, B.E., A.M.I.E.; P. V. Naik, B.E., A.M.I.E.; M. M. Raut; M. J. Mohini; B. R. Damania.

Manager, Mechanical Engineering Department: T.G. Share, A.M.I.E.D.

Mechanical Engineering Dept.: P. Simon, L.M.E.; B. A. Ghadiali; M. D'Lima.

Chief Accountant: B. J. Suntook, A.C.A.

Metals & Agencies Department: F. F. Madon.

Sanitary Engineering Department: R. J. Meyers.

Works Manager: N. McQueen.

Works: T. J. Myatt; B. Oliver; K. Deva Rao, B.Sc., Met.; M. J. Bilimoria; R. F. Shroff; D. H. Kale.

Personnel Officer: S. D. Wagh, B.A., LL.B.

BRANCH OFFICE, MADRAS.

Assistants: F. C. Mathias, B.E. (Civil): T. C. Sundaram, B.A., A.I.C.W.A.

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Rembrandt and Vandykes, Ltd., Whiteaway Buildings, Hornby Road, Bombay.

REMEDIOS & SONS, Scientific and Surveying Instruments Manufacturers, 255, Dr. Dadabhoy Naoroji Road, opp. Lloyds Bank, Fort, Bombay. Tel. Address: "Remesons." Phone : 263336.

REMINGTON RAND OF INDIA LTD., Typewriters, Duplicators and Supplies, Kardex, Graphdex and Linedex visible systems for Management Controls. *Head Office :* 3, Council House Street, Calcutta. *Regional Office :* Thackersey House, Graham Road, Ballard Estate, Post Box No. 455, Bombay. Phone : 265591 (3 lines). Grams : "REMINGTONS".

RENOWN BISCUIT CO., THE, Biscuit Manufacturers, Connaught Road, near Victoria Gardens, Bombay 27. Tel. Address " Rebiscuit." Phone No. 42272.

REUNION ENGINEERING CO. PRIVATE LTD., Electrical & Mechanical Engineers and Contractors. Head Office : Amar Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 251371. Grams : 'RECOWIND' Factory : Old Atlas Mills Compound, Reay Road, Bombay 10. Phone : 42192.

Rihco Industries, Manufacturers of Tools & Electrical Instruments, Narayan Dhuru Cross Lane, Bombay 3.

R. H. MODY & CO.
(ESTD. 1904)
Stockists of :
Aromatic & Laboratory Chemicals
Essential Oil, Pharmaceutical
Drugs and Aerated Water Requisites
8, Khanderaowadi, 1st Floor,
Kalbadevi Road,
Bombay 2.

Ritz Private Ltd., Proprietors: Ritz Hotel, Bombay ; Ritz Hotel, Hyderabad and Hill Grove, Coonoor, Caterers to Caltex Oil Refining (India) Ltd., Visakhapatnam. Office : Churchgate Reclamation, Bombay 1. Phone 37161. Grams : "RITZ".

ROBERTS, McLEAN & CO., PRIVATE LTD., Engineers and Merchants, "Ilaco House," Sir Phirozshah Mehta Road, Fort. P.O. Box No. 452. Telegraphic Address : "Roblean." Phone : 26-1502. Godown : Kalachowky Road, Chinchpokli.
Managing Director : K. Tapuriah.
In Charge : J. S. Mansukhani.
Assistants : M. L. Daga and K. C. Mehta.
Head Office :—2, Brabourne Road, Calcutta 1. Madras Office : 200, Mount Road.

ROCHE PRODUCTS PRIVATE LIMITED, Manufacturers of Bulk Vitamins and Roche Pharmaceutical and Chemical Specialities. Office : Sadhana Rayon House, 1-3, Raghunath Dadaji Street, Bombay 1. Post Box No. 594. Tel. Address : "HOFROCHE". Phones : 265451/2. Medical Service Department, Post Box No. 748. Tel. : 264803. Pharmaceutical Laboratories : 24/26, Tardeo Road, Bombay 7. Phone : 76069. Chemical Works : Bombay-Agra Road, Village Balkum (Dist. Thana). Phone : 641292.

Rockhard Fire Engineers, Fire Fighting equipment, dealers. 25, Bank Street, Bombay 1.

ROGERS & CO., PRIVATE LTD., High Class Aerated Water Manufacturers. Head Office and Works—18, Clare Road, Byculla, Bombay 8. Phone : 71681-2.

Rogers Watch Co., Watch & Clock Importers, Stockists, Prospect Chambers, opp. Thos. Cook, Hornby Road, Fort.

Rohit Industries, Chemical Engineering Equipment Mfrs., Himalaya House, Palton Road, Bombay 1.

RONEO LIMITED

Manufacturers of Steel Equipment, Duplicators, Visible Records, Filing Systems and 'Neopost' Postal and Insurance Franking Machines. Sole Dealers in India for Allwyn Steel Equipment & Furniture. Head Office for India : P-13, Mission Row Extension, Calcutta. Bombay Branch : 39, Bastion Road, Bombay 1. Telephone : 262140, Grams : "RONEOINDIA." Other branches in New Delhi, Madras & Hyderabad. Distributors and dealers at all important centres in India.

Rose, S., & Co. Private Ltd., Ashok Kumar House, Rampart Row, Fort. Phone No. 252595. Tel. Address : "Rosebud." *Chairman.*—A. K. Gangoly. *Managing Director.*—P. N. Ghosh. *Director.*—Shobha Gangoly.

ROWE & ROWE, Importers of Piece goods, hardware, shoe grindery, electrical accessories & appliances, drugs, musical instruments & parts etc. Exporters, spices, pickles, skins, hides, bones, guts, etc. 381, Dr. Dadabhoy Naoroji Road, above Eastern Bank, P.O. Box No. 622, Bombay 1. Phones : 252369 and 211324. Grams : "ROWCO."

Rowlandson Bros. (Estd. 1927), Stationers, Printers, Paper Merchants, dealers in Drawing materials and Surveying Instruments, Account-Book Manufacturers, Engravers, Relief Stampers, Rubber Stamp Makers, State & Railway Contractors & General Order Suppliers. Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone : 251107 (Office) and 264861 (Resi.). Grams : "Telltrue."

Royal Cycle and Motor Works, Jariwala Mansion, Hughes Road, Bombay. Tel. Address : "Roycy." Phone No. 75850.

HOMOEOPATHY
The Leading House in Western India for genuine and reliable Homoeopathic and Biochemic medicines, globules, bottles, corks and other Physician's requisites ; Books — American, English and Indian Publications.
Price List Free to Medical Men
ROY & COMPANY,
Princess Street, Bombay 2.
Phone : 20504.
Grams : "HOMOPATS".

ROYAL EXCHANGE ASSURANCE (Incorporated in England with Limited Liability) 16, Veer Nariman Road, Fort, Bombay. Fire-Motor-Marine-Accident-Workmen's Compensation, etc. Tel. Address : "Foxbound." Phone No. 255136 (3 Lines). Post Box : 891. Resident Manager : H. M. Chawalla.

ROYAL INSURANCE CO., LTD. (Incorporated in England; Stockholders' Liability Limited), 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). *Secretary :* D. E. Twemlow. Tel. Address : "Royal." Phone No. 246226 (5 lines). P. O. Box 1847. Head Office :—1, North John Street, Liverpool, England.

GARDEN HOSES
IN VARIOUS QUALITIES

TRADE ENQUIRIES INVITED
CONTACT
ROYAL HARDWARE MART
108, NAGDEVI STREET, BOMBAY 3.
PHONE: 38621

Royal Paper Stores, Importers and Stockists of Paper, Boards, etc., 187-89, Abdul Rehman Street, Bombay 3.

R. Savailal & Co., Stockists of Steel Shaftings, 39, Sindhi Lane, Khetwadi Main Road, Bombay 4.

Royal Traders, Dealers in Bakery & Confectionery Requisites, 283, Nagdevi Street, Bombay 3.

RUBY INDUSTRIES, Motor Body Builders and Sole Selling Agents for "Weston" Hydraulic Tipping Gears. (On Government and Municipal List), 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone : 70538. Grams : "MOTORBODY". Branch : Opp. Naroda Railway Station, P.O. Naroda (Ahmedabad).

R. R. Jinde, Weaving Store Suppliers, 14, Mohan Nivas, Chandavarkar Road, Bombay 19.

Ruby Record Company, General Dealers and Importers in Acoustic and Electrical Goods, authorised dealers for His Master's Voice and Columbia Products, Spinner Building, near Bombay House, 8-10, Tamarind Lane, Fort, Bombay. Phone No. 253404.

RUPCHAND TARACHAND & CO.
Exporters, Importers & Manufacturers' Representatives for Bangles of Glass, Celluloid, Plastic, Aluminium, Gold and Metal Combs.
67-69, Bazargate Street, Fort,
Bombay 1.
Phone : 26-1430.
Tel. Add. "MERUSHIKAR".

Rylands & Sons (Overseas) Ltd., of Manchester, Manufacturers and Wholesale Warehousemen. Chief Agent in India and Constituted Attorney : D. J. Rivetna, Cook's Building, Hornby Road, Bombay.

S. H. Kelkar & Co. Private Ltd., Perfumers, 36, Mangaldas Road, Bombay 2.

S. Kumar & Co., Paper Merchants, 37, People's Building, Sir Phirozshah Mehta Road, Fort.

S. Matradas & Co., Industrial & Pharmaceutical Chemicals Merchants. Bode Chawl, Princess Street, Bombay 2.

S. More & Co. (Estd. 1929), Decorators, Painting Contractors, Metal Letters and Plaques, Architectural Models, Sculptural Murals and Exhibition Stalls. 34-38, Hamam Street, Fort, Phone No. 252019. Grams : "Packwell".

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S. R. Brothers, Manufacturers, Exporters, Agents (Greeting Cards and Advertising Gifts). 406, "Commerce House," Medows Street, Fort, Bombay 1. Telegrams: "GODMESSAGE." Phone: 38946.

S. R. Dossa & Co., Crockery & Glassware Merchants, 186, Sherif Devji Street, Bombay 3.

S. Ramchandra & Co., Artists' & Students' Art Materials, C/5, Sitaram Building, near Crawford Market, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 265344.

Sabnis, Goregaoker & Rele, 11-A, Bruce Street, Fort, Bombay. Telephone: 22774. Telegram: "Lis", Bombay.

SACHIN & CO., Manufacturers, Engineers, Machinery Merchants & Government Contractors, 25, Bank Street, Fort, Phone: 255175. Grams: "SACHEENCO".

SADBHAKTI PRAKASH PRINTING PRESS PRIVATE LTD., Publishers & Fine Art Printers. Chairman & Managing Director: Laxmikant S. Dabholkar, J.P. Managerial:—G. Y. Kamat, General Manager.

Head Office:—Devkaran Nanjee Buildings, 22, Horniman Circle, Fort, Bombay.

Press:—12, Homji Street, Fort, Bombay. Phones: 252955 & 251715.

Safe Glass Corporation Private Ltd., Toughened Glass Mfrs. 95, Danji Street, Bombay 3. (For details see in "Automobile Accessories").

SAIF WELDING & ENGINEERING WORKS, Structural & Mechanical engineers & iron founders. 130, Suklaji Street, Bombay 8. Phone: 73749. Grams: "STEELTANK". Specialists in Manufacturing in Chemical & Industrial Plants, Storage Tank for Oil, Water & Chemicals and Electroplating Plants. Chimneys and Pressure Vessels. Conservancy Equipment for Municipalities. Wheel Barrows and Material Handling Equipment. Structural Jobs—Light & Heavy. Ornamental Grilles, Gates & Fencings in Stainless Steel, Monel and Non-Ferrous. Flat Springs for Automobiles.

Saiga & Co., Glass, Surgical and Laboratory Equipment, Rubber, Drugs and Medicines, 105, Apollo Street, Fort.

Sajan & Co., 18, Custom House Road, Fort, Bombay.

Salehbhai & Co., A. R., Direct Importers & Wholesale Dealers in Paper, 76/78, Sutar Chawl, Bombay 2.

Salehbhoy Tyebbhoy & Co., Paint Merchants & Shipchandlers. 93, Nagdevi Street, Bombay 3.

SALEM & COMPANY, Consulting Engineers, and Contractors for Erection & Maintenance of heavy Machinery. Mafatlal House, Backbay Reclamation, Bombay 1. Phones: 246001-2-3. Grams: "SALECTRON."

Salemahomed Padamsee & Co., 141, Sheriff Devji Street (Chakla), P.O. Box 3131; Bombay 3; Phone: 38150; Grams: "CHANDELIER." Importers, Exporters and Wholesalers of Glassware, Enamelware, Lampware, Chinaware, Lanterns, Vacuum Flasks, Cutlery, Domestic Hardware, Novelties etc.

SAMKAY INDUSTRIAL CORPORATION

2nd Floor, 289-91, Nagdevi Street, G. P. O. Box 855, Bombay.

Phone: 28388

Mfrs. of Card Board Boxes & Colour Cartons.

SANDOZ PRODUCTS LTD. Registered Office: 3, Wittet Road, Ballard Estate, Fort, Bombay.

Manufacturers and Distributors in India for Dyestuffs, Chemicals, Agrochemicals and Pharmaceutical Products of Sandoz Ltd., Basle, Switzerland, Bradford, and New York.

Head Office: 3, Wittet Road, Ballard Estate, Fort, Bombay. Phone Nos.: 264051/9. Grams: "SANDOPHARM, SANDYE."

Branches: Calcutta: N. S. Subramanyam (Branch Manager); New Delhi: B. Chittaranjan (Branch Manager); Madras: P. P. Gopal (Branch Manager), N. P. Abraham (District Manager).

Depots: Ahmedabad, Hyderabad, Patna, Vijayawada and Kanpur.

Factory: Old Agra Road, Kolshet, District Thana. Telephone Thana Exchange 64. Nos. 1220 and 1228.

G. Ernst (Works Manager): W. Stuker; M. M. Bhasin; R. Datta: Miss P. Gupte; Dr. M. K. Vaharamurthi.

Pharmaceutical Dept.—Dr. D. Tuor (Managing Director); Dr. J. N. Banerjee; R. Schnell; D. R. Gupta; S. M. Meherji; Dr. E. J. Vaz; M. D. Boovariwala; J. Samuel.

Dyes & Chemical Dept.—W. S. Fletcher; E. Eichenberger; Mahinder Lall; S. P. Chandavarkar.

Agrochemical Dept.—G. Gogel.

General Dept.—E. Rigert; K. Reiser.

SANGHAVI & SONS, Importers & Exporters. Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phones: 253502 (Office) and 40634 (Residence). Grams: "VIRVANDAN."

Sanitube Engineering Co., Chemical Engineers. Princess Street, Devkaran Bldg., Bombay 2.

Sanj Vartaman Printing Press & Office: Peraj Building, Apollo Street, Fort. Phone No. 38709. Newspaper/Job Printers of Repute.

SANKEY ELECTRICAL STAMPINGS Private LTD.

Manufacturers of Stampings and Laminations for Electrical Trade & Light Pressings for Industry.

Regd. Office & Calcutta Commercial Office:—Mookerjee House, 17, Brabourne Road, Post Office Box No. 926.

Phone: Bank 4616.

Calcutta Works: Currie Road, Shalimar, P.O. Howrah. Phone: 672026.

Bangalore Works & Office: Rajajinagar. Phone: 70282.

Delhi Office: 27, Sunder Nagar, New Delhi. Phone: 43027.

Delhi Retail Centre: Olympus House, 29, Faiz Bazar, Daryagunj, Delhi 7.

Bombay Works & Commercial Office: Bhandup, Bombay 40. Phone: 67651/2/3.

Bombay Accounts Office: Wakefield House, Sprott Road, Ballard Estate, Post Office Box No. 121-A, Bombay 1. Phone: 261758/9.

Managing Director: Phones: Office: 67248. Residence: 42206.

Tel. Address: "LOWLOSS", Bombay, Calcutta, Bangalore.

Sapt Textile Products (India) Private Ltd., Sapt Building, Graham Road, Ballard Estate, Bombay. Merchants and Exporters: Cotton and Textile wastes. *Directors:* K. J. Kirpalani, W. L. Wolf, H. Sommer, F. Vogelsang. Tel. Address: "Cascami." Post Box No. 318. Phone: 262091.

Saraswati Mill Store Co., Mineral & Paint Merchants. 56, C. P. Tank Road, Bombay 4.

SARDESAI BROTHERS LTD., Post Sardesai Factory, Bilimora (W. Rly.). Phone 84. Grams: "SARDESAI". Manufacturers of Quality Textile Chemicals. Vegetable Tallow, Preservatives, Detergents, Resin Finishes, Carboxy Methyl Cellulose, Penta Chloro Phenols, etc. *Bombay Office:* 14, Murzban Road, Fort, Bombay 1. Phone: 261296. Grams: SURBINOL."

SARDESAI & COMPANY, Manufacturers' representatives for Textile Auxiliaries, Leather goods, Bobbins, Shuttles, Dyestuffs, Yarn etc. 14, Murzban Road, opp. New Empire Cinema, Fort, Bombay 1. Phones: Office: 263633. Res.: 74486. Grams: "SURBINOL".

SARDESAI INDUSTRIAL AGENCIES PRIVATE LTD., 14, Murzban Road, Fort, Bombay 1. Phone: 265124. Sole Selling Agents for Sardesai Brothers Limited, Billimora, for Textile Auxiliaries, Resins, Penta Chloro Phenols, C.M.C. etc. Phone: 261296.

Sargon & Co., Hague Building, Sprott Road, Ballard Estate. (*See Western India Trading Co.*)

SAURASHTRA ENGINEERING CORPORATION PRIVATE LTD.
(ESTD. 1948)
Structural and Mechanical Engineers, Founders & Manufacturers, 106, Bazar Ward, Kurla, Bombay 70.
Phone—Office: 26-4941, Factory: 67242.
Grams: "SINSANATY".

SAURASHTRA WIRE HEALDS MFG. CO. PRIVATE LTD., Manufacturers of wire healds. *Sales Office:* Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay 1. Phones: 253502 (Office) and 40634 (Residence). Grams: "VIRVANDAN." *Factory:* Udyognagar, Bhaktinagar Station Road, Rajkot (Saurashtra). Phone: 943. Grams: 'WIREHEALDS.' Rajkot. *Managing Director:* M. K. Sanghavi.

Scanfennia Paper Co., (Bombay) Private Ltd., 53/57, Lakshmi Bldg., Sir P.M. Road, Bombay 1.

SCHERING ASIA G.m.b.H. Manufacturers of Pharmaceutical Specialities on behalf of Messrs. Schering Asia G.m.b.H. Berlin, West Germany, and Scientific Information Service, Bombay Branch: Post Box 10085, Bombay 1. Phone: 252503, Grams: "SCHERASIA."

SCINDIA STEAM NAVIGATION CO. LTD., Scindia House, Ballard Estate, Bombay 1. Tel. 268161. Grams: "JALANATH" (for Coastal Service). "SAMUDRAPAR" (for Overseas Service). Business: Shipping.

Scientific Instrument Co., Ltd., Navsari Building, 240, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Importers and Stockists of Scientific Instruments, Apparatus and Appliances for Education, Research and Industry. Agents for Leica Camera and Accessories. Tel. Address: "SICO", Phone No. 26-2642. Offices also at Allahabad, Calcutta, Madras and New Delhi.

Scottish Alliance Insurance Co., Agents: Bhaichand Amoluk & Co., 9, Wallace Street, Fort, Bombay.

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Scottish Union and National Insurance Co. (Estd. 1824). Fire, Motor Car, Personal Accident, Workmen's Compensation, etc., Funds exceed Rs. 64 Crores. Chief Indian Office: 6, Lyons Range, Calcutta. Branch Office: Hazratgunj, Lucknow. Bombay Branch Office: 16, Bank Street, Bombay. *Western Zone Manager:* K. M. Dastur. Tel. Address: "Fortior." Phone No. 251321. Post Box No. 821.

SEAGRAND & CO., Manufacturers of Railway Signalling Lamps, 19, Arab Lane, Grant Road Corner, Bombay 8. Phone: 78252. Grams: "RAILAMP".

SELVEL SYNDICATE, All-India Outdoor Publicity Organisers, Hashim Building, 38, Churchgate Street, Fort, Bombay.

Sentinel Assurance Co., Ltd., The, Prospect Chambers, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

SEPULCHRE BROTHERS (INDIA) PRIVATE LTD., Importers-Exporters and Engineers, Taj Building, Dr. Dadabhoy Naoroji Road, Fort, P.O. Box No. 754, Bombay.

Tel. Nos. 261871 and 261872. Tel. Address: "Beleast".

Managing Director: R. C. L. Van Damme.

Managers: M. Sanker; P. V. Ramanayya; D. T. Ghandy; J. C. Oonwalla; P. S. Shivram; and K. Mahadevan.

Secretary and Accountant: M. G. Shah.

Branches:

Calcutta, P.O. Box No. 2041. *General Manager:* N. D. Modak. *Madras:* P.O. Box No. 91. *Manager:* K. B. Chandran. *Cochin:* P.O. Box No. 49. *Manager:* P. R. Vidyadhar. *Visakhapatnam:* 20/359, Godevari Street. *Manager:* Y. N. Murty.

SETHISONS PRIVATE LTD., Sales Representatives for India to Dorr-Oliver (India) Ltd., for starch industry equipments; distributors & agents. *Head Office:* 12, Rampart Row, Bombay 1. Phone No. 253069. Grams: "SETHISON."

Branches: Kandla, New Delhi, and Calcutta.

Managing Director: S. B. Sethi.

SEWRI ENGINEERING CONSTRUCTION CO., PRIVATE LTD., Civil Engineers and Contractors, Specialists in Design & Construction of Reinforced Concrete Structures.

Office:—Savoy Chambers, West Wing, Wallace Street, Fort, Bombay.

Phone Nos. 26-3941 & 26-1456. Post Box No. 319, Bombay 1.

Tel. Address: "TIROD." Bombay.

Godown:—222, New Sewri Road, Sewri.

Engineers: C. V. Deshpande, B.E., M.I. Struct. E. (Lond.), F. Am. Soc. C.E., M.I.E. (Ind.), P. R. Tongaonkar, B.E., M.I.E. (Ind.), M. J. Padwal, B.E., R. P. Deshpande, R. T. Pawar, B.E.

Consulting Engineer: G. P. Bhandarkar, M.B.E., B.A., L.C.E., M.I.E. (Ind.), I.S.E. (Retd.).

Shah & Bros., Files & Hardware Merchants, 234, Nagdevi Street, Bombay 3.

Shah & Co., Private Ltd., A. H., Nanabhoy Mansion, Sir Phirozeshah Mehta Road, Fort. Phone: 26-1930. Grams: "OCSAH." Sole Representatives:—H. & R. Johnson Ltd. (Tiles); Johnson Bros. Ltd. (Sanitarywares); Johnson Bros. (Hanley) Ltd., (Domestic Tableware); Fordham Pressing (Cisterns); Samuel Booth & Co., Ltd. and Barking Brassware & Co., Ltd., (Sanitaryware Fittings); John Slater (Stoke) Ltd. (Sanitary & Hospital Fireclayware); Robert McArd & Co., Ltd. (W. C. Seats), John Aynsley & Sons Ltd. (China Tableware).

Shah & Co., R. J., Merchants, Commission Agents and Forest Contractors, Hassan Chambers, Parsi Bazar Street, Fort.

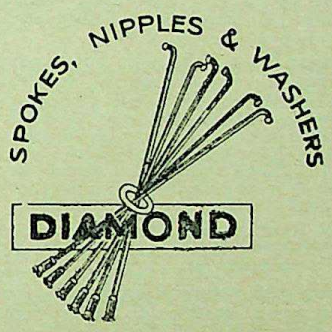
Shah, & Co., C. J., Sole Agents for L. C. Smith Corona Typewriters, Inc. and Saraya Sugar Factory, Churchgate House, Churchgate Street, Fort.

SHAH CONSTRUCTION CO., LTD., Engineers and Contractors, 198, Churchgate Reclamation, Jamshedji Tata Road, Bombay 1. Specialists in Prestressed & R.C.C. Bridges, Asphalt & Cement Concrete Roads, Dams & Canals; R. C. C. Works of all types and Public Health Works undertaken with Mechanical Equipment. Experts in Gunite. Phone: 245044 (3 Lines). Grams: "SUPERTRADE", Bombay.

Shah Engineering Stores, Hardware & Machine tools Stockists, 88, Nagdevi Cross Lane, Bombay 3.

Shah, & Co., D. D., Oil Paint Manufacturers, 93, Kika Street, Bombay.

Shah, & Co., H. T., Incandescent Gas Lights, Electrical Goods Dealers, Ahmed Bldg., Golpitha, Bombay 4.



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SHAH INDUSTRIES

8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2.

Phone: 39038. Grams: "CYCLEBELL."

Shah Patel & Co., Mill Gin & Hardware Merchants, 109-111, Nagdevi Street, Bombay 3.

SHAH PRATAP & CO., Importers of Fire Fighting Equipment, Oilseals, Crucibles, Gas Meters and other Engineering Stores. Fabricators of Components from Laminated and moulders of Plastics. 64, Old Custom House Road, Fort, Bombay. Phones: 255615 and 255616. Grams: "VINPRA."

Shah Tarachand Shamji, Sewing Thread Mfrs., Nagdevi Street, Bombay 3.

SHAH & SUNDAR

Stockists of Auto-Parts, Lubricating Oils and Garage Equipment. Sole Agents for "REDEX" Oil & Fuel Additive.

Address: 7/10, Horniman Circle, Botawala Building, Bombay 1.

Phone: 254226.

Shah Trading Corporation, Goldsmith Tools and Hardware Merchants, Oomrigar Building, Opp. Crawford Market, Bombay 3.

Shah Virajlal & Co., 124-126, Kansara Chawl, Bombay 2.

SHALEBHOY TYEBJEE & SONS (Estd. 1840), 12, Bruce Street, Fort, Bombay 1. Phones: 252357 & 252358; (Resi.) 212151. Grams: "ROTATOR." Agents & General Merchants, Shipchandlers and Suppliers to Mills and other industries.

SHALIMAR PAINT, COLOUR & VARNISH CO., PRIVATE LTD. Agents: Turner Morrison & Co. Private Ltd., 16, Bank Street, Bombay 1. Tel. No. 251321 (7 lines).

SHALIMAR TAR PRODUCTS (1935) LTD., Manufacturers of Coaltar and Bitumen products. Specialists in Asphalt flooring, Roof Water-proofing, Damp-proofing, Decking, Canal linings, etc. Contracts executed under guarantee. Specialists in design and constructions of Prestressed Concrete. 16, Bank Street, Fort, Bombay 1. Phones: 252185 & 254643. Grams: "TARSTIL". H.O. 6, Lyons Range, Calcutta.

Bombay Manager: Shri P. Raghavan.

Shamji Kalyanji & Co., Manufacturers, Suppliers & Commission Agents. New and Secondhand Gunny bags, Hessian Cloth, Jute Twine, Empty Cement Bags, Tarpaulins, Polythene & paper lined water proof bags. 67, Bhandari Street, Koliwada-Mandvi, Bombay 3. Phone: 39637. Grams: "SHAMKALYAN." Branches at Poona, Nagpur and Calcutta.

Shambhulal A. Shah & Co., Specialists in all kinds of foreign and Indian make Papers & Boards, Podar Chambers, Parsi Bazar Street, Fort.

Shamsun & Co., Importers of Record-changers, Time-pieces, Electrical Appliances, Misc. Hardware & Exporters of Electrical Wiring Accessories, 11, Bruce Street, Fort, Bombay. Tel. Add.: "Shasun."

Shama Fireworks Industries, Fireworks Mfrs. 142, Samuel Street, Bombay 9.

SHANTILAL CHHAGANLAL & CO., 397, Sheikh Memon Street, Bombay 2. Phone: 28188, Grams: "Vasuras". Dealers in all kinds of self adhesive tapes, Cellulose Transparent Tapes, Crepe Paper Tapes and Cotton Tapes, etc. Distributors for the State of Maharashtra & Madhya Pradesh. Domestic Hardware Products (viz. Round & Rectangular metal trays, Coasters, Baskets, etc.) manufactured by the Metal Box Co. of India Ltd.

SHANTILAL G. SHAH & CO., Advertising Agents, Publicity Consultants Manu Mansion, 16, Custom House Road, P.B. No. 1682, Bombay 1. Phone: 251865.

SHAPARIA DOCK & STEEL CO. PRIVATE LTD., Shipbuilders, Engineers & Contractors—Suppliers to D.G.S. & D., Railways, P.W.D., Port Trusts, Municipalities etc., specialising—Cargo and Passenger Vessels, Tugs, Barges, Launches, Life Boats (Ordinary & Motor), Row Boats, Dinghies, Life Saving Appliances, Buoyant Apparatus, Mooring Buoys etc. Also Lighterage Contractors to Mineral Ore Exporters. Corrugated Steel Pale Fencing, Ornamental Compound Gates, Rolling Shutters (Ordinary & Fireproof), Rolling Grills, Fire Proof Steel Doors, Collapsible Gates, Tipping Wagons, Light Railway Equipments, Wheel Barrows, Refuse Hand Carts, Platform Trucks, Light Structural Steel Works, Roof Lights, Lead-Ulite (Lead Wool), Steel Rollers, Garden Benches, Tree Guards, Steel Tanks etc. Sewree Fort Road, Bombay 15. Phone: 60071-72. Gram: "SHAPARIA", Bombay.

SHAPOORJI PALLONJI & CO. PRIVATE LTD., Building Contractors to Government and Railways, 70, Medows Street, Fort, Bombay. Phone No. 251534.

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Shapurji, R. K., & Co., Importers & Indentors of Aromatic & Fine Pharmaceutical Chemicals, Laboratory & Biological Reagents, Stains, Essential Oils, Solvents, Flavour & Perfumery Raw Materials, Terpineol & Terpene Derivatives, Pressure Gauges, Sanitaryware. 319, Dr. Dadabhoy Naoroji Road, P.O. Box 1065, Fort, Bombay 1. Grams: "SEVENSEAS."

Sharda Electric & Radio Co. Private Ltd. 159/63, Lohar Chawl, Bombay 2.

Sharp & Tannan, Chartered Accountants, Bank of Baroda Building, Apollo Street, Fort.

Sharp, R., & Son, Ltd., Stevedores, Dubashes and Marine Contractors, Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate. Tel. Address: "Granite." Phone No. 262440.

SHAW WALLACE & CO., LTD., Merchants and Agents, 3, Wittet Road, Ballard Estate, Fort, Bombay.

Head Office: Calcutta. Other branches at Madras, Delhi & Dibrugarh.

London Correspondents: R. G. Shaw & Co., Ltd., 14 and 19, Leadenhall Street, E. C. 3. Telegram: "AUGHT", London.

Manager: P. A. Latham, Res. Tel. 42770; *Assistants:* G. Crasemann, Res. Tel. 212773; R. N. Gupta, Res. Tel. 212214; G. P. Oomman (*Sign per pro*), G. M. Palekar, *Accountant*, P. N. K. Sarma, *Secretarial Assistant.*

Agents:—

Allan Whyte & Co., Ltd., Glasgow (Unit, British Ropes Ltd.) (Wire Ropes).

Amalgamated Coalfields, Ltd., Calcutta.

American Cyanamid Co., Inc., New York ("Cyanogas," Calcium Cyanide for Plague Control).

Celotex Ltd. London. (Celotex board for heat-insulation and acoustics).

Isbrandtsen Co., Inc. New York (Cargo service between India, American North Atlantic Ports, China and the Far East).

Deutsche Dampfschifffahrts—Gesellschaft "Hansa" Bremen.

(Cargo Service between India/North Continental and Red Sea Ports).

Pench Valley Coal Co., Ltd., Calcutta.

Rewa Coalfields, Ltd., Calcutta.

The Tinplate Company of India Private Ltd., Calcutta.

The Steel Co. of Wales Ltd., London (Tin plates).

Jaipur Mineral Development Syndicate Private Ltd., Jaipur (Soapstone (Talcum) Powder and Lumps).

Udaipur Mineral Development Syndicate Private Ltd., Jaipur (Soapstone (Talcum) Powder and Lumps).

The Associated Soapstone Distributing Co. (Private) Ltd., Jaipur.

Attorneys:

Queensland Insurance Co. Ltd.

Codes used: Acme, Bentley's Complete Phrase Code and Second Phrase Code. Tel. Address: "Shawlace." Phone No. 264051 (Seven lines). Post Box No. 203.

Sheraton & Co., Show-room, "Chateau Windsor," opp. Brabourne Stadium, Churchgate Street, Bombay. Phone: 255430.

Sheth, S. C., & Co., Private Ltd., Dealers in Mill Stores, Bobbins & Shuttles, Textile Auxiliaries, Sizing Materials, Colours, Chemicals, Beltings, Leather goods for Textile Industry, Raja Bahadur Mansion, 8, Hamam Street, Fort. Tel. Address: "Agmol." Phone No. 255358.

SHETHIA, S. D., & CO., PRIVATE LTD. Coal Merchants, Landing and Bunkering Contractors, Colliery Agents. Head Office: 8, Netaji Subhas Road, Calcutta. Phone—22-6936/7. Bombay Office: Podar Chambers, Parsee Bazar Street, Fort. *Phone Nos.* 255 05-6 (Office), 40888 (Depot) and 40992 (Res.). Grams: "SHETHIACO".

Shetty Automobiles, Direct Importers of Automobile Parts and Accessories, etc. Opera House Tram Terminus, Bombay 4.

Shetty Chemical & Engineering Works Private Ltd., Manufacturers of Foundry Fluxes, Refractories, etc. 43, Tamarind Lane, Fort, Bombay. Phone: 254433. Grams: "DATNARE".

SHIAVAX C. CAMBATA & CO. PRIVATE LTD., Colliery Proprietors and Agents, Coaling Contractors, Stevedores, Dubashes and Bunkering Contractors. General Merchants and Contractors. Proprietors: The Rakhikol Collieries, Back Bay Reclamation, Fort.

Tel. Address: "Coalpits." Telephone No. 246291 (9 lines).

Shilpi Private Ltd., Advertising, Shahibag House, 13, Wittet Road, Ballard Estate, Bombay 1. Phone: 264201.

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Shree Niwas Cotton Mills Ltd., DeLisle Road, Bombay 13.

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General Manager: J. W. Sinclair.

Bombay Territory Office:—Standard-Vacuum Building, 17, Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.

Telegraphic Address: "STANVAC".

Telephone No. 249151 (10 lines). Post Box No. 355. Code used—Private.

Territory Manager: J. R. Geib.

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STANLEY WORKS, THE, 43-44, Lakshmi Building, 3rd Floor, Sir Phirozshah Mehta Road, Fort. Phone No. 26-2737. Tel. Address: "Stanlyworx". Post Box No. 491. Manufacturers of Builders' Hardware, Carpenters', Mechanics' and Portable Electric Tools.

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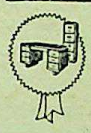

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Works No. 2: Bombay-Agra Road, Near Mile Stone 20, Mulund (Bombay Suburb).
Works No. 3: 27, Barrackpore Trunk Road, P.O. Kamarhati, Dist. 24, Parganas, West Bengal.

Works No. 1: 62741-2.
Works No. 2: 67641-2-3.

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Sudan Trading Co., Importers & Exporters, Dhan-Nur Bldg., Sir P. M. Road, Bombay 1.

SUDHIR & CO., Exporters, Importers & Manufacturers' Representatives, Steel, Sago Flour, Starches, Waterproof Packing Papers & Chemical Merchants, Opp. New Sugar Market, Frere Road, Bombay 9. Grams: "SPEEDSTEEL". Phones: 22288 Office & 60024 Factory.

Sugar Textile Service, Auxiliaries for Dyeing, Bleaching, Finishing & Printing. Third Floor, Bombay Mutual Building, Sir Phirozshah Mehta Road, Fort, Bombay.

SUHRID GEIGY TRADING PRIVATE LTD., Suppliers of Dyestuffs, Chemicals & Pharmaceuticals, Express Building, 'E' Road, Churchgate, Bombay 1. Phones: 242184, 242185, 242186. Grams: "ACEEDEECEE."

Sukhanand Shankerlal Jain & Co., Dyestuffs & Chemical Merchants, 47, Daryasthan Street, Bombay 3.

Sultanali Mohamedali, Provision Merchants, 148, Sarang Street, Bombay 3.

Sultania Cotton Manufacturing Co., Ltd., Ismail Building, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay.
Tel. Address: "Bandenawaz." Phone No. 255046.

Telephone :39435 & 27390
Telegram : SUNPROCESS

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Specialists in advanced techniques of process engraving

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Sunderlal & Co., Plywood & Hard board Merchants, 121, Abdul Rehman Street, Bombay 3.

SUNDELAL & SONS
(ESTD. 1947)
Engineering Stores & Hardware Merchants
Specialists in
Spanners (All Sorts)
Engineering, Precision & Cutting Tools. Ball Bearings & Steel Balls etc. etc.
11, Narayan Dhuru Cross Lane, Bombay 3.
Phone: 22847.
Grams: "ALLWRENCH."

Sunshine Traders, 3, Hamam Street, Fort, Bombay. Phone: 251631. Grams: "Subhmangal". Manufacturers of Spindle Tapes, Listings, Webbings, Egyptian Cotton tapes, Venetian blind tapes, Cotton Bandings, Tubular and bundle bandings.

Super Leather Works, Leather & Canvas Goods Dealers, 300, Abdul Rehman Street, Bombay 3.

Superior Stationery Mart Private Ltd., Stationers, Printers, Direct Importers of Stationery and Paper, Examiner Building, 117, Medows Street, Fort, Bombay 1. Phone: 25-2398. Grams: "Loveliness."

Superphone India, Communication Consultants and Contractors. Mfrs. of "Superphone" Intercommunication Telephones & Exchanges of all Systems. 7, New Queen's Road, Bombay 4. Post Box 3573. Phone: 27165. Grams: "Phonesuper".

Supreme Industrial Works, Manufacturers of Gears of all kinds. Specialists in worms and worm wheels. 196-K, Gaiwadi, Girgaum, Bombay 4.

SURAT ELECTRICITY COMPANY LIMITED, THE. *Registered Office:* Killick House, Home Street, Fort, Bombay 1. *Telegraphic Address:* "KINDRED". Telephone No. 262311. *Managing Agents:* Killick Industries Ltd. *Technical Office:* Central Administration Department, No. 5, Graham Road (4th Floor), Ballard Estate, Bombay 1. *Telegraphic Address:* "ADISEBS". Telephone Nos. 261741/261742. *Local Office:* Tilak Maidan, Post Box No. 20, Surat (Ref. Surat Section).

SURESH ENGINEERING WORKS. Bombay Cotton Mills Estate, Kalachowki Road, Bombay 12. Phone: 41887, Grams: "SHEETMETAL". Steel Fabrication and Sheet Metal Works. Stainless Steel Fabrication by Argon Arcweldingour Speciality.

Suresh Stationery Mart, Manufacturers of Exercise Books, Letter Books, etc. 285, Abdul Rehman Street, Bombay 3. Phone: 23397.

SUTRAMDAS (INDIA) PRIVATE LTD., R., United India Building, 5th floor, Sir Phirozshah Mehta Road, Fort, Bombay. Phones: 252493 and 252671. Grams: "TRAVRAY." Agents: 'Trayons' Rayon Yarn and Trayophane (Cellulose Film.). Manufactured by the Travancore Rayons Ltd., Rayonpuram (Kerala State).

Swastik Engineering & Construction Co., Sanitary Engineers and Contractors, Confectioner Building, 303 Frere Road, Fort, Bombay 1. Phone: 261869.

Swastik Paper Mart, For Newsprint, Corrugated Boards and other boards, 54, Sutar Chawl, Bombay 2.

SWASTIK OIL MILLS LTD. Manufacturers and Exporters of Vegetable Oils, Oil Cakes, Refined Oils, Washing and Toilet Soaps, Synthetic Detergents, Hair Oils, Textile Auxiliaries and Glycerine—Chemically Pure & Industrial. *Address:* P. O. Box No. 362, Bombay 1. *Phone:* (Factory) 61707; (*Office*) 265361-2. *Grams:* "SOMUC."

Swastik Paper Bag Co., Paper & Polythene Bags Manufacturers. 168/80, Bhimpura, Chinch Bunder, Bombay 9. Phone: 76836. Grams: "CARRIERS".

Swastik Paper Industries, Corrugated Paper &Board Mfrs. 54, Sutar Chawl, Bombay 2

Swastik Rolling Shutters & Engineering Works, Parel Station Road, Bombay 12. Rolling Shutters Manufacturers.

Swedish Match Co., The, Match Manufacturers. *Office:*—Indian Mercantile Chambers, Nicol Road, Ballard Estate.

Sykes, Patker & Divecha, Architects, Engineers & Surveyors, 24-26, Dalal Street, Fort.

T. Alimahomed & Co., Aerated water Requisites Dealers. 144-46, Sarang Street, Bombay 3.

T. Lakhamshi Ladha & Co. (Talpatriwala) (Estd. 1920), Manufacturers of Waterproof tarpaulins and Dealing in Grey & Waterproof Cotton and Jute Canvas, Chemical Cloth, Cart and Wagon Covers, hessian, twine, eyelets, etc. Tarpaulins given on hire. 298, Narsi Natha Street, Near Masjid Rly. Station, Kharak Bazar, Bombay 9. Phone: 23428. Grams: "DUCKPROOF".

T. I. & M. SALES PRIVATE LTD. "Hercules" and "Phillips" bicycles, welded and seamless steel boiler, pressure and mechanical tubes, stainless steel and plastic tubes and fittings, bright drawn steel bar and shafting, aluminium tubes, sections, bars and sheets, "Pop" blind rivets and tools, "Crane" packings and mechanical seals, "Brookes Oldbury" bending and cutting-off machines, etc. 2nd floor, United Bank of India Bldg., Sir Phirozshah Mehta Road, Fort, G.P.O. Box No. 1308. Phones: 2539/57/58/59. Tel. Address: "TUBEIND". Godown, Sewri, Phone: 77313.

Director: R. C. Atterton.

Sales Assistants: T. R. Arunachalam, R. Rajagopalan, G. A. Noronha, V. M. Arekar, J. R. Chander.

Registered Office: 5 & 7, Netaji Subhas Road, Calcutta.

T. M. DESAI & CO., Specialists in Textile Machineries & Spares. Post Box No. 617, Commerce House, 140, Medows St., Fort, Bombay 1. Grams: "TIMDESAI". Phone: 262633.

T. MOTANDAS & CO., Importers & Exporters, Wines, Provisions, Plastics. *Address:* 1st Marine Street, near Metro Cinema, Bombay. Phone: 242716, Grams: "MOTANCOY". *Branches:* Sadar Thana Road, Delhi, Station Road, Jaipur, Sojati Gate, Jodhpur, Troop Bazar, Hyderabad (Dn.); invite inquiries for Indian goods for Exports.

TAHIRA INDUSTRIES (INDIA) PRIVATE LTD., 19/21, Manohardas Street, Opp. G.P.O., Bombay 1. Phone Nos. 265256 and 264664. Grams: "TAHIRA"; Manufacturers of Tokheim Petrol/Diesel Dispensing Pumps—Tokheim Hand Pumps—Accessories for Petrol Pumps—Petrol Hose—Air Compressors—Car & Truck Lifts—Car Washers—Grease and Oil Pumps—Lubrication Equipment—Meters for Petroleum Products—Pumps & Valves for Acids & Chemicals—Oil Line Pipe—Chains—Wire Rope—Packings & Jointings—Mobile Cranes.

Factory: Victoria House, Victoria Road, Byculla, Bombay 27.

Taj Printing Works, 46-A, Cawasji Patel Street, Fort, Bombay.

Tajbhoy Allibhoy & Sons, 117, Ebrahim Rahimtulla Road, Bombay 3.

Talib & Company, Pipes, Fittings & General Hardwares. Talib House, 104, Nagdevi Street, Bombay 3. Phone No. 27977. Tel. Address: "Talibco."

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TALWALKER BROTHERS PRIVATE LIMITED, W. R., Lentin Chambers, Dalal Street, Fort. Phone: 253367. Tel. Address: "PUMPENAMEL."

Distributors for :

KIRLOSKAR & OGALE PRODUCTS: Shallow and Deep Well Hand Pumps, Direct Coupled Engine & Motor Pumping Sets, Diesel Oil Engines, Electric Motors, Star Delta Starters, Groundnut Decorticators, Sugarcane Crushers, Agricultural Implements.

SPECIAL PUMPS FOR SUGAR FACTORIES, CHEMICALS, AIR CONDITIONING UNITS:

Glass Bottles & Containers, Glass Hollow Bricks, Glass Tiles for Roofing (Mangalore Pattern), Partition & Flooring, Enamel Advertising Sign Boards, Enamelled Light Shades, 'Prabhakar' Kerosene Safety Stoves.

Sole Distributors for "KEROSOL"—Kerosene additive.

Tambawalla Metal Manufacturing Works Private Ltd., 66/68, Narayan Dhuru Street, Bombay 3.

TAMBAWALA PRODUCTS AGENCIES PRIVATE LTD., Importers and Dealers in all sorts of Non-Ferrous Metals and Scrap Electrical Wires, Surgical Instruments, etc., 66-68, Narayan Dhuru Street, Bombay 3. Tel. Address: "AXLE." Phone Nos.: 38031-32. *Branches:* Calcutta and Madras.

Tambe, B., Ltd. Vegetarian Caterers (Props. of Tambe Health Home). Head Office: Sanzgiri Sadan, Girgaum Road, Bombay 4. Phone No. 20687.

Branches: (1) Thakurdwar Corner; (2) Hammam Street, Fort; (3) Cona, Girgaon.

Taraporevala, D. B., Sons & Co. Private Ltd. Booksellers and Publishers, Treasure House of Books, Taj Building, 210, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Taraporvala & Co., Architects, Engineers and Surveyors, 7-10, Horniman Circle, Fort. Phone No. 252703. Kersasp B. Taraporvala, L.R.I.B.A., etc., Chartered Architect, and Dorab V. Tarapore, A.R.I.B.A., Chartered Architect.

TARASINGH HARBINDERSINGH, Manufacturers of Bright polished steel nuts and studs in S.A.E., B.S.W., B.S.F. & M/M threads ranging from 5/16" to 1½". 190, Princess Street, Bombay 2. Phone: 28358. *Factory:* Agra Road, Bhandup, Bombay.

TARKAR, B. A., 50, Kansara Chawl, Bombay 2. (Props.: A. B. Tarkar Metal Factory and Tarkar Bros.). Phone: Office: 73698, *Factory:* 39035. Manufacturers of Copper, Brass, German Silver and Non-Corrosive Stainless Steel wares.

TATA ENGINEERING & LOCOMOTIVE CO., LTD., *Head Office:* Bombay House, 24, Bruce Street, Fort, Bombay 1. *Sales Office:* 148, Mahatma Gandhi Road, Fort, Bombay 1. *Works:* Jamshedpur 4.

Directors :—

J. R. D. Tata (*Chairman*).

Sir Chunilal V. Mehta.

Sir Cowasji Jehangir, Bart.

Sir Jehangir Ghandy.

S. Moolgaokar (*Director-in-Charge*).

Khan Bahadur C. B. Taraporvala.

Dr. F. Koenecke.

A. Wychodil.

C. H. Bhabha.

Karnail Singh.

N. K. Suntook.

S. Jagannathan (*Government Director*).

Manufacturers of "Tata-Mercedes-Benz" Diesel-engined truck and bus chassis: Locomotives, Locomotive Boilers; Paper & Pulp Making Machinery; Excavators and earth-moving equipment; a variety of pressure vessels and other welded and fabricated industrial equipment, and a wide range of heavy steel and alloy iron castings.

Sole selling agents for: Mercedes-Benz Industrial & Marine Diesel Engines, Unimog multipurpose tractors, and for the products of Messrs. Krauss-Maffei, West Germany and Messrs. Usines Emile Henricot of Belgium.

Subscribed Share Capital: Rs. 10,00,00,000 (£7,500,000 or $21,000,000).

Debentures: Rs. 5,00,00,000

(£3,750,000 or $10,500,000).

Total annual Sales: About Rs. 28 crores (1959-60).

Labour force: 12,500.

Telegraphic address:—Head Office: "TATALOCO"; *Sales Office:* "TELCOSALES".

Telephone No.: Head Office: 259141; *Sales Office:* 255262-63.

TATA-FISON PRIVATE LIMITED, Registered Office: Bombay House, 24, Bruce Street, Fort, Bombay 1. Head Office: Union Bank Building, Dalal Street, Fort, Bombay 1. Telegraphic Address: 'TATFISON', Bombay. Telephones: 259141 / 252313 / 252314 /254968/254387/ 254144.

Directors :

P. A. Narielwala (*Chairman*).

A. Wormald.

J. S. Hewitt (*Managing Director*).

P. T. John.

S. S. Khambata (*Alternate Director*).

General Managar: J. C. Dastur.

Formulating, marketing and selling of pest control products for Agriculture, Public Health and Domestic uses.

TATA HYDRO-ELECTRIC AGENCIES PRIVATE LIMITED, Bombay House, 24, Bruce Street, Fort, Bombay.

Directors :—

J. R. D. Tata (*Chairman*).

Sir Chunilal V. Mehta.

J. D. Choksi.

N. H. Tata.

M. G. R. Aitken.

C. H. Campbell.

S. Moolgaokar.

K. C. Bakhle (*Managing Director*).

Secretary:—M. P. Mistri.

Agents for :—

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Andhra Valley Power Supply Co., Ltd.

Tata Power Co., Ltd.

Tel. Address: "THEBAMCO." Phone No. 259141. Code used: Bentley's.

TATA INDUSTRIES PRIVATE LIMITED, Bombay House, 24, Bruce Street, Fort, Bombay No. 1.

Directors :—

J. R. D. Tata (*Chairman*).

N. H. Tata.

J. D. Choksi.

T. V. Baddeley.

Sir Jehangir Ghandy.

D. R. D. Tata.

P. A. Narielwala.

S. Moolgaokar.

K. A. D. Naoroji.

K. C. Bakhle.

R. D. Choksi.

Secretary:—M. P. Mistri.

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Tata Engineering & Locomotive Co., Ltd.

Svadeshi Mills Co., Ltd.

Tata Mills Ltd.

Tata Oil Mills Co., Ltd.

Tata Chemicals Ltd.

Secretaries & Treasurers for :—

Ahmedabad Advance Mills Ltd., Central India Spg. & Wvg. & Mfg. Co., Ltd., Indian Hotels Co., Ltd.

Corresponding Firms :—

Tata Limited, 18, Grosvenor Place, London, S.W. 1. Tel. Address: "TATALD."

Tata Incorporated 425, Park Avenue, New York, 22, N. Y. Tel. Address: "TATAINC."

Codes used—Bentley's.

Telegraphic Address: "TATAIND." Phone No. 259141.

THE TATA IRON & STEEL COMPANY LTD.

Managing Agents: Messrs. Tata Industries Private Limited.

Registered Office: Bombay House, 24, Bruce Street, Bombay 1.

(Telegraphic Address: "Ironco." Phone: 259141).

Calcutta Office: 23-B, Netaji Subhas Road, Calcutta 1.

(Telegraphic Address: "Tatairon." Phone: 22-2341).

Jamshedpur Office: (Telegraphic Address: Tatairon).

Steel Works: Situated at Jamshedpur, Bihar.

(Rly. Stn.: Tatanagar, South Eastern Rly.).

(Telegraphic Address: "Ironco").

Head Sales Office: 23-B, Netaji Subhas Road, Calcutta 1.

(Telegraphic Address: "Ironco." Phone: 22-2341).

Directors :

J. R. D. Tata (*Chairman*) (*Special Director*).

J. D. Choksi (*Vice-Chairman*).

Sir Chunilal V. Mehta.

Sir Cowasji Jehangir.

Dharamsey Mulraj Khatau.

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Neville N. Wadia.

Sir Fazal Ibrahim Rahimtoola.

Sir Jehangir Ghandy (*Special Director*).

S. Bhoothalingam (*Govt. Director*).

Arvind N. Mafatlal.

S. S. Khambata.

Head Office—

Agent : J. J. Bhabha.

Calcutta & Jamshedpur Offices :—

Director-in-Charge: Sir Jehangir Ghandy.

Agent : R. S. Pande (Jamshedpur).

Joint Agent : K. Khosla (Jamshedpur).

General Manager: N. J. Haley (Jamshedpur).

Deputy Agent : R. H. Mody (Calcutta).

Sales Manager : K. J. Cleetus (Calcutta).

Manufacturers of Coke, Pig Iron, Ferro Manganese, Ingots, Blooms, Billets, Slabs, Sheet Bars, Tin Bars, Sleeper Bars, Rails, Steel Sleepers, Wheels, Tyres and Axles, Structural Shapes, Bars, Plates, Sheets (Black and Galvanised), Skelp, Strip, Electrical Steel Sheets, Pick-axes, Powrahs, Beaters, Crow Bars, Hammers, Shovels, etc. Sulphuric Acid, Coal Tar, Sulphate of Ammonia, Benzol, Benzene, Toluene, Crude Naphthalene, Spent Oil, Bottom Sludge, Solvent Naphtha.

TATA OIL MILLS CO., LTD., *Head Office :* Bombay House, 24, Bruce Street, Fort, Bombay 1. *Mills :* Bombay, Calcutta and Tatapuram (Kerala State).

Tel. Address : "Tatoils." Phone : H. O. 259141.

Manufacturers of vegetable oils, oil-cakes, refined and hydrogenated oils, washing and toilet soaps, perfumes, colognes and other toilet preparations, essential oils, detergents, and chemically pure and Industrial Glycerine.

TATA SONS PRIVATE LTD., Bombay House, 24, Bruce Street, Fort, Bombay 1.

Directors :—

J. R. D. Tata (*Chairman*).

Lady Ratan Tata.

N. H. Tata.

J. D. Choksi.

D. R. D. Tata.

Sir Jehangir Ghandy.

Secretary—M. P. Mistri.

Corresponding Firms :—

Tata Limited, 18, Grosvenor Place, London, S.W.1. Tel. Address: "TATALD."

Tata Incorporated 425, Park Avenue, New York, 22, N.Y. Tel. Address: "TATAINC."

Codes used—Bentley's.
Telegraphic Address : "TATASONS."

Phone No. 259141. P.O. Box No. 186.

TECALEMIT (INDIA), LTD., *Managing Agents :* Heatly & Gresham Ltd., Specialists in Garage Service, Motor Trade, Railway, Agricultural, Industrial and Marine Lubricating Equipment.—London, Calcutta, Bombay, Madras and New Delhi.

Bombay Office :—9, Forbes Street, Fort. Phones : 255756 & 255757. Grams : "Tecalemit."

Manager : M. M. Bharucha.

Assistant : A. S. Zuzwartt.

Techno-Chemical Works, Sion, Bombay 22. Manufacturers of Spirit-Denaturants, Bleached Shellac. Phone : 63015. Telegrams : "Teknokemi," Bombay, Sion.

TECHNO-INDUSTRIAL SYNDICATE, Sole Distributors for W. Marshall (Hessle) Ltd., Through the Cement Marketing Co., Ltd., England and N. V. "Lithos," Holland. Commission Agents, Exporters and Importers of Heavy & Industrial Chemicals, Oils, Pigments & Paint materials, 19B, Noble Chambers, Parsee Bazar Street, Fort, Bombay. Phone : 251220. Tel. Address : "Teinsy."

TEDDINGTON CHEMICAL FACTORY PRIVATE LTD., Manufacturers of Biological and Pharmaceutical Products, Suren Road, Andheri. Office : P.O. Box 229, Fort, Bombay. Sole Distributors : Rallis India Ltd., Pharmaceutical Division, 21, Ravelin Street, Bombay. Phone : 262994.

Tek Trading Corporation, Glass & Plywood Merchants, 139, Abdul Rehman Street, Bombay 3.

Tempo Industrial Corporation Private Ltd., Laboratory & Scientific Apparatus Manufacturers, Devkaran Mansion, 1st Floor, 79, Princess Street, Bombay 2.

TERRA TRADING CORPORATION, Stockists of Electrical Accessories, German & American Lighting Fittings, Conduits Fittings, Wires & Cables, Starters & Switchgears. Lohar Chawl, Bombay 2. Phone : 20479. Grams : "TERRA".

TESTEELS LIMITED, Manufacturers, Structural, Mechanical, Chemical Engineers and Founders.

Regd. Office : New Commercial Mills Co. Ltd. Compound, Naroda Road, Ahmedabad.

Bombay Office : Prospect Chambers, 317-21, Dr. Dadabhai Naoroji Road, Bombay 1. Phone : 253257 and 251352. Grams : "RAILEQUIP."

Works at : 1, Ullahasnagar, opp. Vithalwadi Station (C. Rly.), near Bombay. Phone : Kalyan Camp 36.

2, Dehgam, Ahmedabad District.

Board of Directors :—

Ratilal Nathalal (*Chairman*).

Pranlal Bhikhabhai.

Kantilal Nathalal.

Bhagubhai Chandulal.

Jayantilal Bhikabhai.

Y. Makita.

Indravadan Pranlal.

Babubhai Chimanlal Munshaw.

K. Honda.

General Manager (F):—J. C. Dutta Guptta.

Commercial Manager & Secretary :—D. V. Vasa.

TEXDYES CORPORATION, Manekji Wadia Building, 127, Mahatma Gandhi Road, Bombay 1. Phone No. 251873. Grams : "DREAMS." Sole Distributors for ARLABS LIMITED. Proprietors of Associated Research Laboratories, Manufacturers of Dyestuffs since 1940.

TEXSPIN PRIVATE LIMITED, 110, Medows Street, Fort, Bombay 1. Dealers in Textile machineries and spares. Specialising in Textile machinery, from Fibre to Fabric. Phones : 255701, 255702 & 89097 (Res.). Grams : "MAXSPIN".

Textile & Timber Traders, Dealers in Timber, Mill Gin Stores. Specialising in Shuttles, Bobbins, Pickers, etc. Medows House, Medows Street, Fort. Phones : 252666 and 78319 (Lakri Bunder Depot).

TEXTILE MACHINERY CORPORATION LTD., Head Office : Belghurria, W. Bengal. Bombay Office : Annie Besant Road, Bombay 18. Manufacturers of all type of Spinning Machineries such as Ring Frames, Doubling Frames, Carding Engines, Drawing Frames, Simplex Fly Frames and spares such as spindles, Rings, Fluted Rollers etc. and Boilers. Sole Selling Agents of Spinning Machinery for Messrs. Howa Machinery Ltd., Japan. Sales Offices at : Bombay, Coimbatore and Kanpur.

TEXTILE PAPER & TIMBER INDUSTRIES PRIVATE LTD., Saki Vihar Road, Powai, Bombay 70. Manufacturers of all types of Paper Cones, Plasticised and Bakelised Ring Spinning Paper Tubes, Chuse Tubes, Slaves, Wooden Bobbins etc. for Rayon, Cotton & Woollen Industries. Manufactured on completely Automatic Machinery.

Textile Stores & Hardware Mart, Engineers, Contractors & Shipchandlers, 127, Narayan Dhuru Street, Bombay 3.

TEXTILE SUPPLIES SYNDICATE (INDIA) PRIVATE LTD., Textile Engineers, Consultants and Suppliers, India House (1st Floor), Opp. G.P.O., Bombay. Tel. Address : "Goodbelt". Phone No. 26-3564.

Branches:—Ahmedabad, Coimbatore (S.I.), Kanpur and Trivandrum (S.I.).

THACKER & CO. LTD., Booksellers, Printers, Publishers, Stationers, Subscription Agents. Rampart Row, Fort, Bombay 1. Grams : "Booknotes". Phone Nos. : 252613 & 252722.

Thakorlal & Co., Asbestos Products, Hardware & Pipe Fittings Merchants, 47, Nagdevi Cross Lane, Bombay 3.

Thakurdwar Brass Works. Builders' Hardware Mfrs., Office : Surya Mahal, Thakurdwar, Bombay 4.

Thana Electric Supply Co. Ltd., Court House, opp. St. Xavier's High School, Dhobi Talao, Bombay.

THANA TEXTILE ROPE WORKS, "Sun Brand" Pink Ply Cotton Rope Manufacturers and Merchants. Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Grams : "ROPEDRIVE." Works : Bombay-Agra Road, Thana (C. Rly.).

THANAWALA, B., & SONS PRIVATE LTD., Manufacturers of "National" Cotton Driving Ropes & Spindle Tapes, etc., 47, Tamarind Lane, Fort. Tel. No. 253735 and Factory Tel. No. 64/1040. Tel. Address : "Enginerope."

Thanawala, M. J., & Co., M. Best Cotton Rope Manufacturers, 47-49, Forbes Street, Fort.

The Hindustan Tyres Private Ltd., Manufacturers of all kinds of Rubber and Ebonite goods and Retreaders of Tyres, Lamington Road (North), opp. Agripada Police Station, Bombay 11. Phone No. 42821. Tel. Address : "Tyres."

THE INDIA GENERAL ENGINEERING CO., PRIVATE LTD., Dealing in Electrical & Mechanical Machines, Accessories and Equipment, Lathes, Drilling Machines, Welding Generators & Transformers, Electric Motors, Starters, Pumps, Diesel Engines, Diesel Generating Sets, etc.

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Available from stocks. 21, Forbes Street, 1st Floor, Fort, Bombay. Phone: 254657, Grams: "INDIGENE".

THE METAL BOX COMPANY OF INDIA LTD. 249, Worli Road, Bombay 18, Post Box No. 6555 (for details of Products manufactured See West Bengal Section).

THERAPEUTICS CHEMICAL RESEARCH CORPORATION, ANALYSERS AND SAMPLERS. Chain of Laboratories. Research, Biochemical, Bacteriological, Pharmacological, Analytical and Standardisation. Foods, Drugs, Chemicals, Fertilisers, Insecticides, Paints, Oils, Ores, Minerals, etc., 95, Morland Road, Byculla, Bombay 8. Phone: 74631. Grams: "THERASERCH". *Branch Laboratories:* Morey Bhuvan, Mount Road Extension, Nagpur; Phones: 4552 & 3405; Grams: "THERASERCH"; Rustom Mahal, 2nd Line Beach, Madras. Phone: 55678; Grams: "THECHERECO"; 9/5, Kumara Park, West Extension, Bangalore 20. Phone: 70823, Grams: "THERASERCH"; 17/1, Main Road, Visakhapatnam 1. Phone: 50, Grams: "THERASERCH". *Branch Offices:* Calcutta, Masulipatnam, Cuddalore, Bellary, Bhavnagar, Kandla, Okha, Redi Port, Karwar, Mangalore and Cochin.

Thermo Electric Equipment Co., Electrical & Scientific Instruments Mfrs. Commercial Chambers, Musjid Bunder Road, Bombay 3.

Theosophy Co. (India) Private Ltd., Theosophy Hall, 40, New Marine Lines, Fort, Bombay. Phone No. 242354. Tel. Address: "Aryahata."

Thos. W. Ward (India) Ltd., Engineers, Specialising in Industrial Equipment. Marshall Building, Ballard Road, Bombay.

THOMPSON COMPANY PRIVATE LTD., J. WALTER, International Advertising and Merchandising Consultants, Lakshmi Building, Sir Pherozeshah Mehta Road. Edward J. Fielden, Managing Director. Branches at Calcutta, Kanpur, Delhi, Madras, Bangalore, Colombo and Offices throughout the world.

Tel. Address: "Thomertwal." Phone No. 26-4531 (10 lines), P.O. Box 541, Bombay.

THOMSON & TAYLOR LTD., Department Store, 177-119, Mahatma Gandhi Road, Bombay 1.

Telephones: 252411 & 251782.

Telegram: "DEODARANT".

Departments:—

Pharmaceuticals

Provisions

Leather Goods

Readymade Garments

Hosiery

Ceramics

Electrical Appliances

Jewellery

Perfumes

Crockery & Cutlery

Handloom & Sarees

Cotton Textiles, etc.

TIDEMAND & CO. (INDIA) PRIVATE LTD., Liner & Trampship Agents. India House, Fort Street, Post Box 1333, Bombay 1. *Branches:* (1) Visakhapatnam, (2) P 15, Bentinck St., Calcutta. Sub-Agents at all Indian Ports. Tel. & Cable: "TIDEMANDCO"—at all places. Telephone: Bombay 264751 (4 lines), Calcutta 235177, Visakhapatnam 448.

Timber Wood Syndicate, Timber Merchants, H. O.: Ghodbunder Road, Andheri, Bombay. Branch: Husaini Lakda Bazar, Bellasis Road, Bombay 8.

"TIMES OF INDIA," THE (See Bennett, Coleman & Company, Ltd.)

Tirathram Kashmirilal (India) Private Ltd., Iron, Steel & Hardware Merchants, 89, Nagdevi Cross Lane, Bombay 3. Phone: 20446 (*Office*) & 212447 (*Res.*). Grams: 'Girders'.

T. MANEKLAL MFG. CO. LTD., Manufacturers of "BENNINGER-MANEKLAL" Jiggers & Mercerizers, 'SLM-MANEKLAL' Rotary Air Compressors Vacuum Pumps, Water-ring pumps, roots blowers and diesel Engines of High H.P. Sole Concessionaires in India for Swiss Locomotive & Machine Works, Winterthur (Switzerland). Vaswani Mansions, Dinshaw Vachha Road, Opp. K. C. College, Churchgate Reclamation, Bombay 1.

Phone Nos.: 245091 (3 lines). Telegrams: "TEXRUBBER".

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Trapinex (Eastern) Private Ltd. Transfer Manufacturers; Specialists in Screen printing, show-cards, etc. Managing Directors: Dinshaw A. Dhunjibhoy and Minoo Dinshaw. Marshall's Building, Ballard Road, Bombay. Phone Nos. 26-2281 & 26-2282 (Office) & 29333 (Factory).

TRIBHOUBANDAS BHIMJI ZAVERI, (Estd. 1851). Leading House for Gold, Diamonds & Silver Ornaments & Presentation Novelties. Phone: 23741. Grams: "BARGOLD". 241-43, Sheik Memon Street, Bombay 2.

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Transacts Fire, Marine, Workmen's Compensation, Burglary and Motor business.

Trivedi, S. G. Merchants, Govt. Contractors. 90, Nagdevi Street, Bombay 3.

Triumph Industrial Corpn., P.O. Box No 6477, Bombay 16. Gram: "TRINCO" (Mahim) Bombay.

Trivedi, R., & Co., Indentors of Iron & Steel, Steel Wires of all kinds, Pipes, Exporters of Copper Wire, Crude Drugs & all kinds of Indian Produce, Myrobalans & Spices and Minerals Bauxite etc. Lalsingh Building, Lohar Chawl, Bombay No. 2. Tel. Address: "Winningcup." Phone: 39371.

Tropical Engineering Co., Engineers & Machinery Merchants, 21, Forbes Street, Bombay 1.

Tropical Traders, Stockists of Handloom, Textile & Silk Mills Stores. 485, Kalbadevi Road, Bombay 2.

T. T. KRISHNAMACHARI & CO., Importers, Exporters and Manufacturers' Representatives. *Bombay Office:* Vulcan Insurance Building, Veer Nariman Road, Churchgate Reclamation, Bombay 1. Phone: 24-2181 & 24-2182. Grams: "WATSHEF". *Branches at:* P.O. Box No. 884, Calcutta; P.O. Box No. 162, New Delhi; *Depots at:* Bangalore, Ernakulam, Vijayawada, Kanpur, Ludhiana, Hyderabad, Nagpur, Ahmedabad and Gauhati. *Head Office:* 331-333, Thambuchetty Street, Post Box No. 200, Madras 1.

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Turf Electric Co., Cama Building, 24-26, Dalal Street, Fort. Tel. Address : "Turfelec."

TURNER, HOARE & CO., LTD., Engineers. *Head Office :* Gateway Building, Apollo Bunder, Bombay 1. *Branch Offices :* Kapasia Bazar, Ahmedabad ; 207, Lower Circular Road, Calcutta ; 10, Parliament Street, New Delhi ; 175/1, Mount Road, Madras. *Directors :* K. C. Mahindra, A. D. Shroff, H. C. Mahindra and Keshub Mahindra ; *General Manager :* N. Kureishi ; *Secretary :* P. N. Mistry ; *Assistants :* R. K. Khurana, K. R. Diwanji, D. Nath, M. K. Pundlik and W. Thomas.

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B. E. & Pumps Pvt. Ltd., Calcutta (Pumps & Pumping Sets).

Baume & Marpent, France and Belgium. (Carriages, Wagons, Wheels, etc.)

Burn & Co. Ltd., Calcutta. (Burn Capital Twist Drills).

Compactors Engineering Ltd., London (Concrete Vibrators and Soil Compactors.)

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George Elliot & Co., Ltd., Cardiff. (Wire Ropes.)

J. Harrison Carter Ltd., Dunstable (U.K.). (Disintegrators.)

Hartleys (Stoke-on-Trent) Ltd. (Sewage Machinery.)

Hibberd, F. C., & Co., Ltd., London. (Diesel Locomotives.)

Holophane Ltd., London. (Illuminating Specialists.)

Houchin Ltd., London. (Alternators.)

Hugh J. Scott & Co., (Belfast) Ltd., Belfast (Elec. Motors & Generator Sets).

Foamite Ltd., London (Fire-Extinguishing Appliances.)

Joseph Evans & Sons Ltd., England. (Reciprocating Pumps.)

Leeds Meter Co., Ltd., Leeds. (Water Meters.)

The Leeds Meter Mfg., Co. Ltd., Bombay. (½" & ¾" Water Meters).

Maschinenfabrik Otto Kaiser, W. Germany (Concrete Mixers, etc.)

National Gas & Oil Engine Co., Ltd., Ashton-under-Lyne. (Horizontal, Vertical Diesel Engines, Marine and Gas Engines.)

Outillage VALDOR, S. A., Paris (Small Electric tools.)

Pulsometer Engineering Co. Ltd., Reading. (Pumps of all kinds.)

Reavell & Co., Ltd., Ipswich. (Air Compressors.)

Reddaway, F., & Co., Ltd., Manchester. ("Camel Hair" and Cotton Belting. Fire Hose and Rubber Goods, etc.)

Radio & Electricals Mfg. Co., Ltd., Bangalore (House Service Meters).

Sayaji Iron & Eng. Co., (Pvt.) Ltd., Baroda (Concrete Mixers, Mortar Mills, etc.

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Director—Bombay : D. M. Jaffray.

Assistants, Bombay: M. V. Bhave (Holds Power of Attorney) and J. T. De Lorme.

Managing Agents—Alcock Ashdown & Co., Ltd.

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Correspondents—Messrs. Geoffrey Turner & Co., Ltd., 7, St. Helen's Place, Bishopsgate, London.

Codes used—A.B.C. 6th Edition, Bentley's, Bentley's Second, Scott's, Boe Old and New and Private. Tel. Address : "Morrisons." Phone Nos. 251321/6 (Six Lines). P.O. Box No. 194.

20th Century-Fox Corp. (India), Private Ltd., Metro House, Mahatma Gandhi Road. Tel. Address : "Centfox." Phone No. 241221 (Two lines). Post Box No. 765.

Tyabally Dawoodji (Estd. 1865), 87, Sarang Street, Bombay 1 ; Phone : 34862. Grams : "FOOTRULES".

TYRESOLES CONCESSIONAIRES PRIVATE LTD., Regd. Office.—Ewart House, Bruce Street, Bombay 1. Phone : 252261. Factories : Bombay. Phone: 60377, Delhi 51583, Jullunder 2830.

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Union Assurance Society Ltd., 9 Wallace Street, Bombay 1.

UNION CARBIDE INDIA LTD., Manufacturers of "Eveready" Products. Lakshmi Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phones : 264521 & 264522. Grams : "Eveready".

UNION INSURANCE SOCIETY OF CANTON, LTD., Hongkong Bank Building, Veer Nariman Road, Fort, Bombay 1. (Fire—Marine—Motor—Accident & General).

Union Press, all kinds of printing undertaken, 13, Homji Street, Fort.

Union Scientific Syndicate, Scientific & Laboratory Instruments Merchants, 71, Princess Street, Bombay 2.

Union Trading Co. (Bombay) Ltd., Manufacturers' Representatives & Provision Merchants, Arya Bhuvan Building, Graham Road, Ballard Estate, Fort.

Unique Motor & General Insurance Co., Noble Chambers, Parsee Bazar Street, Bombay 1.

Unique Trading Corporation, 221, Sheriff Devji Street (Chakla), Bombay 3. Phone : 30011. Grams : "Unilab." Importers & Stockists of Scientific Apparatus, Laboratory Glassware, Authorised Distributors for "Whatman" Filter Papers.

UNITED COLOUR COMPANY. (Mfg. Divn. : Ramson Paint Mfg. Corp.) Manufacturers of 'RAMSON' Nitrocellulose Lacquers, Synthetic Enamels, Industrial finishes and Auxiliaries. Kastur Nivas, 26/A, French Road, Bombay 7. Phone : 73862. Grams : "STEPONIT". Factory at Thana. Phone : 64/1122, Thana.

United Cottage Industries, Manufacturers of Ladies' Handbags, Plastic & Leather Goods, near Central Bank Ltd., Abdul Rehman Street, Bombay 3.

United Engineering Corpn., 5, New Queen's Road, Bombay 4.

United Glass Works Private Ltd., Glassware & Bottles Mfrs., 111, Bhandari Street, Bombay 3.

United Importers Corporation, Toys Importers & Wholesalers, Phalton Road, Bombay 1.

UNITED INDIA ENGINEERING CO., Engineers & Machinery Dealers, *Office :* 6, Commerce House, 140, Medows Street, Fort, Bombay. P.O. Box 1571. Phone No. 251492. Tel. Address : "Uniconaram". Showroom : 78, Old Custom House Road, Fort, Bombay.

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United India Life Assurance Co., Ltd., United India Life Building, Sir Phirozshah Mehta Road, Fort.

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UNITED PHARMACEUTICAL COMPANY, 157-59, Girgaum Road, Bombay 4. Manufacturers of Pharmaceutical Preparations and Branded Specialities. Phone: 22612. Grams: 'CALDION', Girgaon, Bombay.

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Universal Calendar Co., Calendar Mfrs., Hamam Street, opp. Post Office, Bombay 1.

Universal Electric Co., Stockists of G.E.C. Products, 73-75, Lohar Chawl, Bombay 2. Phone: 23744. Grams: "Cabtyre."

Universal Export & Import Co., Behind Roxy Cinema, Swadeshi Mills Estate, New Queen's Road, Bombay 4. Agent for: Starline Chinese Lacquer Paints: Dakin Bros. Ltd., London, for Drugs & Chemicals. Phone No. 27246.

Universal Metal Refinery Co., Churiwadi Goregaon, East, Bombay 62. (*For details see Index to Advertisers.*).

Universal Minerals & Chemical Co., 7/10, Horniman Circle, Fort, Bombay 1. Phones: Office: 255110 and 254145. Grams: "UNIVERSAL". Dealers & Manufacturers of Minerals for Paint, Rubber, Textile, Engineering, Paper & Glass.

Universal Scientific Co., Scientific Instruments mfrs. Parekh Street, Bombay 4. (*For details please see " Scientific Instruments"*).

UNIVERSAL TRADING CO. (Estd. 1947), 346, Kalbadevi Road, Bombay 2. Phone: 39717. Grams: "GOLDRUSH." Importers, Exporters & Agents. Exporters of Cotton, Cotton Piecegoods, Woollen, Art Silk and Fancy Goods, Hosiery, Wearing Apparels, Glassware, Crockery, Leather goods of all kinds, etc., etc.

Universal Trading Company, Mohamedi House, 79, Mohamedali Road, Bombay 3. General Hardware Merchants and Order Suppliers. Grams: 'IRONMART.'

Universal Typewriter Co., Typewriter Sellers & Repairers. 31, Nawab Bldg., Dr. D. N. Road, Bombay 1.

Upadrasta & Sons, Consulting Engineers and Machinery Merchants. Bennet House, 48/50, Forbes Street, Fort, Bombay 1. Branch: 1, Durga Bhavan, Rashtrapati Road, Secunderabad. Grams: "Upadrasta". Phone: 254457. Managing Partner: U. M. Rao. Consulting Engineers: T. K. R. Ayengar, B.A., M.I.E.E. (London), U. N. Rao, B.Sc. Eng. (Glasgow).

Usha Agencies, Importers and dealers in machinery spare parts. Ground floor, Fort Chambers, 65, Tamarind Lane, Fort, Bombay 1. Grams: "Dozwell". Phone: 251764.

Usha Dyeing, Bleaching & Printing Mills, Private Ltd., Agra Road, Vikroli, Greater Bombay.

Usha Trading Co., Drawing Material Stockists, Naigaum Cross Road, Bombay 14.

Vadilal & Co., Marble & Tiles Merchants. 485, Duncan Road, Bombay 4.

Vallabhdas Mohanlal & Co., Exporters of Textiles, Hosiery, Spices, Ghia Building, Princess Street, P.O. Box No. 2200, Bombay 2. Phone: 23993. Grams: "Vallabhco."

Valabhdas Tejpal, Spices, Cloves, Gums, Asafoetida, Musk, Ambergris, Saffron, etc., 219, Vadgadi, Bombay 3. Phone No. 23478. Tel. Address: "Battlement."

Valimohamed Haji Ahmed & Co., Timber Merchants & Contractors. 146, Victoria Road, Bombay 27.

V. Amratlal & Co., Iron & Steel Suppliers, Carnac Bunder, Bombay 9. Phone: C/o. 22643. Grams: 'SCOTCHIRON.'

V. Jamnadas & Co., Woollen Piece-goods Merchants, 91-92, Mangaldas Market, 2nd Lane, Bombay 2.

Van Reekum Gepacy Paper, Ltd., Importers of all kinds of Paper Board & Pulp. Shale Building, Bank Street, Fort, P. B. No. 862, Bombay 1.

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Homji Street, Fort,
Bombay.
Office Phone: 255168.
Factory: 67353.
Grams: " VARIAMINE ".

VARIETY (AGENTS) PRIVATE LTD., 15, Cawasji Patel Street, Fort, Bombay 1; Phone: 254453; Agents in India for Robert Zapp-Fortuna GmbH. Alloy and Special Steels: Branches—Plot No. 465, Scheme 47, C.I.T. Calcutta 29. Phone: 465712. 11/12, Second Line Beach, Madras 1, Phone: 4183, Cables all Offices: "ZAPPALLOY".

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VARTAK, B. B., The premier house for all Photographic requirements, Developing, Printing, Enlarging and Expert Camera Repairs, Portraits and Group Photo Studios, 187, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay 1. Phone No. 262915.

VASANT INDUSTRIAL & ENGINEERING WORKS, 470-71, Worli Road, Bombay 18. Manufacturers of Textile dyeing, bleaching, printing and finishing machineries, Oil mill machineries, chemical & dyestuff plants, alcohol distilleries and continuous types solvent extraction plant.

Vasantrai Goverdhandas & Bros., Importers, Exporters and Agents, 75, Mohamedali Road, Bombay 3. Phone: 28208. Grams: "VIGIBROS".

Vasav & Company, Dealers in Chemicals and Sizing Materials. Vadgadi, Bombay 3.

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Vasi Shums & Co., Private Ltd., Mill & Sugar Factories Stores Suppliers, 165/67, Nagdevi Street, Bombay 3. Phone: 39947. Grams: "WIREROPE". Sole Selling Agents in India for 'COMPOFLEX' suction and delivery Hoses for Water, Oil & Gas. Sole Agents for Bombay State for G.P.I.F. Brand water meters.

Vaswani (India) Private Ltd. 496, Kalbadevi Road, Bombay 2. Phone: 38082/3. Cable: "VASWATRAD". *Exports*:—Manganese & Iron Ores, Textiles, Hosiery, etc. *Imports*:—Silk & Art silk Piece-goods and Yarn etc.

VAZIR GLASS WORKS LTD., Manufacturers of Quality Glass Bottles and Glassware. Aerated Water Bottles a Speciality. 9, Wallace Street, Fort, Bombay. Phone: 26-3031. Grams: "SEVNETSIX."

Velji Kalidas & Sons, Importers & Exporters and General Merchants. 177, Samuel Street, Bombay 9.

VELU & Co. (Pvt.) Ltd., P. K.
111, Mahatma Gandhi Road,
Bombay 1.
Phones: 25-3141, 64-1277.
Grams: "LACQUER", Bombay
For
Solvents, Plasticisers and Chemicals.

Vog & Co., Watch Straps & Bracelets Mfrs., Empire Bldg., D. Naoroji Road, Bombay 1.

Vensimal Bassarmal & Bros., Travel Agents, 521, Kalbadevi Road, Opp. Edward Cinema, Bombay 2. Phones: 38233/4/5.

Vermit Co. (India), Manufacturers and Importers of Insecticides, Disinfectants, Detergents and Polishes, 107, Wodehouse Road, Bombay 5. Phone: 211723.

Vertex Manufacturing Co., Private Ltd., Manufacturers of Hardware, Door & Window fittings. 9, Wallace Street, Fort, Bombay 1.

Vibgyor (India) Private Ltd., 143, Mahatma Gandhi Road, Bombay 1. Phone: 254064. Grams: 'VIBGYOR.' Engineers, Contractors, Painting Specialists and Interior Decorators. Agents for Bombay Paints & Allied Products Ltd., Hemple's Marine Paints (Denmark).

VICTOR TRADING & ENGINEERING CO. PRIVATE LTD. (Estd. 1919). Manufacturers' Representatives, Commission Agents and Manufacturers of Textile Auxiliaries. Victor House, Jacob Circle, Bombay 11. Phone: 40010. Grams: 'CATALYSIS'.

Victory Flask Co., 165, Chakla Street, Bombay 3.

Vijay Bakelite Trading Co., 8, Chakla Street, Bombay 3. Phone: 30145. Grams: 'BESTCAP.' Manufacturers and distributors of all kinds of caps, and stoppers made of Bakelite, Polythene, Plastic & Rubber.

Vijay Engineering & Machinery Co., Shop No. 9, Bombay Mutual Annexe, Cowasji Patel Street, Fort, Bombay.

Vikram Padamsey & Co., Rustom Building, 29, Veer Nariman Road, P.O. Box 818, Fort. Tel. Address: "Vaxin." Phone No. 255227. Importers of Chemicals, Drugs, Pharmaceutical Products, etc., Exporters of Gums, Spices and other Indian raw produce. Head Office: Bombay. *Depots:* Madras, Delhi, Calcutta.

Vinay Calendar Co., Colour Printers, Lithographers & Packing Specialists, 104, Ardeshir Dady Street, Bombay 4.

Viram Ladha & Co., Cotton Importers and Exporters. 288, Narsi Natha Street, Bombay 9. Tel. Address: "Viriadha."

VISHWA BHARATI TRADING CO., 14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phones: 264555 and 263795. Grams: 'VIBHACO.' *Branch:* G.P.O. Box 2628, Calcutta 1. Phone: 345693. Grams: "ARCWELD". Mfrs. of Welding Equipments, Acetylene & Oxygen Gas Generators, Metals joining equipments, Soldering and Brazing equipments, Safety-wear for Industrial Workers, Gloves, Goggles, Dust Protection Respirators, Aprons, etc.

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Vithaldas P. Mehta, Iron & Stainless Steel Merchants. 71/73, Old Hanuman Street, Bombay 2.

VITRUM PRIVATE LTD. (Proprietors of Vitrum Glass Products), Manufacturers of Glass Bottles and Jars for the Pharmaceutical, Cosmetic and other Industries and of Glass Mosaic Tiles. *Factory:* Bombay-Agra Road, Vikhroli, Bombay 79. Phone: 67243. *Registered Office:* Hanvant Bhuwan, Nepean Sea Road, Bombay 6, Grams: "VITGLASS".

VITRUM STUDIO & SHOWROOM, Rutton Villa, 143-B, Cumballa Hill (Opp. Parsi Sanatorium), Bombay 26. Artistic ceramics (hand-painted single tiles & combinations of tiles for murals & table-tops, plates, etc. Phone: 73912.

Vivid Industries, Manufacturers of Lacquers, Thinners and Industrial Finishes. *Office:* 17, Gilder Lane, Off Lamington Road, Bombay 8. *Phone:* 72621. Grams: "VIVIDCOLOR". *Works:* 24, Rear Dr. Anandrao Nair Road, Bombay 11.

VOLKART BROTHERS, Volkart Building, 19, Graham Road, Ballard Estate, Bombay 1. Post Box No. 199. Telegram: "VOLKART". Telephone: 261531 (8 lines). Swiss Firm, Established 1851.

Managers: E. Kuebler, A. Vogt.

Partners: Peter Reinhart, Balthasar Reinhart.

Head Office: Winterthur (Switzerland).

Branch Offices: Bombay, Cochin, Tellicherry, Madras, Calcutta, Karachi, Chittagong, Colombo.

Departments: Cotton, Cotton Futures, Cotton Waste, Export (Essential & Vegetable Oils, Coir Yarn, Fibres, Coffee, etc.), Shipping and Insurance Agents.

Codes: Universal Trade Code, Bentley's Complete Phrase, Bentley's Second, A.B.C. 6th Edition.

Corresponding Offices: Volkart Brothers (U.K.) Ltd., London, Liverpool.

Volkart G.m.b.H., Bremen 1;

Volkart Brothers Inc., New York, Memphis, Dallas, Brownsville, Atlanta, Pasadina, Gastonia, Boston;

Volkart Irmaos Ltda., Sao Paulo, Santos;

Volkart Hermanos de Mexico S.A. de C.V., Torreon, Cd. Obregon;

Agencias Volkart S.A., Mexico City;

Nichizni Trading Co., Ltd., Osaka, Tokyo.

VOLTAS LIMITED, 19, Graham Road, Ballard Estate, Bombay 1.

Head Office:—Bombay 1.

Branches:—Calcutta, Madras, New Delhi, Bangalore.

Offices:—Secunderabad, Ahmedabad. Cochin, Lucknow, Kanpur, Nagpur, Bhopal, Jaipur, Coimbatore, Madurai, Vijayawada and Patna.

Directors:—Messrs. J. D. Choksi (Chairman), B. Reinhart, S. K. Handoo, S. Moolgaokar, K. C. Bakhle, R. F. S. Talyarkhan and P. Gregori.

General Management (Bombay):—S. K. Handoo; *Managing Director & General Manager:* R. F. S. Talyarkhan; *Joint Managing Director & Jt. General Manager:* P. Gregori; *Director & Dy. General Manager:* R. V. Leyden and P. C. Cheryan; *Deputy General Managers Departments:* Agricultural Machinery, Construction Equipment, Air Conditioning and Refrigeration, Electrical, Mechanical, Textile Machinery and Paper Machinery, Machine Tool, Pharmaceutical, Chemicals, Vitamins, Canned & Bottled Food Products and Accessories. Codes used: Universal Trade Code, Bentley's Complete Phrase, Bentley's Second. Tel. Address: "VOLTAS". Phone: 26-8131. Post Box No. 900.

VON KOHORN EASTERN CORPORATION LTD., (Incorporated in the Bahama Islands with Limited Liability), Taj Mahal, Strand Road, Bombay 1. Plant Design and Engineering Services for the Production of Viscose and Acetate yarns, Staple Fibre, Tyre Cord Yarns, Transparent Cellulose Sheeting and Synthetic Fibres. Phone: 212638. Grams: "WORLDRAYON", Bombay.

Vora, J. C., & Co., Dealers in Hardware, Bolts, Nuts & Screws, Automobile Parts & Engineering Stores, Modi Chambers, French Bridge, Bombay 4. Tel. Address: "Godisall."

V. S. & Company, Stockists of Electric Motors, Vee-Belts etc. Commerce House, 140, Medows Street, Bombay 1.

VULCAN TRADING COMPANY (PRIVATE) LIMITED, Indian Mercantile Chambers, Nicol Road, Ballard Estate, P.O. Box 735. Phone: 26-2583 (Seven lines). Branches: Calcutta, Madras, New Delhi, Karachi, Lahore, Colombo, Rangoon and Mandalay.

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Importers and Representatives of :—

Electrolux Refrigerators, Vacuum Cleaners, and Floor Polishers, Bottle Coolers, Kitchen Assistant, ATLAS COPCO Portable and Stationary Air Compressors, Rock Drills, Pneumatic Equipment, Pneumatic Workshop Tools, "SANDVIK COROMANT" (Swedish Make) Tungsten Carbide Tipped Drill Steels and Extension Drilling Equipment, Craelius Diamond Core Drilling Equipment, Diamond Bits and Tungsten Carbide Bits & Reaming Shells, Percussion Drilling Equipment, ALFA LAVAL Dairy Equipment, such as, Milk Pasteurizers, Butter & Cheese making plants, etc. ANHYDRO Evaporating and spray drying plants for milk products and other pharmaceutical & chemical industries, ASTRA Refrigeration equipment for cold storage, GRAHAM ENOCK Bottling Plant which includes Crate Conveyors, Bottle Washers, Bottle Fillers & Cappers, etc. FREDRIKSONS FV Can Washing Machines, Tipping Machines, Chain & Roller Conveyors, Measuring & Filling Equipment, "Weshman" Industrial Oil Burners, Centrifugal Blowers and other Foundry Equipment, "Ka'nga" Tubular Structures, "SAP" hacksaw blades, low tungsten & high speed steel quality, etc. Davenset Battery Changers, Kanthal Electric Resistance Material, AB Arivd Bohlmarks Lampfabrik: Glassware, Shades, Globes and complete lamps, AB Gense: Tableware, Hollow-ware, AB Nordiska Armaturfabrikerna (NAF): High Class Valves of Stainless Steel, Acid Proof Regulators, Steam Traps etc. Bath and Washroom Fittings, Original Odhner Calculating and Adding Machines, Orrefors Glassware, Vademecum Mouth Wash, Printing Inks, Wallboards, various kinds of papers, Uddeholms AB: CMC and Industrial Chemicals, Elektrokemiska AB: Sodium and Potassium Hydroxide A.R. and B.P. grades, Stockholms Superfosfat Fabriks AB: P.V.C. Compounds and Melamine Crystals, Liljeholmens Stearinfabriks AB: Fatty Amines, Amides & Nitriles, Aarhus Oliefabriks A/S: Fatty Alcohols and compounds, Wargons AB: Sodium and Calcium Lignosulphonates, Svenska Oljeslageri AB (SOAB): Synthetic Resins, Aug. Stenman's Screws and Builders' Hardware, Primus Stoves, Blow Lamps and spare parts, Bahco Tools, Husqvarna Motor Cycles, Husqvarna Shotguns & Rifles, Husqvarna Domestic Hardware, Sandvikens Saws, Obergs Files, Also Importers of Ship Chains, Nails, Alloy steels, Laundry Equipment, Vulcanizing Presses for Shoe Industry, Tungsten Carbide Tipped Tools, Welding Equipment, Glass Industry Equipment. Exporters of all kinds of local produce.

Waco.

WESTERN AGENCIES' CO., 421, Lamington Road, Bombay 4. Phone: 71051. Grams: "WESTCOY". Branch: Bangalore. Engineers, Importers & Wholesalers of Radio Components, P.A. Equipment, Electric Appliances, Tele-communication Equipment, Sanyo Transistor Radio.

Waco Radio Electronic Industries, Transistor Radio mfrs., 421, Lamington Road, Bombay 4.

Wadhwani & Co., Provision Merchants & Manufacturers' Representatives, 7-10, Botawala Building, Elphinstone Circle, Fort, Bombay.

Wadia & Co., K.—Jewellers, Diamonds & Precious Stones. 324, Grant Road, Bombay 7. Phone: 71483.

Wakefield Paints Private Ltd., "Dhan-Nur", 15/16, Sir Phirozshah Mehta Road, Bombay 1. Phone: 264061. Grams: "WAKEPAINT". Manufacturers of Paints & Painting Contractors.

WALCHANDNAGAR INDUSTRIES LTD., *Registered Office:* Construction House, Ballard Estate, Bombay 1. Phone: 265471 (5 lines); Grams: "WALSAKHAR". *Managing Agents:* Walchand & Co. Private Ltd. Manufacture Sugar, Complete Sugar Manufacturing Plants, Industrial Plastics Goods, Vanaspati Oil, Rectified and Denatured Spirit. *Farm & Factories:* Walchandnagar, P.O. Walchandnagar, Dist. Poona.

WALL GROCER & COMPANY, Rajbahadur Mansion Compound, 24-B, Hamam Street, Bombay 1. Call: 254590. *Sole Selling Agents:* Mfgrs.: Asha Rubber Industries, Bombay. Manufacturers of Acid and Alkali Proof Industrial, Postmortem, Domestic & Surgeon Rubber Gloves.

WALLACE & CO., Merchants, 9, Wallace Street. Partners: Wallace Brothers & Co. Ltd., Europe; The Bombay Co., Private Ltd., Bombay, and Secretaries and Treasurers of the Bombay-Burmah Trading Corporation, Ltd. Agents for: F. F. Chrestien & Co., Ltd., Union Insurance Society of Canton Ltd., Commercial Union Assurance Co., Ltd. Tel. Address: "ROMFORD." Phone No. 26-3032. Post Box No. 201.

Wallace & Co., J. P., Machinery and all supplies for Textile Mills, Shale Building, 28-32, Bank Street, Fort. Phone: 20829. Grams: "Walpy".

Wallace Flour Mills Co., Ltd., Registered Office: 9, Wallace Street, Fort. Telephone: 26-3281.

Wallace, P. R., & Sons, Ltd, Elphinstone Building, 10, Churchgate Street, Fort.

Ward, Thos. W. (India) Ltd. (Subsidiary of Thos. W. Ward Ltd., Sheffield), Registered Office:—Marshall Building, Ballard Road, Fort, Bombay.

Warden & Co. Private Ltd., Mfrs. of "Security" Brand Waterproof & Worded Paper. 62, Dr. Anandrao Nair Road, Bombay 8.

(*For details please see "Waterproof Paper Mfrs."*).

Watanmal Boolchand, Importer, Exporter & Manufacturers' Agent, 534, Kalbadevi Road, Bombay 2. P.O. Box 2233.

Waterproof Corporation Ltd., Manufacturers of Plain Jute Union and Hessian Cloth, Old Anjirwadi, Bombay 10.

WATERPROOF PAPER MANUFACTURING CO., PRIVATE LTD., Manufacturers of all kinds of Waterproof Paper in Rolls for packing, Textile Goods, Machinery, etc. Alice Buildings, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Factories: (1) Anjirwadi, Mazagon, Bombay 10; (2) Netivali Baug, Kalyan.

Water Supply Specialists Ltd. Sole Agents for Myer's Pumps, 8, Hamam Street, Fort, P.O. Box 684.

WEIL COMPANY, Stadium House, 2nd Floor, Veer Nariman Road, Bombay 1. Phone: 245387. Cables: "WEILETCO". Import Export, Distributors and Manufacturers' Representatives.

Weldwell Electrodes Private Ltd., Mfrs. of Arc Welding Electrodes and Welding Accessories. 341, Tardeo Buildings, Tardeo, Bombay 7. Phone: 71494 (Res.). Grams: "Matahimu".

WEST END WATCH CO., 49, Mahatma Gandhi Road, P.O. Box No. 504, Bombay 1. Watch and Clock makers, Jewellers and Silversmiths. Tel. Address: "HOROLOGY," Bombay. Phone No. 255644.

Western India Engineering Co., Engineers. Contractors and Machinery Manufacturers. Signal Hill Avenue, Sewree, Bombay 15.

WESTERN INDIA ENGINEERING CORP. PRIVATE LTD., Manufacturers' Representatives, Electrical Engineers and Contractors. *Registered Office:* Cama Chambers, 23, Medows Street, Fort, Bombay.

Directors:—D. N. Purandare, Jayant L. Desai and N. N. Purandare.

Phone No. 252610. Tel. Address: "WIECOL."

Western India Hardware Mart, Hardware Merchants & Direct Importers. 16, Narayan Dhuru Cross Lane, Bombay 3. Tel. Address: "Viscosity." Phone: 28730.

WESTERN INDIA MANUFACTURERS' AGENCY PRIVATE LTD., Dealers in Leather Cloth, Oil Cloth and Bus Body Building Materials, 190, R. K. Building, Khetwadi Main Road, Bombay 4. Phone: 71615. Grams: "ARTLEATHER". P.O. Box 574, Bombay 1. Branches: Calcutta, Delhi & Madras.

Western India Match Co., Ltd., The, Match Manufacturers, Indian Mercantile Chambers, Nicol Road, Ballard Estate.

Western India Oil Distributing Co., Ltd. Petrol and Allied Products, Alice Building, Dadabhoy Nawroji Road, Fort. Telephone No. 251531/32. Branch at Madras. Telegrams: "Westoilsco."

WESTERN INDIA TANNERIES LTD., Manufacturers of every kind of Shoe upper and sole leather. Specialists in the manufacture of Textile Leathers, Chrome Picking Bands, Leather Beltings, Buffers, Washers, Roller Skins, Pickers, Laces, etc. Address:—Dharavi, Bombay 17. Phones: 62621 & 62622. Telegrams: "Eastkip."

Western India Trading Co., Hague Building, Sprott Road, Ballard Estate. Stockists of all well-known Printers' requisites. Sole Agents for Coates of India Ltd., Lithographic and Printing Inks. American Type Founders Sales Corporation, World's Largest Manufacturers of types. Hunter Penrose Ltd., Marinoni Offset Machines. Tel. Address: "Sargonco." Phone No. 26-3366.

Western Link Company, Importers, Exporters & Indenting Agents. P.O. Box No. 1200, G.P.O., Bombay 1.

WESTINGHOUSE TRADING CO. (ASIA) LTD., "The International," 16, Queen's Road, Bombay 1. Tel. Address: "Westasia." Phone No. 24-1094. *Vice-President:* Mr. V. M. White. *Regional Representative:* Mr. G. B. Sujan.

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Westrex Company, India, Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box No. 1232, Tel. Address: "Westrex." Phone Nos. 242273 & 242274.

WHARTON, H. W., & CO., PRIVATE LTD., Importers and Manufacturers of Lubricating Oils & Greases, Welding Rods, Toilet papers, Adding Machine Coils, Iron Cement, "Silica Gel" Paints, etc. Alice Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771.

Wheeler, A. H., & Co. Private Ltd., Eruchshaw Bldg., 249, Dr. Dadabhoy Naoroji Road, Bombay 1; 18, Netaji Subhas Road, Calcutta 1, and 15, Elgin Road, Allahabad. Railway Bookstall Proprietors. Agents for Sir Isaac Pitman & Sons Ltd., Publishers, Virol Ltd., Bovril Ltd., and The Biro Swan Ltd., Makers of "BIRO" Ball Point Pens.

London Agents.—Arthur H. Wheeler & Co., St. Stephens House, Victoria Embankment, S.W. 1.

Tele. Address: "BOOKSTALLS—Bombay".

Telephone No. 26-3915, Bombay.

Post Office Box 204, Bombay 1.

WIGGINS TEAPE & ALEX PIRIE (EXPORT), LTD., Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay. Stockists of High Grade GATEWAY Papers manufactured at their Mills in the United Kingdom. Agents for Charles Morgan & Co., Ltd., London, Paper Merchants and L. & C. Hardtmuth (Gt. Britain) Ltd., "Koh-i-Noor" Factory, Somerset, Pencil Manufacturers. Telegrams: "Winchmore." Phone No. 261622.

WILLIAMS, G. & CO. PRIVATE LTD., Steelcrete House, Sir Dinshaw Vachha Road, Backbay Reclamation, Bombay 1. Post Box No. 1736. Phone: 245952. Grams: 'BLANWIRE".

Representing in :—

The Paper, Board, Asbestos Cement Industries and Textiles, Printing and Filtration Trades.

Porritts & Spencer, Ltd., Bury, England. Manufacturing: Paper Machine Felts. All Types of Mechanical Cloths and Filter Cloths.

United Wire Works Ltd., Granton, Edinburgh 5. Manufacturing: Machine Wires & Covers.

W. Green Son & Waite, Winfield Works, Wyndham Road, London, S.E. 5. Manufacturing: Dandy Rolls.

James Bertram & Son Ltd., Leith Walk, Edinburgh 6. Manufacturing: Stock Preparation Paper & Board Machines.

Price & Pierce Ltd., 27, Elements Lane, London, E.C. 4. *Montreal Office:* 1058, Sun Life Building. *New York Office:* 60 East 42nd Street, New York, 17, N.Y. Manufacturing: Canadian, American, Scandinavian Wood pulp.

Vickerys Limited, 4, Lambeth Palace Road, London, S.E.1. Manufacturing: Stock Cleaning System, Felt Conditioners, Doctor Blades, etc.

Ernest Scott & Co. Ltd., Artillery House, Artillery Row, Westminster, London, S.W. 1. Manufacturing: Pulping and Chemical Recovery Plants.

Spooner Dryer & Engineering Co. Ltd., Ilkley, Yorkshire. Manufacturing: Paper Machine Hoods and Coating Dryers.

Langworthy Bros. & Co. Ltd., 12, Charlotte Street, Manchester 1. Manufacturing: Moleskin and Blowing Wrapper Cloths.

Dunlop Rubber Co., Ltd., Post Office Box No. 151, Cambridge Street, Manchester 1. Manufacturing: Rubber Printers' Blankets, Rubber spreading jackets and Rubber Blankets for Controlled Compressive Shrinkage Machines (Sanforizing).

G. Durrant & Sons Ltd., Bury Street, England. Manufacturing: Paper Camber Rollers.

Deloro Stellite Ltd., Highlands Road, Shirley, Solihull, Warwickshire, England. Manufacturing: All kinds of Stellite Faced Knives & Chippers.

Asbestos Corporation Ltd., Shefford Mines, Quebec, Canada. Manufacturing: Asbestos Fibre.

WILLIAMSONS (INDIA) PRIVATE LTD., Textile Mill Stores & Machinery Suppliers, 10, Veer Nariman Road, Fort, Bombay. *Directors:* S. Summersgill, A. Summersgill, K. B. Parekh, B. L. Gupte, A. P. Williamson and L. K. Parekh. Phones: 252415 & 254243. Tel. Address: "BELTMAKERS." Post Box No. 1176. *Secretaries:* Messrs. Gilianders Arbuthnot & Co., Ltd., Bombay and Calcutta. *Branches:* 670/22, Motilal Hirabhai Market, Railwaypura Post, Ahmedabad. 8, Netaji Subhas Road, Calcutta. *Agent:* Mr. A. P. Jaganathan, Coimbatore. Also Messrs. Gillanders Arbuthnot & Co. Ltd., at New Delhi, Madras and Kanpur.

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Abbeydale Engineering Co., Ltd., Rochdale (Eng.). Warp Stop Motions, Droppers.

William Smith & Bros., Ltd., Heywood (Eng.). Looms for Cotton, Silk, Carpets and Blankets.

Gebrs, Prakke N. V., Eibergen, Holland. Chrome Belting, Picking Bands.

Machinenfabrik Arbach, G. Grozinger, 14b, Reutlingen, Germany. Raising, Folding Machines, etc. for Textiles and Hosiery.

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Ernest Scragg & Sons Ltd., and Sydney & E. Scragg Ltd., Macelesfield, Cheshire, England. Manufacturers of complete plants for processing both Natural and Synthetic Yarns, Up twisting, Ring Doubling, Winding Machines, Porcelain and Accessories. Specialities: Crimpspin & Falspin Machines.

Chadwick Machine Co. Ltd., Cleckheaton, England. Cotton Waste and Wool Spg. Machinery.

The Bangalore Woollen, Cotton & Silk Mills Co., Ltd., Bangalore 2. All Wool Sizing flannel, clearer and roller cloths, plaiding cloths, etc.

Wiltshire Dairy Farm, "Win-Villa," 28, Clare Road, Byculla, Bombay No. 8.

Windmere (India) Private Ltd., Importers, Exporters of Cotton and Rayon Piecegoods & Yarn and Commission Agents. 110, Sir Vithaldas Chambers, 16, Apollo Street, Fort. Phone: 252443.

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Y. A. Hazare & Bros., Silversmiths and Machinery Merchants. 1st, Panjrapole Lane, Bombay 1.

Y. A. Mamaji & Son Private Ltd., Motor-Body Fittings Merchants. 136-38, Ibrahim Rahimtoola Road, Bombay 3.

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Y. M. Pathare & Co., Engineers, 41, Medows Street, Post Box No. 1428, Bombay 1.

Yorkshire Insurance Co., Ltd., 10, Bruce Street, Fort, Bombay. Tel. Address: "Yorkshire." Phone No. 25-2321. Post Box No. 842.

Yusufali Goolamhoosen Arsiwalla, Dealers in Glasses, Plywood and Hardboard, Stockists of all kinds of glasses, Window Sheet, Plate, Wired, Ribbed, Figured, Opal, Vitrolite, Triplex, Mirrors, Hardboard, Steel Folding Chairs, etc., 105, Abdul Rehman Street, Bombay 3; Grams: "GLASSAGE."

Zandu Pharmaceutical Works, Ltd., The, Manufacturers of Ayurvedic & Allopathic (including Biological) Products, Gokhale Road (South), Bombay 28.

Zenith Assurance Co., Ltd. Head Office: Mehta House, Apollo Street, Fort, Bombay. Jal H. Mehta, *Chairman*; M. S. Dastur, *General Manager*. Tel. Address: "Zenithlife," Bombay. Telephone No. 252364.

Zenith Electric Stores, Electrical Goods Importers & Stockists, 51, Ahmed Building, Lohar Chawl, Bombay 2.

Zenith Iron Works, Expanded Metal and Iron & Steel Products, 46, Abdul Rehman Street, Bombay 3.

Zenith Safe Manufacturing Co., Lock & Safe Merchants, 249, Kalbadevi Road, Bombay 2.

Zenith Surgical Co., Surgical Goods Merchants. 206, Mangaldas Market, Bombay 2.

ZENITH TEXTILE ENGINEERING CO., Mechanical and Electrical Engineers; Specialists in Heat-treatment and Grinding Work. 250, Ripon Road, Bombay 8. Phone: 42784. Grams: "ZENTEX."

ZENITH TIN WORKS PRIVATE LTD., Manufacturers of Plain & Lithographed Tin Containers & Collapsible Tubes, Opp. Race Course, Clerk Road, Mahalaxmi, Bombay 11. Phones: 70375 & 70376. Grams: "Zenithtins." *Directors:* M. S. Barodawala & S. S. Barodawala. *Res.:* 126-I, Cadell Road, Mahim, Bombay 16. Phone: 62541.

Zenith Varnish Works.—Zenith House, Dhobi Street, Bombay 3. Phone: 30059. Grams: "Zenekcide". Disinfectants, Insecticides & Paint Manufacturers.

Zephyr Leather Works, Advertising Plastic & leather goods Mfrs., 1st floor, Sethna Building, Kitchen Garden Lane, Sheikh Memon St., Bombay 2.

Zone Chemical Co., near Panjrapole Gate, Bombay 4. Manufacturing Chemists & Perfumers.

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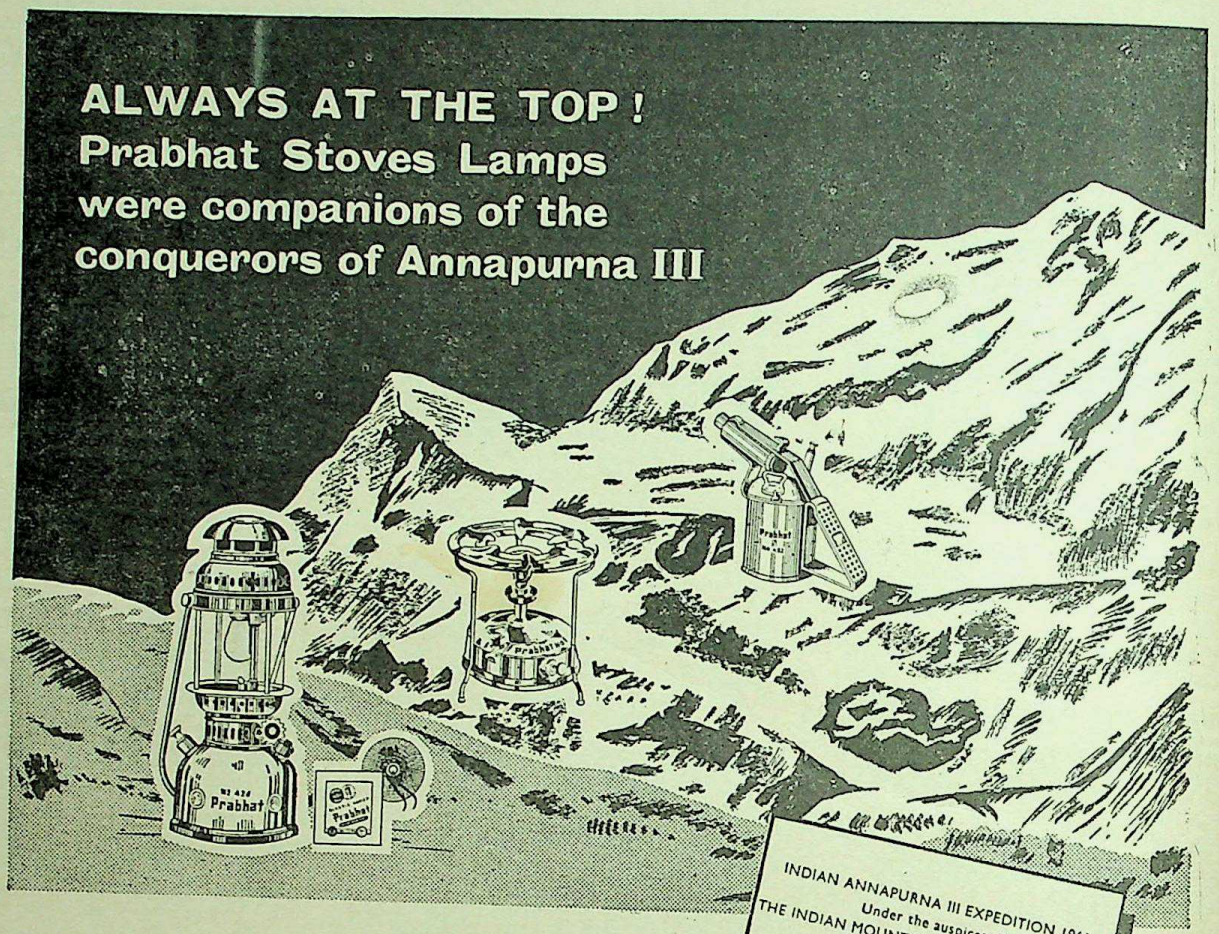

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PRABHAT STOVE AND LAMPS
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Here is the facsimile of the letter written to us by Lt. M. S. Kohli.

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Under the auspices of
THE INDIAN MOUNTAINEERING FOUNDATION

Base Camp
April 5, 1961

Dear Sir,

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We find them extremely useful and send you our best compliments.

Yours faithfully,
Sd/-Lt.M.S.Kohli.

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Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3. Phone: 29990.

ABRAWHEEL PRIVATE LTD.—159, Nagdevi Street, Bombay 3. Phone: 23894. Sole Distributors for States of Maharashtra & Gujarat, Part of Rajasthan and Part of M.P. for coated abrasive made by Messrs. Carborundum Universal Ltd.

Babulal & Bros.—26, Nagdevi Cross Lane, Bombay 3.

Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.

CHANDRAKANT SHAH & CO.—2nd Floor, 3, Narayan Dhuru Cross Lane, Bombay 3. Largest Stockists of Sandpaper, Emery Cloth, Emery Tape roll, Carborundum cloth, Emery powder, Emery fillet, Emery Disc and all kinds of quality coated Abrasives.

Cox & Co., Ltd., H. S.—24, Rampart Row, Fort, Bombay.

Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Bombay 1.

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road, Bombay 1.

Grind-Well Abrasives Limited.—Karim Chambers, 40, Hamam Street, Fort.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

M. DESAI & CO.—163, Narayan Dhuru Street, Bombay 3. Phone: 30248. Grams: "EMDESAICO." Authorised Stockists for Grinding Wheels by Carborundum Universal Ltd.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Abrasives, Emerywheel, "OAKEY" Emery Corn, Powder, Emery Fillets. Branch Office: 59, Bibijan Street, Bombay 3.

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.

WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Sole Distributors for Bonded Abrasives, Grinding Wheels, Segments manufactured by Messrs. Carborundum Universal Ltd., Madras and by INDIAN ABRASIVES, DELHI. Manufacturers of Abrasive Grains.

ACCOUNTING MACHINES

Hollerith (India) Private Ltd.—See International Computers and Tabulators (India) Private Ltd. (Commercial Firms Section).

IBM WORLD TRADE CORPORATION.—Head Office: Vulcan Insurance Building, Veer Nariman Road, Bombay 1. Phone: 24-2386. Grams: "INBUSMACH." Offices at Bombay, Calcutta and New Delhi. IBM Electric and Electromatic Data Processing Machines.

NATIONAL CASH REGISTER CO.—Steelcrete House, Dinsha Wacha Road, Backbay Reclamation, Bombay 1. Phone Nos. 245955, 245168.

POWERS-SAMAS ACCOUNTING MACHINES (SALES) LTD.—See in Commercial Firms Section—International Computers & Tabulators (India) Private Ltd.

Prince, H. I., & Son.—9, Lily Court, Churchgate Reclamation, Bombay.

ACETYLENE & OXYGEN GAS GENERATOR MFRS.

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phone: 264555 & 263795. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 345693. Manufacturers of Welding Transformers, Acetylene & Oxygen Gas Generators and Accessories.

ACID AND ALKALI RESISTING CEMENT

DIXIE PRODUCTS PRIVATE LTD.—403, Commerce House, Medows Street, Fort, Bombay 1. Also Manufacturers of Synthetic Waterproofing Compounds & Metallic Concrete Hardeners.

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EAST ASIATIC CO. (INDIA), PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at: Madras, Calcutta, New Delhi.

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone: 251748. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur-Chemicals-Solvents, Fertilizers, Minerals-Lime-Jute-Products.

WHEITO CORPORATION (Estd. 1954).—16/A, Hansraj Lane, Light Foot & Cold Storage Compound, Byculla, Bombay 27. Phone: 70408. Dealers & Manufacturers' Representatives of Sulphuric Acid, 1.84 Specific gravity and all kinds of Commercial Acids.

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Adding Machines (India) Private Ltd.—235, Hornby Road, Fort, Bombay 1.

Burroughs Corporation. See Adding Machines (India) Private Ltd.

KILBURN & CO. LTD.—Gresham Assurance House, Pherozeshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone: 268081. Grams: "LATHAMS."

NATIONAL CASH REGISTER CO.—Steelcrete House, Dinsha Wacha Road, Backbay Reclamation, Bombay 1. Phone Nos. 245955 & 245168. Agents for Friden Automatic Calculator.

Prince, H. I., & Son.—9, Lily Court, Churchgate Reclamation, Bombay.

ADDRESSING & LISTING MACHINES

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ADVERTISING AGENTS AND CONSULTANTS

Advertising Agency, The.—(Estd.: 1926), 1st Floor, Peerbhoy Bldg. No. 2, 89, Princess Street, Bombay 2.

Advertising & Sales Promotion Co.—Vaswani Mansion, Dinsha Wacha Road, Churchgate Reclamation, Bombay 1.

ADVERTS PRIVATE LTD.—(Advertising and Publicity Service), Established in 1945, Syndicate Bank Bldg., Sir Phirozshah Mehta Road, P.O. Box 1833, Bombay 1. Phones: 263374 (Gen. Office), 26-5317 (Dir. Personal). Grams: "STREVDA". Fully accredited by the Indian & Eastern Newspaper Society, New Delhi, Member—Advertising Agencies Association of India, Audit Bureau of Circulations Ltd., Director-in-Charge —P. H. J. Boyce, B.A.

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AJANTA ADVERTISING.—3rd Floor, Lakshmi Bldg., Sir P. M. Road, Bombay 1. Phone: 263343/44. Grams: "ADCOUNSEL." Branches at: Calcutta and Madras.

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Gujarat Advertising Agency Ltd.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2.

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K. S. Kapoor & Co.—32/33, 4th Floor, Noble Chambers, Parsi Bazar Street, Bombay 1.
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Mahadeo, T. S.—Crescent Chambers, Tamarind Lane, Fort.
Malaney & Co.—People's Bldg., Sir P. M. Road, Bombay 1.

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Rasik Publicity Co.—P.B. No. 3507, Bombay 4.
Samant, B. P., & Company.—Advertising Agents, Mithabai's Mansion, 115, Charni Road.

SELVEL SYNDICATE.—Hashim Building, 38, Churchgate Street, Fort. All-India Outdoor Publicity Organisers.

SHANTILAL G. SHAH & CO.—Advertising Agents & Publicity Consultants, Manu Mansion, 16, Old Custom House Road, Bombay 1. Phone: 251865. Chief Executive: Shanti G. Shah, B. Com.

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Sista's Ltd.—United Bank of India Building, Sir Phirozshah Mehta Road, Fort.

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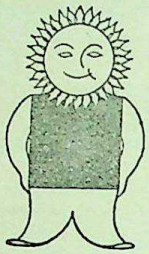
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United Film Makers.—Himalaya House, Palton Road, Bombay 1.

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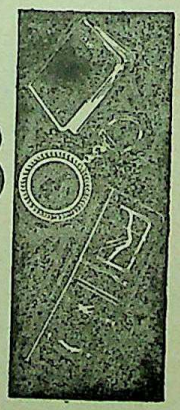

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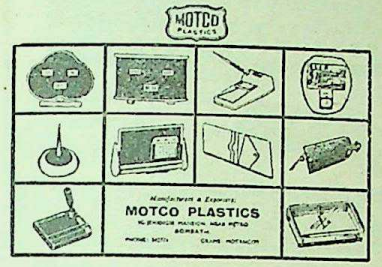
S. R. BROTHERS.—Manufacturers, Exporters, Agents, 406, Commerce House, Medows Street, Fort, Bombay 1. Grams: "GODMESSAGE." Phone: 38946. Our Speciality is to supply Novel Advertising Gifts, Greeting Cards, Calendars & all kinds of publicity items to leading Commercial Firms.



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PARLE BOTTLING CO. PRIVATE LTD.—Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams: 'VIHARI.' Factory: Vile Parle, Bombay 24. Phone: 86403.

Plumer Aerated Water Works.—381, Arthur Road, Bombay 11.

Premier Aerated Waters Private Ltd.—Lamington Road (North), Bombay 8.

Pure Drinks Ltd.—Worli, Bombay 18.

ROGERS & CO. PRIVATE LTD.—18, Clare Road, Byculla, Bombay 8. Phone: 71681—71682. High Class Aerated Water Manufacturers.

TURF AERATED WATERS PRIVATE LTD.—69, Tardeo Road, Bombay 7. Phone: 40632.

Umrigar Bros., Aerated Water Factory.—Opp. 14th Lane, Khetwadi Back Road.

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A. G. BATLIWALA & CO.—11, BEST Printing Press Bldg., Morland Road, P.O. Box 4567, Bombay 8. Phone: 40850. Grams: "BOTTLEHOME." Dealers in and Exporters of Empty Bottles and Bakelite Caps.

AKBARALLY MAHAMEDALLY & CO. (Estd. 1917).—Dealers in Aerated Water Requisites, Importers, Exporters and General Merchants, 316, Abdul Rehman Street, Dawoodi Building, Bombay 3. Grams: "ICECREAM." Phone: 39862. Branch: The India Essence Mart, 299, Wali Tax Road, P.T. Madras. Gram: "HOPEFULL."

Anil Trading Co.—Sharaf Mansion, Princess Street, Bombay 2.

CARLS AERATING MACHINERY CO.—Diamond Building, Lohar Street, Bombay 2. Essences, Harmless Food Colours, Saccharine, Essential Oils, Crown Corks and other Aerated Water and Pharmaceutical Requisites and Sole Distributors of "Rising Sun" Brand Essences. Grams: "MAGCHUCO." Bombay 2. Phone: 22543.

ESOOFALY MAHOMEDALY & CO.—102/4, Sarang Street, Bombay 3. Grams: 'PURIFIED.' Phone: 22516. Dealers in Aerated Water Requisites. Branches: 12, Walltax Road, Madras 3; Phone: 5400, Grams: "HARMLESS." Madras. 12/17, Convent Street, Park Road, Vijayavada 1. Phone: 1004, Grams: "PURIFIED," Vijayavada and Shivaji Road, Kolhapur.

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MOHANLAL ROSHANLAL & CO.—132, Princess Street, Gopal Nivas, Bombay 2. Phone: 28879. Grams: "CROWNCORK." Importers & Dealers in Essences, Food Colours, Saccharin, Soda Bottles, & Crown Corks. Distributors for "ABRAC."

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T. ALIMAHOMED & CO. (Estd. 1924).—44-46, Sarang Street, Bombay 3. Phone: 29131. Grams: "AERATORS." Sole Agents for The Diamond Aerating Gas Works Ltd., Bombay 3.

T. S. Abdullabhoy & Co.—290-92, Abdul Rehman Street, Bombay 3.

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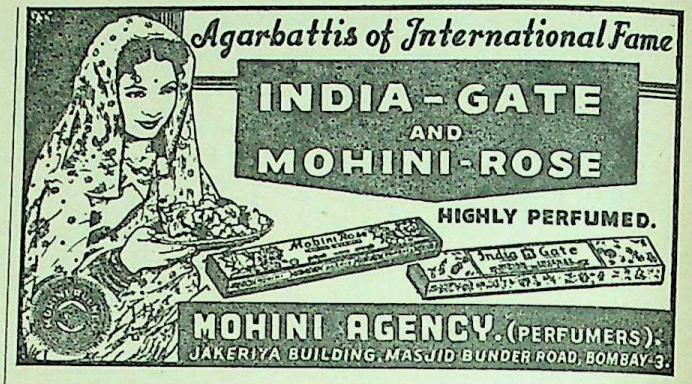

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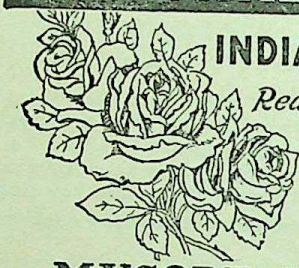

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Bell, Russ & Co.—Albert Building, Hornby Road, Fort.
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Bhiwandiwalla, H. M. D. H. & Co.—538, Chira Bazar.
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Bombay-Burma Trading Corporation, Ltd.—9, Wallace Street, Fort.
Bombay Co., Ltd.—9, Wallace Street, Fort.
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Govindjee Madhowjee & Co., Ltd.—16, Apollo Street, Fort.
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Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
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Herbertsons, Ltd.—11-13, Elphinstone Circle, Fort.
Hoosein, M. A., & Bros.—Lakshmi Buildings, Sir Phirozshah Mehta Road, Fort.
Hormusji & Sons.—Arvind House, New Charni Road.
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Indo-British Chemical Co.—Raja Bahadur Mansion, Tamarind Lane, Fort.
Indo-Europa Trading Co.—9, Dalal Street, Fort.
Indo-European Machinery Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Ingersoll-Rand (India), Ltd.—Devkaran Nanjee Building, 17-B, Elphinstone Circle, Fort.
Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
Jashwantlal Maneklal & Co.—40, Churchgate Street, Fort.
Jassawalla, R. M., & Co.—105, Apollo House, Apollo Street, Fort.
Javeri Bros. & Co.—347-349, Abdul Rehman Street, opp. Crawford Market.
John Dickinson & Co., Private Ltd.—Kumpta Street, Fort.
John Fleming & Co. Private Ltd.—21, Bastion Road, Fort.
Jones, J. D., & Co. (Bombay) Private Ltd.—Rustom Building, Churchgate Street, Fort.

JOST'S ENGINEERING CO., LTD.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kaycee & Co., Ltd.—Kamani Chambers, Nicol Road, Ballard Estate.
Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
Killick Industries Ltd.—Post Box No. 109, Home Street, Fort.
Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Fort.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."
Kishinchand Chellaram.—Guzdar House, Dhobi Talao.
Kodak Ltd.—Kodak House, Hornby Road, Fort.
Kooverjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort.
Kroz & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.
Kurwa & Kajiji.—142-44, Abdul Rehman Street.
Lewis & Tylor, Ltd.—Sorab House, 237, Hornby Road, Fort.
Lipton, Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
London, Eastern & American Trading Co.—22, Hamam Street, Fort.
Louis Dreyfus & Co.—32, Nicol Road, Ballard Estate.
Macfarlane, Bell & Co., Ltd.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Mackinnon, Mackenzie & Co.—Ballard Road, Ballard Estate.
Mafatlal Gagalbhai & Co., Ltd.—Mafatlal House, 3rd Backbay Reclamation, Bombay.
Maganlal Pranlal & Sons.—105, Nagdevi Street, West.
Malgham Bros.—26, Old Custom House Road, Fort.
Manseta, N., & Bros.—165, Lohar Chawl.
Marshall Sons & Co. (India), Ltd.—Marshall's Building, Ballard Road.
Mayashankar Thacker & Co.—47, Apollo Street, Fort.
McKenzies Ltd.—Sewri.
Mehta & Co.—16, Cawasji Patel Street, Fort.
Mehta, H. M., & Co.—Mehta House, Apollo Street, Fort.
Milford Bros.—7-11, Elphinstone Circle, Fort.
Millars' Timber & Trading Co., Ltd.—Victoria House, Victoria Road, Mazagaon.
Minerva Trading Agency.—58, Forbes Street, Fort.
Modern Trading Corporation—79, Medows St., Fort, Bombay 1. Sole Agents for India for American Automatic Typewriter Co., Chicago; Agents for Plants & Machinery for Small Scale industries. Indentors: Machinery, Electric goods, Chemicals, Job typing Circulars.
Mooljee Jaitha & Co.—185, Princess Street.
Morison, J. L., Son & Jones (India), Ltd.—Post Box No, 258, Contractor Building, Ballard Estate.
Muller & Phipps (India) Ltd.—Queen's Mansions, Bastion Road, Fort.
Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Narielwala, B. P., & Sons.—101, Apollo Street, Fort.

NETTLEFOLDS OF INDIA LIMITED.—Wakefield House, Sprott Road, Ballard Estate, Post Box No. 1502. Bombay 1. Phone: 261302 (3 Lines). Grams: "NETTLEFOLD."

NOWROJEE ARDASEER & SONS.—24-26, Dalal Street, Fort, Bombay. Manufacturers' Representatives, Agents & Merchants for Foreign Liquors, Provisions and Dairy Products. Sole Agents: Gilbey's Wines and Spirits, Castillon Brandy, Udaipur Liquors, Croydon preserves, etc.

Occidental Trading Co., Ltd.—16, Apollo Street, Fort, P.O. Box 776, Bombay.
Overseas Chemical & Trading Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

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Pan Asiatic Overseas Co., Ltd.—Bell Building, Sir Phirozshah Mehta Road, Fort.
Patel Bros.—10, Veer Nariman Street, Fort.
Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road.
Pavri Sons & Co.—95-97, Bazargate Street, Fort.
Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.
Phipsone & Co. Private Ltd.— 6, Apollo Street, Fort.
Poonjiajee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.
Precious Electric Co.—Yusuf Building, Churchgate Street, Fort.
Premchand Roychand & Sons, Ltd.—63, Apollo Street, Fort.
Printer Bros.—Beaumon Chambers, Medows Street, Fort.
Progressive Corporation, Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.
Rallis India Ltd.—21, Ravelin Street, Fort.
Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.
Ratilal, R., & Co.—111, Mahatma Gandhi Road, Bombay 1.
Richardson Cruddas & Co., Ltd.—Byculla Iron Works, Byculla.
Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Roneo, Ltd.—Navsari Chambers, 39, Bastion Road, Fort.
Sankalchand G. Shah & Co.—Hanuman Building, Tambakanta, Pydhownie.
Salemahomed Padamsee & Co.—141, Chuckla Street, Bombay 3.
Santhanam & Co.—Exporters, Importers & Commission Agents. Sri Ram Building, 2nd Floor, 195, Dr. Cowasji Hormusji Street, Bombay 2.
Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Sepulchre Brothers (India) Private Ltd.—Taj Building, 210, Hornby Road.
SHALEBHOY TYEBJEE & SONS. (Estd.: 1840).—12, Bruce Street, Fort, Bombay 1. Phones: 252357 and 252358. Grams: "ROTATOR."
Shanks & Co., Ltd.—Jeroo Building, next to Cornalia, Mahatma Gandhi Road, Fort.
Shapurji & Co., R. K.—319, Hornby Road, P. B. 1065, Fort.
Shaw, Wallace & Co Ltd.—3, Wittet Road, Ballard Estate.
Shroff Bros. & Co.—4, Botawalla Building, 7-9, Elphinstone Circle, Fort.
Soho House.—Vithal Sayana Building, Lohar Street.
Sorabji Hormusji & Co.—22, Mangaldas Road, opp. P. O., Juma Masjid.
Sorabji Kharas & Co.—Fort Chambers, 65, Tamarind Lane, Fort.
Sorabji Pestonji & Co.—105, Apollo Street, Fort.
Spencer & Co., Ltd.—Spencer's Building, Forjett Street, Bombay 26.
Spinner, E., & Co.—8, Tamarind Lane, Fort.
Stone, J., & Co. (India), Private Ltd.—Yaffi Building, Goa Street, Ballard Estate.
Suren, W. T., & Co.—United India Building, Sir Phirozshah Mehta Road, Fort.
Symonds & Co.—Eruchshah Building, 249, Hornby Road, Fort.
Tata Sons, Ltd.—Bombay House, 24, Bruce Street, Fort.
Textile Works, Ltd.—49-55, Apollo Street, Fort.
Thackersey Mooljee & Co.—Sir Vithaldas Chambers, Apollo Street, Fort.
Thakore, T. M., & Co.—Readymoney Mansions, 43, Vir Nariman Street.
Trading Co., Late Hegt & Co., Ltd.—Indu House, Dougall Road, Ballard Estate.
Turner Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.
Turner Morrison & Co., Ltd.—16, Bank Street, Fort.
United Industrial Equipment Co.—21, Western India House, Sir Phirozshah Mehta Road, Fort.
United Steel Companies (India), Ltd., The.—Himalaya House, Junction of Hornby Road and Palton Road, Bombay 1.
Valiram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
Vasantrai Goverdhandas & Bros.—75, Mahomedali Road, Bombay 3.
Vikram Padamsey & Co.—Rustom Building, 29, Vir Nariman Street, Fort.
Vissanji, Sons & Co.—9, Wallace Street, Fort.
Vulcan Trading Co. Private Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate.
Wallace & Co.—9, Wallace Street, Fort.
Wheeler, A. H., & Co.—Eruchshah Building, 249, Hornby Road, Fort.

AGENTS, INSURANCE

Arvind & Co.—Bombay Mutual Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Arvinda Trading Co., Private Ltd.—105, Apollo Street, Fort.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bhiwandiwalla, H. M. D. H., & Co.—583, Chira Bazar.
Brady, W. H., & Co., Ltd.—Veer Nariman Street, Fort.
Chandulal T. Shah, Hon. Presidency Magistrate and J.P.—Jehangir Bldg., 133, Mahatma Gandhi Rd., Bombay 1.
Chinubhai Kalidass & Bros.—20, Hamam Street, Fort.
Fakirchand Keshrichand Shroff.—Advani Chambers, Sir Phirozshah Mehta Road.
FINLAY, JAMES & CO., LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Post Box No. 73. Phone Nos. 251255-59.
Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.
Govindjee Madhowjee & Co., Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Hardcastle, Waud & Co., Ltd.—Alice Buildings, Hornby Road, Fort.
Kochikar Brothers Ltd. (Estd. 1910).—Gautam Nivas, Charni Road.
Kooverjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort.
Kulkarni & Company.—Navsari Building, 2nd floor, Hornby Road, Fort, Bombay.
Lee & Muirhead (India) Ltd.—12, Rampart Row, Fort.
Mohan Sons & Co.—125, Mahatma Gandhi Road, Fort, Bombay 1.
Motishaw, R. K.—Bhansilal Motilal Mansion, Hamam Street, Fort.
Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Purshotamdas Ishwardas & Co.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.
Raghavji Kanji & Co.—Alli Chambers, Tamarind Lane, Fort.
Sarabhai & Sons.—Prospect Chambers, 321, Hornby Road, Fort.
Sorabji Kharas & Co.—Fort Chambers, 65, Tamarind Lane, Fort.
Vasanji Khatau & Co.—Dena Bank Building, 17, Elphinstone Circle, Fort.
Volkart Bros.—19, Graham Road, Ballard Estate.

AGRICULTURAL IMPLEMENTS AND REQUISITES

Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpatty, Bombay 7.
Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.
Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay.
Diarvi Trading Co.—64, Old Custom House Road, Fort.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort, Bombay.
Hindustan Engineering Co. (Machinery Dept.)—25, Ropewalk Street, Fort, Bombay.
Lachmandas Ramchand.—98, Nagdevi Cross Lane, Bombay 3.
NEW INDIA CORPORATION.—Warden House, Sir Phirozshah Mehta Road, Bombay 1. Grams: 'NUINDCORP', Phone: 254440. 'PLATZ' Sprayers, Dusting machines, Spray hose, Sprinklers etc., etc.
Paramount Hardware Mart.—Carnac Bunder, Bombay 9.
Voltas Ltd.—19, Graham Road, Ballard Estate.
WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Distributors for Sprayers & Dusters.

AGRICULTURAL MACHINERY

BHARAT ELECTRIC & ENGINEERING CORPN.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone: 255374. Grams: "GODGRACE."
Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at: Madras, Calcutta, New Delhi.
Eastern Machinery and Trading Co.—Imperial Chambers, Wilson Road, Ballard Estate, Bombay.
ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE". Phone: 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.
Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.
Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
JAGAT ENGINEERING CO.—11, Botawala Building, Horniman Circle, Bombay 1. Phones: 252601, 254790. Grams: "JAGATENDU." For:—Reduction Gears, Acid Resisisting Pumps, Engines, Motors, Chains, Factory Clocks, Chemical Engineering Equipment, etc.
Kamani Engineering Corporation Ltd.—Kamani Chambers, Nicol Road, Fort.

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Larsen & Toubro Ltd.—I.C.I. House, Dougall Road, Bombay 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.

NEW INDIA CORPORATION.—Warden House, Sir Phirozshah Mehta Road, Bombay 1. Grams: 'NUINDCORP.' Phone: 254440. (1) "HENSCHEL" Tea and Coffee Processing Machinery. (2) "LANNINGER" Sprinkler Irrigation Seed Dressers, Plant Protection Equipment etc.

P. Rai & Company.—105, Apollo Street, Fort.
P. Ratilal & Co.—43, Dhanji Street, Bombay 3.
Somani & Co. Ltd.—Mehta Building, Medows Street, Fort, Bombay.

TALWARKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone: 253367 & 254710. Grams: "PUMPENAMEL."

TECALEMIT (India) LTD.—Managing Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones: 255756 & 255757. Grams: "TECALEMIT." Lubrication, Refuelling, Metering Equipment and Air Compressors.

Voltas Limited.—19, Graham Road, Ballard Estate.

AIR PURIFIERS

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreeniwas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

AIR-COMPRESSORS

Batliboi & Co.—Engineers & Machinery Importers. Head office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayavada. Associate: Bangalore.

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone: 255374. Grams: "GODGRACE."

Brady, W. H., & Co. Ltd.—12, Vir Nariman Street, Fort.

CONSOLIDATED PNEUMATIC TOOL CO., LTD.—301/302, Agra Road, Mulund, Bombay 80. Phone: 64-1274/6. Grams: "CAULKING," Mulund, Bombay.

Dodsal Limited.—Industry House, J. Tata Road, Churchgate Reclamation, Bombay 1.
Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Fort, Bombay.
Great Western Engineering Works.—"Sea View", 1st Pasta Lane, Colaba, Bombay 5.

HEMCO CORPORATION.—21, Forbes Street, Fort, Bombay 1. Phone: 254237. Grams: "HEMCORP." Importers of Woodworking Machinery. Electric Drills & Grinders, Japanese make "FUJI" Aircompressors, Pipe Bending Machines, etc.

Larsen & Toubro Ltd.—I.C.I. House, Dougall Road, Bombay 1.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.

TECALEMIT (INDIA) LTD.—Managing Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones: 255756 & 255757. Grams: "TECALEMIT." Lubrication, Refuelling, Metering Equipment and Air Compressors.

Voltas Limited.—19, Graham Road, Ballard Estate.
Ward Thos. W. (India) Ltd.—Marshall Building, Ballard Road, Fort.

WILLIAM JACKS & CO. LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Distributors for MAW-INDIA Air Compressors—Portable and Stationary.

AIR-CONDITIONING AND REFRIGERATION

Ahmed A. Fazelbhoy (Private) Ltd.—Liberty Buildings, 41, Marine Lines, Bombay 1.

AIR-CONDITIONING CORPORATION PRIVATE LTD.—Construction House, Ballard Estate, Bombay 1. Phones: 262844 and 262845. Grams: "AIRCONDIT."

AMERICAN REFRIGERATOR CO. PRIVATE LTD.—Refrigeration and Airconditioning Engineers. Manufacturers of "ARCO" room air conditioners, water coolers, bottle coolers, food freezers, ice cream cabinets, blood storage cabinets, refrigerators, etc. Sole importers and Agents of "TRANE" Air Conditioning and Refrigeration Equipment in India. Sadhana Rayon House, D. Naoroji Road, Bombay 1. Phone: 265289. Head Office: 12-D, Park Street, Calcutta. Phones: 23-3841 (4 lines). Branch: 4/28, Asaf Ali Road, New Delhi. Phone: 29430.

Asea Electric India (Private) Limited.—Yaffi Building, Goa Street, P.B. No. 941, Bombay 1.

ATLAS ENGINEERING CORPORATION.—Kitab Mahal, 192, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 265234. Grams: 'ICYCOOL.' Authorised dealers for CHRYSLER-AIR TEMP. Equipment & parts.

Blue Star Engineering Co. (Bombay) Ltd.—Kasturi Bldgs., Jamshedji Tata Road, Bombay 1.

Bombay Ammonia & Refrigeration Co., (Private) Ltd.—298, Bazargate Street, Bombay 1.

BOMBAY CYCLE & MOTOR AGENCY LTD.—534, Sardar Vallabhbhai Patel Road, Bombay 7. Distributors for Chrysler Air-temp Air-Conditioners.

Bombay Co. (Private) Limited.—9, Wallace Street, Bombay 1.
Bombay Garage (Private) Limited.—Meher Building, Chowpatty, Bombay 7.
Brady, W. H., & Co. Ltd.—12, Vir Nariman Street, Fort.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: 'BRIBOS'. Phones: 77454 & 77455. Manufacturers of Air-Conditioner Fronts Grilles, Refrigeration Components, etc. in plastics.

Calcutta Bombay Trading Corporation.—Royal Opera House Building, Bombay 4.

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street, (Gulalwadi), Bombay 4. Stockists of Seamless Copper Tubing for Air-Conditioning. Phone: 72064. Grams: 'RODS.'

CRESCENT AGENCIES (PRIVATE) LTD.—Beaumont Chambers, 27/33, Medows Street, Fort, Bombay. Phone: 252558. Grams: "WELSEL", Bombay and Delhi.

DADAJEE DHACKJEE & CO. PRIVATE LTD.—Refrigeration and Air-Conditioning Dept., Sandhurst Bridge, Bombay 7. Manufacturers of "Tempair" Packaged-type Room Air-Conditioners. Distributors & Suppliers of Remote & Central Type Air-Conditioning & Cold Storage Plants. Telegrams: "PROMPT" Bombay 7. Phone No. 27021/23.

Duncan Stratton & Co. Ltd.—5, Bank Street, Fort.

ECONOMY REFN. & ENGINEERING CO.—P. B. No. 449, Kirti Building, Forbes Street, Bombay 1. Phone: 253342. Grams: "ICEMACHINE." Agents in India for VILTER Refrigeration & Air-Conditioning Machinery.

Electronics Limited.—71, Queen's Road, Bombay 2.
English Electric Co. Ltd.—Vulcan Insurance Building, Churchgate Reclamation, Bombay 1.

FARADAYS.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone: 252605. For Maintenance, Service Repairs of any type of Air-Conditioners—Windows—Floor Package Models, Refrigerators, Domestic Appliances.

Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
Freezall.—Tribhuvan Road, Bombay 4.

FRIGSALES (INDIA).—204, Commerce House, Medows Street, Fort, Bombay 1. Phone: 251798. Grams: "FRIGFROST." Dealers in Refrigeration & Air Conditioning Machinery, Tools, Suppliers & Accessories.

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Garlick & Company (Private) Limited.—Haines Road, Jacob Circle, Bombay 11.
General Electric Co. of India (Private) Ltd.—Magnet House, Dougall Road, Ballard Estate, Bombay 1.
General Radio Appliances Ltd.—Opera House, Bombay 4.

GORAKHRAM GOKALCHAND ENGINEERING (G.G.E.).—Choksey Chambers, Zaveri Bazar, Bombay 2. Grams: 'HAPPY.' Phone: 22740. (Air-Conditioning & Refrigeration Engineers). Dealers in Window, Packaged and other Commercial Air-Conditioners, Refrigerators, Automobile Air-Conditioners, Water Coolers and other type of Refrigeration Equipments. Refrigeration, Air-Conditioning and Cold Storage Specialists, Sales and Services.

Grovers Private Ltd.—Shed No. 3, Opp. Gwalior Palace, Dr. Annie Besant Road, Worli, Bombay 18.
Heatly and Gresham Ltd.—9, Forbes Street, Fort.

INDO EUROPEAN TRADING AGENCIES.—4th Floor, Behramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay. P.O. Box 1344. Phone: 262664. Grams: "MUSKETEERS," Direct Importers of Portuguese Insulation Cork Boards, Tecumsch and Danfsoss Compressors and Condensing Units and Noranda Copper Tubing.

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INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD.—Karimjee House, 2nd Floor, 59, Sir Phirozshah Mehta Road, Fort, Bombay. Phone No. 262475. Grams: "COOLAIR." Specialists in all Air-Handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

Industrial & Engg. Services.—Sunderbaug Estate, Agra Road, Kurla, Bombay 37.

International General Elec. Co. (India) Private Limited.—Thackersey House, Graham Road, Ballard Estate, Bombay 1.

Larsen & Toubro Limited.—I. C. I. House, Dougall Road, Ballard Estate, Bombay 1.

Mazagon Dock Limited.—4, Ballard Road, Ballard Estate, Bombay 1.

MODERN ELECTRIC CORPORATION.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 262120.

McKenzies Ltd.—Sewri.

NATIONAL AIRCO PRIVATE LTD.—Below Mahalaxmi Bridge, Bombay. Phone: 75026. Grams: 'AIR COREF.' Sales & Service of Air-Conditioners & Water Coolers. Showroom: 43, Police Court Lane, Hornby Road, Bombay. Phone: 263706.

NATIONAL INDIA DEVELOPMENT CO. LTD.—Forjett Street, Bombay 26. Phone: 42469. Grams: 'VASUDEVACO.' Manufacturers of 'GLACIER' Water Coolers, Bottle Coolers, Deep Freezers & Refrigerators. Sole Selling Agents for 'ATLAS,' domestic Refrigerators for India.

PAB ENGINEERING CORPORATION.—Zaveri House, 64, Hughes Road, Bombay 7. Phone: 78337. Grams: "DHIRAJ-COMP." Air-Conditioning and Refrigeration Engineers. Agents for: Allwyn Prestocold Refrigerators, "Allwash" Machines, "Accaire" Air conditioning, "Accooler" Water Coolers, Gulmarg Air Coolers, Cool maker Auto Refrigerator, Kleertone Products, National Ecko Radios, Telerad Radios, etc.

PANDYA & COMPANY.—Nanabhoy Mansion, 5th Floor, Sir Phirozshah Mehta, Road, Fort, Bombay 1. Phone: 261228. Grams: "AIRDUCTS". Manufacturers of Sheet Steel Components for Air Conditioning, Refrigeration, Humidification and Exhaust Systems, such as Air Ducts, Air Washers, Dust Collectors, All types of adjustable Grilles, Diffusers, Dampers, Cooling Towers, Hot & Cold Insulation, etc.

Philips (India) Private Ltd.—221, D. Naoroji Road, Bombay 1.

Premier Automobiles Ltd.—Construction House, Ballard Estate, Bombay 1.

Protos Engineering Co. Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

RADIOCRAFTERS, THE.—Air Conditioning & Refrigeration Engineers, Laud Mansion, opp. Charni Road Station, 21-C-D, Queen's Road. Phone: 23006.

Refrigeration & Appliances Co. (Private) Ltd.—Pravin Court, 95, Queen's Road, Bombay 1.

SPENCER & CO. LTD.—Spencer's Building, Forjett Street, Bombay 26. Phones: 73261-62-63. Grams: "TORPEDOS." Sole Distributors throughout India for Kalvinator Refrigerators & Air Conditioners. Sales & Service.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

Vulcan Trading Co., Private Limited.—Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay 1.

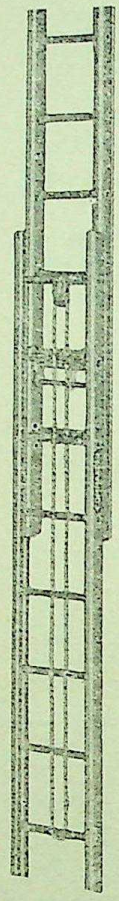
AIRCRAFT, AIRCRAFT PARTS & ACCESSORIES

Indamer Company Ltd.—Hanger 1, Near Aerodrome Office, Juhu, Bombay 23.

National Helicopters Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

TECALEMIT (INDIA) LTD.—Managing Agents: Heatly & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones: 255756 & 255757. Grams: "TECALEMIT," Lubrication, Refuelling, Metering Equipment and Air Compressors.

ALUMINIUM LADDER MFRS.



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STAR PAINT & OIL INDUSTRIES.—Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Phone: 253493. Grams: "STARPAINT." Manufacturers of Industrial Paints, All kinds of Aluminium Pastes, Aluminium Paints and Mediums; Specialists in Heat Resisting 1,000°F. Aluminium Paint.

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ATUL METAL CORPORATION.—86, Kansara Chawl, Kalbadevi Road, Bombay 2. Phone: 20916. Importers & Dealers in Aluminium Sheets, Bars, Angles, Wires, Pipes, Rivets, etc.

EVERGREEN CORPORATION.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 2. Grams: "GREENLEAVE." Stockists of Aluminium Sheets, Rods, Tubes, Strips, Foils, etc.

ALUMINIUM WORKS

Amritlal Girdharlal & Co.—71, Kansara Chawl, Bombay 2.

Crown Aluminium Works.—26, Parel Tank Road, Bombay 12.

DECCAN ALUMINIUM STORES.—56, 1st Bhoiwada, Bombay 2. Phone: 30942. Grams: "DECCALUMIN." Exporters and manufacturers of Non-Ferrous Export items and Industrial Equipments. Dealers in Sheets, Circles, Wires, Pipes, etc.

Dun Aluminium Factory.—225-229, Tardeo Road, Bombay.

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Indian Standard Metal Co., Ltd.—Chinchpokli Cross Lane, Bombay 27.

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BOMBAY CYCLE & MOTOR AGENCY LTD.—Service Stations, Tardeo Road, Tardeo, Bombay 7. Phones: 73411-2 and J. Tata Road, Churchgate, Bombay 1. Phone: 246134. Authorised Repairers of Dodge Cars & Trucks, Chrysler and Fiat cars.

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Car Mart Ltd.—Pratt's Building, Hughes Road.

French Motor Car Co. Ltd.—9-11, Hughes Road, Bombay.

International Motor Co.—Sandhurst Bridge.

Lucas Indian Service Ltd.—15, New Queen's Road, Bombay 14.

Metro Motors.—The Motor House, Hughes Road, Bombay.

MOTOR REPOWERING SERVICE.—Opera House T.T., Bombay 4. Phone: 27241. Workshops at: Mathew Road and Benham Hall Lane. Specialists in Crankshaft Grinding, Cylinder Sleeve Fitting, Bearing, Remetalling, Mainline Boring, Cylinder Head Grinding, Valve Seat Inserting, etc., for Automobiles, Diesel Engines, Tractors, Marine and Stationary Engines. Manufacturers of Cylinder Sleeves, Valves, Valve Guides, Pistons and Piston-rings, etc.

National Garage Private Ltd., The.—Warden Road, Bombay 26.

Premier Automobiles Ltd.—H.O. Construction House, Ballard Estate. Factory:—Agra Road, Bombay 37.

Regal Motors.—Victoria Mill Compound, Gamdevi, Bombay 7.

Royal Auto Works.—Tanker Villa Estate, 200, Gowalia Tank Road, Bombay 26.

Sam Ruston & Company.—31-33, Mangalore Street, Ballard Estate.

Shanghi Motors (Bombay) Ltd.—9, Mathews Road, Bombay 4.

United Motors (India) Ltd.—Hughes Road, Bombay.

AUTOMOBILE PARTS AND ACCESSORIES (MFRS.) & DEALERS

Ajay Traders.—Purshottam Bldg., Tribhuvan Road, Bombay 4.

Allied Automobiles.—Laxmi Building, Sandhurst Road, Bombay 4.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

American Automobile Co.—Purshottam Bldg., Opera House, Bombay 4.

ANIL ELECTRICALS.—95, Stock Exchange New Building, Apollo Street, Bombay 1. Phone: 251153. Grams: "PARAMILA." Manufacturers of "ANILEC" Range of Automobile Electric Accessories.

Asiatic Automobiles.—1, New Bhatwadi Street, Sandhurst Road, Bombay 4.

Associated Auto Parts Ltd.—445, Lamington Road, Bombay 4.

ATLAS TRADING CO.—Nair Bldg., 431, Lamington Road, Bombay 4. Grams: "DEALWELL." Phone: 76768. Auto Parts Specialists & Importers. Sr. Partner: Gopallal C. Kothari, B.A., B.Sc.

Auto Agency.—Congress House, Vithalbhai Patel Road, Bombay 4.

Auto Equipment Ltd.—68-C, Bansilal Motilal Building, Opera House Tram Terminus, Bombay 4.

AUTOMOBILE & AGRICULTURAL INDUSTRIES CORP.—497/3, Banji Nivas, Sardar V. Patel Road, Bombay 4. Phone: 28247. Grams: "REACHROD." Manufacturers of "Double Life" Automobile and Agricultural Parts. Factory at Ghodbunder Road, Borivli, Bombay 66. Phone: 84073.

AUTOMOTIVE CORPORATION (INDIA).—431, Lamington Road, Bombay 4. Grams: 'RITESET.'

AUTOMOTIVE HARDWARE CORPORATION.—93, Narayan Dhuru Street, Bombay 3. Phone: 27507. Grams: 'NUTS-AUTO.' High tensile boltnuts, SAE & BSF self-tapping screws, hardware & tools.

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone: 255374. Grams: "GODGRACE."

BOMBAY CYCLE & MOTOR AGENCY LTD.—534, Sardar Vallabhbhai Patel Road, Bombay 7. Dealers for MoPar Parts and Accessories for Dodge Cars and Trucks and Chrysler Cars. Dealers for Fiat Car Parts and Accessories.

Bombay Garage Private Ltd.—Meher Bldg., Chowpatty, Bombay 7.

Bombay Motor House.—479, Banji Nivas, Sandhurst Road, Bombay 4. Phone: 71937. Grams: "Autoprince".

Bombay Motor Trading Co.—Cutch Castle, near Opera House, Bombay 4.

C. VAKIL & CO. PRIVATE LTD.—497/3, Banji Nivas, Sardar V. Patel Road, Bombay 4. Phone: 28247. Grams: "REACHROD." Dealers in Automobile Spare Parts, Accessories, Tyres, Tubes, Oils and Grease. Authorised Distributors—Tata Mercedes Benz Spare Parts (Bombay State).

Central India Trading Company.—Ramchandra Mansion, Bhatwadi Street, Sandhurst Road, Bombay 4.

CHAMPION AUTO BOLT MANUFACTURING CO.—4, Modi Chambers, Kennedy Bridge, Bombay 4. Phone: 72664. Grams: "CHAMBOLT." Factory: "UDHNA." Manufacturers of all kinds of Auto Bolts, Nuts, etc.

CHAMPION AUTO PARTS CO.—Avantikabai Gokale Road, Bombay 4. Phone: 27324. Grams: "CHAMPAUTO."

Chandulal Mehta & Co. Private Ltd.—New Queen's Road, Bombay 4.

CHEAP MOTOR STORES.—Stockists of Genuine 'Ford' Parts and other Automobile Accessories, Opera House Tram Terminus, Bombay 4. Phone: 30675. Grams: 'CHEAP-MOTOR'.

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

Commercial Auto Store.—Mani Bhuvan, French Bridge, Bombay 7.

Continental Automobiles Ltd.—Luxmi Bhuvan, 466, Sandhurst Road, Bombay 4. Phone: 72866. Grams: "CONAUTO."

Conwest Ltd.—Opera House, Bombay 4.

Dadajee Dhackjee & Co. Private Ltd. (Motor Dept.)—Shree Pant Bhuwan, Sandhurst Bridge, Bombay.

D. Walker & Sons.—Prospect House, New Bhatwadi, Sandhurst Road, Bombay 4.

Deisel (India).—105, Apollo Street, Fort, Bombay 1.

Eastern Motor Corporation.—Indra Nivas, Bhatwadi Road, Bombay 4.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

FOREIGN PRODUCTS DISTRIBUTING CO.—491, Sandhurst Road, Bombay 4. Phone: 71851. Grams: "PRODISCO."

Hind Equipment Corporation Private Ltd.—24/B, Hamam Street, Fort, Bombay.

H. S. Chaddha & Sons.—483, Sandhurst Road, Bombay 4.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

India Electric Works Ltd.—6, Sir Phirozshah Mehta Road, Fort, Bombay.

INDO FOREIGN COMMERCIAL AGENCY.—380, Vithalbhai Patel Road, Bombay 4. Phone: 41714. Grams: "EVERGLAD". Importers, and Exporters for Motor Spare parts. Specialists Exporters to Middle East & Afghanistan.

INDUSTRIAL DISTRIBUTORS.—10, Hanuman Bldg., Tambakanta, Bombay 3. Phone: 39973. Dealers and Importers of all kinds of Yarns, Cycles & Cycle Accessories, Motor Parts & Lubricating Oils.

International Motor Co.—Sandhurst Bridge.

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INDEPENDENT INDIA MOTOR CO.,
417-B, Vithalbhai Patel Road - Bombay 4.

★

Phone :
70897
Grams :
" INDENTCO "

Direct Importers & Stockists of :
Genuine, Original, Military Surplus Spare Parts for Ford, Dodge, Chevrolet & Jeep.

J. C. VORA & CO.—Modi Chambers, French Bridge, Bombay 4. Phone : 72575. Grams : 'GODISALL'. Specialists : Auto Bolts & Nuts, Parts & Accessories, etc.

Jay Kay Automobiles.—19, Mohanlal Mehta Market, Grant Road, Bombay.

J. V. MEHTA & CO.—Opera House, Bombay 4. Phone : 27065-66. Prop. Res. 74178. Grams : " JEVIMEHTA."

KAMLASHANKAR P. JOSHI & CO.—98, Nagdevi Cross Lane, Bombay 3. Phone : 22437. Grams : " KEPIJOSHI." Branch : Opp. Shivaji Statue, Shivajinagar, Poona 5. Manufacturers and Distributors of Ball, Roller, Tapered Roller Bearings, Steel Balls and Needle Rollers.

Katara Motor Co.—13-14, Modi Chambers, French Bridge, Bombay 4.
Kandawalia & Co.—13, Hughes Road, Bombay 7.

KISMET AUTO STORES.—Laxmi Bldg., 35-37, Girgaum Road, Kennedy Bridge, Bombay 4. Grams : " PELION."

Kothari Brothers & Co.—Prospect House, Sandhurst Road, New Bhatwadi, Bombay 4.

MARVIN & CO. PRIVATE LTD.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone : 40448. Grams : " VINMAR."

MAXFIELD ENGINEERING CO.—Automobile spare parts and precision components manufacturers. Old Nagardas Road, Near Dhobi Ghat, Andheri (East), Bombay 58. Phone No. 70603.

MEHTA MOTOR STORES.—497, Sardar Vallabhbhai Patel Road, Banji Nivas, Bombay 4. Phone : 27156. Grams : " METAMOTORS." Everything in Automobiles.

METROPOLITAN SPRINGS PRIVATE LTD.—Antop Hill, Wadala, Bombay 31. Phone : 62003. Manufacturers of laminated springs for automobiles and Railways, Suppliers to several automobile manufacturers, all Important State Transports and large Government Organizations. Specialists in Trailor Springs.

MOTOR REPOWERING SERVICE.—Opera House T.T., Bombay 4. Phone : 27241. Workshops at Mathew Road and Benham Hall Lane. Specialists in Crankshaft Grinding, Cylinder Sleeve Fitting, Bearing Remetalling, Mainline Boring, Cylinder Head Grinding, Valve Seat Inserting, etc., for Automobiles, Diesel Engines, Tractors, Marine and Stationery Engines. Manufacturers of Cylinder Sleeves, Valves, Valve Guides, Pistons and Piston-rings, etc.

National Automobile Co., Ltd.—Opera House Tram Terminus, Bombay 4.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone : 255346. Grams : "GULDASTA." Manufacturers of automobile parts, bicycle parts, socket, head cap screws, bolts, nuts, steel balls, etc.

New Pioneer Trading Co.—459, Sandhurst Road, Bombay 4. Phone: 76289.
Nishat Trading Co.—461, Sandhurst Road, Bombay 4.
Paramount Automobiles Ltd.—14, New Bhatwadi Lane, Sandhurst Road, Bombay 4.

PARAMOUNT COMMERCIAL CORPN. PRIVATE LTD.—Prospect Chambers Annexe, 317-320, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone : 251850. Grams : " COCOASS." Manufacturers of "Paramount" Automobile Luggage Carriers. Sales Dept. : 119, Lohar Chawl, Bombay 2.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

PATEL TRADING CORPORATION.—443, Vandekar Building, 1st Floor, Opp. J. V. Mehta & Co. (Opera House), Lamington Road, Bombay 4.

PRADEEP & CO.—Kothari Mansion, Parekh Street, Bombay 4. Stockists of Automobile Bolts & Nuts, Grease Nipples, Wire Springs, Auto Bulbs, Clutch Parts, Pistons & Hub Drums.

PREMIER AUTO ELECTRIC PRIVATE LTD.—95, Oomer Park, Bhulabhai Desai Road, Bombay 26. Specialists for repairs to everything Electrical on your car. Distributors in India for Autolite, Marelli, G. E. and Prakash automobile products. Specialised Diesel Fuel Injection Service in Bombay. Branches at : Bombay—69, Tardeo Road ; Calcutta—45/1, Rafi Ahmed Kidwai Road ; Madras—4, Patullo Road, Mount Road and Ahmedabad—G.P.O. Box No. 231.

Premier Automobiles Ltd.—Agra Road, Kurla, Bombay 37.
Provincial Motor Car Co., Ltd.—Opp. Opera House, New Queen's Road, Bombay 4.
Rane Limited.—New Queen's Road, Bombay.

RATILAL & CO.—Avantikabai Gokhale Street, Bombay 4. Phones : 28629 (Office), 76438 (Residence). Grams : " MODERNAUTO." Automobile Parts and Accessories dealers. Specialists in MERCEDES Truck Parts and Canara Springs.

Regal Motors.—Old Victoria Mills Compound, Gamdevi, Bombay 7.
Reliance Automobiles.—Manu Mansion, 475, Sandhurst Road, Bombay 4.
Replacement Parts Co.—457/15, Dwarkadas Mansion, Sandhurst Road, Bombay 4.

SABHARWAL BROTHERS.—484, Sandhurst Road, Bombay 4. Grams : " JEEPKING." Head Office : 992, Hamilton Road, Delhi 6. Branch : 21, Princep Street, Calcutta 13. Specialists in Jeep Parts. Stockist for car parts & accessories.

The Safeglas Corporation Private Ltd.

Grams : DIADEM.
Phone : 34395.

Member :
INDIAN STANDARDS INSTITUTION

Manufacturers of
TOUGHENED "GLASEF" GLASS
Used in Windows of Buses, Automobiles, Cars, Furniture, Glazing - Windows, North Light Fittings, etc.

95, DHANJI STREET, BOMBAY 3.

Sethi Trading Co.—New Bhatwadi, Sandhurst Road, Bombay 4.

SHAH & SUNDAR.—7/10, Horniman Circle, Botawala Bldg., Fort, Bombay 1. Phone : 254226. Sole Agents for " REDEX " Oil & Additive.

SHETTY AUTOMOBILES.—Opera House Tram Terminus, Bombay 4. Direct Importers and Stockists of Motor Parts, Accessories, etc. Phone : 27412. Grams : " BIPISHETY."

SINGH & SINGH.—Victoria Mills Estate, Gamdevi, Bombay 7. Phone : 75552. Grams : " BAKINGCO." Manufacturers of Cylinders, Liners and Spares for Cars and Diesel Engines. Specialists in Crankshaft Grinding. Branch at Shivaji Nagar, Poona 5. Phone : 7597.

Skf Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay.
S. S. Prabhu.—Ghamat Terrace, opp. Dadar W. Rly. Station, Bombay 14.

SUPREME AUTOMOBILES.—Modi Chambers, French Bridge, Bombay 4. Grams : " LOCKHEED ".

Tata Locomotive & Engineering Co. Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.

TECALEMIT (INDIA) LTD.—Managing Agents : Heatly & Gresham Ltd., 9, Forbes Street, Fort, Bombay. Phones : 255756/255757. Grams : " TECALEMIT." Grease Nipples and Guns, Filters, Elements, Metal Flexibles, etc.

United Industries of India.—82, Opera House Tram Terminus, Bombay 4.
Universal Automobiles.—461, Sandhurst Road, Bombay 4.
Universal Service Corporation Ltd.—457-9, Sandhurst Road, Bombay 4.

VINOD TRADING CO.—11, Bruce Street, Fort. Phone : 253767. Grams : " SPAREVINOD." Specialists in Oil Seals.

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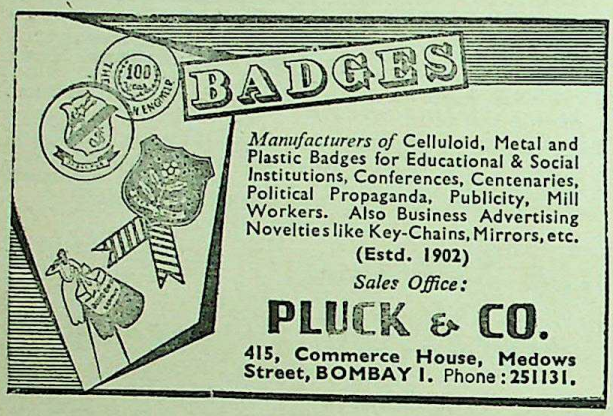
AUTOMOBILE SPRING LEAVES, 'U' BOLTS & CENTRE BOLTS MFRS.

DELTA PRODUCTS CORPORATION (INDIA).—3, Modi Chambers, French Bridge, Bombay 4. Phone : 71083. Grams : "MOTORCYCLE." Manufacturers of Laminated Road Springs for all Vehicles, Trucks, Tractors and Trailers. Suppliers to Government and States.

AVERAGE ADJUSTERS & SURVEYORS

V. N. C. NARICHANIA (PRIVATE) LTD.—P.O. Box 207-A, 22, Sir Phirozshah Mehta Road, Fort, Bombay (India). Phones : 265098 & 212676. Grams : "SURVEYLOSS."

BADGES



BAKELITE

A. G. BATLIWALA & CO.—11, BEST Printing Press Bldg., Morland Road, P.O. Box 4567, Bombay 8. Phone : 40850. Grams : "BOTTLEHOME." Dealers in and Exporters of Empty Bottles & Bakelite Caps.

Embi Desai & Co.—Dadyseth House, Cawasji Patel Street, Fort, Post Box No. 1116, Bombay 1.

Hardcastle, Waud & Co., Ltd.—Alice Buildings, Hornby Road, Fort.

Rubako Industries.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

SHAH PRATAP & CO.—64, Old Custom House Road, Fort, Bombay. Phones : 255615 and 255616. Grams: "VINPRA."

VIJAY BAKELITE TRADING CO.—8, Chakla Street, Bombay 3. Phone: 30145. Grams: "BESTCAP." Manufacturers and distributors of all kinds of Bakelite Caps, and Stoppers of Polythene, Plastic and Rubber.

BAKERS AND CONFECTIONERS

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.

American Express Bakery.—A. E. B. House, Clare Road, Byculla.

Britannia Biscuit Co., Ltd.—Reay Road Bridge, East.

Clare Road Bakery.—"Win-Villa," 9, Clare Road, Byculla.

Hiscocks, E., & Co.—"Win-Villa," 9, Clare Road, Byculla.

J. B. Mangharam & Co.—12, Gunbow Street, Fort, Bombay.

Kyani & Co.—Jer Mahal Estate, Dhobi Talao.

Mahajan Bros.—Anand Nivas, Girgaum Road.

Marosa & Co.—13, Medows Street, Fort.

Pahelavi Bakery.—101, Umerkhady.

Palmer, A., & Co.—C-123, Cumballa Hill.

PARLE PRODUCTS MFG. CO. (PRIVATE) LTD.—Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams : 'VIHARI.' Factory : Vile Parle, Bombay 24. Phone : 86403.

Raj, H., & Company.— 93, Princess Street, Bombay 2.

Renown Biscuit Co.—Contractor Building, Connaught Road, Byculla.

Shaikh & Co.—94, Ali Umar Street.

Standard Bakery.—62, Nizam Street, Bhendi Bazar, Bombay 8.

Star Bakery.—180, Naigaum Cross Road, Dadar.

BAKERY & CONFECTIONERY REQUISITES

ROYAL TRADERS.—283, Nagdevi Street, Bombay 3. Phone : C/o 23671. Dealers in Bakery goods & Cardboard Trays & Fancy Paper Decorations & Provisions. Paper Ice-Cream Cups, Paper Napkins, Drinking Straws & Toilet Rolls, Christmas Novelties a speciality.

T. ALIMAHOMED & CO. (Estd. 1924).—Stockists of all sorts of Essences & other Baking Requisites. 44-46, Sarang Street, Bombay 3. Phone : 29131. Grams : "AERATORS." Sole Agents for the Diamond Aerating Gas Works Ltd., Bombay 3.

BALL AND ROLLER BEARINGS

Agarwal Machine & Engineering Stores.—55/57, Nagdevi Cross Lane, P. Box 3262, Bombay 3.

ALLIED BEARING COMPANY.—Maskati House, Shop No. 9, Bhajipala Lane, Bombay 3. Phone : 22270. Grams : "BALBEARING." Bearing Specialists, Direct Importers and Stockists of Ball, Roller, Thrust and Taper Roller Bearings.

ANIL BEARING STORES.—163, Narayan Dhuru Street, Bombay 3. Phone : 23552. Tel. Address : "CHEAPSTORE." Authorized Stockists : SKF and NBC Bearings, Ball Bearings, Taper Roller Bearings, Steel Balls.

Associated Export-Import Corporation.—381, Dr. D. N. Road, Bombay 1.

BALL BEARINGS & MACHINERY CORPORATION.—172-74, Nagdevi Street, Bombay 3. Phone : 23377. Grams : "BUSYAR." Sole Agents : "SEAL MASTER & SRO" Bearings. Authorised Distributors : R. & M., SKF, MAB & OVR Ball Bearings.

Batliboi & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate : Bangalore.

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone : 26-3479. Grams : "BISUKHI." Sole Agents for Kugelfischer Georg Schafer & Co., West Germany.

BHARAT TRADING CO.—Direct Importers & Distributors, 71, Nagdevi Cross Lane, Bombay 3. Grams : "FANBEARING." Phone : 29250.

BOMBAY BALL BEARING SUPPLYING CO.—349/353, Samuel Street, Bombay 3. Phone : 20051. Grams : "GOLABADAM."

Bombay Bearing Co.—126-28, Nagdevi Street, Bombay 3.

DHIRAJLAL & CO.—15, New Queen's Road, Bombay 4. Phone No. 27012, Res. : 63703. Grams: "RICEMILL." Importers and Distributors of Ball and Roller bearings, Stockholders of F.A.G. and SKF bearings and Distributors of TIMKEN & AETNA, U.S.A. Bearings.

Diwan Bors.—51, Nagdevi Street, Bombay 3.

Great Western Engineering Work.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.

Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay.

Heatly and Gresham Ltd.—9, Forbes Street, Fort.

INTERNATIONAL BALL BEARING CORPORATION.—151, Mutton Street, Bombay 3. Phone : 77309. Grams : "Atozroller". Dealers in Balls, Rollers & Thrust Bearings for Industrial & Automobile purposes.

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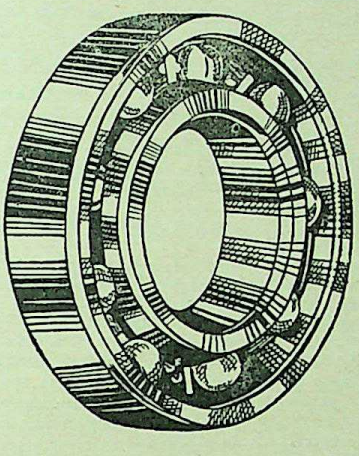
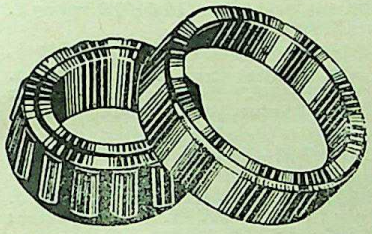
INTERNATIONAL BEARING CO.—61, Commercial Chambers, Musjid Bunder Road, Bombay 3. Tel. Address: "INTERDEAL." Phone No. 29851.

JAYANT BROTHERS.—71-D, Mohamedally Road, Post Box No. 3141, Bombay 3. Grams: "JAYANTBROS." Importers & Stockists of World renowned FAG Ball and Roller Bearings for Automobiles, Textile, Sugar and Paper Mills and other Industries; Wide range stocked.

Importers & Stockists
of
★ BALL
★ ROLLER &
★ TAPER ROLLER
BEARINGS
for
AUTOMOBILE & INDUSTRIAL PURPOSES



JYOTI AUTOMOBILES



Modi Chambers
French Bridge
Bombay-4.

Grams:
"BEARINGMAN"

Jayant Engineering & Mill Stores.—39, Nagdevi Cross Lane, Bombay 3.

Jahala, R. T., & Co.—9, Forbes Street, Fort, Bombay 1.

KAMLASHANKAR P. JOSHI & CO.—98, Nagdevi Cross Lane, Bombay 3. Phone: 22437. Grams: "KEPIJOSHI." Branch: Opp. Shivaji Statue, Shivajinagar, Poona 5. Manufacturers and Distributors of ball, roller, tapered roller bearings, steel balls and needle rollers.

KIRTILAL & COMPANY.—31, Bibijan Street (Barbhai Mohalla), Bombay 3. Phone: 23572. Grams: "PIPERENCH." Direct Importers and Stockists of Steyr Russian and Taper Ball and Roller Bearings.

MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phones: Office: 22868, Residence: 24-2425. Grams: "MACHTOOLS."

MASRANI MILL GIN STORES.—46, Nagdevi Cross Lane, Bombay 3. Phone: 20646. Grams: "BEARINGS." Direct importers and stockists of Ball, Roller, Thrust and Pedestal Bearings.

Mehta, J. V., & Co.—Opera House Tram Terminus, Bombay 4.

MODERN MACHINE TOOLS CO.—88, Nagdevi Cross Lane, Bombay 3. Phone: 39056, Grams: "MONKEYGRIP."

Motor Trade Supply Co.—Parikh Mansion, Sandhurst Road, Bombay 4.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone: 255346. Grams: "GULDASTA." Manufacturers of automobile parts, bicycle part, sockets, head cap screws, bolts, nuts, steel balls, etc.

New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 2.

P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 39100. Grams: "ETERNAL."

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Ball-bearings, Roller-bearings, Pedestals, etc.

PRADIP & CO.—44, Nagdevi Cross Lane, Bombay 3. Grams: "PEEGROUP." Specialised Stockists of Foreign Make Ball & Roller Bearings.

R. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, P. O. Box 452, Fort.

SHAH BROTHERS.—Sandhurst Building, 524, Sandhurst Road, Bombay 4. Grams: "TAPEROLLER." Tapered, Ball and Roller Bearings.

Skf Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 71, Bombay.

"BALL BEARING"
THE LIFE BLOOD OF INDUSTRY
For your requirements in
ALL TYPES OF
BALL & ROLLER BEARINGS
Consult:
STEELMAN'S CORPORATION
32, Apollo Street, Bombay I
Phone: 254719. Grams: "RIGHTWHEEL".

Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.

Universal Services Corporation Ltd.—457/9, Sandhurst Road, Bombay 4.

Upper India Trading Co., Ltd.—Ravel Building, Lamington Road, Bombay 4.

BARRELS & CASKS (WOODEN)

COOPER & SONS, DHANJIBHAI NAOROJI.—78/80, Kika Street (Gulalwadi), Bombay 4. Phone: 41459. Manufacturers of Wooden Casks, Barrels, Vats, Tubs, Flower Tubs, Oblong Tubs, Ice Cream Tubs of any size & shape. Regular suppliers to Chemical & Textile mills.

IMPERIAL CASK CO.—New Sun Mill Compound, Sun Mill Road, Lower Parel, Bombay 13. Leading Manufacturers of Tank-Wood Casks, Kegs, Tubs, Vats, Tanks, etc., Suppliers to Leading Pharmaceutical & Chemical Companies.

BATTERIES

AMZEL PRIVATE LTD.—Nusser House, New Queen's Road, Bombay 4. Main Agents for Exide Batteries for Maharashtra.

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Fort.

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Boiner Battery Mfg. Co. Private Ltd.—Shri Niwas Building, 335, Sandhurst Road, Bombay.

CHLORIDE & EXIDE BATTERIES (EASTERN) PRIVATE LTD.—Savoy Chambers, Wallace Street, Fort. Bombay I. Grams: "CHLORIDIC." Phone: 262188 (2 lines), G.P.O. Box No. 382. Calcutta Office: 59-C, Chowringhee Road, Calcutta 20. General Manager: H. R. Gregson. Bombay Manager: R. Knight. Sales Manager: H. V. Rossell. Calcutta Manager: A. B. Taylor.

ESTRELA BATTERIES LIMITED.—Yusuf Building, Veer Nariman Road, Fort, Bombay 1. Phone: 255161.

General Radio & Appliances Private Ltd.—Opera House, Bombay 4.

Himco (India) Private Ltd.—Head Office: Gandhi Building, 542, Sandhurst Bridge, Bombay 7. Main Works: Kurla Road, Andheri, Bombay 41. Phone: 86439. Gram: "Himcold".

Industrial Machinery & Tools Corp.—Indira Nivas, 1st Floor, Anantikabai Gokhale Street, Bombay 4.

Mehta Motor Stores.—Banji Nivas, Sandhurst Road.

Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.

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Provincial Motor Car Co., Ltd.—New Queen's Road, opp. Opera House, Bombay 4.

RUBY BATTERY CORPORATION (PRIVATE) LTD.—Manufacturers of Storage Batteries for Motor Vehicles, Tractors, Steam Launches, Radios, etc. Specialised in Heavy Duty Batteries, Exclusive Servicing: Automobile Electrical Jobs undertaken *e. g.* complete rewiring, Dynamo, Starter, Wiper, Fuel Pumps, Fuel Gauge, Short Circuit removing, etc. 31, French Bridge, Lila House, Chowpatty, Bombay 7. Phone: 73286. Grams: "RUBYLIGHT."

Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Standard Batteries Ltd.—Vakola. Bombay 25.

Union Carbide India Ltd.—Laxmi Building, Sir P. M. Road, Fort, Bombay 1.

Universal Services Corporation Ltd.—457/9, Sandhurst Road, Bombay 4.

BEARINGS AND SHAFTINGS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.

AJMERA BROTHERS.—192/A, Panjrapole Road, Near Madhav Baugh, Post Office, Bombay 4. Phone: 42628. Grams: "PULLEYBELT." Importers & Stockists of M. S. Bright Drawn Shaftings, Round, Square and Hexagonals.

DHIRAJLAL & CO.—31, Sindhi Lane, Nanubhai Desai Road, Bombay 4. Phone: 72592. Grams: "WILDERNESS". Importers and Stockists of M. S. Bright Drawn Shaftings, Round, Square and Hexagonals.

Essential Engineering Co.—11, Botawalla Building, Elphinstone Circle, Fort.

Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.

Mehta Nanavati & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists M. S. Bright Shaftings and Bearings.

BELTING (TEXTILE) MANUFACTURERS AND SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Altex Limited.—147, Esplanade Road, Fort, Bombay 1.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Ashok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort.

Associated Machine & Tool Co.—130, Medows Street, Fort.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.

Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort.

Birkmyre Brothers.—12, Rampart Row, Fort.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone: 22782. Grams: "CORPBOMBER." Distributors for "STAR" Brand Transmission Beltings and Hoses.

Bombay Mill Store Supply Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Vir Nariman Street, Fort.

Card Clothing & Belting Ltd.—J. K. Building, Graham Road, Ballard Estate, Fort.

CHIMANLAL SHAH & CO.—30, Mangaldas Road, Mangaldas Market, Bombay 2. Phones: Office: 23885. Res.: 76886. Grams: "DETECTO." Agents for Rohtas Vulcanised Fibre Sheets, Cards, Cans and "EAGLE" Belt Hooks.

DIWAN BROS.—51, Nagdevi Street, Bombay 3. Phone: 20361. Grams: "ALLBELT." Beltings of all varieties, Hair—Cotton—Elevator—Conveyor—Rubber Transmission Belts, Flat & Round & Leather beltings. Anything & Everything in Beltings & Ball-bearings.

EDGAR HANDLEY & CO. PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones: 253548 & 252934. Grams: "TROJAN."

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.

Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

HARJIMAL KIDARNATH & CO.—(Estd. 1811), 87, Nagdevi Cross Lane, Bombay 3. Phone: 30041 (Ext. 24). Grams: "CHAIN."

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

Honesty Trading Corporation.—27, Bombay Mutual Annexe, Gunbow Street, Fort.

Jashwantlal Maneklal & Co.—40, Veer Nariman Street, Fort.

Jayant Engineering & Mill Stores.—39, Nagdevi Cross Lane, Bombay 3.

Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay 1.

K. J. CORPORATION.—78, Ali Chambers, Tamarind Lane, Bombay 1. Phone: 254261. Grams: "KEJECORP." Importers, Exporters and Manufacturers' Representatives, Specialised and Stockists in Leather goods, such as Pickers, Leather Beltings, Buffers & Pickers Screws, etc. Wooden articles, Bobbins and Loom Sundries.

Kooverji Devshi & Co.—164, Lohar Street.

Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.

Mehta & Co., S.—Anees Chambers Annexe, Carnac Road, Bombay 1.

Merchants Bros.—151, Nagdevi Street.

M. Kantilal & Co.— 70, Nagdevi Cross Lane, Bombay 3.

Modern Machine Tools Co.—88, Nagdevi Cross Lane.

Modern Mill Stores.—97, Nagdevi Street, Bombay 3.

NEW HIND ENGINEERING CO.—63, Nagdevi Cross Lane, Bombay 3. Phone: 39123. Grams: "HINDENCO." Largest Stockists of Textile Beltings (Hair-Leather-Rubber Canvas, etc.).

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPIBELT." Authorised Distributors of 'DUNLOP' beltings, VEE-belts, Hoses & Trolley Wheels.

P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 39100. Grams: "ETERNAL."

Paradise Trading Corp.—73/75, Tamarind Lane, Fort, Bombay 1.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Beltings of all kinds, Hair, Rubber, Cotton & Leather, etc.

R. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone: 38621. Grams: "MANILAROPE." Distributors for Dunlop Beltings and Hoses.

Sheth, S. C. & Co., Private Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort, Bombay.

Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Textile Supplies Syndicate (India) Private Ltd.—India House, Fort, Street, Bombay 1.

Textile Works Ltd.—49/55, Apollo Street, Fort.

Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

Voltas Limited.—19, Graham Road, Ballard Estate, Fort.

Western India Tanneries Ltd.—Dharavi, Bombay 17.

BILLIARD TABLE MANUFACTURERS

D. S. COUTINHO & CO.—Billiard Table Manufacturers, etc. 91-93, D'Lima Street, Mazagaon, Bombay 10.

DAWSON & CO.—24, Parsee Bazar Street, Fort, Bombay 1. Phone: 251017. Grams: "CUSHIONS." Billiard Table Makers, Wood Working Machines, Machine Tools, Furniture, Fretwork, etc.

SHERATON & CO.—Works & Office: 131, Medows Street, Fort. Phone: 255430. Furniture & Billiard Table Manufacturers.

BISCUIT MANUFACTURERS

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay 1.

Britannia Biscuit Co., Ltd., The.—Bombay Office and Factory: Reay Road Bridge, East. Tel. Address "BOMBISKET." Phone No. 73581 (2 lines).

Carr & Co., Ltd.—Imperial Chambers, Ballard Estate.

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HUNS DEWAN & CO.—P. B. No. 4518, 158, Upper Duncan Road, Byculla, Bombay 8. Telephone No. 74139. Telegraph Address: "BISCUITS." High Class Biscuits Manufacturers.

J. B. Mangharam & Co.—12, Gunbow Street, Fort, Bombay.

PARLE PRODUCTS MANUFACTURING CO. (PRIVATE) LTD.—Thackersey House, Graham Road, Ballard Estate, Bombay. Phone: 263906. Grams: "VIHARI." Factory: Vile Parle, Bombay 24. Phone: 86403.

Renown Biscuit Co., The.—Connaught Road, near Victoria Gardens, Bombay 27.

Shangrila Food Products Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort.

Spencer & Co. Ltd.—Spencer's Building, Forjett Street, Bombay 26.

BLOCKS (PROCESS) MAKING MACHINERY SUPPLIERS

GUNVANTRAY & CO.—Crescent Chambers, 1st Floor, Tamarind Lane, Bombay 1. Grams: "GUNARAYCO." Phone: 254684.

BLOWERS

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayavada. Associate: Bangalore.

UNITED INDIA ENGINEERING CO.—6, Commerce House, Medows Street, Fort, Bombay 1. Phone: 251492. Grams: "UNICONARAM." Engineers and Machinery Dealers. Sales & Show Room: 78, Old Custom House Road, Fort, Bombay.

WILLIAM JACKS & CO., LTD.—Bharat House, Apollo Street, Bombay. Distributors for Steel Plant (Pvt.) Ltd., Bombay. Industrial Blowers.

BOBBINS AND SHUTTLES

Acme Bobbins & Shuttles Private Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Altex Private Limited.—147, Esplanade Road, Fort, Bombay 1.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Empire Trading Co.—76-A, Ali Chambers, Tamarind Lane, Fort.

Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

Indo-Textile Stores, The.—16, Apollo Street, Fort, Bombay 1.

Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. Phone: 31782. (Healds, Reeds, Wire healds and Shuttles.)

Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.

Mehta Parikh & Co.—45-47, Apollo Street, Fort.

Modern Mill Stores.—97, Nagdevi Street, Bombay 3.

Modern Shuttles Manufacturing Co., Ltd.—15, Forbes Street, Fort.

National Trading Company.—263, Hornby Road, Fort, Bombay 1.

N. Kishore & Co.—39, Podar Chambers, Parsee Bazar Street, Bombay.

ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29-A, Alli Chambers, Dean Lane, Fort. Phone: 252428. Grams: "OMILLCO."

Paramount Textile Agency.—45/47, Apollo Street, Fort, Bombay.

Piroz N. Motabhoy & Co., Ltd.—Motabhoy Building, Corner of Medows and Forbes Street, Fort, Bombay.

R. R. JINDE & CO.—14, Mohan Nivas, Chandavarkar Road, Bombay 19. Grams: "GOLDENHILL."

Roberts McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

Sardesai & Company.—14, Murzban Road, Fort, Bombay.

SHAH BROS. & CO.—Raja Bahadur Compound, 24B, Hamam Street, Fort, Bombay 1. Phone: 254590. Grams: "MILL-VEPARI." Specialists in Bobbins, Shuttles & Textile Mill accessories and Yarn Merchants & Exporters.

Shamsun & Co.—11, Bruce Street, Fort.

Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

Texmaco (Gwalior) Ltd.—Gwalior. Sales Office: 254-A, Annie Besant Road, Bombay 18.

Universal Textile Bobbin Co.—164, Lohar Street, Bombay 2.

Voltas Ltd.—19, Graham Road, Ballard Estate.

Wilson Brothers Bobbin Co., Ltd.—Seksaria Chambers, 139, Medows Street, Fort.

BOILER MOUNTINGS & FITTINGS

Autogenous Weldings Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.

CRESCENT TRADING CO.—48, Bhajipala Lane, Bombay 3. Phone: 29840. Grams: "WATER METER." Stockists of Pipes, Fittings, Cocks, Acid Resisting Valves, etc.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

KILBURN & CO. LTD.—Gresham Assurance House, Pherozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39545. Grams: 'REDJOINT'.

NAYAK TRADING CO.—151, Sarang Street, Bombay 3. Phone: 23548. Our Specialities: Gun Metal Wheel Valves with renewable Nickel seat & Disc for High Pressure Steam & Cast Iron Valves of every description, C. I. Pipes & Specials.

PATEL BROTHERS & CO.—41, Nagdevi Cross Lane, Bombay 3. Phone: 20606. Grams: "HASTY." All imported and indigenous high pressure cocks, valves and other boiler accessories.

BOILER TUBES & ACCESSORIES

M. J. PATEL & CO.—177, Nagdevi Street, Bombay 3. Phone: 39183. Grams: "REDTEE." Direct Importers & Stockists: G.I. & Steam Pipes, Boiler Tubes & Valves, C. I. Pipes & Specials, Hydraulic Pressure Tubes. Manufacturers of Steam Flanges.

OCHHAVLAL, R., & CO.—86, Nagdevi Street, Bombay 3. Phone: 30114, Grams: "VALVES." Pipe Fittings, Asbestos Goods, Valves & Cocks & Boiler Mountings.

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Shalebhoy Tyebjee & Sons.—22, Bruce Street, Bombay.

BOILERS

ORIENTAL ENGINEERING CO.—25, Forbes Street, Fort, Bombay 1. Phone: 253057. Grams: "ADIVISHNU." Dealers in Second-hand Boilers, Vertical, Lancashire, Loco-type & Multi-Tubelar Boilers, etc.

BOILERS—AGENTS, PRESERVATIVES AND COMPOSITIONS

Ardeshir D. Wadia & Sons.—93, Apollo Street, Fort.

Autogenous Welding & Repair Co., Private Ltd.—63, Ferguson Road, Bombay 13.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

Daver, B. F., & Co.—Appa Baug Estate, 41, Queen's Road.

Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

Hardcastle, Waud & Co., Ltd.—Alice Buildings, Hornby Road, Fort.

Heatly and Gresham Ltd.—9, Forbes Street, Fort, Bombay.

Kooverji Devshi & Co. Private Ltd.—164, Lohar Street.

Moloobhoy, Ahmed S., & Sons.—281, Nagdevi Street.

Pioneer Magnesia Works Ltd.—113, Mahatma Gandhi Road, Fort, Bombay.

PUNEGAR, N. E., & CO.—Boiler, Economiser, Steam Plant, Solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone: 253178. Telegrams: "ACMECOMPO", Bombay.

Richardson & Cruddas.—Byculla Ironworks, Parel Road.

Roberts McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay.

THAKKAR TRADING COMPANY.—57, Sardar Vallabhbhai Patel Road, Dongri, Bombay 9. Grams: "TITICO." Phone: 74200.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

"BOLINJKAR" BELT LACINGS

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

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BOLTS, NUTS, SCREWS AND NAILS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : 'ALERTDEAL'.

Abdulkhadar Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.

Abdullabhai Faizullabhai Ltd.—Khoka Bazar, Bombay 3.

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

Automotive Hardware Corp.—93, Narayan Dhuru Street, Bombay 3.

Bharat Trading Co.—316-A, Vithalbhai Patel Road.

BHARATI INDUSTRIES.—Manufacturers of Precision Components for Automobile, Electrical & Engineering Industry. Factory : Hirji Govindji Compound, Godown No. 30. Tokarshi Jivraj Road, Sewri, Bombay 15. Phone : 78355. Grams : "BRIGHTNUT."

Bhutt Brothers.—163, Nagdevi Cross Lane, Bombay 3.

Bombay Engineering & Metal Works.—Dehgamwalla Chambers, Nesbit Road, Bombay 10.

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Grams : "SISTACHAR." Stockists of Hardware, Screws, Bolts, Nuts, Shoe Materials, Woodworking & Metal Cutting Saws, Engineering Stores & Saw Files.

Brady, W. H., & Co., Ltd.—Churchgate Street, Fort.

C. Amichand & Co.—46/A, Abdul Rehman Street, Bombay 3.

C. Parekh & Co.—103, Bhajipala Lane, Bombay 3.

CHAMPION BOLTS & NUTS CO.—4, Modi Chambers, Kennedy Bridge, Bombay 4. Phone : 72664. Grams : "CHAMPBOLT." Wholesale & Retail Dealers in all kinds of Auto Bolts, Nuts, Rivets, Washers, etc.

Dhani Ram & Sons.—236, Musjid Bunder Road, Bombay 3.

EAST ASIATIC COMPANY (INDIA) PRIVATE LTD., THE—Wavell House, Graham Road, Ballard Estate, Bombay. Phone : 26-2711 (8 lines). Offices at : Madras, Calcutta, New Delhi.

EVERGREEN CORPORATION.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 2. Grams : "GREENLEAVE." Manufacturers of all shapes, sizes, bolts, nuts, rivets, screws and washers in metals.

Fazalbhai & Bros.—26, Sarang Street, Bombay 3.

FREE INDIA METAL PRODUCTS CO.—65-67, Bhajipala Lane, Bombay 3. Phone : 38924. Grams : "ROUNDBOLT." Manufacturers & Stockists of Bolts, Nuts, Rivets, Washers, Screws & Hardware Materials.

Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Fort, Bombay 1.

Great Eastern Hardware Stores Private Ltd.—132, Sarang Street, Bombay 3. Phone : 29663. Grams : "WINGROVE."

GUEST, KEEN, WILLIAMS, LTD.—Wakefield House, Sprott Road, Ballard Estate, Post Box No. 575, Bombay 1. Phone : 261302 (3 Lines). Grams : "POINTSMAN."

Harjimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3. Phone : 29027. Grams : "JAIRAMDAS."

Jaswantlal Maneklal & Co.—40, Churchgate Street, Fort.

Jaysukhlal & Bros.—82-86, Abdul Rehman Street, Bombay 3.

Kadakia Trading Corporation.—23, Bibijan Street (Nagdevi), Bombay 3. Phone : 29493. Grams : "STEAMTRAP."

MANILAL SHETH & BROS.—Congress House, Vithalbhai Patel Road, Bombay 4. Phone : 71481. "Importers of SAE Bolts and Nuts and Spring Centre Bolts. Grams : "RIVET."

MOHANLAL & CO.—144, Diamond Bldg., Lohar Street, Bombay 2. Phone : 30916. Grams : "HARDSTOCK." Bolts, Nuts and Screws and Everything Hardware.

MULLA TAYEBALI MULLA NOORBHOY.—175, Janjikar Street, Bombay 3. Phone : 38834. Grams : "TANOOR". Specialists in Hinges, Screws, Bolts, Nuts & Nails and Sole Selling agents for Brass Cups & square hooks No. 110.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone : 23058. Grams : "TENDERERS."

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone : 255346. Grams : "GULDASTA." Manufacturers of automobile parts, bicycle parts, sockets headcap screws, bolts, nuts, steel balls, etc.

NETTLEFOLDS OF INDIA LIMITED.—Wakefield House, Sprott Road, Ballard Estate, Post Box No. 1502, Bombay 1. Phone Nos. 261302 (3 Lines). Grams: "NETTLEFOLD."

Patel, U. D., & Co.—11, Bank Street, Fort.

PRADEEP & CO.—Kothari Mansion, Parekh Street, Bombay 4. Stockists of Automobile Bolts & Nuts, Grease Nipples, Wire Springs, Auto Bulbs, Clutch Parts, Pistons & Hub Drums.

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Shah Chhaganlal Ladhubhai.—58, Mudi Bazar (Mandvi), Bombay 3. Phone : 34522.

Siriram & Co.—97, Narayan Dhuru Street, Bombay 3.

S. MOHANLAL & CO.—Pathakwadi, Lohar Chawl, Bombay 2. Phone : 27540. Grams : "SOCKETREWS." Direct Importers and Manufacturers of Bolts, Nuts & Screws.

Soho House.—Vithal Sayana Building, Lohar Street.

Sulemanjee Valijee Kutiyanawalla & Co.—Kika Street, Null Bazar.

TARASINGH HARBINDERSINGH.—190, Princess Street, Bombay 2. Phone : 28358. Grams : "ORGANDIES." Manufacturers of Bright polished steel Nuts & Studs in S.A.E., B.S.W., M/M threads ranging from 5/16" to 1/8". Factory : 1. Agra Road, Bhandup, Bombay.

TYEBALLY DAWOODJI.—(Estd. 1865), 87, Sarang Street, Bombay 3. Phone : 34862. Grams : "FOOTRULES." Stockists of John Baker's, J.K.'s and Hindustan's Files. Dealers in Files, Bolts, Nuts, Screws and Hinges, etc.

Vora Brothers.—34, Bibijan Street, Bombay 3.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhuru Cross Lane, Bombay 3. Grams : "VISCOSITY." Phone : 28730.

BOOK-BINDING MACHINERY SUPPLIERS

GUNVANTRAY & CO.—Crescent Chambers, 1st Floor, Tamarind Lane, Fort, Bombay 1. Phone : 254684. Grams : "GUNARAYCO."

BOOKBINDING CLOTH MANUFACTURERS & DEALERS

Balsara & Co. Private Ltd.—43, Medows Street, Fort, Bombay 1.

GANDHI, R., & CO.—50-52, Sheriff Devji Street (Chakla), Bombay 3. Grams : "VALIATEX." Distributors of Fancy Imitation Paper & Calico.

Leather Cloth Processors & Printers.—Moghul Lane, Matunga, Bombay 16.

Royal Paper Stores.—187-89, Abdul Rehman Street, Mapla Bldg., Bombay 3.

BOOKS (ACCOUNTS & EXERCISES) MANUFACTURERS

A. G. BOOKWALA & CO.—9, Mirza Street, Bombay 3. Phone : 34925. Manufacturers of well-known "Good Luck" Exercise Books, Note, Letter & Duplicate Books and all sorts of Account Books. Grams: "EXERCISES."

CRYSTAL STATIONERY MART.—Manufacturing Stationers, 146, Abdul Rehman Street, Bombay 3.

Deelip Stationery Mart.—290, Abdul Rehman Street, Bombay 3. Phone : (Office) C/o 20343 ; (Factory) 28078. Grams : "AZADPAPER." Manufacturers of all kinds of Exercise Books, Letter Books, Rojmel Diaries, Account Books, Duplicate Books, Examination Books, etc., etc.

FEDERAL BOOK MFG. DEPOT.—23, Mirza Street (Parsi Gully), Bombay 3. Grams: "FEDERALBOOK." Phone Nos. Shop : 23978. Factory: 70469. Printers, Calendars, Account Books, Office Files, Exercise Books, Diaries & Paper Stationeries Manufacturers.

FIDVI PRINTING PRESS.—179, Abdul Rehman St., Bombay 3. Manufacturers of Accounts and Exercise Books, Office Files, New Year Diaries, Calendars and Refills and other advertising Novelties. Phone : 22415. Grams : "FIDVLPRESS."

ROTAPRESS PRIVATE LTD.—Rahimtoola House, Homji Street, Fort, Bombay 1. Phone : 25-1144. Grams : "TARPO." Sales Depot : 82, Bhajipala Lane, Bombay 3. Phone : 23998. Manufacturers of "Bul-Bul" & "Myna" Brand exercise books.

SURESH STATIONERY MART.—285, Abdul Rehman Street, Post Box No. 3056, Bombay 3. Phone: 23397. Grams: "SURESHBOOK." Manufacturers of "JOCKEY BRAND" Exercise Books, Letter Books, Duplicate Books, Examination Papers, Etc.

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BOOKSELLERS, PRINTERS AND PUBLISHERS

Allibhoy Sharafally & Co., Ltd.—373, Ebrahim Rahimtullah Road.

ALLIED PUBLISHERS PRIVATE LTD.—Head Office: 15, Graham Road, Ballard Estate, Bombay 1. Phone: 261959. Grams: "FOLIO." Branches: 17, Chittaranjan Avenue, Calcutta 13 and 13/14, Asaf Ali Road, New Delhi.

Allied Publishers and Stationery Manufacturers, Ltd.—Stronach House, 15, Graham Road, Ballard Estate.

ANAND BOOK DEPOT.—155, Lady Jamshedji Road, Mahim, Bombay 16.

ASIA PUBLISHING HOUSE.—Contractor Building, Nicol Road, Ballard Estate, Bombay. Phones: 263051; 261431. Cables: "BOOKLORE." Branch Offices: 67, Ganesh Chandra Avenue, Calcutta 13; "East View," 199, Mount Road, Madras 2; India Palace, Connaught Circus, New Delhi 1; 447, Strand, London W.C. 2; 119, West 57th Street, New York 19, N.Y.

ASIAN TRADING CORPORATION.—1-A, Nazir Building, Calicut Street, P.O. Box No. 1505, Bombay 1. Sales Office: 310, Mirabelle Hotel, 33/A, Marine Lines, Bombay 1. Phone: 262575. Grams: "AJPIPAS." Importers of all types of books including children's and Religious books.

BENNETT, COLEMAN & CO., LTD.—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

Blackie & Sons (India), Ltd.—103/5, Fort Street, Bombay 1.

Bombay Book Depot, The.—217, Charni Road, P.O. Girgaum, Bombay 4.

BOOK CENTRE (PRIVATE) LTD.—Ranade Road, Bombay 28. Phone: 61011. Grams: "BOOKSWORLD".

CLARIDGE, G., & CO., LTD.—Frere Road, Fort, Bombay 1. Phones: 263201 & 263202. Grams: "EGDIRALC." Security Printers, Photo-Offset, Book-Binders, Carton and Packaging Experts.

Co-operators' Book Depot (Estd. 1935).—9, Bakehouse Lane, Fort, Bombay 1.

Current Book House.—Maruti Lane, Raghunath Dadaji Street, Bombay 1.

Educational Publishing Co.—17, Benham Hall Lane, Girgaum, Bombay 4.

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Grand Woodworks & Saw Mills.—Connaught Cross Road, Ghorupdeo.
Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.
HARDCASTLE & WAUD MANUFACTURING CO., PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Tel. Address: "WAUDCO."
Jai Bharat Brush Co.—278, Suparibaug Road, Parel, Bombay 12.
KEWALRAJ & CO. PRIVATE LTD.—369, Girgaum Road, Bombay 2. Phone: 39165 (Office); 74176 (Factory). Manufacturers of Paint Brushes, Artists Brushes, Industrial, Toilet, Domestic Brushes, Cotton Waste, Garments & Railway Signal Lamps, etc.
Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay.

BUCKETS, BARRELS, DRUMS AND HOLLOWWARE MANUFACTURERS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: 'BRIBOS' Phones: 77454 & 77455. Manufacturers of Buckets, from plastic materials (polythene) impervious to many chemicals including Acids.
Chandrakant Vasantlal & Co.—New Islam Mill's Compound, 38, Currey Road, Bombay 13.
Great Western Engineering Works.—"Sea View," 1st Pasta Lane, Colaba, Bombay 5.
Hassambhoy Jetha.—Opp. Byculla Goods Depot, Parel Road, Bombay 27.
Standard Drum & Bucket Factory.—232, Bellasis Road, Bombay 8.
TAYBI BUCKET FACTORY.—Manufacturers of Buckets, Drums, Containers and other household articles; Showroom: 174/178, Janjikar Street, Bombay 3. Phone: 29845. Grams: "HORSEBRAND." Factory: Ripon Road Cross Lane, Bombay 8. Phone: 42208.

BUILDERS AND CONTRACTORS

Abdulhusein Esoofally Contractor.—91-93, Bapu Khote Street, Bombay 3.
Ahmed Noormohmed Chunawala & Co.—338, Ghodbunder Road, Andheri.
Allied Construction Co., Ltd.—Pannalal Bansilal Mansion, 24-B, Hamam Street, Fort.
Arunaday Engineering Corp.—Navsari Chambers, Outram Road, Bombay 1.
Concrete Construction & Engineering Co., Ltd.—Churchgate House, Churchgate Street, Fort.
Cooverji Hormusji & Sons, N. (Est. 1895).—598, Wadia Bldg., Chira Bazar, Girgaum Road, Bombay 2. Phone: 39919.
Gammon, India Private Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
GHANSHAM & CO.—Engineers, Builders & Contractors, 18, Court House, 2nd Floor, Carnac Road, Dhobitalao, Bombay 2. Phone: 22438.
Hindustan Construction Co., Ltd.—Construction House, Ballard Estate, Bombay.

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JILKAR, M. R., & CO.—Builders & Contractors, 34-38, Hamam Street, Fort, Bombay. Phone : 253557.

JOLLY BROTHERS PRIVATE LTD.—Engineers & Contractors, Lakshmi Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phones : 263888/9. Grams : "JOLLYBROS."

Kanji Govind Kerson.—Murbad Road, Kalyan.

KARACHI ENGINEERING CO.—42, Khorshed Bldg., Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone : 26-2801. Grams : "ACCIDENT." Stockists for 'Everest' Bigsix & Trafford Sheets, Building Boards & Accessories, Pipes, Cutter & Fittings, Contractors for Supply & Fixing A.C. Materials, Supply & Fabricating Steel for Industrial Sheds and General Contractors.

KHANNA & CO., S.—Mustafa Building, Sir Phirozshah Mehta Road, Fort. Grams : "CRETECO," Bombay. Phone : 251162. Engineers, Builders and Quarry Owners.

Lallubhai & Co.—Prospect Chambers Annexe, Hornby Road, Fort.

LEVKA PRIVATE LIMITED.—Civil Engineers, Builders & Contractors. Office : Sleater Road, Bombay 7. Phone: 42717.

McKenzies Ltd.—Sewri.

Mohanlal & Co.—491, Duncan Road, Bombay 4.

NATIONAL ASPHALT PRODUCTS & CONSTRUCTION CO.—Hill View, Mahul Road, Chembur, Bombay 71.

NEW BHARAT BUILDERS.—Central Bank Bldg., Bruce Street, Fort, Bombay. Phone : 254122. Grams : "NISC." Engineers and Building Contractors.

P. DINSHAW & CO.—Spinner Building, 8/10, Tamarind Lane, Fort, Bombay. Phone : 253404. Builders & Contractors.

Premier Construction Co., Ltd.—Construction House, Ballard Estate, Fort, Bombay.

Shah Construction Co. Ltd.—198, Jamshedji Tata Road, Bombay 1.

SHALIMAR TAR PRODUCTS (1935) LTD.—16, Bank Street, Fort, Bombay 1. Phone : 252185. Grams : "TARSTIL." Specialists in Prestressed Concrete Design and Construction.

Shapoorji Pallonji & Co.—70, Medows Street, Fort.

Simplex Concrete Works & Construction Co.—"La Citadelle", 32, Queen's Road.

Tejoo Kaya & Co.—Tejoo Kaya Park, Vincent Road, Matunga, Bombay 19.

Timber Wood Syndicate.—Ghodbunder Road, Andheri, Bombay. Phone : 86673.

United Construction Corporation.—Shrinivas House, 3rd Floor, Waudby Road, Fort.

Victoria Sanitary Stores, 3rd Bhoiwada, 54, Bhuleshwar, Bombay 2.

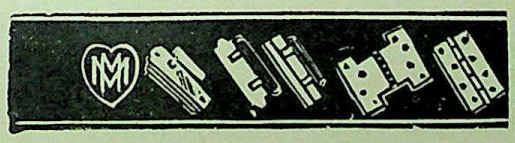
BUILDERS HARDWARE

A. K. Porbandarwalla Sons.—Ruby Mansion, 19, Parsee Bazar Street, Bombay 1.

ELECTRIC BRASS WORKS FACTORY.—(Prop. G. Chimanlal & Co.), 91, Sarang Street, Bombay 3. Phone : 22637. Grams : "SCISSOR". Manufacturers of High quality Builders Hardware. Factory : 1st Panjrapole Lane, C.P. Tank Road, Bombay.

Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.

LOOKMANJI MOOSAJI.—138-40, Lohar Chawl, Bombay 2. Phone : 20261. Grams : "CURTAINS." Manufacturers of Brass Building and Furniture Fittings. Also Fittings for Sliding and Folding Doors, Locks and Latches, Hinges, Bolts, Door Closers, Casters and Service Station Equipment Spare parts.



MEHTA MANUFACTURERS
Shop No. 25-A, Sarang Street, Khokha Bazar, Bombay-3

ALWAYS USE
M. M. BUILDING HARDWARE

R. PANCHAL WORKS.—37, Sindhi Lane, Bombay 4. Manufacturers of all types of Locks and Brass Hardware and Building Fittings.

Micro Metal Works.—22, Narayan Dhuru Cross Lane, 1st Floor, Bombay 3.

Stanley Works, The.—44, Lakshmi Bldg., Sir Pherozshah Mehta Road, Bombay 1. Phone : 262737. Grams : "STANLEYWORX".

Teka Hardware & Engineering Corp.—82-86, Abdul Rehman Street, Bombay 3.

Vertex Manufacturing Co. Private Ltd.—9, Wallace Street, Fort, Bombay.

BUILDING MATERIALS

A. M. LAKDAWALLA.—23, Dhaboo Street, Bombay 3. Phone : 71266. Grams : "STRONGTEAM." Authorised Stockists for "Everest" Asbestos Cement Big Six and Trafford sheets and accessories, Building Boards, Pipes, Cutters & Fittings. Also authorised dealers for A.C.C. Cement. Supply, Fabrication & Erection steel for Industrial sheds and building contractors.

ABBA GANI & CO.—1-2, Victoria Road, Mazgaon, Bombay 10. Phone : 40785. Grams : "TEAKTIMBER." Merchants and Contractors; Largest Stockists in Bombay of Burmah and Indian Teak, Jungle & Deal Wood, Bamboos & Scaffolding Materials on hire and for sale; Owners of Mustafa Saw Mills.

Alsales Ltd.—9, Wallace Street, Bombay 1.

Amir & Sons.—70, Pydhonie Road, Khadak, Bombay 9 ; Dealers in Timbers, Bamboos and Bamboo Mats of all sizes ; Scaffolding Materials like bamboos, Planks, ladders, Mundas and Bullies, etc. can be had on hire.

Arco Steels.—Prospect Chambers Annexe, Hornby Road, Fort.

B. S. MOHINDAR & CO.—45-1, Gowalia Tank Road, Bombay 26. Phone : 42495. Grams : "BIMOHINDAR."

Chandulal Narandas.—96, Kika Street, Bombay 4.

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. (Post Bag 10076). Phones : 251517/8. Grams : "DERAC". Manufacturers of Thermocole Boards for false Ceilings and Acoustical Tiles.

Heatly and Gresham Ltd.—9, Forbes Street, Fort, Bombay.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.

Mahomed Janmahomed.—68, Pydhonie Road, Khadak, Bombay 9. Phone : 70663. Scaffolding Materials as Bamboos, Ballies, Folding Ladders, Wooden Planks, etc. can be had on hire and sale.

NATSON MANUFACTURING CO.—Bombay Mutual Chambers, 19, Hamam Street, Fort, Bombay. Phone : 254221. Grams : "GLOBULAR." Works : Odhav, Ahmedabad. Phone : 52088. Grams : "DAMPPROOF." Manufacturers of Concrete Hardener, "Rite-Sil" Waterproof Cement Paint, "N.C.W." Cement Waterproofer, Acid & Alkali Resisting Cements, 'Prontocet' Rapid Hardening & Quick Setting Liquid for Cement, Cement retarders & plastisizers.

NENSHI MONJI.—123, Mahatma Gandhi Road, Bombay 1. Contractors, Sand and Stone Suppliers. Phone : 251054 and 255048. Bhoiwada Quarry 61150; Sand Dept. : 40186.

NEW INDIA MOSAIC AND MARBLE CO. PRIVATE LTD.—Manufacturers of "NIMMCO" Plain Cement and Mosaic Flooring tiles in wide range of patterns, and innumerable attractive shades and combinations, Pietra (Terrazzo) and chequered tiles and steps for heavy duty ; Precasted Mosaic slabs, "Durus" Heavy Duty Tiles and Acid Resisting Cement. Dealers in Artistic Articles of Marble, Finished Marbles tiles and slabs of the finest quality in varieties and colours. Also undertaking works of Decoration of Buildings in Tiles, Situ (Terrazzo Work) and marble. Bombay Office & Factory : Industrial Estates, Lalbaug, Bombay 12. Jabalpur Office : 13/2, Ganjipura, Jabalpur. Jabalpur Factory. Simplex Estates, Nagpur Road, Jabalpur. Bombay Phone : 41773, Jabalpur Phone : 889. Grams : "NIMMCOTILE," Bombay ; "NIMMCOTILE," Jabalpur.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

Simplex Timber Mart.—64-66-68, Pydhonie Road, Khadak, Bombay 9 (India). Phone Call On : 76794. Grams : "LADDERMAN". Municipal Contractors, Dealers in Bamboos and Bamboo Mats, manufacturers of all kinds of Single, folding, Sliding, Extension and wheeled tower ladders, boat oars and flag poles etc.

Teamsan Traders.—Post Box No. 3162, Nagdevi Street, Bombay 3.

WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. "JAXBOARD"—multi-purpose Building and Insulation board. Factory at Dhampur, Uttar Pradesh.

BUILDING AND CONSTRUCTION MACHINERY

JOHN FOWLER (India) LTD.—Marshalls Building, Ballard Road, Bombay 1. Phone : 263059. Grams : "TRACTION." Road Building & Construction Machinery Merchants.

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BULLION

Begraj Gupta.—207, Kalbadevi Road, Bombay 2.

Hemchand Mohanlal & Co.—Deoki Bhuwan, Dhanji Street, Bombay 3.

Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort.

Merwanjee Bomanjee Dalal.—45-47, Apollo Street, Fort, Bombay.

MOTILAL VIJBHUKHANDAS.—155, Shaikh Memon Street, Bombay 2. Manufacturers of "KAMAL" Bars & Dealers of Gold, Silver and Sovereigns Ready & Forward. Importers & Exporters of Chemicals, Drugs, Medicines, Cloth Jari, Securities, Shares & General Merchandise. Phone: 22537. Grams: "AMIABILITY."

Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay 2.

Ramsarup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.

BULLION SMELTERS & SHEETS MAKERS

Dosabhai Rustomji Choksi & Co.—1st Agiary Lane, Kharakuva, Zaveri Bazar, Bombay.

CABLES & WIRE MFRS.

ANUPAM ELECTRIC COMPANY.—Rajabhadur Bldg. Compound, 3rd Floor, 24-B, Hamam Street, Fort, Bombay 1. Phone: 253389. Stockists of I.C.C. and NICCO Cables.

ASHOKA METALS & ELECTRICALS INDUSTRIES.—Head Office: Ashoka Udyog Bhavan, Industrial Estate, Udhna. Mfrs. of Copper & Non-Ferrous Metals, Rods, Strips & Wires. Branch: 174, Kika Street, Bombay 4.

ASIAN CABLES CORPORATION LTD.—Manufacturers of Rubber and Plastic Insulated Electric Wires & Cables. Office: Navsari Building, 240, Dr. Dadabhoy Naoroji Road, Fort. Grams: "KOTAKASIAN." Phone Nos.: 263334 & 263335. Factory: Pokhran Road, Majiwade, Thana. Products: Rubber Insulated and Plastic Insulated Wires & Cables including Special Cables; Underground Paper Plastic Insulated Power Cables; Super Synthetic Enamelled Wires, etc.

BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawala Building, Lohar Chawl, Bombay 2. Dealers: M.E.M. Copper-wires, Fans, Meters, Accessories & Everything Electrical. Grams: "BIPINDEV." Phone: 30684. Sole Agents for "TROPEX CABLES," VIR-CTS and Weather Proof and Finolex Plastic Cables and Philco Resin Cored Solder Wire.

Bombay Insulated Cables & Wires Co.—10, Himalaya House, 79, Palton Road, Bombay 1.

British Insulated Callender's Cables Ltd.—Esplanade House, Waudby Road, Bombay 1.

COSMIC TRADERS.—Yusuf Bldg., Veer Nariman Road, Bombay 1. Phone: 253224. Grams: "YANTRYUG." Underground Cables, Wires and Accessories.

DASWANI BROS.—53, Queen's Road, Opp. Marine Lines Station, Bombay 2. Phone: 34617. Grams: "CIRCLINE." Agents: "TPI" Plastic Wires, GNE Electric Brass Holders, Bakelite Switches, "RECORD" Tube light Holders & D.B. Electric Accessories.

Devidayal Cable Industries Private Ltd.—Darukhana, Reay Road, Bombay 10. Phones: 70558-59/73586. Grams: "DEVISTEEL".

ELDE CORPORATION.—Ismail Building, 381, Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 251774. Grams: "CAXTONE." Sole Selling Agents "ELDE" Cables, V.I.R.—C.T.S. and Weather Proof manufactured by Swastik Rubber Products, Ltd., Poona 3. "CF" Black insulating Adhesive tape and "CF" yellow Varnished (Empire) Cloth and tape manufactured by Coated Fabrics, Dadar, Bombay 14.

FINLAY, JAMES & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Post Box 73, Bombay. Phone Nos. 251255-59.

Fleming, John, & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

Indian Cable Co., Ltd.—Esplanade House, Waudby Road, Bombay 1.

JARIWALA ISHVERLAL JEKISANDAS & CO.—174, Kika Street, P.O. Box 3584, Bombay 4. Grams: "BIJLITAR." Factory: Bandugara Naka, Surat. Phone: 529. Grams: "COPPERWIRE." Manufacturers of Electrolytic Hard-drawn Bare, Copper Conductors of all sorts of Wires and Non-ferrous Metal Semis.

JOHNSON & PHILLIPS LTD.—Kaiser-i-Hind Building, Currimbhoy Road, Ballard Estate, Bombay. Phone: 262457. Grams: "JOHNPHIL."

JYOTI WIRE INDUSTRIES.—164, Kika Street, Bombay 4. Phone: 70802. Grams: "OVERHEAD." Manufacturers of Hard Drawn Bare copper conductors, D.C.C. Wires, soft binding wires and copper wire for electrical cables. Manufacturers of copper strips, copper rods in all sizes. Factory at: 42/50, Alli Umer Street, Bombay 3 and Sonawala Estate, Goregaon (East), Bombay.

NATIONAL ELECTRIC COMPANY.—101, Himalaya House, Palton Road, Bombay 1. Phone: 265573. Grams: "BILLION." Manufacturers of P.V.C. Wires, Insulated Wires and Cables Sheets, Films, Pipes, Sleevings and Tubings, etc.

National Supply & Distributing Agency.—Jay Mahal, 20-48, Lohar Chawl, Bombay 2.

PLASTICABLES PRIVATE LTD., THE.—Lentin Chambers, Dalal Street, Fort, Bombay. Phone: 254893. Grams: "POLYMER." Manufacturers of "VINOLITE Brand: P.V.C. insulated wires & cables, Auto-Cables, P.V.C. Insulation tape, P.V.C. Sleevings and Tubings and all types of P.V.C. Extruded Products.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone: 38551. Grams: "RUBBERGOODS." Manufacturers of Rubber Insulated Cables (V.I.R.-C.T.S. and Weather Proof etc.).

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone: 255297. Underground Cables, Cable Boxes & Jointing Materials, V.I.R. Binding & Insulating Wires, Copper Strips, Laying of Cables, Erection of transformers, alternating sets, Preparing, Rewinding and Re-conditioning of Electric Machinery also undertaken.

RAVAL & CO.—Shreeji Bhavan, Lohar Chawl, Post Box No. 2279, Bombay 2. Phone: 23720. Grams: "GODSPEED." Branch Office: 12-B, Lower Chitpur Road, Calcutta. Phone: 345651. Dealers in Everything electrical, Specialised in Wire & Cables and Industrial electric control gear.

RAVIN TRADING COMPANY.—5, Mohatta Market, Phalton Road, P.O. Box No. 1969, Bombay 1. Grams: "BEWITCH." Phone: 26-4883. Specialists in underground cables, Insulated wire of all sizes & types, insulating material & dealers in everything Electrical.

CALENDAR MANUFACTURING MACHINERY SUPPLIERS

GUNVANTRAY & COMPANY.—Crescent Chambers, 1st Floor, Tamarind Lane, Fort, Bombay 1. Phone: 254684. Grams: "GUNARAYCO."

CALENDAR MANUFACTURERS

ASIART PRINTERS.—1076, Haines Road, Worli, Bombay 18. For Cartons, Labels, Colour Folders, Designs, Tricolour Printing a Speciality.

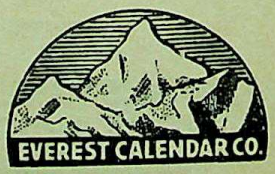
BOMBAY CALENDAR CO.—44, Cawasji Patel Street, Fort, Bombay. Phone: 252769. Manufacturers of Office Calendars, Pictorial Calendars, Perpetual Calendars, Advertising Fans, Labels, Boxes, Refills, Daily Blocks, Show cards, Monthly Dates, etc.

EVEREST CALENDAR COMPANY

35, Prospect Chambers Annexe, 3rd floor
Dr. Dadabhoy Naoroji Road
BOMBAY 1

Manufacturers of:
Calendars, Perpetual Calendar Blocks, Monthly date pads and every sort of Offset Printing

SPECIALITY
PHOTO OFFSET
PICTORIAL CALENDARS



Phone: **252719**

Commercial Art Engravers Ltd.—4th Floor, Tutorial School Building, Grant Road, Bombay.

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CROWN ELECTRIC PRINTING WORKS.—111-A, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 251437. Fine Art Printers, Calendar & Diary Manufacturers.

DE LUX CALENDAR CORPORATION.—23, Goa Street, Ballard Estate, Bombay 1. Phone: 263147. Grams: "LAXPIC-PLAY." Manufacturers of Framing & Calendar Pictures, Calendars and New Year Date Pads.

Everest Calendar Co.—45/47, Princess Street, Bombay 2.

FIDVI PRINTING PRESS.—179, Abdul Rehman Street, Bombay 3. Phone: 22415. Grams: "FIDVIPRESS." Manufacturers of New Year Diaries, Desk Calendar Refills & Stands of various qualities. Daily Tear off Blocks and other advertising Novelties.

NEW INDIA OFFSET & LITHO WORKS.—Laxmi Niwas, 2nd Panjrapole Lane, Bombay 4. Manufacturers of all kinds of Labels.

Shabbar Trading Corporation.—206, Abdul Rehman Street, Bombay 3.

S. R. Brothers.—406 & 412/A, "Commerce House," Medows Street, Fort, Bombay 1.

TAJ PRINTING WORKS.—46/A, Cawasji Patel Street, Fort, Bombay 1. Phone: 252432. Commercial & Art Printers, Manufacturers of Invitation Cards, Greeting Cards and Calendars.

UNIVERSAL
CALENDAR MFG. CO.
Manufacturers of:
OFFICE CALENDARS • HANGERS
SHOW CARDS • REFILLS
ADVERTISING FANS
23-25, HAMAM STREET, FORT, BOMBAY 1
Phone: 254443

for
★ CALENDARS
★ FANS
★ SHOW CARDS
★ POSTERS
★ LABELS
★ BOXES
VINAY CALENDAR CO.,
Litho, Offset & Colour Printers.
104, Ardeshir Dadi Street, Vithalbhai Patel Road,
Phone No. 72293. BOMBAY 4.

CAMPHOR IMPORTERS AND DEALERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Bhavanidas Gangadas & Co.—233/35, Samuel Street, Vadgadi, Bombay 3.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Gopaljee & Co.—218, Samuel Street, Vadgadi, Bombay 3.

Madhavji Mavji & Co.—207, Vadgadi, Bombay 3.

CANNERS (FRUITS & VEGETABLES)

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.

DR.WRITER'S CHOCOLATES & CANNING CO.—(Proprietors: F. D. Mehta & Co.), Manufacturers of High Grade Confectionery, Chocolates, Fruits in Tins, Vegetables, Jams, Food Products, etc. Bhavanishankar Road, Dadar, Bombay 28. Phone: 60303.

Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta, Road, Fort.

JAMES SMITH & CO.—Canners and Manufacturers of 'SIL' Brand Preserved Fruits, Vegetables, Juices, Syrups and all other items of Provisions, etc. of guaranteed quality under hygienic conditions. Office: Sreenivas House, Waudby Road, Fort. Telegrams: "HEROINE." Phones: 261334 & 262564.

KALVERT, A., & CO.—90/92, Mazagaon Road, Bombay 10. Phone: 42414. Grams: "CURROSAUCE." Manufacturers of Mango Chutney, Pickles, Curry Powder, Condiments, Squashes, Vinegar, Sauce, Syrups, Prumto, Canned Alphonso Mango Slices and Pulp, Prawn Balchow, Jams, Canned Vegetables, Moglai Mutton, Biryani & Curry.

Panama Distributing Co.—38C, Cowasji Patel Street, Fort, Bombay.

PURE PRODUCTS & MADHU CANNING PRIVATE LTD.—Fruit, Vegetable and Fish Canners. Manufacturers of Jams, Jellies, Marmalades, Squashes, Crushes. Suppliers to Defence Services. Office: 98, Dadasaheb Phalke Road, Dadar, Bombay 14. P.B. 5558. Phone: 65568. Grams: "PUPRO."

S. G. Phadke & Sons.—Kamal Park, 167, Shivaji Park, Bombay 28.

Victory Food Canners Ltd.—Albert Building, Hornby Road, Fort.

CANTEEN STORES SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Akbarally Ebrahimji.—38/c, Cowasji Patel Street, Fort, Bombay.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone Nos.: 27636 & 27358.

Mahomed Husain & Bros.—106, Kansara Chawl, Kalbadevi, Bombay 2.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone: 73880. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Stainless Steel Utensils for Canteens.

Punjab Metals.—20, Wadi Bunder Road, Mazagon.

Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.

Vazirmalli, Ltd.—Prospect Chambers, Hornby Road, Fort.

CARBON PAPER MANUFACTURERS

Jagjiwandas Nandlal & Co.—237, Abdul Rehman Street, Bombay 3. Phone: 22873. Grams: "Swanhouse". Sole Distributors for Electric Pen-Pencil and Typewriting Carbon Papers.

KORES (INDIA) LTD.—Plot No. 10, off Haines Road, Worli, Bombay 18. Manufacturers of Carbon Papers, Typewriter Ribbons, Duplicating Stencils and Accessories. Phone: 73454 (three lines). Grams: "KORESCARBO."

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone: 268081. Grams: "LATHAMS."

CARBONIC ACID GAS DEALERS

Akbarally Mahomedally & Co.—Dawoodi Building, 316, Abdul Rehman Street.

Eastern Bunkerers, Ltd.—Scindia House, Dougall Road, Ballard Estate, Fort.

Esoofally Mahomedally & Co.—102-104, Bhusari Moholla, Bombay 3.

Sirdar Carbonic Gas Co., Ltd.—Connaught Road, Mazagaon.

CARD CLOTHING

EASTERN CARD CLOTHING CO. PRIVATE LTD., THE.—Importers of Card Clothing for Textile Mills. Works & Office: Lamington Road North, Lal Chimney, Bombay 11. Phone: 42853. Grams: "WIREFILLET." Sole Agents for Prayon de Pauw Ltd., Ghent-Belgium.

Voltas Ltd.—19, Graham Road, Ballard Estate.

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CARD BOARDS

CARDBOARD SUPPLIERS.—6, Tank Street, Surti Mohalla, Bombay 8. Phone : 41718. Grams : "RAOOF." Dealers in Gray Boards manufactured by Western India Paper and Board Mills Private Ltd., Vikhroli.

Swastik Paper Industries.—54, Sutar Chawl, Bombay 2.

CARD BOARD & CORRUGATED BOXES MFRS. (CARTONS)

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone : 23280. Grams : "VARNISH." Direct Importers & Stockists of Stitching Wires of all kinds.

AFZAL PAPER BOX FACTORY.—43, Foras Road, Bombay 8. Phone : 40046. Manufacturers of High Class Paper Boxes, Carton Punching and Cable Reels a Speciality.

ARTYTOYS

SIR RATAN TATA WELFARE CENTRE

for

YOUR PACKING PROBLEMS

Sir Ratan Tata Road, Tardeo, Bombay 7.

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Bombay Chemicals Private Ltd.—129, Mahatma Gandhi Road, Bombay-1.

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Kikani Medicine Supply Co.—Kapol Nivas, 414, Sandhurst Road.

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LAVCHAND VARAJDAS & CO.—64-66, Princess Street, Bombay 2. Phone: 22376. Grams: "HYDROGEN." Laboratory Chemicals, Drugs, Medicines, Vitamins and Surgical Dressings.

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Madhav Agency.—Girgaum, Bombay 4.
Madon, M. T., & Co.—"The Corner Shop," 346, Abdul Rehman Street.
Madon Sons & Co.—Madon Mansion, 67, Hughes Road, Bombay 7.
Mahasukhlal Chimanlal & Co.—Mangaldas Road, Princess Street, P.B. No. 2088, Bombay 2.
Mahendrakumar & Co.—32, Shuruf Mansion, Princess Street, Bombay.
Maneklal & Bros.—61-A, Princess Street, Bombay 2.
Maneklal & Co.—Ramban Patent Depot, Shuruf Mansion, 32, Princess Street, Bombay 2.
Manilal & Bros.—Mulchand Mansions, Princess Street.
Manohar Singh & Sons.—Wholesale Dealers in Drugs and Medicines, 587, Chira Bazar, Bombay 2; Grams: "SINGHSONS".
Martin & Harris Ltd.—Savoy Chambers, Wallace Street, Fort.
Manilal Motichand Kanani & Co.—Dawawalla Building, 99, Princess Street, Bombay 2.
Mansukhlal Tribhowandas & Co.—Princess Street, Vithaldas Road, Devkaran Mansion, Block 8, P.B. No. 2189, Bombay 2.
Mira Chemical Works.—Chinchpokli Cross Lane, Parel.
M. H. Javerian & Co.—67, Princess Street, Bombay 2.
Minerva Medical Stores.—11, Mangaldas Road, Princess Street, Bombay 2.
M. M. Bharwada.—Mulchand Mansion, Princess Street, Bombay 2.
M. M. Shah & Co.—Damodar Building, 109, Princess Street, Bombay.
Model Chemists.—Mapla Mahal, Thakurdwar, Bombay 4.
Mohanlal & Co.—61, Princess Street, Bombay 2.
Monji Vishram & Co.—310, Shaikh Memon Street.
Mukundlal & Co.—Anand Bhuvan, Princess Street, Bombay 2.
Narbheram & Sons.—Mangaldas Building No. 1, Princess Street, Bombay 2.
Narotam Girdhar & Co.—Sheikh Memon Street, Bombay 2.
Nath & Co.—Parekh Building, Old Hanuman Lane, Bombay 2.
National Aniline & Chemical Co., U.S.A.—Patel House, Churchgate Street, Fort.
Natvarlal & Co.—Fida Building, Princess Street, Bombay 2.
N. Himatlal & Co.—P. O. Box No. 2004, Princess Street, Bombay 2.
N. Sunderlal & Co.—89, Princess Street, P.B. No. 2276, Bombay 2.
N. Uttamlal & Co.—Bode Chawl, Princess Street, P.B. No. 2049, Bombay 2.
N. Vasantrai & Co.—55, Princess Street, Devkaran Mansion, Bombay.
Odhawjee Lawjee & Co.—Chikhal House, 144-B, Princess Street, Bombay 2.
Orient Homœopathic Pharmacy.—Pannalal Terraces, Lamington Road, Bombay 7.
Oriental Medical & Surgical Stores, Ltd.—Anand Bhuvan, Princess Street, Bombay 2.
Oriental Pharmacy.—Kapoli Nivas, near State Bank, Sandhurst Road.
Pannalal Ramdayal Chindak.—153, Princess Street.
Paradkar, K. A., & Co.—Dindaisy Building, Gaiwadi, Girgaum, Bombay 4.
Patani Bros. & Co.—Mangaldas Road, Princess Street.
Patel Ruby & Co.—Cumballa Hill, Bombay 26.
Padder Brothers.—245, Princess Street, Bombay 2.
Parekh & Co.—Parekh Building, Old Hanuman Lane, Bombay 2.
P. C. Sheth & Co.—Bode Chawl, New Hanuman Lane, Princess Street, Bombay 2.
P. D. Doshi & Co.—38, Old Hanuman Lane, P.B. No. 2422, Bombay 2.
P. M. Zaveri & Co.—10, Fida Building, Princess Street, Bombay 2.
P. N. Vora & Co.— P.B. No. 2039, Varjivan Mansion, 1st Floor, Princess Street, Bombay 2.
Phillimore & Co.—Cumballa Hill, Bombay 6.
Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.
Pioneer Magnesia Works Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

PIONEER PHARMACY.—Dispensing Chemists, 1st Marine Street, Dhobi Talao, Bombay 2. Phone: 22129.

POPULAR PHARMACY (REGD.), THE.—Dhun Building, 310, Lamington Road, Grant Road, Bombay 7. Dispensing Chemists. Phone: 71884.

Poona Drug Stores.—324, Mahatma Gandhi Road, Poona 1.
Prabhudas Gulabchand Shah.—Mulchand Mansion, Princess Street, Bombay 2.
P. Ramanlal & Co.—72, Princess Street, Bombay 2.
Premier Chemists.—Shuruff Mansion, Princess Street, near Juma Masjid.
Purshottam Laxmichand.—Balakhidas Building, Mangaldas Road, Bombay 2.
"Queenie."—11-B, Hughes Road, Bombay 7.
Queen's Chemists, The.—Queen's Chambers, Queen's Road (opp. Marine Bridge), Bombay.
Rajnikant Brothers.—P.B. No. 2053, Princess Street, Bombay 2.
Rasiklal & Co. Ltd.—Varjivan Mansion, 60-62, Princess Street, P.B. No. 2228, Bombay 2.
Ratilal Hemraj.—Mulchand Mansion, Princess Street, Bombay 2.
R. K. Mehta & Co.—Champsey Building, Princess Street, Bombay 2.
R. Nandlal & Co. (Pharmaceuticals).—72-A, Champsey Building, Princess Street, Bombay 2.
Rele, K. B., & Sons.—Anand Bhuvan, Vithalbhai Patel Road.
Reshamwala, C. K., & Co.—Shuruff Mansion, Princess Street, Bombay.
Rose Pharmacy.—Anand Bhuvan, Princess Street, Bombay 2.
Roy & Company.—176, Princess Street, Bombay 2.
Royal Chemists.—Queen's Chambers, Queen's Road.

ROYAL DRUG & PHARMACEUTICALS CO.—Sharaf Mansion, 38, Princess Street, Bombay 2. Phone: 38749. Grams: "RODPHAR." Wholesale Dealers & Direct Importers of Pure Drugs, Pharmaceuticals, Vitamins & Laboratory Chemicals. (Mostly useful in Colleges & Research Institutes).

Rustom, K., & Co.—69, Wodehouse Road, Colaba.

S. MATHURADAS & CO.—P.O. Box No. 2113, Princess Street, Bombay 2. Grams: "SMATHURCO." Phone: 30273. Direct Importers of Laboratory Chemicals and Re-Agents.

Scientific Chemists, The.—105, Princess Street, Bombay 2.
Sevantilal Kantilal & Co.—84, Mangaldas Building, Mangaldas Road.
Shah Brothers.—32, Princess Street, "Jintan" Agency, Bombay 2.
Shah & Co.—Anand Bhuvan, Princess Street.
Shantilal Ltd.—Princess Street, P.B. No. 2140, Bombay 2.
Sheth, C. J., & Co.—192, Mangaldas Building, Mangaldas Road, Bombay 2.
Simplex Chemical Co.—103-C, Chhaktewadi, Tardeo.
Sinora Chemical Works.—531, Chira Bazar, Girgaum.
Sorabji Hormasji & Co.—22, Mangaldas Road, Opp. P.O., Juma Masjid.
Standard Pharmacy.—Anand Bhuvan, Princess Street, Bombay 2.
Stewart's Laboratories.—327, Hornby Road, Fort.
S. Shantilal & Co.—35, Kika Street, Gulalwadi, Bombay 4.
Standard Medical Agencies.—18, Anand Bhuvan, Princess Street, P.B. No. 2426, Bombay 2.
Tarachand & Co.—5, Sleater Road, Grant Road.
Thakkar Bros.—32, Princess Street, Bombay 2.

THOMSON & TAYLOR LTD.—117-119, Mahatma Gandhi Road, Bombay 1. Phone Nos.: 252411 & 251782. Grams: "DEODARANT."

T. J. Shah & Brothers.—Mulchand Mansion, Princess Street, P.B. No. 2180, Bombay 2.
Tribhovandas Khimji & Bros.—13, Princess Street.
Umeschandra Jayantilal & Co.—Mahendra Mansion, New Hanuman Lane, Bombay 2.
Union Drugs & Pharmaceutical Co.—Old Hanuman Lane, Jayabai House, Near Angania's Chawl, P.B. No. 2559, Bombay 2.
Vally, J. H.—Mangaldas Road, Princess Street, Bombay 2.
Vanmali Bhika & Co.—Devkaran Mansion, Princess Street, Bombay 2.
Vijay Trading Corporation.—297-B, Old Post Office Lane, Mangaldas Market, Bombay 2.
Vinchhi Bros. & Co.—Old Small Causes Court Building, Princess Street.
Vora, B. P., & Co.—126, Princess Street.
Vora Bros.—218, Princess Street.
Vora, M. J., & Co.—423, Kalbadevi Road, Bombay 2.
V. Rajkotia & Co.—Varjivan Mansion, 52, Princess Street, Bombay 2.
Vyas Brothers Ltd.—Devkaran Mansion, Princess Street, Bombay 2.
Wagh, T. A., & Co.—Kshatriya Dnyati Nivas, New Charni Road, Girgaum.
Wagh & Sons.—Poibawdi, Parel.
Western Trading Corporation.—439, Kalbadevi Road, 1st Floor, Bombay 2.
Wright & Co.—Junction of Frere Road and Mint Road, Fort.
Zill & Co.—Princess Street.

CHEMISTS (MANUFACTURING)

Abbot Laboratories (India) Ltd.—Jehangir Building, Mahatma Gandhi Road, Fort, G.P.O. Box No. 1334, Bombay.
Alembic Chemical Works Co., Ltd., Baroda.—Lakshmi Buildings, Sir Phirozshah Mehta Road, Fort.
B. A. & Brothers.—98, Princess Street, Bombay 2.

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BOOTS PURE DRUG CO. (INDIA) PRIVATE LTD.—Registered Office : 17, Nicol Road, Bombay 1. Phone : 261436. Grams : "DRUGBOOTS," Bombay. Factory : Sion, Bombay 22. Phone : 62445. Grams : "BURNOL."

British Drug Houses (India) Ltd.—Imperial Chemical House, Ballard Estate.

CHEMICAL, INDUSTRIAL & PHARMACEUTICAL LABORATORIES, LTD. (CIPLA).—289, Bellasis Road, Byculla, Bombay 8. Phones : 75211, 75212 and 75213.

Continental Drug Co. Ltd.—135, Worli Road, Worli. Phone : 45451. Grams : "Condrugco."

Crookes Laboratories Ltd.—Court House, Carnac Road, Bombay 2.

Dongre, K. T., & Co.—82, Medows Street, Fort, Bombay.

DR. BHALCHANDRA LABORATORY.—215, Charni Road, Girgaum, Bombay 4. Phone : 27221. Grams : "BHALABS". Manufacturers of High quality Pharmaceuticals and Ethical Specialities.

Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Pherozshah Mehta Road, Fort, Bombay.

Gajjar's Standard Chemical Works, Ltd., Prof.—New Islam Mills Compound, Currey Road, Bombay 13.

Holmes Laboratory.—Upper Forjett Hill, Bombay 26.

J. & J. De Chane.—Star Mansion, 30, Clare Road, Byculla, Bombay.

Kemp & Co., Ltd.—Elphin House, Cadell Road, Bombay 28.

Kopran Chemical Co.—105, Apollo Street, Fort.

May & Baker (India) Private Ltd.—Karimjee House, Sir Phirozshah Mehta Road, Fort, Bombay.

Parke, Davis & Co., Ltd.—Canada Building, Hornby Road, Fort.

PHARMED PRIVATE LTD.—Pharmed House, Fort Street, Fort. Phone : 261141/2. Grams : "PHARMED." Factory : 252/54, Dr. Annie Besant Road, Worli, Bombay 18. Phone : 41445.

Roy & Company.—176, Princess Street, Bombay 2.

STANDARD CHEMICAL & PHARMACEUTICAL CO.—Atlas Mills, Reay Road, Bombay 10. Phone : 40642. Grams : "GERMOL." Manufacturers of Saccharin 550 B.P.

United Pharmaceutical Co.—157-59, Girgaum Road, Bombay 4.

Zandu Pharmaceutical Works, Ltd., The.—Gokhale Road (South).

Zenith Chemical Works Private Ltd.—4, French Bridge, Bombay 7.

CHINA CLAY

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

Bharat Pulverising Mills.—125, Narayan Dhuru Street, Bombay 3.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

D. Kaniyalal & Co.—45, 3rd Cavel Cross Lane, Kalbadevi Road, Bombay 2. Phone : 34052.

Gujarat Clay Mills.—246, Reay Road, Bombay 10.

Industrial Minerals and Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Jashwantlal Maneklal & Co.—40, Vir Nariman Street, Fort.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone : 30138. Grams : "SANIPIPES."

KERALA TRADING CO.—35, Bombay Mutual Annexe Bldg., Gunbow Street, Fort, Bombay 1. Phone Office : 264009 & 265459 and 88554 (Res.). Grams : "CHINACLAY." China Clay, Barytes, Tapioca Starch, etc.

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone : 20583. Grams : "LALITKIRTI."

Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.

THAKKAR TRADING CO.—57, Sardar Vallabhbhai Patel Road, Dongri, Bombay 9. Grams : "TITICO." Phone : 74200.

Universal Minerals & Chemical Co.—7/10, Horniman Circle, Botawala Building, Fort, Bombay.

CHLORINATION PLANTS

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams : "ESSENCE." Phone : 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

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JEMCO CHUCK MFG. WORKS.—Office: 109/11, Nagdevi Street, Bombay 3. Factory: Ram Baug, Swastik Compound, G. B. Road, Malad (West), Bombay 64. Manufacturers of Lathe Chucks and Engineering Tools.

CINEMA AND MOTION PICTURES

Abhaya Chitra, C/o Lewis Irani & Co.—136, Girgaum Road, Near Majestic Cinema, Bombay 4.

Akash Chitra.—Famous Cine Building, Mahalaxmi, Bombay 11.

Alankar Chitra.—19, Prem Court, Sir Jamshedji Tata Road, Churchgate Reclamation, Bombay 1.

All India Pictures.—Ratan Villa, Vincent Square, Dadar, Bombay 14.

Anand Films.—4-B, Naaz Bldg., Lamington Road, Bombay 4.

Anupam Chitra.—Ranjit Studios, Main Road, Dadar, Bombay 14.

Art Films of Asia Ltd.—Olympia House, Warden Road, Bombay 26.

A. R. Films.—3rd Floor, Hasan Mansion, Dhobi Street, Corner of Masjid Bunder Road, Bombay 3.

Ashok Pictures.—Rattan Villa, Vincent Square, Bombay 14.

Azad Chitra.—136, Girgaum Road, Bombay 4.

Bal Vithal Films.—4th Floor, Prabhawadi, Behind Post Office, Mahim, Bombay 16.

Basant Pictures.—(Studio) Kolwada Borla Road, Behind Golf Club, Chembur. Office : 136, Chamarbagh Road, Parel, Bombay 12.

Basu Chitra Mandir Private Ltd.—Shree Sound Studios, Dadar, Bombay 14.

B. B. Cine Corporation, Ltd.—Whiteaway Building, Hornby Road, Fort.

Bhagwan Art Productions.—Care Films, Walkar House, Lamington Road, Bombay 4.

Bimal Roy Productions.—Mohan Studios, Andheri, Bombay.

B. K. Patel & Co.—106, Medows Street, Fort.

Bombay Film Labs. (Private) Ltd.—149, Portuguese Church Street, Bombay 28.

Bombay Studios Ltd.—736, Khar Pali Road, Khar, Bombay 21.

Bombay Movietone Private Ltd.—2-B, Naaz Bldg., Lamington Road, Bombay 4.

B. R. Films.—4, Chinoy Colony, Juhu Road, Santa Cruz, Bombay 23.

Central Cine Corporation.—68, Tardeo Road.

Central Studios.—74-94, Tardeo Road, Bombay 7.

Chandra Films.—4-G, Naaz Bldg., Lamington Road, Bombay 4.

Chitra Bharati. C/o Shrikant Studios.—Chembur, Bombay.

Chowdhry Art Productions.—252, Ripon Road, Byculla, Bombay 8.

Columbia Films of India Ltd.—Imperial Chambers, Ballard Estate.

Dawlat Corporation Ltd.—Patel Chambers, French Bridge, Bombay 7.

De Lux Films.—103, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Deepshikha Chitra Niketan.—59, Bhatia Bhavan, Asha Lane, Gokhale Road, Dadar, Bombay.

Deep & Pradeep Productions.—250, Famous Cine Building, Mahalaxmi, Bombay 11.

Desai Films.—3-F, Naaz Bldg., Lamington Road, Bombay 4.

Dimond Pictures Ltd.—*Distributions Office :* Seksaria Building, Sandhurst Road, Bombay 4.

Dinesh Films.—Prakash Studios, Andheri, Bombay.

Dossi Films Ltd.—Manik Villa, Saraswati Road, Santa Cruz, Bombay 23.

Eagle Lion Distributors (India) Ltd.—"Dhan Nur," Sir Phirozshah Mehta Road, Fort.

Eagle Films.—220, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Educational Films of India —195, Hornby Road, Fort.

Excelsior Film Exchange.—Goverdhan Building, Parekh Street, Bombay 4.

Excelsior Movietone.—Goverdhan Building, Parekh Street, Bombay 4.

Famous Cine Labs. & Studios Ltd.—Haines Road, Mahalaxmi, Bombay 11.

Famous Cine Labs. & Modern Studios.—160, Tardeo Road, Bombay 7.

Fazli Bros. Ltd.—Rattan Villa, Vincent Square, Dadar, Bombay 14.

Filmco.—5, Habib Park, Clare Road, Byculla, Bombay 8.

Film Arts.—9, Sobhani Road, Bombay 5.

Film Club.—National House, Tulloch Road, Apollo Bunder, Bombay. Tel. Address : "EDUFILMS." Phone : 211159. Distributors of Full-length feature Films and Educational Films and Children's Films in 16 mm.

Filmistan Ltd.—Botawalla Building, 11-13, Elphinstone Circle, Fort.

Goel Cine Corporation.—207, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Golden Movies, C/o Mohan Studios.—Kurla Road, Andheri, Bombay.

Global Film Bureau.—245, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Guru Dutt Films Private Ltd.—147, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.

Harish Productions.—Famous Cine Building, Mahalaxmi, Bombay 11.

Hemen Gupta Productions.—226, Famous Cine Bldg., Mahalaxmi, Bombay 11.

Hemlata Pictures.—Goverdhan Bldg., Parekh Street, Bombay 4.

HUNNAR FILMS.—Advertising Films, Animation Cartoon Films, Documentary and Educational Shorts, Film Strips and Commercial Photography, Nanabhoy Mansion, Sir Phirozshah Mehta Road, Bombay 1. Phone : 261513. Grams : "SAAPEN," Bombay.

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Ismail Films.—223, Famous Cine Laboratory, Mahalaxmi, Bombay 11.
J. Arthur Rank Film Distributors (India) Ltd.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort, Bombay.
J. S. Pictures.—146, Famous Cine Bldg., Mahalaxmi, Bombay.
Kaizer Films.—109, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Kala Kendra.—Shrikant Studios, Chembur, Bombay.
Kalpana Pictures.—203, Famous Cine Building, Haines Road, Mahalaxmi, Bombay 11.
Kanwar Kala Mandir, C/o T. M. Bihari.—1-A, Naaz Bldg., Lamington Road, Bombay 4.
Kapurchand & Co.—Roxy Chambers, New Queen's Road, Bombay 4.
Kapurchand Private Limited.—Roxy Chambers, New Queen's Road, Bombay 4.
Kashyap Productions.—Aldina Mansions, 21, Carmichael Road, Bombay.
Kuldip Pictures Ltd.—Sarita Villa, Seven Bungalows, Versova Road, Andheri, Bombay.
Kwatra Art Productions.—206, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Light & Shade.—245, Famous Cine Bldg., Mahalaxmi, Bombay 11.
L. M. Movies, Famous Cine Labs. & Studios Ltd.—Mahalaxmi, Bombay 11.
Madhubala (Private) Ltd.—Arabian Villa, Pali Hill, Bandra, Bombay.
Madhukar Pictures.—42, Bhoiwada Street, Bandra, Bombay.
Mahesh Chitra, C/o Prakash Studio.—Andheri, Bombay.
Mars & Movies.—549, Carnac Road, Dhobi Talao, Bombay 2.
Meena Pictures.—Swadeshi Mills Estate, Tata Road, Bombay 4.
METRO-GOLDWYN-MAYER INDIA LTD.—Metro House, Mahatma Gandhi Road, Bombay 1.
Mitra Productions.—Goverdhan Bldg. No. 2, Parekh Street, Bombay.
Mohan Pictures.—Mehta Lodge, Kurla Road, Andheri.
Mohan Pictures, C/o Ramniklal Mohanlal & Company.—199, Khetwadi Main Road, Bombay 4.
Movie Stars, C/o Shree Sound Studios.—Dadar, Bombay 14.
Mukti Films.—3-D, Naaz Bldg., Lamington Road, Bombay 4.
Narang Films.—150, Famous Cine Labs. & Studios Ltd., Mahalaxmi, Bombay 11.
Nathan Productions, C/o Raman Studios.—Dadar, Bombay 14.
National Education & Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "EDUFILMS." Phone: 35159.
Natraja Productions.—Famous Cine Building, Mahalaxmi, Bombay 11.
Navketan.—Khira Kutir, Ghodbunder Road, Santa Cruz, Bombay 23.
Naya Films, C/o Dossi Films Private Ltd.—Raman Studios, Dadasaheb Phalke Road, Dadar, Bombay 14.
Neo Lite Films Ranjit Movietone.—119, Main Road, Dadar, Bombay.
New Oriental Pictures.—150, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.
Noronha Private Limited.—Liberty Building, Marine Lines, Bombay 1.
Novel Productions.—9, Krishna Ashram, Jogeshwari East, Bombay 42.
Orient Film Corporation.—220, Gulalwadi, Agakhan Building, Bombay 2.
Paul Studio.—Prospects Chambers, Hornby Road, Bombay.
Pancholi Productions.—217, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Parasia Farms (Private) Ltd.—50, Shivaji Park, Dadar, Bombay 28.
Pancholi Pictures.—217, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Paramount Films of India Ltd.—Hague Building, Ballard Estate, Fort.
Patel, B. K., & Co.—106, Medows Street, Fort.
Peerless Pictures.—116, Charni Road.
P. S. Pictures.—Famous Cine Bldg., Mahalaxmi, Bombay 11.
P. N. Films Private Ltd.—Sagar Mandir, Shivaji Park Beach, Bombay.
Pushpa Pictures.—1-E, Naaz Bldg., Lamington Road, Bombay 4.
Pradeep Productions.—63-B, West Avenue, Santa Cruz, Bombay.
Raman Productions.—Dadasaheb Phalke Road, Dadar, Bombay.
Ravi Kala Chitra.—Anil, Hanuman Road, Vile Parle, Bombay.
Republic Films Corporation.—257, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.
R. K. O. Radio Pictures, Ltd.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort, Bombay.
Roopkamal Chitra.—201-B, Khetwadi Main Road, Bombay 4.
Roop Kala Pictures.—201-B, Khetwadi Main Road, Bombay 4.
Roopanjali.—Central Avenue, Chembur, Bombay.
Roshni Films.—309-E, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Sadiq Productions Ltd.—Shree Sound Studios, Gokuldas Pasta Road, Dadar, Bombay.
Sami Pictures.—2nd Floor, No. 8, Rustom Baug, Byculla, Bombay 8.
Saraswati Art Films.—Famous Cine Bldg., Mahalaxmi, Bombay 11.
Sardar Pictures.—Jyoti Studios, Kennedy Bridge, Bombay 7.
Sharad Productions.—Nehru Road, Vile Parle, Bombay.
Sheikh Mukhtar Productions.—310, Famous Cine Bldg., Haines Road, Mahalaxmi, Bombay 11.
Shree Shakti Films.—204, Famous Cine Building, Mahalaxmi, Bombay 11.
Shree Sound Studios.—10, Goculdas Pasta Road, Dadar.
Sippy Films Ltd.—3-G, Naaz Bldg., Lamington Road, Bombay 4.
Solar Films.—Shree Sound Studios, Dadar, Bombay.
Sterling Investment Corpn., Ltd.—169, Kurla Road, Andheri, Bombay.
S. P. Pictures.—205, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Subodh Mukerji Productions.—15, Purshottam Bldg., Tribhuvan Road, Bombay 4.
Sunny Art Productions Ltd.—Famous Cine Laboratories and Studios Ltd., Haines Road, Mahalaxmi, Bombay 11.
Super Film Circuit.—Roxy Theatre, Queen's Road.
Supreme Film Distributors.—85, Main Road, Dadar.
Swastik India Ltd.—Chowpatty Chambers, Sandhurst Road.
Talwar Films.—217, Famous Cine Bldg., Mahalaxmi, Bombay 11.
Twentieth Century-Fox Corporation (India), Ltd.—Metro House, Mahatma Gandhi Road.
Universal Pictures (India) Ltd.—Mustafa Building, Sir Phirozshah Mehta Road.
Vanguard Pictures.—365, Girgaum Road, opp. Thakurdwar P. O., Bombay 2.
Vakil Productions.—3-F, Naaz Bldg., Lamington Road, Bombay 4.
Varma Films.—4-A, Rawalpindiwala Bldg., Tribhuvan Road, Bombay 4.
Variety Productions.—165-C, Vincent Road, Dadar, Bombay 14.
Vidyut Chitramandir.—6, Indira Niwas, Old Nagardas Road, Andheri (East), Bombay.
Vinod Films.—4-G, Naaz Bldg., Lamington Road, Bombay 4.
Wadia Movietone.—136, Chamarbaug Road, Parel, Bombay 12.

CINEMA MACHINERY

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Cinetechs.—605, Girgaum Road, Opp. Wadia's Fire Temple, Bombay 2.
GAUMONT-KALEE PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone: 261391/92. Grams: "GAUMKALEE." Dealers in Studio, Sound and Cine Equipments, Electrical & Petromax Strip and Slide Projectors, Meters and Electronic Test Equipments. Branches: Calcutta, Delhi and Madras.
National Education & Information Film, Ltd.—National House, Tulloch Road, Apollo Bunder, Fort.
Photo Cine Sound Private Ltd.—12, Rampart Row Bombay 1.
Photophone Equipments Ltd.—9, Marine Lines, Bombay.
WESTREX COMPANY INDIA.—Metro House, Mahatma Gandhi Road, Bombay 1. P.O. Box 1232. Tel. Address: "WESTREX." Phones: 242273 & 242274.

CINEMATOGRAPH IMPORTERS

Ama Private Ltd.—"Photo Cine Sound," Canada Building, Hornby Road, Fort.
Central Camera Co. Ltd.—195, Dr. Dadabhai Naoroji Road, Fort, Bombay.
Cine Agency (India).—Parekh Building, 18, New Queen's Road, Bombay 4.
Cinema Private Ltd.—532, Sandhurst Bridge, Bombay 7.
CINEFONES.—Importers, Dealers and Engineers in Cinema Projectors and Accessories, Visual aid Equipments, 16 mm. Projectors, Tape Recorders & Electrical goods. Opp. Royal Opera House, 3, New Queen's Road, Bombay No. 4. Phone: 75411-2. Grams: "FONOCINE." Managing Director: S. B. Agarwal.
Cinetechs.—605, Girgaum Road, Opp. Wadia's Fire Temple, Bombay 2.
Dawlat Corporation Ltd.—Patel Chambers, French Bridge, Bombay 7.
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General Radio & Appliances Ltd.—Opera House, Bombay 4. Phone: 26204.
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HAMILTON STUDIOS PRIVATE LTD. AND FOTOCINEX.—Society Photographers, Indu House, Dougall Road, Ballard Estate. Phone : 26-2939.

HUNNAR FILMS.—Advertising Films, Animation Cartoon Films, Documentary and Educational Shorts, Film Strips and Commercial Photography, Nanabhoy Mansion, Sir Phirozshah Mehta Road, Bombay. Phone : 261513. Grams: "SAAPEN," Bombay.

Maxarts.—1st Floor, 203, Hornby Road, Fort, Bombay.

PHOTO-MASTERS.—23, Hamam Street, Bombay 1. Grams : "Fotomaster." Phone : 251381. COMMERCIAL PHOTOGRAPHY, "PHOTOSTAT" Prints & MICROFILMING of Documents and Ready Stock of Quality Photographs & Transparencies for Calendars.

Vaswani Art Publishers.—36-8, Dattatreya Building, Tukaram Javji Road, Grant Road, Bombay 7.

COMMERCIAL REPRESENTATIVES

INDO-FOREIGN TRADE SERVICE.—505, Kalbadevi Road, 2nd Floor, Opp. Edward Theatre, Bombay 2. Phone : 22848.

COMMUNICATION EQUIPMENT IMPORTERS

WESTREX COMPANY, INDIA.—Metro House, Mahatma Gandhi Road, P.O. Box 1232, Bombay 1. Phones : 242273 & 242274. Grams : "WESTREX."

CONDIMENT (INDIA) MANUFACTURERS

Bedekar V. P., & Sons Private Ltd.—Mugbhat, Bombay No. 4.

Bombay Trading Co.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.

Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.

Gandhi Sons Ltd.—232, Samuel Street, Vadgadi.

Jussawala, N. K.—22, Arab Street, Bombay 8. Manufacturers of Indian Condiments.

Kalvert, A., & Co.—123, Upper Duncan Road, Bombay 8.

MERWANJEE POONJIAJEE & SONS PRIVATE LTD. (ESTD. 1876).—Poonjiajee Building, Prince's Dock, Frere Road, Bombay 9. Manufacturers & Exporters of Sun Brand, Indian Condiments. Phone : 23833. Grams : "CHUTNEY," Bombay.

POONJIAJI, M. M., & CO.—40/42, First Marine Street, Bombay 2. Manufacturers & Exporters of "Ship Brand", Green Label Indian Condiments, Mango Chutneys, Mango Pickles, Madras Curry Powder & Sugar-cane Vinegar. Grams : "PRESERVE". Codes : Bentley's 6th edition, private. Phone : 22412. Res. Phone No. 241846.

Universal Traders.—Krishnalaya, Sion Road, Bombay 22.

CONFECTIONERY MACHINERY IMPORTERS

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.

Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort.

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CONSULTING ENGINEERS

Associated Consulting Engineers (India).—Haroon House, 294, Bazargate Street, Fort.
Beacons Limited.—13, People's Building, Sir Phirozshah Mehta Road, Fort.
C. H. DeSousa, M. Cons. E.M.I. Mech. E.M. Amer., S.M.E.M.I. Loco., E.M.I. Prod. E., Consulting Mechanical Engineer and Industrial Adviser, Churchgate House (4th floor), 32, Veer Nariman Road, Bombay 1. Phone : 255470.
Engineering Construction Corporation, Ltd.—Sorab Mansion, 35, Murzban Road, Fort.
Engineering Survey Corporation.—Industrial Assurance Building, Churchgate Reclamation.
Gammon India Private Ltd.—Hamilton House, Graham Road, Ballard Estate. Phone : 32834 ; Gram : "GAMMON".
Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
LUSOB TRADING CO.—Bell Building, Sir Phirozshah Mehta Road, Fort. Phone : 252612. Grams : "LUSOBTRACO."
Parekh Brothers Ltd.—65, Mahatma Gandhi Road, Fort.
Salem & Company.—Mafatlal House, Backbay Reclamation, Bombay 1.
Universal Trading & Chemical Works.—Post Box No. 805, Bombay 1. On Government, Army & Navy Lists.

CONVEYOR BELT FASTENERS

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 23193. Stockists of "Hawk" Conveyor Belt Fasteners and "Jackson's" Plate Fasteners.

COPPER & BRASSWARE MFRS. & DEALERS

Amratlal & Co.—120, Kansara Chawl, Bombay 2.
Amratlal Umedlal & Co.—42, Kansara Chawl, Bombay 2.
Bhikachand Bhabutmal & Co.—217, Gulalwadi, Godiji Chawl, Bombay 2.
BOMBAY BRASS & METAL WORKS.—2nd Panjrapole Street, Bombay 4. Phone : 72072. Grams : "COPPERPOTS." Manufacturers of and Specialists in all kinds of Non-Ferrous Metalware.
Chhaganlal Khemchand & Co.—Chintamani Building, 2nd Bhoiwada, Bombay 2.
Dahyabhai Mansukhram Vasaikar.—56, Kansara Chawl, Bombay 2.
Dattatraya Narayan Dere.—Mahakali Chawl, Pydhoni, Bombay 3.
Fakirchand Kankuchand.—25-26, Kansara Chawl, Bombay 2.
FAIZULABHAI & CO.—M-39, Bhajipala Lane, Nagdevi Street, Bombay 3. Phone : 29367.
Fulchand Kesarimal & Co.—215, Gulalwadi, Godiji Chawl, Bombay 2.
Fulshanker Ganpatram Purohit.—234B, Kika Street, Corner of Kansara Chawl, Bombay 2.
Gopaldas Bhaichand Shah.—32, Kansara Chawl, Bombay 2.
Gujarat Metal Works.—4A, 2nd Bhoiwada, Bombay 2.
Himatlal Bapulal & Co.—10-12, 1st Bhoiwada, Bombay 2.
Hind Metal Mart.—Behind Mumbadevi Post, Bombay 2.
Jam Metal Mart.—Behind Mumbadevi Post, Bombay 2.
Jerupji Valji.—52, Kansara Chawl, Bombay 2.
Jugaraj Parasmal & Co. (Associated).—160, Jamli Moholla, Bombay 3.
Kaluram Venichand Poonawala (Associated).—98, Kika Street, Bombay 4.
Kantilal & Brothers.—Shop No. 141, Bhuleshwar Road, Bombay 2.
Lalji Vanmalidas & Co.—18, 1st Bhoiwada, Bombay 2.
Maganlal Ghelabhai & Co.—40, Kansara Chawl, Bombay 2.
Mansukhlal & Co.—22, 1st Bhoiwada, Bombay 2.
Mansukhlal Narandas.—118, Kansara Chawl, Bombay 2.
Mohanlal B.—218, Gulalwadi, Corner of 1st Bhoiwada, Bombay 2.
Mukundlal & Co.—38, Kansara Chawl, Bombay 2.
Mulchand Kachradas.—62, Kansara Chawl, Bombay 2.
Nagindas Maneklal & Co.—4, 1st Bhoiwada, Bombay 2.
Navnitlal Purushottamdas.—112, Kansara Chawl, Bombay 2.
Nyalchand Monshibhai.—34, 1st Bhoiwada, Bombay 2.
Pannalal B. Shah.—21, Kansara Chawl, Bombay 2.
Ramanlal Talakchand.—Behind Mumbadevi Post, Bombay 2.
Sanghvi & Sons.—92, Kansara Chawl, Bombay 2.
Sankalchand & Bros.—22, Kansara Chawl, Bombay 2.
Shah Chhogmal Bhutaji & Co.—Chintamani Building, 1st Bhoiwada, Bombay 2.
Sha Chhotalal Maganlal.—212, Gulalwadi, Ground Floor, Chintamani Derasar, Bombay 2.
Sha Chunilal Hakamchand.—38-40, 1st Bhoiwada, Bombay 2.
Sha Dalsukhram Bulakhidas.—100, Kansara Chawl, Bombay 2.
Shah Fojmal Kishnaji.—220, Gulalwadi, Corner of 1st Bhiowada, Bombay 2.
Sha Gulabchand Asharam & Co.—225, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Gulabchand Punamchand.—7A, 2nd Bhoiwada, Bombay 2.
Sha Jayantilal Ramanlal & Co.—39, Kansara Chawl, Bombay 2.
Sha Jayantilal Bavalal & Co.—110, Kansara Chawl. Bombay 2.
Sha Jayantilal Chunilal.—80, Kansara Chawl, Bombay 2.
Sha Jagjivandas Baldeodas.—66, Kansara Chawl, Bombay 2.
Shah Kaluram Mohanlal.—213, Gulalwadi, Godiji Chawl, Bombay 2.
Shah Kapurchand Premchand & Co.—221, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Kishnaji Bhagaji & Co.—231, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Kantilal Nanchand & Co.—26, 1st Bhoiwada. Bombay 2.
Shah Kesarimal Dhanraj & Co.—10/12, 1st Bhoiwada, Bombay 2.
Shah Keshavji Ladha.—44, Kansara Chawl, Bombay 2.
Shah Magilal Hajarimal & Co.—229, Gulalwadi, Godiji Chawl, Bombay 2.
Sha Mohanlal Lallubhai & Co.—36, Kansara Chawl, Bombay 2.
Shah Manrupji Kenaji & Co.—Nemani Bldg., 1st Bhoiwada, Bombay 2.
Shah Manilal Chaturdas & Co.—6/8, 1st Bhoiwada, Bombay 2.
Sha Nanchand Raychand.—202, Gulalwadi, Chintamani Building, Bombay 2.
Sha Punamchand Ramchand & Co.—223, Gulalwadi, Godiji Chawl, Bombay 2.
Shah Ratilal Mohanlal.—40, Kansara Chawl, Bombay 2.
Sha Rikhabchand Juharmal & Co.—121, Gulalwadi, Bombay 2.
Sha Sobhagchand Dipchand.—216, Kika Street, Bombay 4.
Sha Vastimal Bhabhutmal & Co.—227, Gulalwadi, Godiji Chawl, Bombay 2.
Shah Vrajlal & Co.—124/26, Kansara Chawl, Bombay 2.
Shah Vrajlal Chunilal & Co.—134, Kansara Chawl, Bombay 2.
Shivshankar Raghuram Purohit.—34, Kansara Chawl, Bombay 2.
Sureshchandra & Brothers.—84. Kansara Chawl, Bombay 2.
Swastik Metal & Engineering Works.—37, 2nd Bhoiwada, Bombay 2.
TARKAR, B. A.—50, Kansara Chawl, Kalbadevi, Bombay 2. (Prop. : A. B. Tarkar Metal Factory & Tarkar Products). Phone : 73698 Office ; 39035 Factory. Manufacturers of Copper & Brassware, Non-Ferrous & Stainless Steelwares.
Tulsidas Vitthaldas.—36, 2nd Bhoiwada, Bombay 2.
Umedlal & Co., A.—Behind Mumbadevi Post, Bombay 2.
Vanechand & Co. S.,—54, Kansara Chawl, Bombay 2.
Zinabhai Nathalal & Bros.—114, Kansara Chawl, Bombay 2.

COPPERSMITHS, PLUMBERS, GASFITTERS, ETC.

Abdeally, B. M., & Co.—127, Sarang Street, Bombay No. 3.
Abdulhusein Esoofaly Contractor.—91-93, Bapu Khote Street, Bombay 3.
A. G. Karimji Calcuttawala.—82/84, Gulalwadi, Kika Street, Bombay 4. Phone : 73636.
Alcock, Ashdown & Co., Ltd.—16, Bank Street, Fort.
B. BAMBOAT & CO. PRIVATE LTD.—56, Gowalia Tank Road, Bombay 26. Phone : 41917. Grams : "PILLARTAP." Coppersmiths, Plumbers, Gasfitters and Sanitary Engineers.
Bhaichandra & Co.—62, C. P. Tank Road.
Bhathena, B. N., & Co.—100, Nagdevi Street.
Bombay Gas Co., Ltd.—Empire of India Life Building, 214, Hornby Road, Fort.
Burjor Framji & Co.—Marine Mansion, Marine Lines.
Chandulal Narandas.—96, Kika Street, Bombay 4.
CHANDULAL VORA & CO.—(Licensed Plumbers), 61, Kika Street, Gulalwadi, Bombay 4. Phone: 72381.
Chimanlal Vadilal & Co.—473, Falkland Road, opp. 2nd Carpenter Lane, Bombay 4.
COOVERJI HORMUSJI & SONS, N.—(Estd. 1895). 598, Wadia Building, Chira Bazar, Girgaum Road, Bombay 2. Phone: 39919. Building Contractors, Plumbers & Sanitary Engineers. Specialists in Domestic Hot & Cold Water and Gas installations; Plumbing Works, Drainage Works, Sewage Disposal, Building Repairs, Building Constructions, Painting Works and Monsoon Dammering Works.
Esoofally Dawoodbhoy.—18, Doctor Street, Dhanwadi Moholla.
Esufally Adamji & Co.—134, Nagdevi Street.
Fidaali Rajabali.—165, Hill Road, Bandra.
Fidahusein Hasanali.—46-48, Gulalwadi, Kika Street, Bombay 4.
Gagrat & Co.—160, Nagdevi Street.
Garlick & Co. Private Ltd.—Haines Road, Jacob Circle.
Hindustan Engineering Services.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2.
Jafferjee Hussonally & Sons.—68, Nagdevi Street.
K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.
Marker, S. D., & Co. Ltd.—381, Hornby Road, Fort, Bombay.

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Mohomedbhoy Esoofally Nulwalla.—78, Bapu Khote Street, near Null Bazar.
Nanalal Pandya & Co.—302, Angrewada, Kalbadevi Road.
Pawar & Co., B.—Near Madhav Baug, 102, Ardeshir Dady Street.
Press, Cawasji Dinshaw.—Hamal Wadi, Dhobi Talao, Bombay 2.
Richardson & Cruddas.—Byculla Iron Works, Byculla.
Universal Sanitary Engineering Co.—Kitab Mahal, 190/192, Hornby Road, Fort.
Victoria Sanitary Stores.—54, 3rd Bholwada, Bhuleshwar, Bombay 2.
Vidya Sanitary Works.—16-24, Lohar Street, Bombay 2.

COST CONSULTANTS

R. NANABHOY & CO.—Ballard House, 14, Mangalore Street, Fort, Bombay 1. Cost Accountants, F.I.C.W.A., F.C.W.A., F.C.C.S., A.S.C.C. (London). Phones: 265420; 42392. Grams: "RANACOST." Partner: R. Nanabhoy (Mehta).

COTTON CONTROLLERS

Drennan & Co.—Allahabad Bank Building, Apollo Street, Fort.
Mehta Ramkrishna & Co.—Khandelwal Bhavan, 166, Dr. Dadabhoy Naoroji Road, Fort.
Robertson & Son, Edward T.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

COTTON IMPORTERS & EXPORTERS

Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
Damji Rattansi & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Devidayal Tulsiram (Cotton Department).—Darukhana, Reay Road, Bombay 10. Phones: 70558-59/73586. Grams: "Devisteel."
Hindustan Import & Export Corpn. Ltd.—Albert Building, Hornby Road, Fort.
Italindia Cotton Co., Ltd.—71-73, Apollo Street, Fort.
Jeramdas Naumal.—371, Hornby Road, Fort, Bombay.
Patel Bros.—6, Veer Nariman Road, Fort, Bombay.
Patel Cotton Company Ltd.—6, Vir Nariman Road, Fort.
Premji Haridas & Co.—Bhanushali Chambers, 166/170, Argyle Road, Bombay 9.
Raw Cotton Co. Ltd.—111, Mahatma Gandhi Road, Fort.

COTTON DEALERS

Aboobaker Abdulrehman & Co.—Imperial Building, 360, Junction of Lamington and Vithalbhai Patel Road, Bombay.
Ahmedabad Advance Mills, Ltd., The.—Bombay House, 24, Bruce Street, Fort, Bombay.
Amersey & Sons.—Feltham House, 10, Graham Road, Ballard Estate, Bombay.
Amulakh Amichand & Co.—810, Cotton Exchange Building, Bombay 2.
Anandilal Hemraj & Co.—Marwari Bazar, Bombay No. 2.
Anandilal Podar & Co.—Podar Chambers, Parsi Bazar Street, Bombay No. 1.
Anant Cotton Trading Co.—8-10, Tamarind Lane, Bombay 1.
Anopchand & Co.—C/o Messrs. Jagmohan Manilal Co., 505, Cotton Exchange, Marwari Bazari, Bombay 2.
Apollo Mills Ltd.—Standard Building, 346, Dadabhoy Naoroji Road, Fort, Bombay 1.
Arjan Khimji & Co.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Asian Cotton & Seeds Co.—Warden House, 2nd floor, Sir P. M. Road, Bombay.
Ashar, R. D.—10, Bruce Street, Fort.
Bachhraj & Co., Private Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort, Bombay.
Bachhraj Factories Private Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort, Bombay.
Bajaj Brothers, Ltd.—Round Building, Kalbadevi Road.
Bankeylal & Co., R.—2nd Floor, Ranchhoddas Tribhovandas Building, Mumbadevi, Bombay.
Barkat Ram & Co.—5th Floor, Broacha Building, Princess Street, Bombay.
Begraj Gupta & Co.—1st Floor, 207, Kalbadevi Road, Bombay.
Begraj Kishandev.—207, Kalbadevi Road, Bombay 2.
Bhagwandas Harkchand & Co.—602, Cotton Exchange Building, Marwari Bazar, Bombay No. 2.
Bhagwati Cotton Trading Co.—Raja Bahadur Mansion, 2nd Floor, 20, Hamam Street, Fort, Bombay.
Bhaidas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.
Bharat Cotton Brokers.—Sonawala Building, 2nd Floor, 59, Apollo Street, Fort, Bombay.
Bhawanji Lakhmidas & Co.—72/80, Musjid Bunder Road, Bombay No. 3.
Bhogilal Meghraj & Co. Ltd.—Shree Ram Mills Premises, Fergusson Road, Parel, Bombay 13.
Billimoria & Co., H. J.—2nd Floor, Room No. 9, Kansara Chawl, 118, Kalbadevi Road, Bombay.
Birla Brothers Private Ltd.—Industry House, 159, Churchgate Reclamation, Bombay 1.
Bombay Co., Private Ltd., The.—9, Wallace Street, Fort, Bombay.
Bombay Cotton Co., The.—Central Bank Building, Esplanade Road, Bombay.
Bombay Cotton Private Limited.—Neptune Building, 104, Apollo Street, Fort, Bombay 1.
Bombay Dyeing & Mfg. Co., Ltd., The.—Neville House, Graham Road, Ballard Estate, Bombay.
Bombay Uganda Co., Ltd., The.—28, Apollo Street, Fort, Bombay.
Bradbury Mills Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
BREUL & CO.—Taj Bldg., Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 263981/3 (3 Lines).
Brijmohan Maroo & Co.—158/164, Kalbadevi Road, 2nd Floor, Bombay.
Central India Spg., Wvg. & Mfg. Co. Ltd., The.—24, Bruce Street, Fort, Bombay
Century Spg. & Mfg. Co., Ltd., The.—Ground Floor, Queen's Mansions, Prescott Road, Fort, Bombay.
Chaitanyalal & Co.—808, Cotton Exchange Building, Marwari Bazar, Bombay.
Chandulal Kasturchand & Co.—Rooms Nos. 506-507, 2nd Floor, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Chandulal & Sons.—Botawala Building, Elphinstone Circle, Bombay.
Chatrabhoj Jethabhai & Co.—27, Chinch Bunder Road, Bombay No. 9.
Cheniram Jesraj Cotton Co.—288, Kalbadevi Road, Bombay.
Chhaganlal & Co.—168, Argyle Road, Bhanushali Chambers, Bombay No. 9.
Chimanlal & Co.—C/o Messrs. Gordhandas & Co., Marwari Bazar, Bombay No. 2.
Chimanlal Premchand Shah.—Chapsey Building, Princess Street, Bombay 2.
China Cotton Exporters.—10, Bruce Street, 2nd Floor, Fort, Bombay.
Chiranjilal & Co.—201, Kalbadevi Road, Bombay 2.
Chirawawala Co.—80B, Mahajan Assn. 2nd Floor, Sheikh Memon Street, Bombay 2.
Chunilal Krishnalal & Co.—608, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Chunilal Mehta & Co., Private Ltd.—Yusuf Building, 2nd Floor, 43, Mahatma Gandhi Road, Bombay 1.
Chunilal Pranjivandas & Co.—Indian Globe Chambers, Bori Bunder, Bombay 1.
Chunilal Tribhovandas Patel.—Uma House, 2nd Fofal Wadi, Bhuleshwar, Bombay.
Colaba Land & Mill Co., Ltd., The.—Victoria Bunder, Colaba, Bombay.
Coorla Spg. & Wvg. Co. Ltd.—Readymoney Mansion, Churchgate Street, Fort, Bombay 1.
Cotton Agents, Private Ltd., The.—Industry House, 159, Churchgate Reclamation, Bombay 1.
Cotton & Cloth Ltd.—27, Bastion Road, Fort.
Crown Spg. & Mfg. Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.
Dalal Brothers.—C/o Messrs. Motilal K. Dalal & Co., Share Bazar, Fort, Bombay 2.
Damji Khimji & Co.—C/o Messrs. Tulsiram Gurdasram, 312, Kalbadevi Road, Bombay 2.
Damji Rattansi & Co.—Poddar Chambers, Parsi Bazar Street, Fort.
Darashaw P. Nanavati & Son.—C/o The East India Cotton Association, Ltd., Cotton Green Building, Sewri, Bombay 15.
Dawn Mills Co. Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
Debiprasad & Company.—45/47, Apollo Street, Fort, Bombay.
Devidayal Tulsiram (Cotton Department).—Darukhana, Reay Road, Bombay 10. Phones: 70558-59/73586. Grams: Devisteel.
Devji Bhavanji & Co.—Manu Mansion, 16, Cushion House Road, Fort.
Devsee Khetsee & Co.—Ravji Ghalabhai Wadi, Opp. Derasar, Ghatkopar.
Dhanrajmal Gobindram.—8-10, Tamarind Lane, Fort, Bombay 1.
Drennan & Co.—Neville House, Ballard Estate, Bombay.
Durlabhji Umedchand & Co.—177-79, Kalbadevi Road, 3rd Floor, Laxmi House, Bombay No. 2.
Dwarkadas & Co. Private Ltd.—2nd Floor, Rajmahal, Opp. Bhuleshwar Fire Brigade, Bombay.

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Eastern Cotton Co.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay.
Edward Textiles Ltd.—15, Dougall Road, Ballard Estate, P.O. Box No. 781, Bombay.
Egyptian Cotton Agency.—10, Khatau Mansion, Cooperage, Bombay 1.
Elphinstone Spg. & Wvg. Mills Co. Ltd.—Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay 1.
Eximport Trading Co.—Queen's Mansion, Bastion Road, Fort, Bombay 1.
Finlay Mills, Ltd., The.—Chartered Bank Building, Fort, Bombay.
Futehally N. & Co.—Heneshaw Building, Bank Street, Fort, Bombay 1.
Gadodia & Son Private Ltd.—239, Kalbadevi Road.
Gill & Co. (Private) Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.
Girdharlal & Co.—C/o Messrs. Liladhar Karasondas & Co., 403, Cotton Exchange, Marwari Bazar, Bombay 2.
Girish & Co.—C/o Messrs. Gordhandas & Co., Manekchand Kapurchand Building, Marwari Bazar, Bombay.
Goculbhai Dolatram & Co.—522, Cotton Exchange Building, 5th Floor, Kalbadevi Road, Bombay 2.
Goculdas Dossa & Co.—2nd Floor, East and West Building, 65, Apollo Street, Bombay.
Goel Bros. & Co., Ltd.—Navsari Chambers, Fort.
Gokak Mills, Ltd., The.—C/o Messrs. F. F. Campbell & Co., Ltd., Forbes Building, Home Street, Fort, Bombay.
Gopaldas & Co.—C/o Messrs. Narandas Dwarkadas & Co., 411, Cotton Exchange Building, 4th Floor, Kalbadevi Road, Bombay 2.
Gordhandas & Co.—Manekchand Kapurchand Building, Marwari Bazar, Bombay.
Habib & Sons.—111, Esplanade Road, Bombay 1.
Hansraj Harji & Sons.—118, Kansara Chawl, Kalbadevi Road, Bombay.
Hasmukhlal & Co.—191, Kalbadevi Road, Bombay 2.
Hind Mills Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.
Hindoostan Spg. & Wvg. Mills Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.
Hirji Bharmal.—27, Chinch Bunder Road, Bombay 9.
Hirji Nensey & Co.—7-11, Elphinstone Circle, Fort, Bombay.
Husein Mussa Virjee & Co.—Sheriff Hassam Building, Khoja Moholla, Bombay 9.
Indermani Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay.
India Corporation Ltd.—Indian Globe Chambers, Fort Street, Fort, Bombay.
India Cotton Supplies Private Ltd.—Empire House, Hornby Road, Bombay 1.
India United Mills Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.
INTERNATIONAL COTTON CORPORATION, PRIVATE LTD.—Indian Globe Chambers, Fort Street, Bori Bunder. Post Box 1574, Bombay 1. Grams: "INTERCOTCO." Phones: 262966 and 262594. Cotton Merchants, Importers and Exporters.
Indian Manufacturing Co. Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.
Issardas R. V.—31, Queen's Road, Bombay 4.
Italindia Cotton Co. Ltd.—Indian Globe Chambers, Bori Bunder, Bombay 1.
Jagjivandas Kasturchand & Co.—515, Cotton Exchange, Kalbadevi Road, Bombay No. 2.
Jagjiwan & Co., C. V.—C/o Mr. Champaklal Vadilal, Jagmohan Mansion, Bhatt Wadi, Sandhurst Road, Bombay No. 4.
Jagjiwandas Dossabhai & Co., C. V.—C/o Messrs. Narrondass Manordass, 135, Sheikh Memon Street, Bombay 2.
Jagmohan Manilal Co.—Room No. 505, Cotton Exchange, Marwari Bazar, Bombay 2.
Jairam & Company, C.—Gaya Building, 2nd Floor, Masjid Bunder Road, Bombay 3.
Jam Mfg. Co. Ltd., The.—Lalbaug, Parel, Bombay.
Jam Shri Ranjitsinghji Spg. & Wvg. Mills Co., Ltd., The.—11, Bank Street, 3rd Floor, Fort, Bombay.
James Finlay & Co., Ltd.—Chartered Bank Buildings, Esplanade Road, Fort, Bombay.
Jamnadas Lukhmidas & Co.—C/o Messrs. Liladhar Karsandas & Co., Agakhan Building, Dalal Street, Fort, Bombay.
Jamnadas Parbhudas & Co.—"Prabhu Bhuvan," Girgaon Back Road, Bombay.
Jamnadas Ruttonsey & Co.—Bell & Co.'s Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Jamshed N. Ratnagar & Son.—C/o Messrs. Breul & Co., Taj Building, Hornby Road, Fort, Bombay.
Jayantilal Thakordas & Co.—Arvind House, New Charni Road, Bombay 4.
Jivandas Ladha & Co.—Nanjee Building, 3rd Floor, 17B, Elphinstone Circle, Fort, Bombay 1.
Jivandas Ladha & Co.—17B, Elphinstone Circle, Nanjee Bldg., 3rd Floor, Fort, Bombay.
Jivraj Motiram & Co.—62, Marwari Bazar, Bombay 2.
Kalidas & Co.—195, Samuel Street, Bombay 9.
Kalyanji & Co.—523, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Kamala Mills, Ltd.—Kilachand Devchand Bldg., 45-47, Apollo Street, Bombay.
Karsandas Jivandas.—31, Forbes Street, Fort, Bombay 1.
Kekushroo & Co.—York Building, Hornby Road, Fort, Bombay.
Khandesh Spg. & Wvg. Mills Co., Ltd., The.—Cambata Building, 42, Queen's Road, Fort, Bombay.
Khatau Makanji Spg. & Wvg. Co., Ltd., The.—Laxmi Building, 42, Ballard Pier, Fort, Bombay.
Khetsey & Co. Private—C/o. Shroff Cooper & Co., Bombay Stock Exchange Building, 3rd Floor.
Khimji Chheda & Co.—C/o The Berar Mfg. Co. Ltd., Rajabahadur Mansion, 24B, Hamam Street, Fort, Bombay 1.
Khimji Damji & Co.—4th Floor, Mulji Laxmidas Building, 3, Mint Road, Fort, Bombay.
Khimji Visram & Co.—192, Kitab Mahal, 2nd Floor, Hornby Road, Fort, Bombay 1.
Khushiram Beharilal & Co.—390, Sheikh Memon Street, Bombay 2.
Kilachand Devichand & Co., Private Ltd.—45-47, Apollo Street, Fort, Bombay.
Kishan Prasad & Co., Ltd.—3rd Floor, Jiji House, 15, Ravelin Street, Fort, Bombay No. 1.
Kishinchand Chellaram.—Gazdar House, Dhobi Talao, Bombay 2.
Kishor Natverlal & Co.—70, Forbes Street, Fort, Bombay 1.
Kisonlal Marfatia & Co.—38, Cawasji Patel Street, Fort, Bombay.
Kohinoor Mills Co., Ltd., The.—Home Street, Fort, Bombay.
Kooverjee V. Currumsey & Co.—Lentin Chambers, Dalal Street, Fort, Bombay.
Kothari Trading Co.—428, Kalbadevi Road, 2nd Floor, Bombay.
Lakhmichand & Co.—Neptune Building, 166, Hornby Road, Bori Bunder, Bombay.
Lakhamsey Manek & Co.—R.N. 28, Patwa Chawl, Zaveri Bazar.
Lalchand Nagardas & Co.—606, Cotton Exchange Building, Kalbadevi Road, Bombay.
Lalji Deokaran & Co.—Deokaran Niwas, Tulsidas Surji's House, 283, Samuel Street, Vadgadi, Bombay No. 3.
Lalji Naranji & Co.—Ewart House, Tamarind Lane, Fort, Bombay.
Lalji Ramji & Co.—17, Chinch Bunder Road, Bombay No. 9.
Lallji Thakersey & Co.—Mulraj Khatau House, 12, Chinch Bunder Road, Mandvi, Bombay No. 9.
Lallubhai Nagardas & Sons.—Old Stock Exchange Building, Dalal Street, Fort, Bombay, 1.
Laxmi Cotton Traders.—10, Bruce Street, 2nd Floor, Fort, Bombay 1.
Laxmidas Madhavji & Co.—Ratnagiri House, Dadyseth 2nd Cross Lane, Chowpatty, Bombay.
Laxmilal Sakhlecha & Co.—Bharucha Building, 460, Kalbadevi Road, Bombay 2.
Liladhar Karsondas & Co.—Aga Khan Building, Dalal Street, Bombay.
Lohia Sultania Company.—Anand House, 158/64, Kalbadevi Road, Bombay 2.
Loknath Tibrewala & Co.—11, Krishna Bhuvan, Bhuleshwar, Bombay 2.
Lukhmidass & Co.—24, Elphinstone Circle, Fort, Bombay.
Madhavdas Amersey & Co.—Feltham House, 10, Graham Road, Ballard Estate, Bombay.
Madhavlal, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.
Mafatlal Gagalbhai & Co. Private Ltd.—Mafatlal House, Back Bay Reclamation.
Maganlal & Co.—C/o Messrs. Narandas Dwarkadas & Co., 411, Cotton Exchange Bldg., Kalbadevi Road, Bombay.
Mahendra Mulraj & Co.—31, Forbes Street, Bombay 1.
Mahipatrai Jadavji & Co.—Chinai Building, Masjid Bunder Road, Bombay No. 3.
Manalal Bhagirathdas & Sons.—C/o Messrs. Laxminarayan Mansukhrai & Co., Govind Chawk, Moolji Jetha Market, Bombay No. 2.
Manilal Patel & Co.—Kamer Building, Cowasji Patel Street, Fort, Bombay 1.
Manharlal, K., & Co.—10, Chinch Bunder, Bombay 9.
Mehta & Co.—Yusuf Building, 2nd Floor, 43, Mahatma Gandhi Road, Bombay No. 1.
Mehta & Co., H. M.—Mehta House, Apollo Street, Fort, Bombay.
Mohanlal Lallubhai & Co.—C/o Mr. Hirachand Dayal, Vithal Sadan, 3rd Floor, Room No. 80/90, 342, Kalbadevi Road, Bombay 2.
Mohanlal Motilal.—Yusuf Building, Mahatma Gandhi Road, Fort, Bombay 1.
Mooljee Jaitha & Co.—185, Princess Street, Bombay 2.
Motabhoy Gulabdas & Co.—Bharat House, 104, Apollo Street, Fort, Bombay 1.
Moolchand Vissonji & Co.—C/o Messrs. Liladhar Karsondas & Co., 9, Dalal Street, Agakhan Bldg., Fort, Bombay.
Murlidhar & Co.—4th Floor, Madan Mansion, 57-59, Sheikh Memon Street, Marwari Bazar, Bombay No. 2.
Nanji & Co., C.—406, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Nansey & Co., T. H.—7-11, Elphinstone Circle, Fort, Bombay.
Narandas Dwarkadas & Co.—Cotton Exchange Building, Room No. 411, Kalbadevi Road, Bombay.
Narandas Rajaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort.

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Narayandas Pokarmal Co.—Bullion Exchange Building, Bombay No. 2.
Narbheram Naranjee & Sons.—709, Cotton Exchange Building, 7th Floor, Kalbadevi Road, Bombay.
Narendrakumar R. Kanji & Co.—116, Keshavji Naik Road, 2nd Floor, Bombay 9.
Narsee Nagsee & Co.—French Bank Building, 62, Homji Street, Fort, Bombay 1.
Nathalal Bechardas & Co.—809, Cotton Exchange Building, Marwari Bazar, Bombay No. 2.
Nathmal Somani & Co.—158/64, Anand House, 4th Floor, Kalbadevi Road, Bombay 2.
Natverlal Chandulal & Co.—Navsari Chambers, Outram Road, Fort, Bombay.
Navnitlal Chunilal Shah.— 37, Marwari Bazar, Bombay.
Navpush & Co.—37, Marwari Bazar, Bombay 2.
Nevatia Brothers.—C/o Messrs. Hardayal Nevatia, 3rd Floor, Marwari Chamber Building, 226, Kalbadevi Road, Bombay.
New City of Bombay Mfg. Co. Ltd.—Brady House, Veer Nariman Road, Fort, Bombay 1.
New Great Eastern Spg. & Wvg. Co. Ltd.—Brady House, Veer Nariman Road, Fort, Bombay 1.
Odhavjee Shivjee & Co.—Room No. S-48, Cotton Green Bldg., Sewri, Bombay No. 15.
Onkarmal Meghraj & Co.—Bullion Association Bldg., 3rd Floor, Sheikh Memon Street, Bombay 2.
Parakh & Co. (India) Private Ltd., C.—28, Apollo Street, Fort, Bombay.
Parmanand Maneklal & Co.—Maskati Mahal, Lohar Chawl.
Parsram Parumal & Co.—104-114, Frere Road, 7, Sugar Market, Bombay No. 9.
Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort, Bombay.
Patel Cotton Co. (Private) Ltd.—Elphinstone Building, Veer Nariman Road, Fort, Bombay 1.
Patel Cotton Co., Ltd., The.—New Cotton Depot, Sewree.
Phoenix Mills Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
Podar Brothers.—384M, Kalbadevi Road, Bombay 2.
Podar Mills Ltd., The.—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
Podar Trading Co., Private Ltd., The.—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
Poddar & Co., A. M.—32, Rampart Row, Fort.
Pranjiwandas Dwarkadas & Co.—C/o Messrs. Hariprasad Amritlal's Jetha, Iron Jetha, Carnac Bunder, Bombay No. 3.
Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
Premji Haridas & Co.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Punjab Cloth Mills Ltd.—Bullion Exchange Building, Zaveri Bazar, Bombay 2.
Purshotam Govindji & Sons.—612, Cotton Exchange, Marwari Bazar, Bombay 2.
Pyarelal Gupta & Co.—207, Kalbadevi Road, Bombay 2.
Radhakishan Anandeshwar.—2nd Floor, Bullion Assn. Building, Bombay 2.
Raghavji Kanji & Co.—116, New Chinch Bunder Road, Bombay.
Rajnikant & Co., C.—C/o Messrs. Chaitanyalal & Co., 808, Cotton Exchange Building, Kalbadevi Road, Bombay 2.
Rallis India Limited.—21, Ravelin Street, Fort, Bombay.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi, Bombay.
Ramakishan Totla & Co.—Girdhar Jiva Building, 2nd Floor, Bhuleshwar, Bombay 2.
Ramanlal & Sons.—Babulal Mansion, Chowpatty Sea Face, Bombay 7.
Ramirldas Nandlall.—Wakefield House, 3rd Floor, Sprott Road, Ballard Estate.
Ramchandra Satyanarain.—43, Ram Wadi, 3rd Floor, Bombay 2.
Ramchandra Hanuman & Co.—144-46, Kalbadevi Road, 3rd Floor, Bombay No. 2.
Ramdas Dossa & Co.—Cotton Exchange Building, Kalbadevi Road, Bombay No. 2.
Ramdas Khimji Brothers.—Warden House, 2nd Floor, Sir Pherozshah Mehta Road, Fort, Bombay.
Ramdas Tulsidas & Co.—36, Marwari Bazar, Bombay.
Ramdayal Somani & Co.—158-164, Kalbadevi Road, Opp. Cotton Exchange Building, Bombay.
Ramkumar & Co.—C/o Messrs. Basesarlal Bubbna, 259, Kalbadevi.
Ramnarain Son, Private Ltd.—Imperial Bank Bldg., Bank St., Fort, Bombay 1.
Ramrikhdas Perasram Puria & Co.—Rajmahal, Bhuleshwar, Bombay.
Ramsarup Gupta & Co.—705, Cotton Exchange, Kalbadevi Road, Bombay 2.
Ranchhoddas Khimji & Co.—288, Narshi Natha Street, Bombay 9.
Ranchhoddas Purshotam & Co.—406, Cotton Exchange, Marwari Bazar, Bombay 2.
Rasiklal Chandrakant & Co.—2nd Floor, Rustom Building, Veer Nariman Road, Bombay 1
Ratansey K. Khona.—Noble Chambers, 116, Parsi Bazar Street, Fort, Bombay.
Ratilal & Co.—1-3, Bhuleshwar Corner, Bombay.
Robertson & Son, Edward T.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort, P. B. No. 306, Bombay.
Rodocanachi & Co.—Jiji House, 17, Ravelin Street, Fort.
R. Popatlal & Co.—17, Tara Mansion, opp. Rly. Station, Bombay 19.
Ratilal K. Patel—Sangli Building, Bazar Gate Street, Fort, Bombay 1.
Rustomji Framji & Co.—C/o Messrs. Chatarbhuj Piramal, 60, Marwari Bazar, Bombay.
Sant Ram & Sons Ltd.—77, Medows Street, Fort.
Satyanarayan Sekhsaria & Co.—19, Bhuleshwar, Bombay 2.
Savaldas Madhavadas.—Prospect Chambers Annexe, Dadabhoy Naoroji Road, Fort, Bombay 1.
Seksaria Cotton Mills, Ltd.—139, Medows Street, Fort, Bombay.
Sethia R. K. (India) Private Ltd.—Himalaya House, Palton Road, Bombay 1.
Shah Sarabhai Hatising.—Maskati Mahal, Lohar Chawl, Bombay 2.
Shobhagchand Jethabhai & Co.—C/o Messrs. Chandulal Kasturchand Shah, 506, Cotton Exchange, Marwari Bazar, Bombay No. 2.
Sholapur Spg. & Wvg. Co., Ltd., The.—Standard Bldg., 346, Hornby Road, Fort, Bombay.
Shree Niwas Cotton Mills, Ltd., The.—DeLisle Road, Parel, Bombay No. 13.
Shree Madhav Mills Ltd.—Foras Road, Bombay 8.
Shree Ram Mills Ltd.—Fergusson Road, Parel, Bombay 13.
Shree Sitaram Mills, Limited.—15A, Elphinstone Circle, Fort, Bombay.
Shroff Cooper & Co.—67, Stock Exchange Building, Apollo Street, Fort, Bombay 1.
Sree Krishna Trading Co., Ltd.—11, Alli Chambers, Medows Street, Fort.
Svadeshi Mills Co. Ltd.—Bombay House, Bruce Street, Fort, Bombay 1.
Swadeshi Cotton Mills Co. Ltd.—357, Kalbadevi Road, Bombay 2.
Swan Mills, Ltd., The.—Chartered Bank Building, Esplanade Road, Fort, Bombay.
Tata Mills, Ltd., The.—Bombay House, 24, Bruce Street, Fort, Bombay.
Thakersey Chunilal Parikh & Co.—C/o Messrs. Amulakh Amichand, R. No. 810-811 CTNEXGE.
Tiwari & Co.—15, Bullion Exchange, Bombay No. 2.
Trambaklal Uttarwar & Co.—Bansilal Abirchand Building, 1st Floor, 18, Marwari Bazar, Bombay 2.
Universal Cotton Trading Co., The.—Bombay Mutual Building, Hornby Road, Fort, Bombay.
Vakharia Bros.—R. No. 410, CTNEXGE.
Valji Ladha & Co.—Valji Vurdhaman's House, Opp. Police Chowki, 288, Dongri Street, Mandvi, Bombay.
Vallabhdas Dayal & Sons.—E. D. Sassoon Building, Ballard Estate, Fort, Bombay.
Vasonjee Morarjee.—Ewart House, Bruce Street, Fort, Bombay 1.
Vasanji Mavji & Co.—27, Chinch Bunder, Bombay 9.
Vassanji Sons & Co. Private Ltd.—9, Wallace Street, Fort, Bombay.
Vasantlal & Co., C.—Commissariat Bldg., 5th Floor, 231, D. Naoroji Road, Bombay No. 1.
Vassonji Khimji & Co.—C/o Chandulal Keshavlal Shah, 88, Masjid Road, Bombay No. 9.
Vinaya Trading Co. Ltd.—State Bank Building Annexe, Bank Street, Fort, Bombay 1.
Viram Ladha & Co.—288, Narsee Natha Street, Bombay 9.
Virji Ladha & Co.—57-59, Chinch Bunder Road, Mandvi, Bombay.
Vishindas Pribhdas & Co.—57-59, Madan Mansion, Marwari Bazar, 5th Floor, Bombay.
Volkart Brothers.—Volkart Building, Graham Road, Ballard Estate, Bombay 1.
Vrajlal Purshotam & Brothers.—Yusuf Bldg., 4th Floor, Mahatma Gandhi Road, Fort, Bombay 1.
Vulabhdas Narandas & Co.—C/o Messrs. Govindji Bhanji, 1st Floor, Shanti Bhuvan, Old Hanuman Lane, Bombay.
Western India Spg. & Mfg. Co., Ltd., The.—Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

COTTON MILLS

Apollo Mills, Ltd.—Agents, Rajputana Textiles (Agencies) Ltd., DeLisle Road, Chinchpokli.

Beharilal Ramcharan Cotton Mills Ltd. (formerly Meyer Mills Ltd.).—Managed by Board of Directors, Empire House, Dr. Dadabhoy Naoroji Road, Bombay. Mills at Fergusson Road, Lower Parel.

Bombay Dyeing & Manufacturing Co., Ltd. (Spring Mills).—Agents, Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Naigaum Road, Dadar.

Bombay Dyeing & Manufacturing Co., Ltd. (Textile Mills).—Agents Nowrosji Wadia & Sons Private Ltd., Neville House, Graham Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel.

Bradbury Mills, Ltd.—Agents, Ramnarain Sons, Ltd., State Bank Bldg., Bank Street, Fort. Mills at Ripon Road, Jacob Circle.

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Century Spinning & Manufacturing Co., Ltd. (Century Mill and Zenith Mill).—Agents, Birla Bros. Private Ltd., Industry House, 159, Churchgate Reclamation. Mills at Globe Mill Passage, Worli.

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Colaba Textile Private Ltd. (formerly Colaba Land & Mill Co., Ltd.)—Mg. Director, Mr. V. J. Pilani. Office on Mill premises. Mills at Victoria Bunder, Colaba.

Colaba Land & Mill Co., Ltd. (Jehangir Wadia Mill).—Mg. Director, Mr. V. J. Pilani. Office on Mill premises. Mills at Victoria Bunder, Colaba.

Coorla Spinning & Weaving Co., Ltd.—Secretaries, Treasurers & Agents, Messrs. Cowasjee Jehangir & Co., Private Ltd., 23, Readymoney Mansion, Veer Nariman Road. Mills at Coorla.

Crown Spinning & Manufacturing Co., Ltd. (formerly Dhun Mills). —Secretaries, Treasurers & Agents, Purshotam Vithaldas & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at New Parbhadevi Road, Parel.

Dawn Mills Co., Ltd.—Agents, Ramnarain Sons Ltd., State Bank Bldg., Bank Street, Fort. Mills at Fergusson Road, Lower Parel.

Dhanraj Mills, Ltd. (formerly Assur Virji Mills, Ltd.).—Agents, Ramgopal Ganpatrai & Sons, Private Ltd. Office on Mill premises. Mills at Sun Mill Road, Lower Parel.

Digvijaya Spinning & Weaving Co., Ltd. (formerly Dinshaw Petit Mills).—Agents, Jethabhai Khatau & Co. (Agencies) Ltd. Office on Mill premises. Mills at Lalbaug, Parel.

Edward Textiles, Ltd.—Agents, Puranmal Bubna Sons, Indu House, Dougall Road, Ballard Estate, Fort. Mills at Fergusson Road, Lower Parel.

Elphinstone Spinning & Weaving Mills Co., Ltd.—Managed by Board of Directors, Kamani Chambers, 32, Nicol Road, Ballard Estate, Bombay. Mills at Elphinstone Road, Parel.

Finlay Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Buildings, Fort. Mills at Government Gate Road, Parel.

Gold Mohur Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Fort. Mills at Main Road, Dadar.

Hind Mills Ltd. (formerly David Mills Co., Ltd.) (Mills Nos. 1 and 2).—Agents, Hind Agents Ltd., 15, Indu House, Dougall Road, Ballard Estate, Fort. Mills at Carroll Road, Parel.

Hindoostan Spinning & Weaving Mills Co., Ltd.—Agents, Thackersey Mooljee & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Ripon Road, Jacob Circle.

Indian Manufacturing Co., Ltd.—Agents, Damodar Thackersey Muljl & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Lamington Road, North, Jacob Circle.

India United Mills, Ltd., Mill No. 1 (formerly Jacob Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Suparibaug Road, Parel.

India United Mills Ltd., Mill No. 2 (formerly Alexandra Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Ghorupdeo Road, Chinchpokly.

India United Mills Ltd., Mill No. 3 (formerly E. D. Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Ghorupdeo Road, Chinchpokly.

India United Mills, Ltd., Mill No. 4 (formerly Rachel Mill) (formerly Hongkong Mills).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Chinchpokly Road, Kalachowki.

India United Mills, Ltd., Mill No. 5 (formerly Manchester Mill).—Agents, Agarwal & Co., Dougall Road, Ballard Estate, Fort. Mills at Chinchpokly Cross Lane, Kalachowki.

Jam Mfg. Co., Ltd., Mill No. 1.—Secretaries, Treasurers and Agents, Tricumdas Vandravan & Co. Office on Mill premises. Mills at Lalbaug, Parel.

Jam Mfg. Co., Ltd., Mill No. 2 (formerly Birla Mills, Ltd. No. 2).—Secretaries, Treasurers & Agents, Tricumdas Vandravan & Co., Lalbaug, Parel. Mills at Tokersey Jivraj Road, Sewree.

Jubilee Mills, Ltd.—Secretaries, Treasurers and Agents, Chamanlal Mehta & Co. Private Ltd., Bharat House, Apollo Street, Fort. Mills at Tokersey Jivraj Road, Sewree.

Kamala Mills, Ltd. (formerly Ebrahimbhoy Pabaney Mills).—M. L. Tapuriah, Esq., Director. Office : Kilachand Devchand Building, Apollo Street, Fort. Mills at Tulsi Pipe Road, off DeLisle Road.

Khatau Makanji Spinning & Weaving Co., Ltd.—Agents, Khatau Makanji & Co., Ltd., Laxmi Buildings, 6, Ballard Pier, Fort. Mills at Haines Road, Byculla.

Kohinoor Mills Co., Ltd., Mills Nos. 1, 2 & 3.—Agents, Killick Industries, Ltd., Killick Building. Home Street, Fort. Two Mills at Naigaum Cross Road, Dadar and third at Lady Jamshedji Road, Dadar.

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Phone : 78416

Modern Mills, Ltd., Mill No. 1 (formerly Mysore Spinning & Manufacturing Co., Ltd. No. 2).—Agents, N. Sirur & Co., Ltd., Temple Bar Building, 70, Forbes Street, Fort. Mills at Elphinstone Road, Parel.

Modern Mills, Ltd., Mill No. 2 (formerly Bomanji Petit Mills).—Agents, N. Sirur & Co., Ltd., Temple Bar Building, 70, Forbes Street. Mills at Mahaluxmi.

Moon Mills, Ltd.—Managed by Board of Directors, General Assurance Building, Hornby Road, Fort. Mills at Tokersey Jivraj Road, Sewree.

Morarjee Goculdas Spinning & Weaving Co., Ltd.—Agents, Messrs. Piramal & Sons. Office on Mill premises. Mills at Suparibaug Road, Parel.

New City of Bombay Manufacturing Co., Ltd.—Agents, W. H. Brady & Co., Ltd., Brady House, 12-14, Vir Nariman Road, Fort. Mills at 63, Chinchpokly Road.

New Great Eastern Spinning & Weaving Co., Ltd.—Agents, W. H. Brady & Co., Ltd., Brady House, 12-14 Vir Nariman Road. Mills at Victoria Gardens Road, Chinchpokly. Spindles: 49,012 and Looms 1,018.

New Kaiser-I-Hind Spinning & Weaving Co., Ltd.—Lala Kailashpat Singhania, Managing Director, J. K. Building, Dougall Road, Ballard Estate, Bombay. Mills at Gorupdeo Road, Chinchpokly.

New Pralhad Mills (formerly Planet Mills).—Proprietors, Amrit Banaspati Co., Ltd., East and West Building, Apollo Street, Fort. Mills at Ferguson Road, Lower Parel.

Phoenix Mills, Ltd. (formerly Britannia Mills.)—Agents, Ramnarain Sons, Ltd., State Bank Building, Bank Street, Fort. Mills at Tulsi Pipe Road, Lower Parel.

Podar Mills, Ltd. (formerly Toyo Podar Cotton Mills, Ltd.)—Agents, Podar Sons Ltd., Podar Chambers, Parsee Bazar Street. Mills at DeLisle Road.

Prakash Cotton Mills Private Ltd. (formerly Seksaria Cotton Mill No. 2).—Managed by Board of Directors, Seksaria Chambers, 139, Medows Street, Fort. Mills at Ferguson Road, Lower Parel.

RAGHUVANSHI MILLS, LTD.—11-12, Haines Road, Mahalaxmi, Bombay 13. Mg. Agents, Ravindra Maganlal & Co. Private Ltd. Office on Mill premises. Mills at Haines Road, Mahalaxmi, Bombay 13. Phone: 76291/2/3. Grams: "Raghubir." Spindles: 33,212; Cotton Looms: 119; Art Silk Looms: 144; Manufacturers of Cotton Yarn and Cloth, Silk Fabrics and Sewing Threads and Embroidery Yarn.

Ruby Mills, Ltd. (formerly Sorab Mills).—Agents, Chunilal Jeewandas & Co. Office: 49-55, Apollo Street, Fort. Mills at Woollen Mill Gully, Lady Jamshedji Road, Dadar.

Sassoon Spinning & Weaving Co., Ltd.—Agents, M. G. Investment Corporation Ltd., Mafatlal House, Back Bay Reclamation, Bombay. 1. Sassoon Mills, at Mount Estate, Mazagon. Spindles: 60,784 and Looms 1,254. 2. New Union Mills, Lower Parel.

Sayaji Mills Ltd.—Props., Kathwada, Ahmedabad. Sayaji Mills No. 2 (formerly Hirjee Mills, Ltd.).—Mills at Ferguson Road, Lower Parel.

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Seksaria Cotton Mills, Ltd., Mill Nos. 1 & 1A (formerly Currimbhoy and Mohamedbhoy Mills).—Managed by Board of Directors, 139, Medows Street, Fort. Mills at DeLisle Road.

Shree Madhav Mills Ltd. (formerly Madhavji Dharamsi Mfg. Co., Ltd.)—Agents, Puranmal Radhakishan & Co., Office on Mill premises. Mills at Foras Road.

Shree Madhusudan Mills.—Proprietors, Messrs. Hall & Anderson Ltd., Shreenivas House, Waudby Road, Fort, Bombay. Mills at Globe Mills Passage, DeLisle Road, Bombay 13.

Shree Nivas Cotton Mills, Ltd. (formerly Fazulbhoy Mills, Ltd.).—Agents, The Marwar Textiles (Agency), Ltd. Shreenivas House, Waudby Road, Fort, Bombay. Mills at DeLisle Road.

Shree Ram Mills, Ltd. (formerly Crescent Mills, Ltd.).—Agents, Bhogilal Menghraj & Co., Ltd. Office on Mill premises. Mills at Ferguson Road, Lower Parel.

Shree Sitaram Mills Ltd. (formerly Sir Shapurji Broacha Mills Ltd.)—Managed by Board of Directors. 15A, Elphinstone Circle, Fort. Mills at DeLisle Road.

SIDHPUR MILLS CO. LTD.—52/54, Nakhoda Street, Pydhonie, Bombay 3. Mg. Agents: Maganlal Parbhudas & Co. Mills at Sidhpur (N.G.), Bombay. Office: 52/54, Nakhoda Street, Pydhonie, Bombay 3. Phone: 29700. Grams: "RAVISUR." Spindles: 28,800; Looms: 406. Manufacturers of Cotton & Staple Yarn and Cotton Piecegoods.

Simplex Mills Company, Ltd.—Agents, Forbes, Forbes Campbell & Co., Ltd., Forbes Building, Home Street, Fort. Mills at Clerk Road, Jacob Circle, Byculla.

Standard Mills Co., Ltd.—Agents, Mafatlal Gagalbhai & Sons, Mafatlal House, Back Bay Reclamation, Bombay. 1. Standard Mills at Parbhadevi Road, Lower Parel. Spindles: 54,796 and Looms 16,332. New China Mills at Sewree.

Svadeshi Mills Co., Ltd.—Agents, Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort. Mills at Kurla.

Swan Mills, Ltd.—Agents, James Finlay & Co., Ltd., Chartered Bank Building, Hornby Road, Fort. Mills at New Sewree Road.

Swastik Textile Mills Ltd.—Managing Agents: Messrs. P. Kashinath & Co., Dubash Market, Sheikh Memon Street, Bombay. Mills at Ferguson Road, Lower Parel.

Tata Mills, Ltd.—Agents, Tata Industries, Ltd., Bombay House, 24, Bruce Street, Fort. Mills at Dadar Road.

Victoria Mills Ltd. (formerly Satya Mill, Ltd.).—Agents, Mangaldas Mehta & Co., Private Ltd., Bharat House, Apollo Street, Fort. Mills at DeLisle Road, Parel.

Western India Spinning & Manufacturing Co., Ltd.—Agents, Thackersey Moolji Sons & Co., Sir Vithaldas Chambers, Apollo Street, Fort. Mills at Kalachowki Road, Chinchpokly.

COTTON PIECEGOODS EXPORTERS

Ahmed Ebrahim Bros.—88, Chuckla Street, Bombay 3.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Arvinda Trading Co. Private Ltd.—105, Apollo, Street, Fort.

ASIAN TRADING CORPORATION.—1-A, Nazir Building, Calicut Street, P.O. Box 1505, Bombay 1. Sales Office: 310, Mirabelle Hotel, 33/A, Marine Lines, Bombay 1. Phone: 262575. Grams: "AJPIPAS." Exporters of Cotton Piecegoods.

Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.

Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Begraj Gupta & Co.—Niru Villa, 387, Linking Road, Khar.

Bhagwandas Chatrabhuj & Co.—20, Hamam Street, Fort.

B. Naraindas & Co.—Court House, Carnac Road, Bombay 2.

Bulchand, Co., L.—Moos Building, 510, Kalbadevi Road.

CAWASJI MANCHERJI KAPADIA & SONS.—241-43, Sheikh Memon Street, Post Kalbadevi.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort.

Consolidated Trading Corporation.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay 1.

Devidas Mulji Kapadia.—Yusuf Building, Hornby Road, Fort.

Dilaj & Co.—20, Hamam Street, Fort.

Dinanath Sons.—466, Kalbadevi Road, Bombay 2.

D. Ram & Co.—Krishna Nivas, New Silk Bazar, P.O. Box 2376, Bombay 2.

Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.

Govias (India) Ltd.—Bombay Mutual Building, Hornby Road, Fort.

Haji Ahmed Husan & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.

Harilal Manilal & Co.—346, Kalbadevi Road, Bombay 2.

Hassaram, K., & Co.—New Silk Bazar, Kalbadevi Road.

Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Himatlal Manilal & Sons.—346, Kalbadevi Road, Bombay 2.

Hindustan Export & Import Corpn. Ltd.—Albert Building, Hornby Road, Fort.

Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

India Textile Agencies.—Noble Chambers, Parsi Bazar Street, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone: 20726. Grams: "INDARTMUSE."

Italindia Cotton Co., Ltd. (Estd. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.

Jassawala & Co., R. M.—105, Apollo House, Apollo Street, Fort.

JAYANT TRADING CO.—Sir Vithaldas Chambers, Apollo Street, Fort. Exporters & Importers and Cotton Merchants. Phone: 253018. Grams: "BEACHWAY."

Jesanglal V. Shah.—Dwarkesh Gully, 1st Floor, Mulji Jetha Market, Bombay 2.

Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay.

Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road.

KESHAVLAL TALAKCHAND (PRIVATE) LTD.—India House, Opp. G.P.O., Fort, Bombay 1. Phone: 262934. Grams: "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem.

Kimatrai & Co., G.—New Silk Bazar, Bomanji Master Road, Bombay 2.

Kishinchand Chellaram.—Guzder House. Dhobi Talao.

Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Kotecha & Co.—Commissariat Building, 231, Hornby Road, Fort.

K. Metharam.—491-3, Kalbadevi Road.

Mansukhlal Kantilal & Co.—Mulji Jetha Building, 185, Princess Street, Bombay 2.

Mata Lachhmi Company.—Husseni Chambers, Nanabhai Lane, Fort.

MOTIWALLA & SONS PRIVATE LTD.—91, Mohamedali Road, Rangoonwalla Building, Bombay 3. Exporters of Cotton Piecegoods and Yarn of all kinds of textile goods.

NAKIMPEX TRADERS.—24, Veer Nariman Road, Bombay 1. Phone: 252906. Grams: "NAKIMPEX".

Narandas Rajaram & Co., Ltd.—Navsari Chambers, Outram Road, Fort.

Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Podar Trading Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.

Poonjiajee J. M. Jehanjir, J. P.,—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.

Ramjee Samjee Virani (India) Ltd.—185, Bazargate Street, Fort.

Ramchand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.

Rowe & Rowe.—381, Hornby Road, Fort.

Seabee Export Import Co.—9, Waudby Road, Fort. Phone: 34678.

Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Medows Street, Fort.

Steel Brothers & Co., Ltd.—Allahabad Bank Building, Apollo Street, Fort.

SUDAN TRADING CO.—Dhan-Nur, Sir Phirozshah Mehta Road, Bombay 1. Phones: Office: 262788; Res.: 62089. Grams: "VANSOBHA."

Tarachand Parsram.—Court House, Carnac Road, Bombay 2.

Tavaria Brothers.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.

Todi & Co.—41, Hamam Street, Fort, Bombay.

Trading Co., L. R.—Navsari Chambers, opp. Lloyds Bank, Fort.

TRANS-UNION COMMERCIAL CORPORATION PRIVATE LTD.—Prospect Chambers Annexe, 319, Dr. Dadabhai Naoroji Road, Fort, Bombay. Grams: "TRANSMETER." Phone: 251610.

Tulsidas V. Patel.—Morarji Goculdas Market, Kalbadevi Road, Bombay 2.

T. Vrajlal & Co.—405, Kalbadevi Road, Bombay 2.

Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.

Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.

Velji Kalidas & Sons.—90-92, Khand Bazar, Mandvi, Bombay 3.

Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

Yacoob Ahmed Brothers (Estd. 1895).—Topiwalla Mansion, Mohamedali Road.

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COTTON PIECEGOODS IMPORTERS

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
Kapadia & Co.—19, Sir Phirozshah Mehta Road, Bombay 1.
Mahendralal, B.—Muljee Jetha Market, Dwarkesh Gully, Bombay 2. Cotton, Woollen and Art Silk and Piece-goods Merchants and Importers.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

COTTON AND YARN MERCHANTS

Amersey & Sons.—Feltham House, Ballard Estate.
Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Associated Services, Ltd.—Alli Chambers, Medows Street, Fort.
Bhaidas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Bhaidas Mawji & Co., Ltd.—Neptune Building, 166, Hornby Road, Fort.
Bombay Co., Ltd.—9, Wallace Street, Fort.
Bombay Import & Export Agency.—Cama House, opp. Lloyds Bank, Hornby Road, Fort.
Breul & Co.—Taj Building, Hornby Road, Fort.
Champaklal R. Sheth.—Khetwadi 9th Lane, Bombay 4.
Chimanlal Mohanlal & Co.—Hanuman Building, Tamba Kanta, Pydhownie.
Chinubhai Madhowlal & Co.—Noble Chambers, Parsi Bazar Street, Fort.
Drennan & Co.—Neville House, Currimbhoy Road, Ballard Estate.
Finlay, James, & Co., Ltd.—Mahatma Gandhi Road, Fort.
Gill & Co.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Goculdass Dossa & Co.—55, Apollo Street, Fort.
Greaves Cotton Co., Ltd.—1, Forbes Street, Fort.
Haji Jiva Haji Khamisa & Co.—119-139, Tamba Kanta, Mumbadevi Road.
Hansraj Harji & Sons.—118, Kansara Chawl.
Hirji Nensey & Co.—Horniman Circle, Fort.
Jassawalla, R. M., & Co.—105, Apollo Street, Fort.
Jaybharat Yarn Trading Co.—77, Tamba Kanta, Bombay 3.
Kanji Shivji & Co.—Cotton Exchange, Sewree.
Khimji Visram & Sons.—Kitab Mahal, Hornby Road, Fort.
Kilachand Devchand & Co., Ltd.—45/47, Apollo Street, Fort.
Kishinchand Chellaram.—Guzdar House, Dhobi Talao.
Kooverjee V. Curumsey & Co.—Lentin Chambers, Dalal Street, Fort.
KOTAK & CO.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams: "KOTAKANDCO." Phone Nos. 263331 (3 Lines).
Lalji Ramji & Co.—17, Chinch Bunder, Mandvi.
Louis Dreyfus & Co.—Nicol Road, Ballard Estate.
Madhavdas Amersey & Co.—Oriental Building, Mahatma Gandhi Road.
Motabhoy Gulabdas & Co.—Mubarak Manzil, 104, Apollo Street, Fort.
Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road.
Patel Brothers.—Elphinstone Building, 10, Churchgate Street, Fort.
Patel Cotton Co., Ltd., The.—New Cotton Depot, Sewree.
Patuck Sons & Co.—Ismail Building, Hornby Road, Fort.
Pavri Sons & Co.—95-97, Bazargate Street, Fort.
Raghavji Kanji & Co.—116, New Chinch Bunder Road.
Ralli Brothers, Ltd.—21, Ravelin Street, Fort.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.
Ratilal Dayabhai Shah.—Tambakanta, Pydhownie, Bombay 3.
Raw Cotton Co., Ltd.—111, Mahatma Gandhi Road, Fort, Bombay.
Robertson & Son, Edward T.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Sankalchand G. Shah & Co.—Hanuman Building, Tamba Kanta.
Sapt Textile Products (India) Ltd.—J. K. Building, Dougall Road, Ballard Estate.
Sarabhai & Sons.—Prospect Chambers, Hornby Road, Fort.
Sarupchand Prithiraj & Co.—401, Cotton Exchange Building, Kalbadevi Road.
Sassoon, David & Co., Ltd.—Maneckji Wadia Building, 125, Mahatma Gandhi Road, Fort
Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Sewaram Girdharilal.—354, Kalbadevi Road.
Shewakram & Sons, K.—Next to Kalbadevi Post Office, P. O. Box 2344, Bombay.
Spinner, E., & Co.—8, Tamarind Lane, Fort.
Suleman & Co., Ltd.—27, Kolsa Mohalla.
Todi & Co.—41, Hamam Street, Fort.
Vadilal Dolatram & Sons.—14, Hanuman Building, Tamba Kanta, Pydhownie.
Virji Ladha & Co.—19, Chinch Bunder.

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Bajaj Brothers Ltd.—Round Building, Kalbadevi Road, Bombay 2.
Brady, W. H. & Co., Ltd.—Churchgate Street, Fort.
Chunilal & Co.—100, Old Hanuman Lane, Bombay 2. Grams: "COTONWASTE."
Hardacre & Co., J.—Himalaya House, Paltan Road Bombay 1.
Jashwantlal Maneklal & Co.—40, Churchgate Street, Fort.
Jehangir J. M. Poonjiajee.—Sir Phirozshah Mehta Road, Fort.
Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Kotecha & Co.—Commissariat Building, 231, Hornby Road, Fort.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
SAPT TEXTILE PRODUCTS (INDIA) PRIVATE LTD.—Sapt Building, Graham Road, Ballard Estate.
Veljl Kalidas & Sons.—90-92, Khand Bazar, Mandvi, Bombay 3.
Windmere (India) Ltd.—Sir Vithaldas Chambers, 16, Apollo Street, Bombay.

CROCKERY

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.
Bawa Crockeries Ltd.—89, Mohamedali Road, Bombay.
Bombay Potteries & Tile Ltd.—Pipe Road, Kurla, Bombay.
CRYSTAL HOUSE.—99C-D, Mohamedali Road, Bombay 3. Dealers in Glassware, Crockery, Enamelware, Kitchenware, Cutlery, Plasticware, Thermos Flask, etc.
Currimbhoy L., & Co.—156, Chakla Street, Bombay 3.
DOSSA, S. R. & CO.—186, Sheriff Devji Street (Chakla), Bombay 3. Phones: 39248 (Office); 24591 (Residence).
JAYANTILAL KASTURCHAND & CO.—102, Bhandari Street, Chakla, Bombay 3. Grams: "GLEANAPOT." Phone: 27947.
Kanthawala, N., & Co.—77, Medows Street, Fort.
Matani Bros.—84, Mahomedally Road, Bombay 3.
Moosa Omer & Co.—Junction of Mahomedally Road & Carnac Road.
Saify Glass Palace.—Ebrahim Building, Mohamedally Road.
Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.
Shivji, K. S., & Co.—144/146, Chakla Street, Bombay 3.
United Glass Works.—111, Bhandari Chakla Street, Bombay 3.

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BOMBAY MACHINE TOOLS & HARDWARE CORP.—103, Narayan Dhuru Street, Bombay 3. Phone: 22702. Grams: "WIREGRIP." Importers & Stockists of Crucibles, Engineering Small Tools, Electrodes and Electric Portable Drills, Grinders, etc.
BOMBAY TOOLS & HARDWARE MART.—123, Narayan Dhuru Street, Bombay 3. Grams: "BOTAPS." Importers and Stockists of "MORGAN'S" English and German Crucibles.
Choksi Brothers.—315, Sandhurst Road, Bombay 4.
INDIAN CRUCIBLE CO., THE—Manufacturers of highly Refractory Crucibles. Head Office: A/9/252, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 71538. Grams: "RUSTPROOF." Factory at 4, Ghodbunder Road, Malad. Phone: 84135.

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K. B. GHANDHI & CO.—277, Sardar Vallabhbhai Patel Road, Bombay 4. Phone : 70803. Sole Agents in India for Famous "GLORIA" Brand German made Crucibles used in Pit & Tilting Furnaces. Largest Stockists of the Morgan's and Carborundum Crucibles, Foundry Plumbago, Polishing goods and all kinds of Heavy Chemicals, etc.

KIRTILAL & COMPANY.—31, Bibijan Street (Barbhai Mohalla), Bombay 3. Phone : 23572. Grams : "PIPE-WRENCH." Direct Importers & Stockists of Morgan Super Crucibles.

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P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone : 39100. Grams : "ETERNAL."

THE LAXMI TRADING CO.—274, Sardar Vallabhbhai Patel Road, Bombay 4. Phone : 70803. Grams : "HANSMOTI."

CURIO DEALERS

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.
Carpets Palace.—Opp. Tajmahal Hotel, Mereweather Road, Bombay 1.
Chinese Museum.—Radio House, Apollo Pier Road, Fort.

"DECORA" RAVAL TILES & MARBLE PRIVATE LTD.—Edena, 97-A, Queen's Road. Phone : 242310.

Eclipse Jewellery & Curio.—Next to Regal Cinema, Museum.
Grand Bazar.—25, Colaba Causeway, Bombay 1.

HINDUSTAN HANDICRAFTS.—Shreenivas House, Waudby Road, Fort, Bombay 1. Phone : 263638. Grams : "SHUBHECHHA." Manufacturers & Exporters of Presentation Articles of Ivory, Sandalwood, Marble & Brass, Rosewood & Horn.

Hotchand Motumal.—331, Hornby Road, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone : 20726. Grams : "INDARTMUSE."

Indian Arts Emporium.—Bombay Mutual Annexe, 2-C, Cawasji Patel Street, P.O. Box No. 1716, Fort, Bombay.
Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.
Maganlal N. Maniar.—63, 3rd Bholwada, Bombay 2.
M. Dialdas & Sons.—190, Princess Street.
Pursram, U. N.—Standard Building, 336, Hornby Road, Fort.
Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.
Sharda Stores.—104-106, Swadeshi Market, Kalbadevi Road.

CUTLERY MFRS. & MERCHANTS

Abdulkayum Esufally & Bros.—193, Abdul Rehman Street.
Akbarally Ebrahimji.—38/C, Cowasji Patel Street, Fort, Bombay 1.
Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.
Alladin Dhanji.—Vithal Sayana Building, Lohar Chawl.
Bawa Crockeries, Ltd.—89, Mohamedali Road, Bombay 3.

CRYSTAL HOUSE.—99C/D, Mohamedali Road, Bombay 3. Dealers in Glassware, Crockery, Enamelware, Kitchenware, Cutlery, Plastic ware, Thermos Flask, etc.

Dossa, S. R., & Co.—186, Sheriff Devji Street (Chakla), Bombay 3. Phone : 39248.

EBRAHIM ALLIBHOY & SONS (Estd. 1934).—Importers and Exporters, 260-64, Abdul Rehman Street, Bombay 3. Phone : 38863.

Esmail, M.—Esmail Building, Sutar Chawl, Bombay 2.
Esmail Tarmohamed & Bros.—222, Cutlery Bazar.
Esoofally Rahimbhoy.—205, Cutlery Bazar, Bombay 3.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Haji Ahmed Mohamed & Co.—219, Cutlery Bazar.
Hamir Jamal & Co.—Showroom : 14/16, Lohar Chawl, Bombay 2.
Jafferjee Kamrudin.—91-93, Bhusari Moholla, Bombay 3.
Jhaveri Bros. & Co.—345-49, Abdul Rehman Street.
Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

M. JAGJIVANDAS & CO., LTD.—Sarvodaya Nagar, Panjrapole Road, Bombay 4. Grams : "JIWANJAG." Manufacturers of Stainless Steel Spoonsware & Cutlery.

Mahomadally Esoofbhoy Kaderbhoy Motiwalla.—88, Sarang Street, Bhusari Mohalla, Bombay 3.
Manseta, N., & Bros.—165, Lohar Chawl, Fort.
Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
Matani Bros.—84, Mohamedali Road, Bombay 3.
Mohamedally Abdullaly.—75-77, Bhusari Moholla, Bombay 3.
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New India General Stores.—33, Medows Street, Fort, Bombay.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone : 73880. Grams : "PEARLWORKS." Manufacturers of "PEARL" Brand Stainless Steel Spoons and other Cutlery items.

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Sanghani & Co.—178-80, Abdul Rehman Street.
S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.
Shaikh & Co.—94, Ali Umar Street, Bombay 3.
Shivji, K. S., & Co.—144-46, Sheriff Devji Street, Bombay 3.

CYCLES AND CYCLE ACCESSORIES MFRS., DEALERS & IMPORTERS

A. M. Daisy & Co.—Princess Street, Bombay 2.
Advance Trading Corporation.—Hathi Building, Bhangwadi, Kalbadevi Road, Bombay 2.
Agarwal Traders.—Vasantwadi, Bombay 2.
Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Allied Industries Producers.—Orient Hotel Building, opp. Crawford Market, Fort.
Ashok Overseas Trading Co. Ltd.—543, Kalbadevi Road, Bombay 2.
Bharat Commercial Co. of Lahore.—103/4, Medows Street, Bombay 1.
Bharat Cycle Co.—Bharucha Bldg., Princess Street, Bombay 2.
Bharat Cycle Importing Co.—Kalbadevi Road, Bombay 2.
Bharat Motor Co.—298, Vithalbhai Patel Road, Bombay.
Bombay & Calcutta Cycle Co.—413-G, Vasantwadi, Kalbadevi Road, Bombay 2.
Bombay Cycle & Motor Co.—451, Kalbadevi Road, Bombay 2.
Bombay Cycle Trading Co.—385, Kalbadevi Road, Bombay 2.
Bombay Electric & Cycle Co.—Bombay 2.
Bombay Traders.—423, Kalbadevi Road, Bombay 2.

B. PAREKH & CO.—H.O. : 383, Kalbadevi Road, Bombay, Phone : 34563. Branch : 8A, Peerbhoy Building, Princess Street, Bombay. Phone : 20608. Direct Importers and Wholesale Dealers in Cycles, Cycle Accessories and Surgical goods. Sole Distributors in India for :—Continental Gummi Werke, Hanover, and Nova Pressameters and Stethoscopes, Germany. Grams : "GUMMIWORKS."

Capital Cycle & Motor Co.—445-51, Kalbadevi Road, Bombay 2.
C. Raman & Co.—181, Princess Street, Bombay 2.
Cycle Trading Co.—425, Kalbadevi Road, Bombay 2.
Delhi Cycle Trading Co.—Bharoocha Building, Kalbadevi Road, Bombay 2.
Dupattwala Bros.—Bhangwadi, Kalbadevi Road, Bombay 2.
Foreign Products Distributing Co.—491, Sandhurst Road, Bombay.

GIRILAL & CO.—38, Dahanukar Bldg., 480, Kalbadevi Road, Bombay 2. Phone : 20931. Grams : "ESTABLISH." Sole Distributors for Maharashtra and Gujarat and M.P. of Hindustan Vehicles Ltd., Patna. Manufacturers of New Hudson & Sunbeam Cycles in Technical Collaboration with Birmingham Small Arms Co., Birmingham; Branch: 179, Princess Street, Bombay 2. Also Sole Distributors for Gujarat & Maharashtra for Hindustan Chains Private Ltd., United Engineering Industries, Ghaziabad.

Gujrat Cycle & Motor Co.—Bhangwadi, Kalbadevi Road, Bombay 2.

GUPTA CYCLE COMPANY.—172, Bharucha Building, Princess Street, Bombay 2. Phone : 27788. Grams : "GUPTACYCLE."

HAMILTON INDUSTRY PRIVATE LTD.—Tulsi Pipe Road, Off Haines Road (near Famous Cine Laboratory), Bombay 13. Grams : "HARDIYOG." Manufacturers of Cycle Parts, Frames, Forks, Mudguards, Chain Wheels, Crank Springs, Screw Drivers and "Hamilton" Frame Locks & Pedals and Collapsible Gates, etc.

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Harmachinder Singh & Bros.—Kharek Bazar, Bombay.

HIND CYCLES LTD.—(Secretaries & Treasurers : Messrs. Birla Bros. Private Ltd.), 250, Worli, Bombay 18. Phones : 42091 & 42092. Grams : "CYCLEHIND." Manufacturers of Bicycles & Spare Parts.

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Imperial Cycle & Motor Co.—Kalbadevi Road, Bombay 2.
Indo Cycle Co.—Opp. Bhangwadi, 445, Kalbadevi Road, Bombay 2.

INDUSTRIAL DISTRIBUTORS.—10, Hanuman Bldg., Tambakanta, Bombay 3. Phone : 39973. Dealers and Importers of all kinds of Yarns, Cycles & Cycle Accessories, Motor Parts & Lubricating Oils.

JANKIDAS & CO.—192, Princess Street, Bombay 2. Phone : 34436. Grams : "WHEELBIKE." New Delhi Office : 23/F, Connaught Place, New Delhi. Phone : 42104; The Mall, Simla. Phone : 2385.

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Kantilal & Company.—170, Princess Street, Bharucha Building, Bombay No. 2.
Kathiawar Cycle & Motor Co.—527, Kalbadevi Road, Bombay 2.

K. B. MODI & CO.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone : 39038. Grams : "CYCLEBELL". Importers of cycles, motor cycles & Accessories. H. O. Ahmedabad.

Kumar Cycle Works.—Bombay 2.

KUSUMGAR & COMPANY PRIVATE LTD., V. B.—Kalbadevi Road, P.O. Box No. 2071, Bombay 2. Direct Importers of all types of Cycles and Cycle Accessories. Phone : 22904. Grams : "PICKERFIRM."

Kusumgar (Overseas) Private Ltd.—503, Kalbadevi Road, Bombay 2.

LUMALA INDUSTRIES PRIVATE LTD.—344-46, Kalbadevi Road, Bombay 2. Managing Director : K. C. Patel. Phone : 29921. Grams : "MAGNITUDE." Manufacturers of "LION" Brand Steel Balls & Spokes for Cycles & Rickshaws.

Mahendrakumar Ltd.—157/61, Princess Street, Bombay 2.

METAGRAPHS (INDIA).—164, Tulsi Pipe Road, Charing Cross Surgical Compound, Matunga, Bombay 16. Phone : 65453. Grams : "METAGRAPHS." Manufacturers of Name Plates, Aluminium Embossed Anodised Labels, School Badges, Radio & Amplifier Dials, Tin, Celluloid and Glass Printing Advt. Novelties, etc.

METRO CYCLE CO.—421, Kalbadevi Road, Bombay 2. Phone Nos. 28389 & 28340. Grams : "METROCYCLE." Dealers in Cycles, Parts, Hardware, M. V. Parts, etc.

Modern Cycle Stores.—435, Kalbadevi Road, Bombay 2.
Mohan & Bros., G.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.
Mohanlal Motilal—Yusuf Building, Hornby Road, Bombay 1.
Narendraroy & Company.—453, Kalbadevi Road, Bombay 2.
National Cycle Agency.—213, Anant Building, Princess Street, Bombay 2.
National Electric Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.
National Manufacturing Co.—105, Bazargate Street, Fort.
National Traders.—345, Kalbadevi Road, Bombay 2.

NEW HAVEN STEEL BALL CORPORATION PRIVATE LTD.—Nanjee Building, 17-B, Horniman Circle, Bombay 1. Phone : 255346. Grams : "GULDASTA". Manufacturers of Automobile Parts, Bicycle Parts, Socket, Headcap Screws, Bolts, Nuts, Steel Balls, etc.

NEW POPULAR CYCLE MART.—367, Kalbadevi Road, Bombay 2. Phone : 23697. Grams : "NEWCYCLE." Direct Importers of Cycles & Accessories.

Nishat Trading Co.—461, Sandhurst Road, Bombay.
Notandas & Sons.—62, First Marine Street, Bombay.
Oriental Import Export Co.—441, Kalbadevi Road, Bombay 2.
Popular Cycle Co.—415, Kalbadevi Road, Bombay 2.
Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort, Bombay.
Preetam Cycle Importing Co.—82/84, Bazargate Street, Bombay 1.
Premier Cycle Co.—399, Kalbadevi Road, Bombay 2.
Primera Corporation.—207, Sir Vithaldas Street, Fort.
P. R. Patel & Co. Ltd.—Merwan Building, Sir P. M. Road, Bombay 1.
Punjab Motor Co.—342-48, Vithalbhai Patel Road, Bombay.
Ranjan Cycle Importing Co.—445, Kalbadevi Road, Bombay 2.
Rapid Cycle & Motor Co., Ltd.—Kalbadevi Road, Bombay 2.
Royal Cycle & Motor Co.—Whiteaway Laidlaw Bldg., Hornby Road, Bombay 1.
Saurashtra Cycle Co.—Bombay 2.
Shah Cycle Importing Co.—Vasantwadi, Kalbadevi Road, Bombay 2.

SHAH INDUSTRIES.—8, Ebrahim Mansion, 366/68, Kalbadevi Road, Bombay 2. Phone : 39038. Grams : "CYCLEBELL." Manufacturers of 'DIMOND' brand Cycles and Rickshaws, Spokes, Nipples, Washers and Steel Balls.

Shah Trading Agencies.—19, Hamam Street, Fort.
Shah Trading Co. Ltd.—157-61, Princess Street, Bombay 2.
Shamlal Ramnath.—8, Punjab Great Hotel, Bombay.
Sorabji D. Daruwalla.—Round Building, Kalbadevi Road. Phone : 30348.
Standard Cycle Co.—429, Kalbadevi Road, Bombay 2.
Super Cycle Importing Co.—432-34, Kalbadevi Road, Bombay 2.
S. S. Corporation.—Kerawala Bldg., Lohar Chawl, Bombay 2.

SUPER CYCLE IMPORTING CO., THE.—432-34, Kalbadevi Road, Post Box 2214, Bombay 2. Phone : 22864. Grams : "SUPERCYCLE." Dealers in Raleigh, Robinhood, Hercules, Phillips and other make Cycles & Accessories.

Swastik Cycle Mart.—Ground Floor, Chhotalal Bhuvan, Kalbadevi Road, Bombay 2.
Union Cycle Co.—Kalbadevi Road, Bombay 2.
Upper India Cycle & Motor Co.—New Hanuman Lane, Bombay 2.
Vadilal R. Shah.—Lalji Mansing Bldg., Lohar Chawl, Bombay 2.
Ved Prakash & Co.—3, Bell Lane, Fort, Bombay.
Victory Cycle Trading Co. Ltd.—503, Kalbadevi Road, Bombay 2.
V. S. Brothers & Co. Ltd.—Bhangwadi, Kalbadevi Road, Bombay 2.
Vohra & Pahwa, Bazargate Street, Bombay 1.

CYCLES & MOTOR CYCLES

GLOBE STORES CO.—Sitaram Building, Dadabhoy Naoroji Road, Bombay 1 (Near Crawford Market). Phone : 262502. Grams : "GLOSTOCO." Variety of Scooter Accessories always available.

DAIRY COMPANIES

Baker's Dairy Farm.—Rusikesh Bhuvan, Gell Street, Jacob Circle.
Champion Dairy Co. (Estd. 1903).—New Petit Mansion, Sleater Road, Grant Road, Bombay 7.
Clifton Dairy.—288, Frere Road, Fort, Bombay 1.
Empress of India Dairy Co.—180, Lamington Road.
Hiscocks, E., & Co.—"Win-Villa," 9, Clare Road, Byculla.
Indian Express Dairy.—49, Kapur Mansion, Hughes Road.
Infants & Public Milk Supply Co.—11, Calicut Street, Ballard Pier
Palmer, A., & Co.—C-123, Cumballa Hill.
Parisian Dairy Co.—1, Tamarind Lane, Fort.

PARSI DAIRY FARM.—Head Office : 261/63, Princess Street, Bombay 2. Phone: 23634. Branches : 1. Lalbaug; 2. Poibavdi; 3. Dadar. Dealers & Mfrs., Milk, Dairy Products & Sweetmeats.

Rezashah Dairy Farm, The.—Dubash Building, Sleater Road, Grant Road.
Royal Hygiene Dairy Farm.—Gool Mansion, Wadia Street, Tardeo.
Sarosh Dairy Farm.—Chandavarkar Road, Borivli.
Shapur Dairy Farm.—Mount Road, Opp. P.O., Mazagaon.
Victor Supply Co.—Taher Mansion, Nepean Sea Road.
Wiltshire Dairy Farm.—"Win-Villa," 23, Clare Road, Byculla.

DAIRY MACHINERY

Batliboi & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 455151-55. Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate : Bangalore.
Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort. Phone : 27304.

DAMP COURSING

GLADSTONE LYALL & CO., LTD.—21, Lansdowne Road, Apollo Bunder, Bombay 7. Grams : "GLADSWILL." Bombay Manager : Cmdr. J. B. Simmons. Regd. Office : 4, Fairlie Place, Calcutta.

DEAF APPLIANCES

General Radio & Appliances Ltd.—Opera House, Bombay.
Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.
Westrex Co., India.—Metro House, Mahatma Gandhi Road, Bombay 1.

DEBT COLLECTORS

INDO-FOREIGN TRADE SERVICE.—505, Kalbadevi Road, 2nd Floor, opp. Edward Theatre, Bombay 2. Phone : 22848.

DECORATORS (INTERIOR)

Amzel Private Ltd.—Lotus House, Marine Lines, Bombay 1.

BHAWSAR HOME FURNISHERS & DECORATORS.—66, Karwar Street, Mint Road, near G.P.O., Fort, Bombay. Factory : Famous Cine Building, Haines Road, Mahalaxmi, Bombay 11. Phone : 263771.

COLOUR SCHEME.—Painters & Decorators, 18, Commercial Chambers, Masjid Bunder Road, Bombay 3. Specialists in Oil Painting, Distempering, White Washing, Spray Painting, etc. Phone : 39468.

Cooper & Co.—53, Abdul Rehman Street.

DAVAR, N., & CO.—Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 26-1880. Interior Decorators and Painting Contractors. Showroom : Hampton Court, Wodehouse Road, Colaba, Bombay 5.

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INTERFURN.—Interior Decorators and Furniture Manufacturers, 361, Dr. Dadabhoi Naoroji Road, Fort, Bombay 1. Phone : 253222.

Jayanand Khira & Co., Ltd.—Kothare Building, Sandhurst Bridge.
Kalabhai Karson & Sons.—256, Sandhurst Road.
Kamdar Ltd.—Industrial Building, Opp. Churchgate Station, Fort.

KHANNA & COMPANY, S.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay. Grams : "CRETECO," Bombay. Phone : 251162. Specialist in Coloured Cement Rendering, Artificial Malad Stone facing, Terrazzo Flooring & Victorite plastering.

MANCHERSHA, S. & CO.—Senior Certified Painting & Decorating Contractors of Messrs. Jenson & Nicholson (India) Ltd., Navsari Chambers, Outram Road, Fort, Bombay 1. Phone : 262373.

MARKER, S. D., & CO. PRIVATE LTD.—(Estd. 1901), 381, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone : 253236. Grams : "MARKERCOY". Interior Decorators & Painting Contractors.

McKenzies, Ltd.—Interior Decorators, Sewri.

MHATRE PATIL & CO., B.—Bombay Mutual Building, Corner of Dr. Dadabhoy Naoroji Road and Sir Phirozshah Mehta Road, Fort. Phone : 263570.

Mistry Ebrahim Suleman & Co.—116, Esmail Curtay Road, Bombay 3.
Modern Furniture Works.—141, 3rd Cross Road, Shivaji Park Road, Bombay 28.
New Era Paint Works.—Opp. Byculla Station, Byculla.

NOORMOHAMEDS.—House of Fine Furniture—(Estd. 1885). 109/A-111/B, Mohamedally Road, Bombay 3. Phone: 38324. Grams: "NOORDECOR." Furnishers—Cabinet Makers & Interior Decorators, Importers & Exporters.

Premier Furnishing & Decorating Ltd.—7, Brabourne Stadium, Churchgate Street Extension, Fort.
Raja Furniture Mart.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.
Roberts, John & Co., Ltd.—Jorawar Bhuwan, 93/B, Queen's Road.
S. More & Co. (Estd. 1929).—34/38, Hamam Street, Fort, Bombay 1. Phone : 252019. Gram : "PACKWELL." Decorators, Painting Contractors, Metal Letters and Plaques, Architectural Models, Sculptural Murals and Exhibition Stalls.
Simplex Art Floorings Ltd.—"La-Citadelle," 32, Queen's Road.

WAKEFIELD PAINTS PRIVATE LIMITED.—"Dhan-Nur," 15/16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams : "WAKEPAINT". Phone : 264061.

DECORATORS & CONTRACTORS (MANDAP, FURNITURE, CARPETS, ETC.)

I. H. NENSEY & CO.—143, Chakla Street, Bombay 3. Phone: 20349 (Office), Furnishers and Mandap Decorators. Mattresses and Pillows also available on hire.

PAVRI & SONS, FRAMROZ HORMUSJI.—Pavri House, 20, Gunbow Street, Fort, Bombay. Phones : 264158 & 262539. Government & Municipal Contractors, Shamianas, Mandap, Stands, Exhibitions, Electric Light & Fans, Suppliers or hire of glassware, Furniture, Crockery & Decorations of all Sorts.

DENTAL GOODS

ASSOCIATED DENTAL & MEDICAL SUPPLY CO.—Yusuf Bldg., Room No. 26, Mahatma Gandhi Road, Opp. Flora Fountain, Fort, Bombay. Wholesale & Retail dealers in Dental and Medical goods. Manufacturers of "PRESTIGE" Brand Dental Equipment, i.e. Chairs, Units, Operating Stools, Pedestal Spittoons, etc. Phone : 251495. Grams : "SODAWATER."

BHARAT DENTAL SUPPLY CO.—Standard Building, 346, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone : 252775. Direct Importers of Dental equipment, Artificial Teeth, Plaster of Paris, etc.

Dental Corporation of India.—121, Esplanade Road, Fort.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INTERNATIONAL DENTAL CO. (Formerly Ahura Traders).—Davar House, 199, Hornby Road, Bombay 1. Direct Importers of Dental Goods, Dental Chairs & other items of Equipment. Artificial Teeth, Plaster of Paris, etc. Phone : 262829. Grams : "ACRYLIC."

J. L. Morrison Son & Jones (India) Ltd.—Contractor Bldg., Nicol Road, Ballard Estate, Bombay 1.

KOTHARI TRADING CORPORATION.—Evans Fraser Annexe, 38, Police Court Lane, Bombay 1. Phone : 265174. Wholesale and Retail Distributors for every kind of Dental Goods.

Mazda Dental Depot.—Navsari Chambers, Outram Road, opp. Lloyds Bank, Fort.

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road, Dadar, Bombay 14. Phone : 61755. Grams : "BEDLOCKER", Bombay-Dadar. Makers of Hydraulic Dental Chairs, Field Dental Chairs, etc., etc.

PATEL & SONS, DR. K.—Eruchshaw Building, 249, Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 263762. Direct Importers of Dental Equipment & Sundries.

Rawal Shankerlal & Co.—Esplanade High School Building, 1st Floor, 160, Hornby Road, Fort, Bombay 1.

TODI & CO.—Vishwa Mahal, C Road, Backbay Reclamation, Bombay 1. Phone : 241654. Grams : "OFFER." Manufacturers of "DAWN" Nylon Engine Cord for Dental Engines.

DIAMOND DRESSING TOOLS

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 23193.

'JKE' Brand

DIAMOND DRESSING TOOLS

For Dressing Grinding Wheels

M. SOMNATH & COMPANY

94, Lohar Chawl, Bombay-2

Phone : 20375

DIAMOND, PRECIOUS STONE AND PEARL MERCHANTS

ABDUL KAYUM EBRAHIM & CO. (Estd. 1902).—Manufacturing Jewellers, Diamonds & Precious Stones Dealers, Mama Chambers, 93, Cumballa Hill Road, Bombay 26. Phone : 76962.

Anandlal Becharlal & Co.—177-119, Sheik Memon Street.
Bechardas Harichand & Co.—Poonamchand House, Kharakuva, Marwari Bazar.
Bhogilal Leherchand.—134-136, Zaveri Bazar, Bombay 2.
Bhojwani Brothers.—24, Munira Lodge, Colaba Causeway, Bombay 1.
Chimanlal Manchand & Co.—Queen's Road, Bombay 4.

CHIMANLAL POPATLAL MINAWALLA.—Art Jewellers. Dealers in Gold, Enamel and Diamond Ornaments, 255, Zaveri Bazar, Ghia Mansion, Bombay 2. Phone : 28352. Grams : "GOLDENAMEL."

CULTURE PEARLS DEALING CO.—Madrasi Building, 2nd Floor, 148, Mumbadevi Road, Bombay 2. Wholesale and Retail dealers in (Real) Culture Pearls, ornaments and other Jewels.

DAHYALAL MAKANJEE ZAVERI.—Precious Stones, Diamonds, Pearls and manufacturing Jewellers, 98, Sheikh Memon Street, Bombay 2. Phone : 23218. Grams : "JAYKUBER."

Dalchharam Nanchand & Co.—7, Dhanji Street.
Dhamanmal Isardas.—Mulji Sicca Building, China Baug, Vithalbhai Patel Road.
Fulchand Kasturchand.—163-165, Sheikh Memon Street.
Gazdar Ltd. (Jewellers).—Taj Mahal Hotel, Colaba.
Godedji Dosji & Co.—10, Dhanji Street.
Harilal Lalji & Co.—149, Sheikh Memon Street, Bombay 2.
Hemchand Mohanlal & Co.—Devki Bhuvan, Dhanji Street, Bombay 3.
Jhaveri Bros. & Co.—Medows Street, Fort.
Keshavlal Dalpatbhai Zaveri.—Mumbadevi, Zaveri Bazar, Bombay 2.
K. Wadia & Co.—324, Grant Road, Bombay 7.
Lallubhai Gulabchand Jhaveri.—149, Shroff Bazar.

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MAGANBHAI & LALLUBHAI.—184-186, Sheikh Memon Street, Bombay 2. Jewellers, Direct Importers and Exporters of Real and Cultured Pearls, Platinum, Precious Stones, Watches, Synthetic, Rough and Cut. Phone Nos. 23785 and 22217 (Res.). Grams: "MOTIBUTTON."

Mohamedali Zainal Alireza.—"D" Sitaram Building, Hornby Road.

Motilal Davabhai & Sons.—208, Walkeshwar Road.

Nagindas Virchand Jhaveri.—44-46, Dhanji Street, Bombay 3.

Narotamdas Bhau (Estd. 1864).—Lamington Road, Bombay.

New Pearls Trading Agency.—Patel Building, 76-A, Sheikh Memon Street, Zaveri Bazar.

Pearls, Gems & General Agency Ltd.—General Assurance Building, Hornby Road, Fort.

PITAMBERDASS MOHANLAL & SONS (ESTD. 1880).—4, Mandlik Road, Causeway, Opp. Colaba Police Station, Bombay 1. Phone: 212276. Grams: "GEMLEADER." Dealers in all kinds of cut & rough Precious & Semi-Precious Stones and manufacturing Jewellers.

Punemchand Ghasilal.—126-128, Javeri Bazar.

Pursram, R. V.—Manufacturing Jewellers, Diamond and Pearl Merchants, 62, Medows Street, Fort. Phone: 24645. Grams: "FAIRVALUE."

Ramesh Jewellers.—Jai Hind Building No. 3-A, Bhuleshwar, Bombay 2.

Roopchand Jewellers.—Sandhurst Bridge, Bombay 4.

Ruby & Co.—Cutch Castle, opp. Opera House.

Surajmal Lallubhai & Co.—359, Kalbadevi Road.

TRIBHOVANDAS BHIMJI ZAVERI (ESTD. 1851).—241-43, Sheikh Memon Street, Bombay 2. Phone: 23741. Grams: "BARGOLD." Leading House for Gold Ornaments, Diamonds and Silver Presentation Novelties.

DIESEL ENGINES & SPARES

AMAR DAXINI & SONS.—33, Tamarind Lane, Fort, Bombay 1. Phone: 254320. Grams: "EXIMTRADE." Direct Importers and Specialists in Spare Parts for "SENDLING," "PETTER," "LISTER," "PERKINS" & "MERCEDES" Engines. Stockists for all type of Oil Seals, Circlips, etc.

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phone: 88906. Grams: "RAJSPARES." Manufacturers of Diesel Engines Spare Parts & Fuel Injection Equipment.

Bapulal Ramchand & Co.—Crescent Chambers, Tamarind Lane, Fort, Bombay 1.

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone: 255374. Grams: "GODGRACE."

CRESCENT AGENCIES (PRIVATE) LTD.—Beaumon Chambers, 27/33, Medows Street, Fort, Bombay. Phone: 252558. Grams: "WELSEL," Bombay and Delhi.

DIESEL (INDIA).—105, Apollo Street, Fort, Bombay 1. Phone: 253597. Grams: "AUTOMIZER." Authorised Dealers for India of Ford Road Vehicular Diesel Engines and Spare Parts. Branches at: Ahmedabad, Coimbatore, Guntur, Bangalore, Mangalore & Madras.

EASTERN INDUSTRIAL SYNDICATE.—4, Seksaria Chambers, 135/37, Medows Street, Fort, Bombay 1. Phones: 251919 and 254768. Grams: "EXPLAIN."

ELVE BUSINESS CONTACTS CORPORATION.—Elve Chamber, Green Street (Off Bank St.), Fort, Bombay 1. Phones: 252088 & 254655. Grams: "ELBUSCON." Importers & Stockists of Spare Parts for all types of Diesel Engines—Industrial Marius Road Vehicular & Tractor Types. Distributors for Goetze Industrial Piston Rings.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE." Phone: 252940. Importers, Exporters, Commission Agents and Manufacturers Representatives.

Everest Engineering Corporation.—12, Hornby View Building, Gunbow Street, Fort, Bombay.

HONESTY TRADING CORPORATION.—Beaumon Chambers, Medows Street, Fort. Phones: 253534 and 252018. Grams: "HOTRACO." Sole Agents for Spare Parts for Hercules Diesel Engines fitted to Cletrae Tractors and other machineries.

JAGAT ENGINEERING CO.—11, Botawala Building, Horniman Circle, Bombay 1. Phones: 252601 and 254790. Grams: "JAGATENDU." For Reduction Gears, Acid Resisiting Pumps, Engines, Motors Chains, Factory Clocks, Chemical Engineering Equipment, etc.

JAYEMS BEECHEY CO. PRIVATE LTD.—Warden House, Sir Phirozshah Mehta Road, Bombay 1. Phone: 251564. Grams: "JAYEMS." Manufacturers of "Imperial," "Russel Newberry" and "Claey's" Diesel Engines.

K. SUCHDE BROTHERS.—82, Apollo Street, Fort, Bombay 1. Phone: 252712. Grams: "SUCHBROS". Spares for all well known Industrial Engines, Sales & Service for Fuel Injection Equipments, "BRYCE", "BOSCH", "CAV" & "FIL" "WELLWORTHY" Pistons, Rings & Liners for Industrial Engines & Tractors. Madras Branch: Industrial Engineers, 325, Thambuchetty Street. Phone: 4783.

Khimandas Jagumal & Sons.—12, Hornby View Building, Gunbow Street, Fort, Bombay 1.

Kumar Commercial Co.—Nadirshaw Sukhia Street, Opp. Cawasji Patel Street, G.P.O. Box No. 1525, Bombay 1.

MACHINERY SALES CORPORATION.—5, Tamarind, House, Tamarind Lane, Fort, Bombay 1. Grams: "ENGESPARES." Phone: 254480.

SHANTILAL C. MEHTA.—71/73, Apollo Street, Bombay 1. Phone: 254564. Grams: "NISHESH." Direct Importers & Stockists of Spare parts for all types, Diesel Engines, Generators, Compressors, Tractors and Earthmoving Machinery.

SUPREME INDUSTRIAL WORKS.—196/K, Gaiwadi, Girgaum, Bombay 4. Manufacturers of Gears and Specialists in all kinds of Worms and Worm Wheels.

UNITED ENGINEERS.—104, Apollo Street, Fort. Phone: 253204. Grams: "POWEREQUIP." Importers of Spare Parts for all types of popular Diesel Engines.

UNIVERSAL FILTRATION CO. PRIVATE LTD.—Office: 202, Commerce House (2nd Floor), Medows Street, Fort, Bombay 1. Phone: 254364. Works: Saki Vihar Road, Bombay 70. Manufacturers of Filtration Equipment.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

DIESEL ENGINES MANUFACTURERS, IMPORTERS & DEALERS

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 455451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.

BHARAT ELECTRIC AND ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone: 255374. Grams: "GODGRACE."

Blackwood Hodge India Private Ltd.—Lotus House, Marine Lines, Bombay.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone: 22782. Grams: "CORPBOMBER". Sole Agents for "ROOPA" Diesel Engines.

British Engineering Co.—103, Apollo Street, Fort.

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street (Gulalwadi), Bombay 4. Stockists of Flexible Metallic Tubes used for Perkins 6 and Leyland Comet, Diesel Engines and Oil Refineries. Phone: 72064. Grams: "RODS."

Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay 1.

DIESEL (INDIA).—105, Apollo Street, Fort, Bombay 1. Phone: 253597. Grams: "AUTOMIZER." Authorised dealers for India of Ford Diesel Engines and Spare Parts. Branches at: Ahmedabad, Coimbatore, Guntur, Bangalore, Mangalore & Madras.

Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreeniwas House, Wandby Road, Bombay. Phone: 26-2711 (8 lines). Offices at: Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Machinery and Trading Co.—Imperial Chambers, Wilson Road, Ballard Estate, Fort.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

H.T.C. DIESEL ENGINES PRIVATE LTD.—Beaumon Chambers, Medows Street, Fort. Phones: 253534 and 252018. Grams: "HOTRACO." Manufacturers of H.T.C. Diesel Engines.

HINDUSTAN ENGINEERING CO.—(Machinery Dept.), 10/12, Bake House Lane, Fort, Bombay 1. Phone: 253583. Grams: "VIDOOALL." Sole Agents "New Hindustan" Diesel Engines.

Indian Commercial Co., Ltd.—45-47, Apollo Street, Fort, Bombay.

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INDO UNIVERSAL ENGINEERING CO., PRIVATE LTD.—"Shantiniketan," 95-A, Marine Drive, Bombay 2. Post Box 1615, Bombay 1. Phones: 24-1235. Grams: "NEW-POWER." Agents: General Motors Detroit Diesel Industrial Engines, Diesel Marine Engines, Diesel Generating Sets, related spare Parts and Accessories—Enfield Marine & Industrial Diesel Engines & Spare Parts, Service after Sale.

Investa Machine Tools and Engineering Co., Ltd.—Ewart House, Bruce Street, Bombay 1.

Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay.

Khimandas Jagumal & Sons (Estd. 1910), Sind.—12, Hornby View Building, Gunbow Street, Fort.

Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Bombay 1.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Street, Fort.

MANOHAR BROTHERS.—4, Commerce House, Medows Street, Fort, Bombay. Phone: 254496. Grams: "LOCO-MOTIVE". Branch: 37, Errabalu Chetty Street, Madras. Phone: 4274.

Marshall Sons & Co. (India) Ltd.—Marshall Bldg., Ballard Road, Bombay 1.

Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

Power Machines Corporation.—31, Forbes Street, Fort, Bombay 1.

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

SINGH & SINGH.—Victoria Mills Estate, Gamdevi, Bombay 7. Phone: 75552. Grams: "BAKINGCO." Manufacturers of Cylinders, Liners and Spares for Cars and Diesel Engines. Specialists in Crankshaft grinding. Branch at Shivaji Nagar, Poona 5. Phone: 7597.

Standard Spares & Machinery Co.—105, Apollo Street, Fort, Bombay.

William Jacks & Co. Ltd.—Hamilton House, Ballard Estate, Bombay 1.

DIPENTINE & PINE OIL

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&
PINE OIL
★

For various Chemical Industries
Paints ★ Papers
Plastics ★ Perfumery
Printing Ink ★
Varnishes ★ Textiles
Soap ★ Ores
Disinfectants.

Manufactured under 'NRDC' Patent By :
PRABHAT GENERAL AGENCIES
Pioneers in Rosin, Turpentine, Pine Oil, Rosin Oil, Dipentine, Pine Tar.
195, Kalbadevi Road, Bombay 2.
Phone : 20359. Gram : "EXPANSION"

DISC SPRINGS

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "BISUKHI." Sole Agents for: Adolf Schnorr, West Germany.

DISINFECTANTS AND INSECTICIDES MFRS.

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.

Amritlal & Co. Private Ltd.—Sprott Road, Ballard Estate, Fort.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bharat Pulverising Mills Private Ltd.—38A, Sayani Road, Parel, Bombay 28.

BOMBAY CHEMICALS PRIVATE LTD.—Maneckji Wadia Bldg., 129, Mahatma Gandhi Road, Fort, Bombay. Manufacturers of Pyrethrum extracts, Pip Insecticides & Disinfectants.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd.—Ballard Estate, Bombay 1.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

Chlorogen Co.—Princess Street, Bombay 2.

Din Products Ltd.—9-A, Ash Lane, Off Medows Street, Fort, Bombay 1.

Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby Road, Fort.

Holmes Laboratory.—Upper Forjett Hill, Bombay 26.

I.C.I. (India) Private Ltd.—P. Box No. 310, Bombay 1.

Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.

Jones, J. D., & Co. (Bombay) Ltd.—Rustom Bldg., Veer Nariman Road, Bombay 1.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

PEARL PESTICIDES.—Sambava Chambers, Sir Phirozshah Mehta Road, Bombay 1. Phone: 263330. Grams: "IJJAT." Mfrs. of "MARWELL" (25). Household and Agricultural Pests Control Insecticides. Importers & Exporters: Insecticides—Fungicides—Fumigants—Rodenticides—Weed Killers.

Sardesai Brothers Private Ltd.,—14, Murzban Road, Fort, Bombay.

Spencer & Co., Ltd.—Bombay 26.

STANDARD CHEMICAL & PHARMACEUTICAL CO.—Atlas Mills, Reay Road, Bombay 10. Phone: 40642. Grams: "GERMOL." Manufacturers of disinfectant fluids, Household Insecticides and Pyrethrum Extract.

Standard-Vacuum Oil Co.—17, Jamshedji Tata Road, Bombay 1.

TATA-FISON PRIVATE LTD.—Registered Office: Bombay House, 24, Bruce Street, Fort, Bombay 1. Head Office: Union Bank Building, Dalal Street, Fort, Bombay 1. Grams: "TATFISON," Bombay. Phones: 259141/252313/252314/254968/254387/254144. Formulating, marketing & selling of pest control products.

VERMIT CO. (INDIA).—107, Wodehouse Road, Bombay 5. Phone No. 211723. Manufacturers and Importers of Insecticides, Disinfectants, Detergents and Polishes.

ZENITH VARNISH WORKS (ESTD. 1927).—Zenith House, Dhobi Street (Near Zakaria Masjid), Bombay 3. Phone: 30059. Grams: "ZENEKCIDE." Manufacturers of Disinfectants, French Polish, Paint Oil, Double Boiled Linseed Oil, Turpentine, Varnish, Acid & Insecticide & Paints, etc.

DOMESTIC ELECTRIC APPLIANCES

BAJAJ ELECTRICALS LTD. (Formerly Radio Lamp Works Ltd.)—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha & Gauhati.

DOMESTIC HARDWARE

SHANTILAL CHHAGANLAL & CO.—397, Sheikh Memon Street, Bombay 2. Phone: 28188. Grams: "VASURAS." Distributors for Bombay State and Madhya Pradesh: Domestic Hardware Products, *Viz.* Round and Rectangular Metal Trays, Coasters, Baskets, Table Mats etc. Manufactured by The Metal Box Co. of India Ltd.

DRAWING OFFICE & SURVEY REQUISITES

ALLIED DRAWING STORES.—29, Hornby Road, Bombay 1. Telegrams: "ARTCORNER." Phone: 261403.

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Norton Gregory Ltd. (London).—Office of the Representative in India and Pakistan. Commerce House, Currimbhoy Road, Ballard Estate, Bombay.

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BOMBAY INSULATED CABLES & WIRES CO.—10, Himalaya House, Gr. Floor, 79, Palton Road, Bombay 1. Phone: 261383. Armature Winding Wires and other Accessories for Winding purposes. V.I.R., C.T.S., Wires of Callender's, Paramite & Henley's etc. and jointing materials for underground Cable, its Accessories and underground Cables.

CHAMPAKLAL & COMPANY.—Shreeji Bhuvan, Lohar Chawl, Bombay 2. Phone: 38836. Grams: "ELECGOODS". Importers, Wholesale distributors and Government Contractors of Electric Wiring Materials, Winding Wires, Insulating Materials, Switchgear, etc.

Chandra Trading Co., P.—2, Bhajekar Street, Khetwadi Main Road, Bombay 4.

CHANDRODAYA ELECTRIC CO.—Bhangwadi, Kalbadevi Road, Bombay 2. Phone: 22579. Grams: "TRICYCLE." Dealers in Conduit Pipes & Fittings, Wires & Switchgears.

Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort.

Choksi Electric Co.—148, Princess Street, Bombay 3.

Chunilal Desai & Co.—Gool Mansion, Homji Street, Fort.

Chunilal Raichand.—Lalsingh Bldg., Lohar Chawl, Bombay 2.

C. K. Shah & Co.—35, Vithaldas Road, Lohar Chawl, Bombay 2.

DASWANI BROS.—53, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone: 34617. Gram: 'CIRCLINE'. Agents: "G.N.E." Electric Brass Holders, Bakelite Switches, "TPI" Plastic Wires, "RECORD" Tube Light Holders and D.B. Electric Accessories.

DAVE SHAH & CO.—13, Picket Cross Road, Lohar Chawl, Bombay 2. Phone: 22322. Grams: "ARRESTOR." Dealers in everything Electrical.

DAMANI VIDYUT KENDRA.—22, Kitchen Garden Lane, Lohar Chawl, Bombay 2. Phone: 29715. Grams: "SARVADHAR." Importers, Stockists & Wholesale dealers in Everything Electrical.

Diarvi Trading Co.—64, Old Custom House Road, Fort.

Doctor Shah & Co.—Swadeshi Mills Estate, Bombay 4.

EAST ASIATIC ELECTRIC CORPORATION.—Manhar Bldg., 187, Lohar Chawl, Bombay 2. Phones: 29348 and 29387. Grams: "TABLELIGHT." Everything in Electricals.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.

Electricals (India) Ltd.—24/B, Hamam Street, Fort, Bombay.

Empiria (India) Ltd.—Sai Bhuvan, Princess Street, Bombay 2.

EXPRESS TRADING CO.—2nd Floor, Cama Chambers, 23, Medows Street, Bombay 1.

G. K. Trading Co.—Nawab Bldg., Dr. D. Naoroji Road, Bombay 1.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort, Bombay 1.

Harda Electric Supply Co., Ltd.—17-19, Bastion Road, Fort.

Hassambhoy Jetha.—Opp. Byculla Goods Depot, Parel Road, Bombay 27.

H. T. Shah & Co.—Ahmed Building, Golpitha, Bombay 4.

Hindustan Electric & Radio Corporation.—Khambata Lane, Bombay 4.

INDIA ELECTRO TRADERS.—151, Princess Street, Bhabha Bldg., Post Box 2504, Bombay 2. Phone: 23338. Grams: "INDELECTRO."

INDO EUROPEAN TRADING AGENCIES.—Behramji Mansion, 4th Floor, Sir Phirozshah Mehta Road, Fort, Bombay. P.O. Box 1344. Phone: 262664. Grams: "MUSKETEERS." Specialists in Thermostats and heating Elements. Agents for Harsha Hot Plates.

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Jostle Trading Corporation Ltd.—Maskati Mahal, Lohar Chawl, Bombay 2.

Kilburn & Co., Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

Manseta, N., & Bros.—165, Lohar Chawl, Fort.

Metrogold Electric Stores.—60, Lohar Chawl, Bombay 2.

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Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Pavri, J. K.—Karim Chambers, Hamam Street, Fort.

Raichand & Sons.—5, Picket Cross Road.

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Sharda Electric & Radio Co. Ltd.—Lohar Chawl, Bombay 2. Phone: 20478. Grams: "TEAKCASING".

Shivlal Shah & Co.—Mahakali Chawl, Pydhownie, Bombay 3.

SHREE MAHAVIR ELECTRIC TRADING CO.—182, Zaveri Bazar, Bombay 2. Grams: "DIPOTSAVI." Telephone No. 38722. Direct Importers of Electric Accessories & Auto Wires, Lamps, Insulating Materials, Fluorescent Tube Starters & Condensers.

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Solar Electric Trading Co.—11, People's Bldg., Sir Phirozshah Mehta Road, Fort.

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T. M. Tyabji & Bros.—32-38, Hamam House, Hamam Street, Fort.

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Venus Electric Co.—Keravala Building, Mangaldas Road, Bombay 2.

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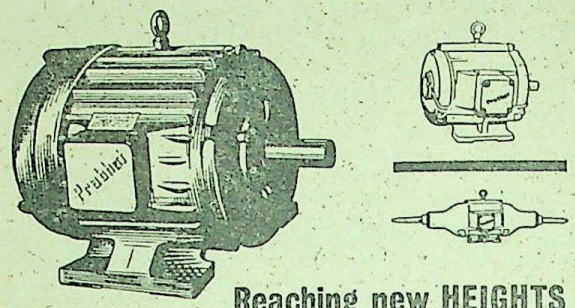

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Industrial & Agricultural Equipment Co.—29, Hamam Street, Fort, Bombay 1.

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Popular Electric Stores.—414, Harharwalla Building, Corner Golpitha, Bombay 4.

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Protos Engineering Co. Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

Radiant Engineering Co.—79, Medows Street, Bombay 1.

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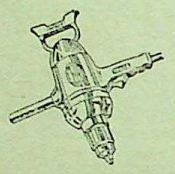

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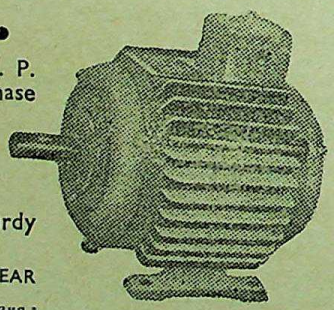

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Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BOMBAY ELECTRIC STORES.—Government, M.E.S., Municipal & P.W.D.'s Contractors. Stockists of all kinds of Electrical goods and mfrs. of 'Makehot' Geyser. 303, Lamington Road, Bombay 7. Phone : 71806.

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DIAMOND ELECTRIC CO.—18, Hamam Street, Fort. Phone : 25-1682. Grams : "LIGHTNING." Branch : 166/168, Kalbadevi Road, Opp. Cotton Exchange Building, Bombay 2.

ECONOMIC ELECTRIC CO. PRIVATE LTD., THE.—Kareem Manzil, Jail Road, Dongri, Bombay 9. Phone : 71137.

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Greaves Cotton & Crompton Parkinson Ltd.—1, Forbes Street, Fort.

Harda Electric Supply Co. Ltd.—17-19, Bastion Road, Fort, Bombay.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate.

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Trinity Electric Syndicate.—Princess Street, Bombay 2.

Vikram Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Western India Engineering Corpn. Ltd.—Cama Chambers, 23, Medows Street, Fort.

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AJIT INDUSTRIES.—35, Vithaldas Road, Lohar Chawl, Bombay 2. Phones: 34951 (Office); 86815 (Factory). Factory at 58, Andheri, Kurla Road, Bombay 41. Grams: "AJITCHOKE." Manufacturers of Ajit Chokes, Fluorescent Fixtures and Enamelled Wires.

ALLIANCE ELECTRIC MART.—67, Lohar Chawl, Bombay 2. Phone: 39229.

ALPHA ELECTRIC & ENGINEERING CO.—30, Calicut Street, Ballard Estate, Bombay. Phone: 26-3881. Specialists in re-winding and repairs of all types of Electrical Machinery and equipment. Manufacturers of Special Electrical Equipments.

Alladin Virjee Nathani.—Darukhana, Mazagaon, Bombay 10.

Anil Electricals.—95, Stock Exchange New Building, Apollo Street, Fort, Bombay 1.

Arvind Trading Co. Private Ltd.—105, Apollo Street, Fort.

ASEA ELECTRIC INDIA, PRIVATE LIMITED.—Yaffi Building, Goa Street, Bombay 1.

ASIATIC ELECTRIC CORPORATION.—Beauman Chambers, Ground Floor, Medows Street, Bombay 1. Phone: 251761. Grams: "DHOOTBIJI." Direct Importers & Stockists of Everything Electrical. Specialists for German make Flame & Explosion Proof Fittings, Various Types of Cartridges Fuses like DZ and TDZ, Motor Starters, O.C.B. and Wiring Materials.

Associated Electrical Industries (India), Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate.

Automatic Electric Devices Company, "Rectifier".—Naigaum Cross Road, Bombay 31.

Babcock & Wilcox, Ltd.—16, Queen's Road Estate, Bombay 1.

BAJAJ ELECTRICALS LTD. (FORMERLY RADIO LAMP WORKS LTD.).—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha and Gauhati.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

B. CHOWDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone: 26-3479. Grams: "BISUKHI." Manufacturers of "Merkuri" Brand High Pressure Mercury Vapour Lamps.

BIJLEE PRODUCTS (I) PRIVATE LTD. (Estd. 1935).—36, Lamington Road, North, Byculla, Bombay 8. Phone: 42619. Grams: "BIJBULB." Manufacturers of Electric Lamps.

BIPINKUMAR ELECTRIC CORPORATION.—14, Tavawalla Building, Lohar Chawl. Phone: 30684. Grams: "BIPINDEV." Sole Agents for: "TROPEX CABLES" VIR and CTS and Weather Proof and Finolex Plastic Cables and Philco Resin Cored Solder Wires.

BOMBAY ELECTRIC STORES.—Manufacturers of "Makehot" Hot Water Geyser. Electrical Engineers, Licensed Contractors and Direct Importers of every Fancy Electrical Goods. Stockists of Lamps, Shades, Fans, Wires, Accessories, Fluorescent Equipment, Thermos, etc., 303, Lamington Road, Bombay 7. Phone: 71806.

Bombay Industries, Mechanical & Electrical Engineers.—Kamer Bldg., Cawasji Patel Street, Fort, Bombay.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Vir Nariman Street, Fort.

British Electric Insulating Co.—33, Forbes Street, Fort.

British Engineering Co.—105, Apollo Street, Fort.

British Insulated Callender's Cable Ltd.—Esplanade House, Waudby Road, Fort.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Fort.

Cassinath M. Bomonjee Eduljee.—17/19, Bastion Road, Fort.

CENTRAL INDUSTRIES.—C/o Parekh Metal Works, 196-D, Gaiwadi, Girgaon, Bombay 4. Iron & Brass Founders, Electroplaters and Manufacturers of Electrical Accessories & Hardware.

Chicago Telephone & Radio Co., Ltd.—127, Mahatma Gandhi Road, Fort.

Chotani Electric & Engineering Co., Ltd.—57, Apollo Street, Fort, Bombay.

COSMIC TRADERS.—Yusuf Bldg., Veer Nariman Road, Bombay 1. Phone: 253224. Grams: "YANTRAYUG." Importers and Stockists of L.T. Oil Circuit Breakers, Switchgears, Oil immersed Air Break, Direct or Line Starters, Reversers, Star Delta Starters, Limit Switches, Underground Cables, Wires, etc.

Crompton Parkinson (Works), Ltd.—Haines Road, Worli, Bombay 18.

Damania Electrical & Engineering Works.—Joosub Peermohomed Building, 171, Lohar Street.

Dastur & Sons.—54, Forbes Street, Fort.

Diamond Electric Company.—18, Hamam Street, Fort.

Diarvi Trading Co.—64, Old Custom House Road, Fort.

Dinshaw, M. H., & Co.—Apollo Street, Fort, P.O. Box No. 448, Bombay. Phone: 25-1458. Grams: "AHOORAT."

Dodsal Limited.—Mafatlal House, Backbay Reclamation, Bombay 1.

Eastern Electric & Engineering Co.—Established 1909. 127, Mahatma Gandhi Road, Fort. Post Box 459, Bombay.

Eastern Radio & Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort, Bombay.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.

Electric and General Traders Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

Electro Mechanics, Ltd.—Mehta House, Apollo Street, Fort.

Ellora Art Industries.—Shreeji Bhuvan, Lohar Chawl, Bombay 2. Phone: 34270. Grams: "ELLORART".

English Electric Co., Ltd., The.—249, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Gandhi Electric Industries Private Ltd.—94, Medows Street, Bombay 1.

General Electric Co. of India, Ltd., The.—"Magnet House," Dougall Road, Ballard Estate.

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G. K. Trading Co.—Nawab Bldg., Dr. D. Naoroji Road, Bombay 1.

Great Eastern Trading Co., The.—107, Cawasji Patel Street, Fort.

Greaves, Cotton & Co., Ltd.—1, Forbes Street.

Greaves Cotton & Crompton Parkinson Private Ltd.—1, Forbes Street, Fort.

Harda Electric Supply Co., Ltd.—17/19, Bastion Road, Fort.

Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Himco (India) Private Ltd.—Kurla Road, Andheri, Bombay 41.

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Hind Electric & Engineering Corporation.—188, Princess Street, Bombay 2.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate.

India Electric Works, Ltd.—6, Sir Phirozshah Mehta Road, Fort.

INDIA METAL TRADERS.—92/94, Kika Street (Gulalwadi), Bombay 4. Manufacturers of Non-ferrous Metals, Wires, Bars, Strips and Sections for Mechanical and Electrical Industries. Phone: 72193. Grams: "METALDRAW."

INDIAN INDUSTRIAL ENGINEERS.—43, Tamarind Lane, Fort. Phone: 254972. Grams: "NEWLIGHT."

Indian Wild-Barfield Co., Private Ltd.—Annie Besant Road, Worli, Bombay 18.

Indmag Private Ltd.—Esplanade House, Waudby Road, Fort, Bombay.

INDUSTRIAL & AGRICULTURAL ENGINEERING CO. (BOMBAY) PRIVATE LTD.—43, Forbes Street, Fort.

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Industrial Electrical Engineering Co.—Raja Bahadur Mansions, 10, Hamam Street, Fort.
International Electric Corporation.—49, Forbes Street, Fort.
International Electric Trading Co.—Devkaran Bldg., Princess Street, Bombay 2.

INTERNATIONAL GENERAL ELECTRIC CO. (INDIA) PRIVATE LTD.—Thackersey House, Graham Road, Ballard Estate.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jagmohandas, H., & Co.—Ashok Building, 16, Princess Street.
Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

JOHNSON & PHILLIPS LTD.—Kaiser-I-Hind Building, Currimbhoy Road, Ballard Estate, Bombay. Phone: 26-2457. Grams: "JOHNPHIL."

JOSEPH LESLIE & CO.—Engineers, Carbon Brushes for Electrical Machines & Automobiles, 105, Apollo Street, Bombay 1. Phone: 251608. Grams: "LEONINE."

JOST'S ENGINEERING CO., LTD.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

JOSTLE TRADING CORPORATION PRIVATE LTD.—Maskati Mahal, Lohar Chawl, Bombay 2. Phone: 20823. Grams: "CORPJOSTLE." Direct importers & Stockists of Electrical goods, Cables, Accessories, Switchgears, Conduit Pipes and Fittings, Fluorescent Tubes and Fixtures, Industrial Reflectors and Over-head line materials, and Licensed Contractors & on the approved list of Railways, D.G.S. & D., Municipalities, P.W.D. etc. Agents for 'NAVRUP' Wires.

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Kantilal Chhotalal & Co.—22, Babu Genu Road, Princess Street, Bombay 2.

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Maneckji, G. B., & Co. Ltd.—Mehta House, Apollo Street, Fort.
Manu Electric & Engineering Works.—Kanji Goculdas Building, 160, Lohar Chawl.
Mather & Platt, Ltd.—Hamilton House, 8, Graham Road, Ballard Estate.

MECH ELECTRIC INDUSTRIES PRIVATE LTD.—12, Rampart Row, Bombay 1. Phone: 252658. Grams: "MECHELIND." Importers of Electrical Machinery.

Mehta & Co., Private Ltd., K. L.—35, Bhangwadi, Kalbadevi Road, Bombay 2.
Metrogold Electric Stores.—60, Lohar Chawl, Bombay 2.
Minerva Trading Agency, The.—58, Forbes Street, Fort.
Modern Electric Co.—46, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.

MODERN ELECTRIC CO.—(Estd. 1935), Dady House, 50, Veer Nariman Road, Fort, Bombay. Phone: 252403. Engineers, Contractors and Temporary illumination specialists, on Government and Military lists.

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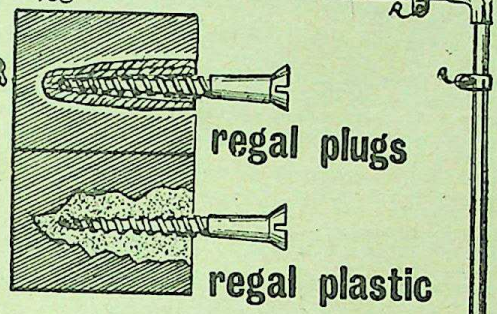

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Shah, H. T., & Co.—Ahmed Building, Golpitha, Bombay 4.

Sharif Electrical Works.—Sharif House, 74, Custom House Road, Fort.

Sharda Electric & Radio Co. Private Ltd.—Lohar Chawl, Bombay 2. Phone: 20478. Grams: "TEAKCASING."

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Surya Prakash Engineering Co.—21, Forbes Street, Fort.

Tata Hydro-Electric Agencies Ltd.—Bombay House, 24, Bruce Street.

Thaker Electric Stores.—37, Vithalwadi, Kalbadevi.

T. M. Tyabji & Bros.—32-38, Hamam House, Hamam Street, Fort.

Trinity Electric Syndicate.—Princess Street, Bombay 2.

Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.

United Eastern Agencies, Ltd.—144-146, Mahatma Gandhi Road, Fort.

UNITED INDIA ENGINEERING CO.—6, Commerce House, Medows Street, Fort, Bombay. Phone No. 25-1492. Grams: "UNICONARAM." Engineers and Machinery Dealers, Sales & Showroom: 78, Old Custom House Road, Fort, Bombay 1.

Voltas Limited.—Ballard Estate, Bombay 1.

Western Agencies Co.—421, Lamington Road, Bombay 4.

Western Engineering Co.—Western India Building, Sir Phirozshah Mehta Road, Fort.

Western India Electric Co., Ltd.—Tambuwala's Building, 96, Upper Duncan Road, Byculla.

Western India Engineering Corp., Ltd.—Cama Chambers, 23, Medows Street, Fort.

Western Traders (India), Ltd.—Post Box No. 9, Bombay.

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Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhai Naoroji Road (Hornby Road), Fort.

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ALLIANCE ELECTRIC MART.—67, Lohar Chawl, Bombay 2. Phone : 39229.

Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

All India Trading Corporation.—25, Bank Street, Fort. Grams: "Autoglass." Agents for Paisa Fund Opal Globes.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

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B. B. Electric & Auto Stores.—98, Princess Street, Bombay 2.

Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpaty, Bombay 7.

Bhargava & Co., K. L.—94, Medows Street, Fort.

Bijlee Products (India) Ltd.—36, Lamington Road, Byculla, Bombay 8.

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Deepak Electric Corporation.—44, Bhangwadi, Kalbadevi.

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Eastern Electric & Radio Corpn.—Lohar Chawl, Bombay 2.

Eastern Trading Co.—Vithal Sayana Building, Lohar Chawl, Bombay 2.

Economic Electric Co., Ltd.—Jail Road (East), Dongri, Bombay 9.

Electric & General Trades, Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.

ELECTRICALS (INDIA) PRIVATE LIMITED.—24-B, Hamam Street, Fort, Bombay, P.O. Box No. 1458. Grams : 'BIJLIHIND'. Phone : 252009. Importers and Dealers in all Electrical Goods, Overhead line materials and Motor Winding materials. Agents for L. P. S. Electrical Co., Ltd., England, Lindner & Co., Germany and Midland Electric Manufacturing Co., England.

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Hindustan Electric & Radio Corporation.—Khambata Lane, Bombay 4.

Huge Engineering Co.—Imperial Chambers, Wilson Road, Ballard Estate, Fort.

India Electro Traders.—157, Princess Street, Bombay 2.

Indian Electric Stores.—123, Lohar Chawl, Bombay 2.

Industrial Machinery & Tools Corporation.—Indira Nivas, 1st Floor, New Bhatwadi Street, Bombay 4.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

Jhaveri Bros. & Co. Private Ltd.—(Established 1914). Novelties and Gift Specialists. Electrical Appliances—Electrical Clocks, etc. Sole Agents in India for Bauknecht Trifix Kitchen Machines. Three showrooms in Bombay City. 345, Abdul Rehman Street (Near Crawford Market), Bombay 3. Grams : "GIFTS". Phone : 22096.

J. Mody & Co.—97, Nagdevi St., Bombay 3.

Johnson & Phillips Ltd.—Currimbhoy Road, Ballard Estate, Bombay 1.

Jostle Trading Corporation.—Maskati Mahal, Lohar Chawl, Bombay 2.

K. L. MEHTA & CO. PRIVATE LTD. (Estd. : 1923), Importers & Dealers in Electrical goods, "MEM" Switch Fuse and Motor Control Gear, 35, Bhangwadi, Kalbadevi Road, Bombay 2. Phone : 39993. Grams : "DRAKA." P.O. Box 2103, Bombay 2.

KESBO (PRIVATE) LTD., (Formerly known as the Karachi Electric Stores (Bombay) Ltd.).—Office : Bombay Mutual Terrace, 534, Sandhurst Bridge, Bombay 7. Grams : "RECTIFIERS." Phone—Office : 71643.

Killick Nixon & Co. Private Ltd.—Home Street, Bombay 1.

KIRTIKUMAR ELECTRIC CORPORATION.—12, Tavawala Bldg., Lohar Chawl, Bombay 2. P.O. Box 2060, Electric & General Merchants. Office Phone : 29894. Residence Phone : 42689. Grams : "KIRTICORP."

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone : 268081. Grams : "LATHAMS."

LIGHT HOUSE.—51, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2. Phone : 30351. Grams : "GREATWALL." Agents for "HGEC" Brand Electrical Accessories. Manufacturers of "KOTEX" Brand Auto Bulbs, Electrical Bulbs, Stoves, Lanterns and Gas Mantles. Distributors for "UNIFLASH" Torches.

Markel & Co.—Makharia House, 327, Sandhurst Road, Bombay 4.

M. C. Mody & Bros.—Maskati Mahal, 125-A, Lohar Chawl, Bombay 2.

Mehta, J. V., & Co.—Opera House, Tram Terminus, Bombay 4.

Midway Service Corporation (India).—Shree Krishna Nivas, Abdul Rehman Street, Bombay 3.

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Modern Electric Co.—46, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.
Modern Electrical Trade Syndicate.—Wassiamul Building, 182, Musjid Bunder Road, Bombay 3.
Modern Radio & Electric House.—381, Hornby Road, Fort.
Motiram & Co.—79, Himalaya House, Paltan Road, Bombay 1.
Motwane (Private) Ltd., Incorporating Eastern Electric Engineering Co. Private Ltd., and CHICAGO TELEPHONE & RADIO CO. PRIVATE LTD.—(Estd. 1909), Electrical, Mechanical and Electronic Engineers and Contractors. For everything in Electrical electronic, mechanical and tele-communication equipments, sound systems and industrial plants. 127, Mahatma Gandhi Road, Post Box No. 1312, Fort, Bombay 1. Phone : 252337 (3 lines). Branches at 25, Chowringhee, Calcutta ; 48, Hazratganj, Lucknow ; 68, Janpath, New Delhi ; 196, Mount Road, Madras ; 93-94, Sri Narasimharaja Road, Bangalore ; 5/E, Rashtrapati Road, Secunderabad (Dn.) ; 24/45, Birhana Road, Kanpur ; 422, Lamington Road, Bombay 4. Telegrams : "CHIPHONE" all offices.
Narendra Electric Stores.—158, Lohar Chawl, Bombay 2.
National Ekco Radio & Engineering Co. Ltd.—Ewart House, Bruce Street, Fort, Bombay 1.
National Supply & Distributing Agency.—250, Kalbadevi Road, Bombay 2.
New India Trading Corporation.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.
Oriental Trading Corporation.—Makharia House, 327, Sandhurst Road, Bombay 4.
Patel Electric Co., Ltd.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.
Patel, U. D., & Co.—Bank Street Building, Fort.
Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
Pavri Sons & Co.—93-97, Bazar Gate Street, Fort.
Pestonji & Co.—570, Sultan Manzil, Chira Bazar, Bombay 2.
Photophone Equipments, Ltd.—Fazalbhoy House, 9, Marine Lines, Bombay.
Pioneer Electricals (India) Ltd.—16, Hamam Street, Fort. Phone: 28050. Grams : "VIRCABLES."
POPULAR ELECTRIC STORES.—414, Harharwalla Building, Corner Golpitha, Bombay 4. Phone : 74959.
Precious Electric Co.—Yusuf Building, Churchgate Street, Fort.
Premier Electric Co., Ltd., The.—Mehta House, Apollo Street, Fort.
Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.
R. S. Traders.—16, People's Building, Sir Pherozshah Mehta Road, Fort.
Raichand & Sons.—5, Picket Cross Road, Bombay 2.
Rasiklal, K., & Co.—Mehta Building, Medows Street, Fort.
RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone : 255297. Electric Motors & Starters, A.C. generating Sets, D.C. Motors & Dynamos, Power Transformers & H.T. Switchgears, and Switchboard Panels, Ironclad Switches & Distribution Boards, Circuit Breakers, Change-over Switches, Knife Switches, Measuring & Testing Instruments, Industrial exhaust fans, Centrifugal Blowers, Air Circulator fans, etc.
RAJ-DER-KAR & CO. — Sadhana Rayon House, Dr. Dadabhoy Naoroji Road, Fort, Bombay. For Research Industries. Phone : 262304 (P.B. X—4 lines). Grams : "TECHLAB."
Refrigeration & Appliances Co., Private Ltd.—Pravin Court, 95, Queen's Road, Bombay.
Rhythm House Ltd.—40, Rampart Row, Fort.
Royal Electric Co., The.—Muljee Jetha Building, 139, Princess Street, Bombay 2.
Sawhney & Co.—Shahpur House, Cowasji Patel Street, Fort, P.O. Box 148-A, Bombay.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.
Sealite Electric Co.—Manhar Building, 173, Lohar Chawl, Bombay 2.
Sentinel Electric Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Shah Trading Agencies.—19, Hamam Street, Fort.
Shah Trading Co.—Lawyers' Chambers, Picket Road, Lohar Chawl.
SHANTILAL & BROTHERS.—Shreeji Bhuvan, 50/52/54, Lohar Chawl, Bombay 2. Phone : 22395. Grams : "TABLESTAND."
Shantilal & Co. Private Ltd.—195-197, Abdul Rehman Street, Bombay 3.
Standard Trading Co.—Vittal Sayana Building No. 2, 43-45, Lohar Street, Bombay 2.
TERRA TRADING CORPORATION.—Gopal Nivas, Lohar Chawl, Bombay 2. Phone : 20479. Grams : "TERRA."
Thanawalla & Co.—192, Hornby Road, Fort. Phone : 25118.
Trinity Electric Syndicate.—Princess Street, Bombay 2.
Turf Electric Co.—24-26, Dalal Street, Fort.
TWILIGHT PRODUCTS.—139-G, Ghodbunder Road, Agarwal Industrial Estate, Jogeshwari, Bombay 60. Phone : 87001. Manufacturers of Electrical Accessories, Specialists in Switches.
Unique Trading Corporation.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.
UNIVERSAL ELECTRIC CO., THE.—73-75, Lohar Chawl, Bombay 2. Stockists : G. E. C. Products, "Osram" Lamps. Phone : 23744. Grams : "CABTYRE."
Venus Electric Co.—Keravala Building, Mangaldas Road, Bombay 2.
Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.
Western Agencies' Co.—421, Lamington Road, Bombay 4.
Westrex Co. India.—Metro House, Mahatma Gandhi Road, Bombay 1.
Western India Engineering Corporation, Ltd.—Cama Chambers, 23, Medows Street, Fort.
WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Sole Distributors for Bombay State, for Calcutta Fan Works Ltd., Calcutta. Ceiling, Table and Exhaust Fans, Circulators etc.
Zenith Electric Stores.—51, Ahmed Building, Lohar Chawl, Bombay No. 2. Phone : 23125. Grams : "ALLANABANDA."

ELECTRICAL INSTRUMENTS & METERS

BAJAJ ELECTRICALS LTD. (FORMERLY RADIO LAMP WORKS LTD.).—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone : 25-3841. Grams : "SOFTLITE." Branches at Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha and Gauhati.
Eastern Electric & Engineering Co.—127, Mahatma Gandhi Road, Bombay 1.
ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort, Bombay. Grams : "ESSENCE." Phone : 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.
Express Trading Co.—Cama Chambers, 123, Medows Street, Bombay 1.

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Telegrams : "GYROSTATIC." Phone: 30504

INDIAN INDUSTRIAL ENGINEERS.—43, Tamarind Lane, Fort. Phone : 254972. Grams : "NEWLIGHT."
KERALA INDUSTRIES (INDIA).—17, Hornby Building, 174, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone : 26-5527. Grams : "COMPRESSOR." Mechanical Engineers, Manufacturers, Machinery Merchants and Industrial Stores Suppliers, Specialists in Compressed Air Equipment, Pneumatic Tools, Rivits Sacfs, Fuel Injection Spares, B.A. Screws, Grub Screws, Electrical Spares, etc.
National Supply & Distributing Agency.—Jay Mahal, 20/48, Lohar Chawl, Bombay 2.

ELECTRICAL ILLUMINATION (TEMPORARY)

MODERN ELECTRIC CO.—(Estd. 1935), Dady House, 50, Veer Nariman Road, Fort, Bombay. Phone : 252403. Engineers, Contractors and Temporary illumination specialists on Government and Military lists.
National Electric Company.—11, Elphinstone Circle, Fort, Bombay.

ELECTRICAL LIGHTING FITTINGS

BAJAJ ELECTRICALS LTD. (FORMERLY RADIO LAMP WORKS LTD.).—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers & Contractors. Phone : 253841. Grams : "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha & Gauhati.

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ELECTRICAL RESISTANCE WIRES

INDIAN INDUSTRIAL ENGINEERS.—43, Tamarind Lane, Fort. Phone : 254972. Grams : "NEWLIGHT."

ELECTRODES

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No.: 255451-55. Grams: "Batliboico." Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayavada. Associate: Bangalore.

Bombay Machine Tools & Hardware Corporation.—103, Narayan Dhuru Street, Bombay 3.

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort. Phone : 254433. Grams : "DATNARE."

Guest, Keen, Williams, Ltd.—Wakefield House, Ballard Estate, Bombay 1.

Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

WELDWELL ELECTRODES PRIVATE LTD.—341, Tardeo Buildings, Tardeo, Bombay 7. Phone : 71494 (Res.). Grams : "MATAHIMU." Manufacturers of Arc Welding Electrodes and Welding Accessories.

ELECTROPLATERS, ELECTROTYPERS & GILDERS

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

ARTYTOYS.—Sir Ratan Tata Welfare Centre, Sir Ratan Tata Road, Tardeo, Bombay 7. For Silver, Nickel and Copper plating at competitive rates.

CENTRAL INDUSTRIES.—C/o Parekh Metal Works, 196-D, Gaiwadi, Girgaum, Bombay 4. Iron & Brass Founders, Electroplaters and Manufacturers of Electrical Accessories & Hardware.

DIAMOND ELECTRO-GILDERS & GALVANIZERS.—Specialists for Electroplating in chrome, Nickel Silver, Copper, Cadmium and Bronze Oxidising, Barrel Plating, Galvanizing and Tinning, 2nd Carpenter Street, Khetwadi Main Road, Bombay 4. Phone : 76119.

HAMILTON INDUSTRIES PRIVATE LTD.—Tulsi Pipe Road, Off Haines Road (near Famous Cine Studios), Bombay 13. Grams : "HARDIYOG." Specialists in Copper, Nickel, Chrome, Cadmium Plating and Nickel Barrel Plating.

KOHINOOR ELECTRO GILDERS.—Khetwadi 10th Lane, Bombay 4. Phone : 71786 ; Electroplaters, Barrel-Platers, Electro-Tinners & Galvanisers ; Specialists in Chrome, Silver, Nickel, Bronze, Brass, Tin Cadmium. Oxidizing and Galvanizing and Anodising aluminium.

Lund & Blockley.—Sassoon Institute, 150-154, Mahatma Gandhi Road, Fort.

New Sun Electro Gilder & Metal Manufacturing Co.—250, Belasis Road, opp. Alexandra Cinema, Bombay 8.

R. Liladhar & Brothers.—Shinde Wadi, 220-D, Vincent Road, Dadar, Central Railway, Bombay 14.

S. R. MANDAWKER & CO.—Military Square Lane, Fort, Bombay 1. Phone: 253687. General Engravers & Die Sinkers, Electro Platers & Gilders, Copper Plate Printers, Relief Stampers & Rubber Stamp Makers.

SAIFEE ELECTROPLATING WORKS.—Electroplaters in Chromium, Nickel, Galvanize and Silver. Also Bronzing and Oxidisers in any Colour, 139, Bhendi Bazar, Bombay 3. Phone No. 70937.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

ELECTROPLATING MATERIAL MFRS. & DEALERS

Associated Machine & Tool Co.—130, Medows Street, Fort.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayavada. Associate: Bangalore.

BHARAT TRADING CO.—303, Sandhurst Road, Bombay 4. Branch Offices: 5262, Sadar Thang Road, Delhi ; Mital Road, Aligarh. Gram : "POLISHES." Electroplating Chemical, Polishing Compositions, Industrial Wheels & Brushes, Emery Powder, Metal Anoldes, etc.

Choksi Brothers.—Kanji Mansion, 315, Sandhurst Road, Bombay 4.

GRAUER & WEIL (INDIA) LTD.—Janmabhoomi Chambers, 29, Fort Street, Bombay 1. Phone: 265267. Grams : "WISHWELL." Manufacturers of Plating Equipment, Plating Salts, Polishing Materials, Polishing Wheels, Mops, etc. in foreign Technical Collaboration.

Hardcastle Waud & Co. Private Ltd.—Alice Building, Hornby Road, Bombay 1.

HIND RECTIFIERS PRIVATE LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 265493. Grams : "HIRECT." Licensees of Westinghouse Brake & Signal Co., Ltd., London for Manufacture of Rectifiers. Battery Chargers, Electroplating sets, Silicon Power Plants. Selling Agents : Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 264030. Grams : "KAYCE."

K. B. Gandhi & Co.—277, Sandhurst Road, Bombay 4.

MACHSONS PRIVATE LIMITED.—Electroplating Engineers, 28, 1st Agiary Lane, Karakuva, Zaveri Bazar, Bombay 2. Phone : 42795. Grams : "MACHPLATE." Manufacturers of Single Cyanides, Double Cyanides, Electroplating Salts and Anodes of Silver, Gold, Copper, Nickel, Zinc and Cadmium.

MATHURADAS BROS. & CO.—76/78, Thakurdwar Road, Bombay 2. Phone Nos. 27474 (Office) & 63875 (Res.). Grams : "PEERLESS," Bombay. Dealers in Electroplating Chemicals, Polishing Materials and Allied Equipments, Jewellery Enamels, Goldsmith Tools, etc. Leading Stocks for : Ronuk Industries Ltd., Bombay.

METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones : 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead linings of Acid Resisting Containers.

MITRA & CO., S.—Agents and Chief Distributors for W. Canning & Co., Ltd., Birmingham, England. Manufacturers of Electroplating and Polishing Equipments and materials. Bachubai Building, 187, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 262342. Grams : "MLUDESHI." Branches at Calcutta and Madras.

RONUK INDUSTRIES LTD.—11-A, Abdul Gaffar Khan Road, (Worli Sea Face), Bombay 18. Phone : 63550. Grams : "RONUKIND." Manufacturers of Polishing and Buffing Compositions, Fibre & Wire Wheels, Calico Mops, Polishing-Accessories, Prepared Plating Salts for all Metals, Metal Bronzes, Alkali Metal Cleaners, Anodes and Plating Accessories. Also Design, Fabrication & Erection of Complete Plants for Electroplating and Anodizing.

Shah Trading Corporation.—Opp. Crawford Market, Oomrigar Building, P. B. No. 2299, Bombay 3.

EMERY FILLETS

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone : 34723. Grams : "DIGNITY." Importers & Stockists of Emery Fillets, Emery Wheels and all Emery Products, Abrasives, etc. Branch Office: 59, Bibijan Street, Bombay 3.

ENAMEL SIGNBOARDS

LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone : 60637. Grams : "LANSENAMEL ".

PIONEER ENAMELLING WORKS.—24, Laxmi Building, Sir Phirozshah Mehta Road, Fort, Post Box 1130, Bombay 1. Phone : 26-3464. Grams : "NAVJOT."

TALWARKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phones : 253367 & 254710. Grams: " PUMPENAMEL ".

Vazir Enamel Works Ltd.—31, Tank Bunder Estate, Bombay.

ENAMELWARE

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bawa Crockeries Ltd.—89, Mohamedali Road, Bombay 3.

Currimbhoy, L., & Co.—156, Chuckla Street, Bombay 3.

CRYSTAL HOUSE.—99C/D, Mohamedali Road, Bombay 3. Dealers in Glassware, Cutlery, Plasticware, Thermos Flask, etc.

Dossa, S. R., & Co.—186, Sheriff Devji Street (Chakla), Bombay 3.

Hindustan Export & Import Corporation Ltd.—Albert Building, Hornby Road, Fort.

Khatau Chhatrabhaj.—40-41, Swadeshi Market, Kalbadevi Road.

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JAYANTILAL KASTURCHAND & CO.—102, Bhandari Street, Chakla, Bombay 3. Phone: 27947. Grams: "GLEANAPOT." Sole Selling Agents: The Bengal Enamel Works Ltd., Calcutta.

LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone: 60637. Grams: "LANSENAMEL".

PIONEER ENAMELLING WORKS.—24, Laxmi Building, Sir Phirozshah Mehta Road, Post Box 1130, Fort, Bombay 1. Phone: 26-3464. Grams: "NAVJOT."

Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.

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LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsi Pipe Road, Dadar, Bombay 28. Phone: 60637. Grams: "LANSENAMEL".

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A. M. MOTIWALLA & CO.—213, Nagdevi Street, Bombay 3. Phone: 27760. Shipchandlers, Engineering Tools, Hardware & Pipe Fittings Merchants & General Stores Suppliers.

A. MOHAMMED & CO.—213, Abdul Rehman Street, Bombay 3. Head Office: 26, Netaji Subhas Road, Calcutta 1. Phone: 222406. Grams: "POLISHER," Calcutta. General Hardware & Tools Merchants and Order Suppliers.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.

Abdulkhader Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.
Abdullabhai Faizullabhai, Ltd.— Khoka Bazar, Bombay 3.
Adamally Gulamhusein.—191, Khoka Bazar, Sarang Street, Bombay 3.
Agarwal Commercial Corporation.—35, Bibijan Street, Bombay 3.
Agarwal Machine & Engineering Stores, 55/57, Nagdevi Cross Lane, P. Box 3262, Bombay 3.
Ahmedally Jiwabhai & Co.—86-88, Lohar Street, Bombay 2.

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone: 25-2952/25-4103. Grams: "PILOTACE."

Apollo Engineering Co.—84, Apollo Street, Fort.
Ardeshir D. Wadia & Sons.—93, Apollo Street, Fort.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayavada. Associate: Bangalore.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS". Phone: 23193.

Bombay Machine Tools & Hardware Corporation.—103, Narayan Dhuru Street, Bombay 3.
Bombay Tools & Hardware Mart.—123, Narayan Dhuru Street, Bombay 3.

BOMBAY TOOLS SUPPLYING AGENCY.—50, Nagdevi Cross Lane, Bombay 3. Phone: 20326. Grams: "TERRATOOLS."

Brady, W. H., & Co. Ltd.—Royal Insurance Building, Churchgate Street, Fort.
C. Bole & Co.—61, Narayan Dhuru Street, Bombay.
Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
Chhabildas & Bros.—163, Narayan Dhuru Street, Bombay 3. Phone: 34860.
Chadha, B. M., & Co. Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box No. 671, Bombay.
Choksi, H., & Co.—106, Medows Street, Fort.
Desai Tube & Hardware Mart.—41, Nagdevi Cross Lane, Bombay 3.
Devidayal Engineering Corporation, Darukhana, Reay Road, Bombay 10. Phones: 70558-59/73586. Grams: "DEVISTEEL."
Essential Engineering Co.—11, Botawala Building, Elphinstone Circle, Fort.

EXPRESS COMMERCIAL CORPORATION.—96, Nagdevi Cross Lane, Bombay 3. Grams: "PROFICIENT." Phone: 20574. Direct Importers & Stockists of all requirements in Engineering, Metal Cutting and Precision Tools and Garage Equipment.

Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.

G. C. Vora & Co.—107, C. P. Tank Road, Bombay 4.
General Trading Corporation.—Tamarind House, Tamarind Lane, Fort.
Gin Store Co.—76, Nagdevi Cross Lane, Bombay 3.
Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

GUPTA ENGINEERING CO.—105, Apollo Street, Fort, Bombay 1. Phone: 254356. Dealers and Stockists for Electric & Mechanical Machinery.

Hardcastle Waud & Co. Private Ltd.—Alice Building, Hornby Road, Bombay 1.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING". Phone: 20974. Importers & Stockists of Chain Pulley Blocks, Garage Tools, Fibre Sheets, Rods, etc.

HINDUSTAN ENGINEERING CO.—(Machinery Dept.), 10-12, Bake House Lane, Fort, Bombay 1. Telephone: 253583. Grams: "VIDOOALL." Dealers in Imported and Indigenous Workshop Machineries, Tools, Woodworking Machines, Mill Gin Stores, Agricultural Implements and Requisites, Diesel Engines and Spare Parts, Pumps and Pumping Sets etc.

HINDUSTAN TOOLS & ENGINEERING CO.—Post Box 2311, 9/13, Picket Cross Road, Lohar Chawl, Bombay 2. Grams: "GREENLEAVE." Stockists of Drills, Tapes, all kinds of cutters & precision tools.

HINDUSTAN TOOLS & HARDWARE MART.—126, Lohar Chawl, Bombay 2. Phone: 34766. Grams: "FAKIRSAI." Direct Importers of Engineering Tools, Hardware, Mill Gin Stores, etc.

Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.
Industrial & Agricultural Equipment Co.—29, Hamam Street, Fort, Bombay 1.

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International Tools & Hardware Stores.—84, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY"
Jairamdas & Sons.—158-160, Narayan Dhuru Street, Bombay 3.
James Tools & Hardware Co.—109-111, Nagdevi Street, Bombay 3.
Jayantilal Bhagwandas & Co.—96, Nagdevi Cross Lane, Bombay 3.
John Fleming & Co. Private Ltd.—Bastion Road, Bombay 1.
Jones, J. D., & Co. (Bombay) Ltd.—Rustom Building, Churchgate Street, Fort.
Kadakia Trading Corporation.—25, Bibijan Street (Nagdevi), Bombay 3. Phone: 29493. Grams: "STEAMTRAP."

KALA INDUSTRIES (BOMBAY).—153, Narayan Dhuru Street, Bombay 3. Grams: "HIRAVASOO." Importers & Stockists of various types of Micrometres, Vernier Callipers, Dial Gauges and Comparators and all kinds of workshop equipment. Phone: 20893.

KANTILAL BHOGILAL & CO.—(Estd. 1933), Engineering and Metal-cutting Tools, Precision & Machinery Tools, Garage Tools and Worn & Triple gear Pulley blocks and Abrasive Products, 68, Nagdevi Cross Lane, Bombay 3. Phone: 30837 (Office) and 70235 (Residence). Grams: "PIPETOOLS."

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KIRTILAL & CO.—31, Bibijan Street, Barbhai Mohalla, Bombay 3. Phone: 23572. Grams: "PIPEWRENCH." Mill gin store suppliers and hardware merchants.

M. KANTILAL & CO.—70, Nagdevi Cross Lane, Bombay 3. Phone: 20245. Grams: "GITIDI." Importers & Stockists of Engineering Tools, Hardware, etc. Accredited Dealers for "WOLF" Electric Tools, Addisons Metal Cutting Tools, Sub-Agents for Birkbelt hairbelting and stockists of Grindwell abrasives; Authorised Stockists of Shivaji Vices: Stockists of SAP low tungsten & High Speed Hand & Power Hacksaw Blades; Authorised Stockists of Simpson Forges Blowers.

MACHINE TOOLS & IMPLEMENTS.—93-95 Narayan Dhuru Street, Bombay 3. Phone: Office: 22868. Res. 242425. Grams: "MACHTOOLS."

Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3.

MEHTA ENGINEERING STORES.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3, Phone: 29206. Grams: "TAPDIES." Importers of Precision Tools of M. & W. Storrett, Helios, Baty, Chesterman, Steinmelyer, Rambold, Eclipse, etc. Precision levels, Chain Pulley Blocks, Hacksaw Blades. Adjustable Reamers, Taps, Dies, Milling Cutters, Drills and Wood Working Saws, etc.

Mehta Hardware Mart.—81-83, Nagdevi Street, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39545. Grams: 'REDJOINT'.

M. MAHASUKHLAL & CO.—93, Narayan Dhuru Street, Bombay 3. Phone: 20326. Grams: "STEELBALL." Dealers in Engineering Tools, Precision & Measuring Instruments.

MODERN MACHINE TOOLS CO.—88, Nagdevi Cross Lane, Bombay 3. Phone: 39056. Grams: "MONKEYGRIP."

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

NEW HIND ENGINEERING CO.—63, Nagdevi Cross Lane, Bombay 3. Phone: 39123. Grams: "HINDENCO." Engineering & Metal Cutting Tools, Precision & Machinery Tools, Garage Tools & Worm & Triple Gear Pulley Blocks.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

Panalal Mohanlal & Co.—89, Nagdevi Street, Bombay 3.

PARAMOUNT TOOLS COMPANY.—5, Narayan Dhuru Cross Lane, Bombay 3. Grams: "PARATOOLS." Dealers in Engineering Metal-cutting precision tools and general Hardware suppliers.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Engineering Stores, Beltings, Abrasives & Asbestos Products, etc.

Patel, U. D., & Co.—Bank Street Building, Fort.

Prafulchandra & Co.—106, Lohar Street, Bombay 2.

P. Ratilal & Co.—48, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

RELIANCE TRADING CO.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2. Phone: 38751. Grams: "STORETRADE." Engineering Stores, Hardware, Taps & Die Merchants.

Shah & Brothers.—234, Nagdevi Street, Bombay 3.

Shah Patel & Co.—109-111, Nagdevi Street, Bombay 3.

SHAH PRATAP & CO.—64, Old Custom House Road, Fort, Bombay. Phones: 255615 and 255616. Grams: "VINPRA."

SHALEBHOY TYEBJEE & SONS (Estd. 1840).—12, Bruce Street, Fort, Bombay 1. Phones: 252357 and 252358. Grams: "ROTATOR."

S. Sevantilal & Co.—246, Masjid Bunder Road, Bombay 3.

Standard Trading Co.—Vithal Sayana Building No. 2, Lohar Street, Bombay 2.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Post Box No. 811, Bombay.

Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box 3231, Bombay.

T. M. Tyabji & Brothers.—Hamam House, Hamam Street, Fort.

Trinity Electric Syndicate.—Princess Street, Bombay 2.

Viswabharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

Vora, J. C., & Co.—107, C. P. Tank, Bombay 4.

William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Bombay.

ENGINEERS AND CONTRACTORS

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.

Abdul Husein Esofally.—Contractor, 91-93, Bapu Khote Street, Bombay 3.

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

Air Conditioning Corporation Ltd.—Construction House, Wittet Road, Ballard Estate.

Alcock, Ashdown & Co., Ltd.—16, Bank Street, Fort.

ALEXANDRA ENGINEERING WORKS PRIVATE LTD.—29, Quay Street, Darukhana, Bombay 10. Phone: 76359. Grams: "ALEXWORKS." Mechanical & Structural Engineers & Contractors. Manufacturers of Pipes, Fittings to all Specifications and "ALEX" Solder Wire for Radio & Electrical uses.

Alfred Herbert (India), Ltd.—Kaiser-i-Hind Building, Ballard Estate.

All-India Construction Co., Ltd.—Construction House, Ballard Estate.

Apollo Engineering Co.—84, Apollo Street, Fort.

ARUNODAYA ENGINEERING CORPORATION.—Electrical and Mechanical Engineers, specialised in erection of heavy industries such as electric power generating stations steel plants, heavy storage tanks, electric sub-stations, transmission lines, cable laying, etc. Navsari Chambers, Outram Road, Fort, Bombay 1. Phone: 265382. Grams: "ARUNENGCOR."

Associated Machine & Tools Co.—130, Medows Street, Fort.

Autogenous Welding & Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.

Babcock & Wilcox, Ltd.—16, Queen's Road Estate, Bombay.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.

Batliboi & Co.—Forbes Street, Fort.

Bhagat & Sons, Ltd.—Mahatma Gandhi Road, Fort, Bombay.

Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort.

Billington, W., & Co., Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street.

British Engineering Co.—105, Apollo Street, Fort.

British Steel Piling Co. (India) Ltd.—Hamam House, Hamam Street, Fort.

Candy Filters (India), Ltd.—Forbes Building, Home Street, Fort.

Cementation Company Ltd.—Kasturi Building, Jamshedji Tata Road, Bombay 1.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.

Choksi, H., & Co.—106, Medows Street, Fort.

Chotani Electric Engineering Co. Ltd.—57, Apollo Street, Fort.

Curtis, & Co., Ltd. J.,—36-40, Mahalaxmi Bridge Arcade, Bombay 11.

Diamond Electric Co.—18, Hamam Street, Fort.

Dinshaw Master & Co., Ltd.—247, Nagdevi Street.

Drewet, Chowna & Co.—Lentin Chambers, Medows Street, Fort.

Duncan, Stratton & Co., Ltd.—5, Bank Street.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri, Bombay 9.

Economy Traders.—Dholandas Mansion, Cumballa Hill, Gowalia Tank Road, Bombay 26.

Edgar Handley and Company Limited.—139, Medows Street, Fort. Bombay.

Electric Cable & Machinery Co.—45-47, Forbes Street, Fort.

Engineer, Eruch D., & Co.—Crossley House, Apollo Street, Fort.

Esufally Adamji & Co.—134, Nagdevi Street.

Essential Engineering Co.—11, Botawalla Building, Elphinstone Circle, Fort.

Fleming John & Co. Private Ltd.—Sukhadwala Building, 21, Bastion Road, Fort.

Fleming Shaw & Co., Ltd.—Sorab House, 235, Hornby Road.

Fowler, John & Co. (India), Ltd.—Marshall's Building, Ballard Road.

Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort.

Gagrat & Co.—160, Nagdevi Street, Bombay 3.

Gammon India Private Ltd.—Hamilton House, Graham Road, Ballard Estate. Grams: "GAMMON".

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.

General Electric Co. of India, Ltd., The.—Magnet House, Dougall Road, Ballard Estate.

Greaves, Cotton & Co., Ltd.—1, Forbes Street, Fort.

Guest, Keen, Williams, Ltd.—Wakefield House, Sprott Road, Ballard Estate, Bombay.

Haiderbhoy Esmailjee & Co.—168, Nagdevi Street, Bombay 3.

Hardcastle Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

Haydari Construction Co., Ltd.—111, Mahatma Gandhi Road, Fort.

Heatly & Gresham, Ltd.—9, Forbes Street, Fort.

Hind Constructions Ltd.—United India Bldg., Sir Phirozshah Mehta Road, Fort.

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Hindustan Construction Co., Ltd.—Construction House, Ballard Estate.

HINDUSTAN ELECTRIC CO., LTD., THE.—Thackersey House, Graham Road, Ballard Estate, Bombay 1. Manufacturers of ACSR Conductors and Cables, Transformers, Electric Motors, Switchgear, etc. Engineers, Contractors and Suppliers of Plant, Machinery and Equipment. Branches, Representatives all over India. Works: Howrah, Faridabad and Baroda. Tel. Address: "UDYOG." Phone Nos. 26-1121, 26-1122-26;1123.

Huges & Davies.—101, Mahatma Gandhi Road, Fort.

Indian Hume Pipe Co., Ltd.—Construction House, Wittet Road, Ballard Estate.

Indian National Construction Co.—Ali Chambers, Tamarind Lane, Fort.

Industrial Electrical Engineering Co.—Raja Bahadur Mansion, 10, Hamam Street, Fort.

Jacks, William, & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

JOHN THOMPSON (INDIA) PRIVATE LTD.—Great Social Building, Sir Phirozeshah Mehta Road, Fort. Phone: 26-3144. Grams: "WATERTUBE."

KAMANI ENGINEERING CORPORATION LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone: 26-1744 (5 lines). Factory & Sales Office of Factory products, Agra Road, Kurla, Bombay 70. Phone: 67984. Manufacturing: High Tension Transmission Line Towers, Radio & Communication Masts, Substation Structures, Railway Track Structures, "Tractamount" Road Rollers, and Importers of: Light, medium and heavy mechanical, electrical, Hydraulic and Industrial Plants and machineries—Railway Equipments, Locomotives, Rolling Stock, Dredgers, Harbour Cranes, Excavators, Conveyors, Switchgears, Transformers, Diesel and Thermal Power Plants, H. T. Insulators, Ground Wire and other Power Transmission Equipments, etc. Managing Agents: Kamani Brothers Private Ltd.

KIV GROUP INDUSTRIES.—Sun Mill Compound, Sun Mill Road, Lower Parel, Bombay 13. Phone: 72180. Grams: "KIVGROUP."

Kumar Engineering Works.—65, Mahatma Gandhi Road, Fort.

Kurwa & Kajiji.—142-144, Abdul Rehman Street.

Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, P.O. Box 278, Bombay.

Mapara Engineering Co.—381, Dadabhoy Naoroji Road, Bombay 1. Phone: 253398. Manufacturers in mild steel and stainless steel of chemical and pressure vessels, Storage Tanks and all kinds of sheetmetal & structural works.

Marshall Sons & Co. (India), Ltd.—Marshall's Buildings, Ballard Road, Fort.

Mather & Platt, Ltd.—Hamilton House, 8, Graham Road, Ballard Estate.

Mayashanker Thacker & Co.—47-A, Apollo Street, Fort.

Mazagon Dock, Ltd.—Mazagon.

McKenzies, Ltd.—Sewri.

Metals Private Ltd.—269. Dr. Dadabhai Naoroji Road, Bombay 1.

Minimax, Ltd.—63, Moreland Road, Byculla.

Modern Electric Co.—46, Cawasji Patel Street, opp. Hongkong Bank, Fort, Bombay 1.

Modern Electrical Trade Syndicate.—Wassiamul Building, 182, Musjid Bunder Road, Bombay 3.

Modern Mercantile Works.—Lotus Bldg., Hornby Road, Fort.

Modern Textile Engineering Works.—194-A, Trimbak Parashram Street, Golpitha, Bombay 4.

Mody Trading Co.—50, Nagdevi Cross Lane, Bombay 3.

Motichand & Co.—United India Building, Sir Phirozshah Mehta Road, Fort.

Muncherjee Byramjee & Co. (Estd. 1882).—Jerajbhoy Street, 100, Foras Road, near Municipal Workshop, Bombay 8.

Nadirshaw & Bros.—Silver Talkies Building, Khetwadi Back Road.

New Consolidated Construction Co., Ltd.—Rahimtoola House, Homji Street, Fort.

Pandit & Co.—Hamam House, Hamam Street, Fort.

Poonager, Bilimoria & Co.—Cama Building, 24-26, Dalal Street, Fort. Phone No. 23625.

Premier Construction Co., Ltd.—Construction House, Wittet Road, Ballard Estate, Fort.

Protos Engineering Co., Ltd.—173, Jamshedji Tata Road, Churchgate, Bombay.

Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.

Reliance Trading Co.—Vithal Sayana Building, Lohar Street, Bombay 2.

Richardson & Cruddas Ltd.—Byculla Ironworks, Byculla.

RAMJI DAYAWAHLA & SONS PRIVATE LTD.—Erection Engineers and Constructors of Industry. Specialists for Erection of Steel Plants (Blast Furnaces, Rolling Mills, etc.), Sugar Plants, Steam and Hydro Power Plants, Fertiliser Factories, Laying & Welding of Pipes, Welding Storage tanks etc., etc., Stadium House, Block No. 2, Veer Nariman Road, Bombay 1. Phones: 246042 & 245580 (Office) and 76539 (Res.). Parel: 65134. Grams: "ARDEESON." Regd. Office: Palia Street, Nanpura, Surat. Phone: 577.

RECONDO LIMITED.—Ewart House, Bruce Street, Bombay 1. Road Construction Contractors, Specialists in Asphalt Surfacings. Phone: 252261. Grams: "EWART," Bombay. Manager: T H. Peshori, B.E. (Mech.). Technical Adviser: N. H. Taylor, M.Sc. (Lond.), A.M.I.C.E.

Sampat & Co.—39, Yusuf Building, Hornby Road, Fort.

SEWRI ENGINEERING CONSTRUCTION CO. PRIVATE LTD.—Savoy Chambers, West Wing, Wallace Street, Fort, Bombay 1. Phones: 263941 and 261456.

Sewri Engineering Works.—234, Sewri Road, Bombay 15.

S. G. Phadke & Sons.—Engineers & Contractors, 6, Medows House, 39, Medows Street, Fort, Bombay.

Shah Construction Co. Ltd.—198, Jamshedji Tata Road, Bombay 1.

Shapoorji Pallonji & Co.—70, Medows Street, Fort.

Sharp, R., & Sons.—Kaiser-i-Hind Building, Ballard Estate.

Simpson, D. R., & Co.—33, Gamdevi Road, Bombay 7.

Simplex Concrete Works & Construction Co.—"La-Citadelle", 32, Queen's Road, Bombay.

SKF Ball Bearing Co. Private Ltd.—Mustafa Building, 19, Sir Phirozshah Mehta Road, Fort. P.O. Box No. 71, Bombay.

Smidth & Co. (Bombay) Ltd., F. L. Eros Cinema Bldg., 124/D, Queen's Road, Bombay 1.

Stewarts & Lloyds of India, Ltd.—Himalaya House, Palton Road, Fort, Bombay 1.

Structural Engineering Works Ltd.—Prospect Chambers, Hornby Road, Fort.

Surveyors & Co., Ltd.—Prospect Chambers Annexe, Fort.

Swastik Rolling Shutters Engineering Works.—Parel Station Road, Bombay 12. Phone: 62041. Grams: "SWASTIKROL".

Taherbhoy Goolamhusein & Bros.—Mazagaon Dock.

Tata Hydro-Electric Agencies, Ltd.—Bombay House, 24, Bruce Street.

Techno-Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

Trinity Electric Syndicate.—Princess Street, Bombay 2.

Turner, Hoare & Co. Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

United Engineering Corporation.—Datoobhoy Building, 5, New Queen's Road.

Universal Asphalt Products & Construction Co.—"La-Citadelle," Queen's Road.

Universal Construction Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.

Verma, Ramlal G.—Bell Building, 4th Floor, 6, Sir Phirozshah Mehta Road, Fort.

Vickers (India), Ltd.—Killick Building, Home Street, Bombay.

Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.

Voltas Ltd.—19, Graham Road, Ballard Estate.

Western Engineering Co.—Western India Building, Sir Phirozshah Mehta Road, Fort. P.O. Box 75.

Western India Engineering Corpn. Ltd.—Cama Chambers, 23, Medows Street, Fort.

ENGRAVERS AND DIE-SINKERS

Commercial Art Engravers Ltd.—4th Floor, Tutorial School Building, Grant Road, Bombay.

CLARIDGE, G., & CO., LTD.—Frere Road, Fort, Bombay 1. Phones: 263201 and 263202. Grams: "EGDIRALC." Security Printers, Photo-Offset, Book-Binders, Carton & Packaging experts.

Ghaisas, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.

MANKAME BROS.—Rubber Stamp Manufacturers, Engravers and Die-Sinkers, 405, Kalbadevi Road, Bombay 2. Phone: 23960. Grams: "SCULPSIT."

Mitbawkar, G. A., & Co.—Jehangir Wadia Building, 30, Bruce Street, Fort.

Mitra, H. P., & Co.—Krishna Cinema Building, New Charni Road.

Premier Art Printing Works.—107, Cowasji Patel Street, Fort.

Shah Trading Corporation.—Oomrigar Building, 1st Floor, opp. Crawford Market, Bombay 3.

Studio Ratan Batra Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

Thacker & Co., Ltd.—Rampart Row, Fort.

TIMES OF INDIA PRESS, THE.—Dr. Dadabhoy Naoroji Road, Fort.

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ENVELOPE MANUFACTURERS

EXCELSIOR STATIONERY MART.—Tamarind House, Tamarind Lane, Bombay 1. Phone: 252763. Manufacturers of Envelopes, Invitation & Visiting Cards.

ESSENCES

A. BOAKE, ROBERTS & CO. (INDIA) PRIVATE LTD.—107, Mahatma Gandhi Road, Bombay 1. Phone: 252877. Grams: "FLABRAC." Suppliers of Flavouring Essences to Manufacturers of Aerated Waters, Confectionery, Icecream and Pharmaceuticals, etc. Head Office: Madras. Branch: Calcutta.

Akbarally Ebrahimji.—38/C, Cawasji Patel Street, Fort, Bombay.

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort.

Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.

GENERAL IMPORT CO. (INDIA).—Keshav Baug, 102, Princess Street, Bombay 2. Phone: 38497. Grams: "SODALEMON". Aromatic Chemicals, Essential Oils, Aerated Water requisites, Essences, Harmless Food Colours and Saccharine.

Gujrat Essence Mart.—126, Princess Street, Bombay 2.

Indiana Chemical Works (India) Ltd.—Atlas Mills Compound, Reay Road, Bombay 10.

New Chemical Industries.—Antia House, Edalji Road, Thana, Bombay.

T. Alimahomed & Co.—144-46, Sarang Street, Bombay 3.

T. S. Abdullabhoy & Co.—290-92, Abdul Rehman Street, Bombay 3.

ESSENTIAL OILS

Akbarally Mohamedally & Co.—Dawoodi Building, 316, Abdul Rehman Street.

AMRUTLAL BHURABHAI & CO.—P. O. Box No. 2379, Anand Bhuvan, Princess Street, Bombay 2. Phone: 27034 & 27035. Grams: "CHEMDRUGS." Direct Importers and Dealers of all kinds of Chemicals, Drugs & Sizing materials.

Anil Trading Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.

AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—Importers and Indentors of Essential Oils, Aromatic Chemicals and Perfumery Raw Materials. 42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort. Grams: "DISCOVERY." Phone: 253151.

Balumal Santsaram.—204, Samuel Street, Vadgadi, Bombay 3.

B. C. Patel & Co.—79, Princess Street, Bombay 2.

CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams: "SUPRALUX." Phone: 22623. Dealers and Importers of Essential Oils, Aromatic Chemicals and Perfumery Compounds. Agents for Industrial Perfumers Private Ltd., for Maharashtra State (except Bombay City) and West Bengal including Calcutta.

Cox & Co., Ltd., H. S.—24, Rampart Row, Fort, Bombay.

DAVAR, M. C., & CO.—143, Princess Street, Bombay 2. Phone: 39752. Grams: "EMCIDAVAR." Aromatic Chemicals, Essential Oils and Perfumery materials. Agents for:—Esrolko Ltd. (Flora), Switzerland.

D. D. Shah & Co.—Anees Chambers Annexe, Carnac Road, Bombay 1.

Dhamdhere, K. H.—45-47, Princess Street, Bombay No. 2. Tel. No. 30683.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

F. Bock & Co.—Shale Building, Bank Street, Bombay 1.

FIDAALLI ABDULRASUL ATTERWALLA & CO. (Estd. 1890).—12-14, Mirza Street, Bombay 3. Phone: 30941. Grams: "PALMAROSA." Manufacturers and Exporters of Palmarosa Oil and other Essential Oils.

GENERAL IMPORT CO. (INDIA).—Keshav Baug, 102, Princess Street, Bombay 2. Phone: 38497. Grams: "SODALEMON." Aromatic Chemicals, Essential oils, Aerated water requisites, Essences, Harmless Food Colours and Saccharine.

Gujrat Essence Mart.—126, Princess Street, Bombay 2.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Kapadia & Co.—19, Phirozshah Mehta Road, Fort, Bombay 1.

K. Metharam.—491-3, Kalbadevi Road.

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3.

Latham Abercrombie & Co., Private Ltd.—Forbes Building, Home Street, Fort.

Mercantile Essential Oil Company.—5, Mint Road, Fort, Bombay.

MOHANLAL ROSHANLAL & CO.—133, Gopal Nivas, Princess Street, Bombay 2. Phone: 28879. Grams: "CROWNCORK." Dealers in Essences, Essential oils, Aromatic Chemical & Aerated Water Requisites. Agents: "CROWN" brand Patchouli Oils.

Narandas G. Bhatia.—157, 5th Cavel Cross Lane, Gaiwadi.

Narendra & Co.—Bansilal Mansion, 11, Bruce Street, Fort.

New India Pharmacy.—Shroff Mansion, 32, Princess Street.

ODHAWJI LAWJI & CO.—Chikhal House, 144/B, Princess Street, Bombay 2. Phone: 29164. Grams: "PLUMOL", Bombay 2. Direct Importers and Dealers in Essential Oils, Aromatic Chemicals, Chemicals, Soda-Water Machinery, CO_2 Gas & Cylinders, Essences, Colours, Empty bottles, Pure-Saccharine, Crown-Corks, etc.

Oriental Aromatics.—Sharaf Mansion, 32, Princess Street, Bombay 2.

Parekh Bros., Ltd.—65, Mahatma Gandhi Road, Fort.

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone: 251748. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur-Chemicals-Solvents, Fertilizers, Minerals, Lime, Jute Products.

R. H. Mody & Co.—8, Khanderao Wadi, 1st Floor, Kalbadevi Road, Bombay 2.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

S. H. KELKAR & CO. PRIVATE LTD.—36, Mangaldas Road, Bombay 2. Phone: 29130. Grams: "SACHEWORKS," Dadar, Bombay. Manufacturers of Essential Oils, Aromatic Chemicals & "COBRA" Brand Perfumes.

SIKRI BROTHERS.—79-E, Princess Street, Bombay 2. Phone: 29393. Grams: "OILMAN."

Shapurji & Co., R. K.—Prospect Chambers, 319, Hornby Road, Fort, Bombay.

SUDAN TRADING CO.—"Dhan-Nur," Phirozshah Mehta Road, Bombay 1. Phones: Office: 262788; Res.: 62089. Grams: "VANSOBHA".

T. Alimahomed & Co.—144-46, Sarang Street, Bombay 3.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

EXPANDED METAL AND WIRE NETTING

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.

Alsales Ltd.—9, Wallace Street, Bombay 1.

CHUNILAL & CO.—74, Abdul Rehman Street, opp. State Bank, Bombay 3. Expanded Metal, Perforated Brass, Copper and Zinc Sheet, G.I. Square and Hex Wire Netting and Stainless Steel, and Monel Metal Netting Merchants. Phone: 27710. Grams: "HIRCHUNGI."

East Asiatic Company (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate. Phone: 26-2711.

Excel Importers.—89, Princess Street, Bombay 3.

FAKRUDDIN & CO.—43, Abdul Rehman Street, Post Box No. 3066, Bombay 3. Phone No. 34534. Grams: "EXMETAL."

Great India Net Industry.—10, Bruce Street, Bombay.

HARISHCHANDRA & CO., JALIWALA.—233, Abdul Rehman Street (opp. Sutar Chawl), Bombay 3. Manufacturers of perforated metal sheets of all kinds, and stockists of MAX-WELD fabrics, Expanded metals, Wire Netting of all kinds. On Govt., Railway & Municipal Lists. Grams: 'HARIJALI'.

Hindustan Wire Netting Co., Ltd.—55-57, Nagdevi Cross Lane, Bombay 3.

Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Indian Expanded Metals Ltd.—2nd Floor, Prospect Chambers, Hornby Road, Fort, Bombay.

INDIAN HARDWARE CO.—Bhabha Building, 151, Princess Street, Bombay 3. Dealers in Wire Gauze, Hex Wire Nettings, Chain Link Fencing, Crimped Wire Net Panel Pins, Barbed Wire & other Wire Products & Expanded Metal, Welded Mesh, etc. Tel. No. 28304.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

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Keshavlal Narsidas Jaliwala.—157, Abdul Rehman Street, Bombay 3.

M. MOIZ & CO.—Nakhoda Roghay Market, 8, Nagdevi Street, Bombay 3. Importers & Merchants, Brass, Bronze, Monel Metals and all kinds of Wire Nettings.

Mehta & Co.—35, Abdul Rehman Street, Bombay 3.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Expanded Metal, Galvanised Brass, Copper Wire nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Plywood, Woven Wire Fence and Wire netting, Decorative Plywood for furniture as a Teak Mahogany, Walnut in all sizes and thickness. Phone: 34968.

Parsee Trading Co.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

PLYNET TRADERS.—Shahru Castle, Mohamedali Road, Bibijan Street, Bombay 3. Phone: Request 20770. Grams: "NETPLY," Bombay. Stockists & Dealers in Expanded Metal, Welded Mesh, Crimpnet, Chain Link, Wire netting, Barbed Wires and other allied building materials.

Reliance Trading Co.—25-47, Lohar Street, Bombay 2.

Saify, T. A., & Bros. (India).—20, Sarang Street, Bombay 3.

Shah & Co., Jaliwala.—"Jay Nivas", 36, Abdul Rehman Street, near Pydhonie, corner of Sutar Bazar, Bombay 3.

Siriram & Co.—97, Narayan Dhuru Street, Bombay 3.

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone: 26-3001. Grams: 'DUTY BOUND'. Wire Netting and Perforated Metals & Stainless Steel Wire Nettings and Monel Metal Wire Nettings. Importers, Exporters & Merchants.

SUDARSHAN & CO.—209, Masjid Bunder Road (Opp. State Bank), Bombay 3. Factory: 215-E, Ripon Road, Bombay 8. Importers, Manufacturers & Stockists of Expanded Metals. Wire Nettings, Plywood, Plain & Perforated, Zinc, Brass, Copper and Steel Sheets, Asbestos Cement, Plain and Corrugated Sheets, Barbed Wire and Welded Steel Wire Fabrics, etc. Specialists in the Manufacture of Collapsible gates, Rolling Shutters, Window Grilles, Folding Cots, Chairs, Sofa-cum-beds and other Hospital Furniture, etc.

FACTORY AND CALENDAR CLOCKS

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone: 252940. Grams: "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

JAGAT ENGINEERING CO.—11, Botawala Bldg., Horniman Circle, Bombay 1. Phones: 252601 and 254790. Grams: "JAGATENDU." For:—Reduction Gears, Acid Resisting Pumps, Engines, Motors, Chains, Factory Clocks, Chemical Engineering Equipment, etc.

FACTORY TIME SAVING DEVICE

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.

FANCY GOODS DEALERS

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.

D. Ram & Co.—Krishna Nivas, New Silk Bazar, P.O. Box 2376, Bombay 2.

Kalyan & Sons.—Bode House, Ormiston Road, Apollo Bunder, Fort.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

Muhammed Ahmed & Bros.—220, Cutlery Bazar, Bombay 3.

New India General Stores.—33, Medows Street, Fort.

Salemohamed Padamsee & Co.—141, Chuckla Street, Bombay 3.

S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.

FELTS (WOOLLEN) PRESSED

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: 'ALERTDEAL'.

JAFFERBHAI & CO.—106, Bhendi Bazar, P.O. Box No. 3055, Bombay 3. Phone: 70524. Grams: "NECESSITY." Dealers in P.V.C. Leather Cloth, Canvas, Motor Accessories, Felt, Celluloid, Aluminium Sections, etc.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MAMAJISON." Importers and Exporters; P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods and all kinds of felt.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

WILLIAMS, G., & CO. PRIVATE LTD.—Steelcrete House, 5th Floor, Sir Dinshaw Vachha Road, Backbay Reclamation, Bombay 1. Phone: 245952. Grams: "BLANWIRE".

FENTS (CUTPIECES)

Ahmed Ebrahim Bros.—88, Chuckla Street, Bombay 3.

Allied Exporters.—Kumud House, 267, Hornby Road, Fort.

Bajaj Bros. Ltd.—Round Building, Kalbadevi.

Bhagwandas Chatrabhuj & Co.—20, Hamam Street, Fort.

Ebrahim Allibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 3.

Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Pherozshah Mehta Road, Fort.

Yacoob Ahmed Bros.—Topiwalla Mansion, Mahomedally Road.

FERTILISERS

BHARAT FERTILISER INDUSTRIES PRIVATE LTD.—12, Nanabhoy Lane, Fort, Bombay 1. Phone: 254819. Godown: 40922; Res. 87098. Grams: "PARASAGE." Use "Bharat" brand Manure mixtures for all crops & gardening.

Bharat Pulverising Mills Private Ltd.—Sayani Road, Bombay.

CHEMBUR BONE & FERTILISER CO., PRIVATE LTD.—Managing Agents: Anderson Dawn & Co., Darabshaw House, Ballard Road, Bombay 1. Phones: Office: 263839; Factory: 67101. Grams: "BYPRODUCT."

Imperial Chemical Industries (India) Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

Nanavati & Co., Ltd.—16, Apollo Street, Fort.

National Fertilisers Ltd.—Shale Building, Bank Street, Fort.

Poonjiaji, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone: 251748. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur, Chemicals, Solvents, Fertilizers, Minerals, Lime-Jute, Products.

Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

T. T. Krishnamachari & Co.—Vulcan Insurance Building, Veer Nariman Road, Bombay 1.

Western Chemical Industries.—Goregaon (East), Bombay.

FILM STUDIO EQUIPMENT IMPORTERS

Patel India Ltd.—190 Hornby Road, Fort.

Photophone Equipments, Ltd.—9, Marine Lines, Bombay.

WESTREX COMPANY, INDIA.—Metro House, Mahatma Gandhi Road, P.O. Box 1232, Bombay 1. Phones: 242273 & 242274. Grams: "WESTREX."

FILTERS

JOHN FOWLER (INDIA) LTD.—Marshalls Building, Ballard Road, Bombay 1. Phone: 263059. Grams: "TRACTION." Sole Selling Concessionaires of "YOKES" Filtration Equipment.

FIRE-BRICKS & REFRACTORIES

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Datson Raviraj & Co.—43, Tamarind Lane, Fort.

J. CHANDRAVADAN & CO.—53, C. P. Tank Road, Bombay 4. Phone: 72633. Grams: "COLORSTONE." Stockists of "A.C.C." Fire Bricks & Clays.

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JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone : 30138. Grams : "SANIPIPES."

Nowroji N. Vakil & Co.—Sheru Castle, Mahomedally Road, Bombay 3.

THAKKAR TRADING COMPANY.—57, Sardar Vallabhbhai Patel Road, Dongri, Bombay 9. Grams : "TITICO." Phone: 74200.

FIRE FIGHTING APPLIANCES (MANUFACTURERS AND DEALERS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL".

Armstrong Smith Private Ltd.—Gresham Assurance House, Sir P. M. Road, Bombay 1.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Crescent Trading Co.—48, Bhajipala Lane, Bombay 3.

EASTERN STORES & TRADING CO. PRIVATE LTD.—115, Nagdevi Street, Bombay 3. Phones : 30065 & 30066. Grams : "ENERGY."

Fleming, John & Co. Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.

INDUSTRIAL COMMERCIAL CORPORATION.—157-59, Narayan Dhuru Street, Bombay 3. Manufacturers of Fire Hose Pipes & G. M. Fittings.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone : 30138. Grams : "SANIPIPES."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kooverji Devshi & Co. Private Ltd.—164, Lohar Chawl, Bombay 2.

Phones : {38975 / 39508 ESTD. 1818 Grams : "FIREX"

KOOVERJI DEVSHI CO. PRIVATE LTD.

164, Lohar Chawl, Bombay 2.

FIRE PROTECTION ENGINEERS.

Manufacturers of:

"FIREX" Fire Extinguishers—Soda Acid, Foam, CO_2/Water & "AUTO-FIREX" C.T.C. types, "President Deluxe", "Fire-Master" & Jeep Fire Engines, Fire Fighting Equipments of all types.

Direct Importers and Stockists of:

Fire Engines, Trailor Pumps "Coventry Climax", Hendry's Helmets, Waterloo Dry Powder Extinguishers, Firewater, Firemen's Wheat Spotlights, "Extinguisher" Fire Hoses and other auxiliaries.

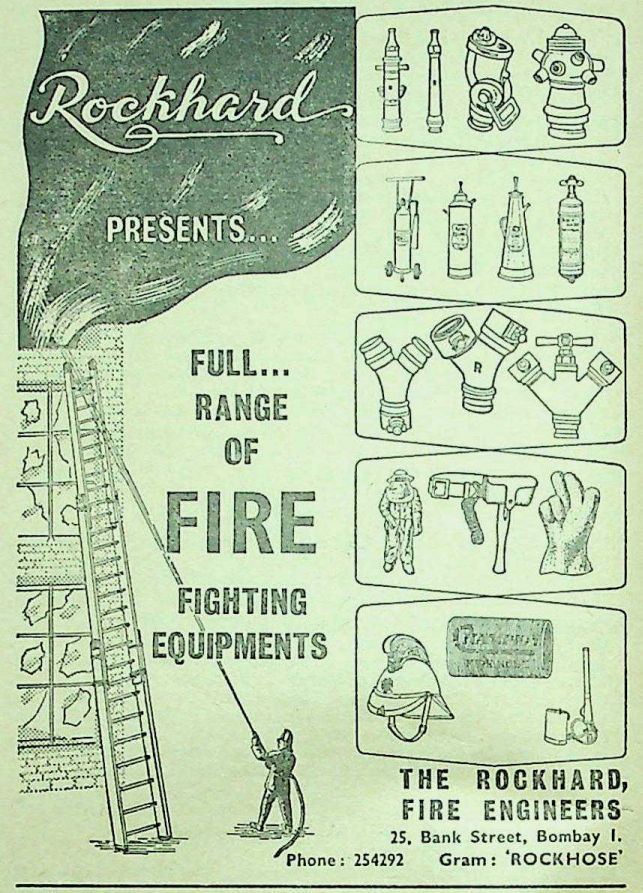
MATHER AND PLATT LIMITED.—Hamilton House, 8, Graham Road, Ballard Estate, Bombay 1. Phone : 26-3555 (2 lines). Grams : "SPRINKLER." Manufacturers of The Grinnell Sprinkler and Fire Extinguishing appliances, etc.

Merchant Bros.—151, Nagdevi Street.

MINIMAX LTD.—Janmabhoomi Chambers, 29, Fort Street, Bombay 1. Phone : 26-2879. Head Office : Mercantile Buildings, 12, Lall Bazar Street, Calcutta 1. Phone : 22-3675.

NATIONAL FIRE EQUIPMENT CO.—11, Bank Street, G.P.O. Box No. 1430, Bombay 1. Grams : "STORESUPPLY." Phone : 254635. Manufacturers & suppliers of entire range of Fire Fighting equipments. Sole agents for Messrs. Albin Motor Co., Kristinehamn, Sweden. Makers of Fire Engines & Trailor Pumps, Messrs. Mandals Reberbane Ch. & Co. Oslo, Norway. Makers of Fire Hosepipes, Messrs. H. Christoferson & Co., Gotheburg, Sweden. Makers of Glass Fibre Fire Resisting suits. Total Export G.m.b.H., Mannheim, Germany. All types of Fire Extinguishers.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Bombay.



SHAH PRATAP & CO.—64, Old Custom House Road, Fort, Bombay. Phones : 255615 & 255616. Grams : "VINPRA."

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

FIRE PROOF DOORS

MATHER & PLATT LIMITED.—Hamilton House, 8, Graham Road, Ballard Estate, Bombay 1. Phone : 26-3555 (2 lines). Grams : "SPRINKLER." Manufacturers of Armoured Fire Door, Steel Roller Shutters, etc.

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone : 255297. Fire Proof Doors of Automatic & Manual type to approved Specification of Fire Insurance Association, Steel Sashes, Trusses and all Structural works.

FIRE WORKS MANUFACTURERS AND DEALERS

ABBASBHOY ABDULHUSEIN KAKA.—Prop., Kaka Fire Works. Factory : 244, Juma Masjid, Bombay 2. Phone : 27778. Grams : 'KAKAFIRE'.

DADA FIRE WORKS PRIVATE LTD. (Estd. 1946).—H.O. : 240-42, Juma Masjid, Bombay 2. Phone : 22744. Grams : "CLEANLIGHT." Manufacturers & Exporters of "DADA" Sparklers & Crackers. Factory : Dadanagar, Fursungi, Taluka Haveli, Dist. Poona.

SHAMA FIREWORKS INDUSTRIES.—142, Samuel Street, Bombay 9. Phone : 71321. Grams : "PHULJARI." H. O. Jalgaon (E.K.). Manufacturers of Crackers, Sparklers, Snakes, Aeroplanes, Chakhers, etc.

FISHING REQUISITES

Cole, R. A., Private Ltd.—22, Apollo Street, Bombay 1. Phone : 251517/8. Grams : "DERAC." Manufacturers of Thermocole Plastic Fishing Floats.

Rasiwalla & Co., M. M. A.—17, Janjikar Street, Mandvi, Bombay 3.

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FIXING PLUGS MANUFACTURERS

REGAL PLUGS MANUFACTURING CO.—Shop No. 1, Gohari Mohalla, Bombay 3. The Largest Quality Manufacturers of "REGAL" Plugs and "REGAL" Plastic.—An Asbestos Plugging Compound Tested by Alipore Test House.

FLASHLIGHT TORCHES, DRY BATTERIES AND TORCH BULBS

BOMBAY NOVELTY STORES.—74, Lohar Chawl, Bombay 2. Phone: 29454. Grams: "BONOSTORES." Distributors of "EVEREADY" Batteries and Flash Light Torches, Bulbs, etc. "FILLIP" Pressure cooking Stoves, Gas Lanterns & Parts.

LIGHT HOUSE.—51, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2. Phone: 30351. Grams: "GRAATWALL." Agents for "HGEC" Brand Electrical Accessories. Manufacturers of "KOTEX" Brand Auto Bulbs, Electrical Bulbs, Stoves, Lanterns and Gas Mantels. Distributors for "UNIFLASH" Torches.

FLEXIBLE SHAFT MACHINES

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort, Phone: 254433. Grams: "DATNARE."

FLEXIBLE TUBES (For ELECTRICAL WIRING)

INDIAN FLEXIBLE TUBE MFG. CO. PRIVATE LTD., THE.—504, Vithaldas Chambers, 16, Apollo Street, Bombay. Phone: 252627. Grams: "BESTCLAY." Manufacturers of Flexible Conduit for Electrical Wiring.

FLORISTS AND SEEDSMEN

Apollo Florist.—5, Colaba Causeway, Fort.

Bombay Floral Co.—Sitakant Mansion, Hughes Road.

Jehangir B. Irani.—Masina Hospital Garden, Victoria Road, Byculla.

Palekar & Co.—Sitaram Building, Near Crawford Market, Bombay 1.

SORABJEE A. M. ERANEE (NERGISH).—Opp. Karanjia & Co., 171-175, Dr. Dadabhoy Naoroji Road, Bombay 1. Phone: 262540. Largest Suppliers of Wreaths, Crosses and Bridal Requisites in fresh and artificial flowers. Stockists: Pocha's Seeds, Garden Implements, Fertilizers, etc.

Victoria Gardens.—Byculla.

FLOORING TILE MFRS.

Duncan Stone Co.—500, Duncan Road, Bombay 4.

J. Chandravadan & Co.—53, C. P. Tank Road, Bombay 4.

Oxy-Chloride Flooring Products Ltd.—Arthur Bunder Road, Bombay 5.

Stonolite Monolythic Products.—Jiji House, Ravelin Street, Bombay 1.

FLUORESCENT TUBES AND FITTINGS MFRS.

DAYLIGHT FIXTURES CORPORATION.—Manufacturers of Fluorescent Light Fittings, Ballasts and Accessories. Mercury Vapour Lanterns and their Ballasts. Show Room and Office: New Citizen Bank House, Carnac Road, Bombay 1. Phones: 265231-2. Grams: "DAYFIX." Factory: Premier Industries, Old Sunderdas Mills Compound, Anandrao Nair Road, Bombay 11.

FLUORESCENT FIXTURES MFG. CO.—Manufacturers of "COOLITE" Fluorescent Lighting Fixtures & Accessories, and Electric Bells & Buzzers. 195-197, Abdul Rehman Street, Bombay 3. Phone: 28974. Grams: "GENINS."

HINDCO LIGHTING INDUSTRIES PRIVATE LTD.—29, New Queen's Road, Bombay 4. Phone: 27061. Grams: "HINDLIGHT." Manufacturers of Fluorescent Lighting Fittings of different types and Accessories. M.V. Lanterns & Accessories and also Low Voltage Transformers.

FOUNDERS AND FOUNDRY EQUIPMENT

Amar Brass and Iron Works.—Office and Works: 6, Sewree Cross Road, Bombay 15. Grams: "SEWREEIRON."

ART METAL WORKS (Estd. 1882).—35-C, Jeraijbhoy Street, Foras Road, Bombay 8. Phone: 71692. Brass & Iron Founders, Builders, Hardware Manufacturers and Engineers & Contractors.

CENTRAL INDUSTRIES.—C/o Parekh Metal Works, 196/D, Gaiwadi, Girgaum, Bombay 4. Iron Brass Founders, Electroplaters and Manufacturers of Electrical Accessories & Hardware.

Central Metal & Wire Products.—60, Lamington Road, Bombay 8.

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort. Phone: 254433. Grams: "DATNARE."

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Guest, Keen Williams Ltd.—Wakefield House, Ballard Estate, Bombay 1.

HARDCASTLE & WAUD MANUFACTURING CO. PRIVATE LTD.—Alice Building, 339, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 255771. Tel. Address: "WAUDCO."

J. D. Jones & Co. (Bombay) Ltd.—Rustom Building, Veer Nariman Road, Bombay 1.

METTALLICA WORKS PRIVATE LTD.—Worli Road, Bombay 18. Phones: 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead Linings of Acid Resisting Containers.

MUNCHERJEE BYRAMJEE & CO. (Estd. 1882).—35-C, Jeraijbhoy Street, near Municipal Workshop, Bombay 8. Phone: 71692. Brass & Iron Founders and Structural & Mechanical Engineers.

Nadirshaw & Bros.—"Silver Talkies" Building, Khetwadi Back Road.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box No. 1909, Bombay 1 (Phone: 251882). Also at Calcutta, New Delhi & Madras. Manufacturers/Dealers of Cupolas, Reverberatory and Electric Furnaces, Sand Conditioning Plants, Moulding Machines, Core Blowers, Pouring Ladles, Conveying Systems, Moulding Boxes, Grinders, Foundry Stores, etc.

P. RATILAL & COMPANY

Moti Mahal, 43, Dhanji Street, Bombay 3

Importers and Dealers of:

COMET CRUCIBLES

Ball-Bearings & Shaftings; Asbestos & Rubber Goods; Beltings; V-Belts; Abrasives; Tools; Bolts; Nuts; Screws; Flour-Grinding Mills; Rice Hullers; Centrifugal Pumps; Oil Engines, Etc., Etc.

Telegrams: "ETERNAL" 'Phone: 39100

Shah Engineering Stores.—88-92, Nagdevi Cross Lane, Bombay 3.

SHREE KARNATAK AGENCIES.—48, Western India House: Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 254220, Controlled Stockists of "FERRO-SILICON." Grams. 'SACHOTI.'

Testeels Limited—Prospect Chambers, Dr. Dadabhoy Naoroji Road, Bombay 1.

Ward Thos. W. (India) Ltd.—Marshall Building, Ballard Road, Fort.

FOUNDRY FLUXES & STORES

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. (Phone: 251882). Also at Calcutta, New Delhi and Madras. Agents in India for "Fusite," Fused Sodium Carbonate Blocks of Tata Chemicals—a TATA Product, and for "HARMARK" Foundry Chemicals & Fluxes. Also now manufacturing in India "PMC" Chemicals & Fluxes, under license from "HARMARK" Manufacturers.

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SHETTY CHEMICAL & ENGINEERING WORKS PRIVATE LTD.—43, Tamarind Lane, Fort, Bombay 1. Phone : 254433. Grams : "DATNARE." Mfrs. of Foundry Flexes, Refractories, Boiler insulation materials, wire brushes, Motor Driven Flexible Shaft Tube Cleaning Equipment and Accessories, etc. Associates : Datson Raviraj & Co. Private Ltd., Bombay.

Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

FOUNTAIN PENS IMPORTERS, MFRS. & DEALERS

Dhiraj Pen Manufacturing Co., Ltd.—Nagardas Road, Andheri (East), Bombay.

ENAYATALI & CO.—262-264, Abdul Rehman Street, Bombay 3. Dealers in all Famous makes Fountain Pens, Inks & Spare Parts including "ENACO" Fountain Pens, Inks, Gum, Carbon Papers, Stationers & Fountain Pen Merchants. Phone : 23759. Grams : "ENAYAT."

GUJARAT INDUSTRIES PRIVATE LTD.—Lalji Mansing Bldg., 6, Lohar Chawl, Bombay 2. Phone : 20956. Grams : "CONNECTION." Manufacturers of High quality Fountain Pens, Nibs and other Spare Parts.

Hornby Fountain Pen Depot.—204, Dr. Dadabhai Naoroji Road, Bombay 1. Phone : 263967. Grams : "CAMELPEN".

INDIA PEN HOUSE.—234, Abdul Rehman Street, Bombay 3. Phone : 39353. Grams : "SHABBIR." Dealers in all famous make Fountain Pens namely Parker, Sheaffers, Waterman, Tiku, College, Istaco and other foreign and Indian Fountain Pens and Inks.

Jhaveri Bros. & Co. Private Ltd. (Established 1914).—Novelties and Gift Specialists. Sole Agents in India for "MONTBLANC" German Made Top Quality Pens, Pencils, Desk Sets and Ink. Three Show-rooms in the City. (1) 345, Abdul Rehman Street, near Crawford Market, Bombay 3. Grams : "MONTBLANC." Phone : 22096.

Kiron & Co., Ltd.—73-75, Chhipi Chawl (Shamshet Street), Near Zaveri Bazar, Bombay 2.

Khokhani & Co.—Sutar Chawl, Ismail Building, Bombay 2.

Mhatre Pen & Plastic Industries.—182, Gaiwadi, Girgaon, Bombay 2.

New Type Fountain Pen Depot.—116-18, Narayan Dhuru Street, Barbhai Moholla, Bombay 3.

Oriental Traders.—Anand Bhuvan, Princess Street.

Premier Fountain Pen Depot.—296, Sheikh Memon Street, Bombay 2.

Raja Fountain Pens Depot.—115, Shamshet Street, Bombay 2.

Ramniklal C. Kothari & Co.—16, Apollo Street, Bombay 1.

R. Punjabi & Co.—Sharuf Mansions, Princess Street, Bombay 2.

United Commercial Co.—48, Mangaldas Building, 1, Princess Street.

FREIGHT BROKERS

ABRAHAM, SHAH & SONS.—Hague Building, Ballard Estate, Sprott Road, Bombay 1. Phones : 26-1837, 26-2379 & 26-3994.

DEWAN & SON, L.—Nanabhai Mansion, Sir Phirozshah Mehta Road, Fort. Phones : 261341, 263469 and 265405. Cable : "RAILCUMSEA."

KANJI JADHAVJI & CO.—Musjid Bridge, Mandvi, Bombay 9. Phone : 30097 & 22081. Grams : "GITA."

N. JAMNADAS & CO.—16, Bank Street, Fort. Phones : 253871-72-73. Grams : "BAXICO." Freight Brokers and Travel Agents. Recognised by I.A.T.A./I.A.C., Govt. of India & All Steamship Companies. Members : A.S.T.A., F.I.A.V., T.A.A.I., P.A.T.A. & Freight Brokers Association.

PITAMBER & CO.—Scindia House, Ballard Estate, Bombay. Freight and Chartering Brokers. Brokers to the Scindia Steam Navigation Co., Ltd. Phone : 261066. Gram : 'SAGARNUR'.

PITAMBER LALJEE & SONS.—Bharat House, 104, Apollo Street, Bombay 1. Phones : Office : 255426, Res.: 254230. Grams : "SAFESHIP." House Brokers to Bharat Line, Bombay.

Prabhulal L. Pandya & Co.—11, Bank Street, Fort, Bombay.

Purdie & Co.—Freight Brokers, 16, Elphinstone Circle, Fort.

FRESH AND FROZEN FISH AND MEAT (IMPORTERS AND EXPORTERS).

FRUIT FARM PRODUCTS CO.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone No. 262120.

FRESH VEGETABLES AND FRUITS (IMPORTERS AND EXPORTERS).

FRUIT FARM PRODUCTS CO.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone No. 262120.

FUEL INJECTION EQUIPMENT

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phone : 88906. Grams : "RAJSPARES." Manufacturers of Fuel Injection Equipment and Diesel Engine Spares.

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone : 255374. Grams : "GODGRACE."

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreenivas House, Waudby Road, Bombay. Phone : 26-2711 (8 lines). Offices at : Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

ELVE BUSINESS CONTACTS CORPORATION.—Elve Chamber, Green Street, Bombay 1. Phones : 252088 & 254655. Grams : "ELBUSCON." Sole Agents in India for "BUKO" German Fuel Injection Equipment. Importers & Stockists of spare parts for all types of Diesel Engines—Industrial, Marine, Road, Vehicular and Tractor Types.

Everest Engineering Corporation.—12, Hornby View Building, Gunbow Street, Fort.

HONESTY TRADING CORPORATION.—Beaumon Chambers, Medows Street, Fort. Phone : 253534 and 252018. Grams : "HOTRACO." Sole Agents for H.T.C. Brand and MPD Brand Fuel Injection Equipment for all types of Diesel Engines and Tractors.

Khimandas Jagumal & Sons.—12, Gunbow Street, Bombay 1.

K. SUCHDE BROTHERS.—82, Apollo Street, Fort, Bombay 1. Phone : 252712. Grams : 'SUCHBROS'. Spares for all well-known Industrial Engines, Sales & Service for FUEL Injection Equipments—'BRYCE', 'BOSCH', 'CAV' & 'FIL'. "WELLWORTHY" Pistons, Rings & Liners for Industrial Engines & Tractors. Madras Branch : Industrial Engineers, 325, Thambuchetty Street, Phone : 4783.

Machinery Sales Corporation.—3, Tamarind House, Tamarind Lane, Fort, Bombay 1.

SUPREME INDUSTRIAL WORKS.—196/K, Gaiwadi, Girgaum, Bombay 4. Manufacturers of Gears & Specialists in all kinds of Worms & Worm Wheels.

UNITED ENGINEERS.—104, Apollo Street, Fort. Phone : 253204. Grams : "POWEREQUIP." Sole Agents in India for FM Equipments manufactured by Friedman & Maier (Austria).

FURNISHING FABRICS

"DECORA" RAVAL TILES AND MARBLE PRIVATE LTD.—Edena, 97-A, Queen's Road. Phone : 242310.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

FURNITURE DEALERS AND MANUFACTURERS

ANAND TIMBER TRADERS.—170, Reay Road, Bombay 10. Office Phone : 42203. Res. 60144.

Apollo Furnishing Co.—Harishankar Lodge, opp. Charni Road Railway Station, 23, Queen's Road.

Art Flooring & Construction Co.—16, Sleater Road, near Grant Road.

Amzel Private Ltd.—Lotus House, Marine Lines, Bombay 1.

Bhagwandas J. Mistry.—16, Banaji Street, Fort.

BHAWSAR HOME FURNISHERS & DECORATORS.—66, Karwar Street, Mint Road, near G.P.O., Fort, Bombay. Factory : Famous Cine Building, Haines Road, Mahaluxmi, Bombay 11. Phone : 263771.

Bombay Furniture House.—132-138, Mutton Street, Null Bazar.

Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.

D. C. BATLIWALA & CO.—12, Bruce Street, Fort, Bombay 1. Phone : 253732. Furniture Hirers and for sale.

Dawson & Co.—24, Parsee Bazar Street, Bombay 1.

Dewjee Canjee & Co.—156, Sheriff Dewjee Street & Mohamedali Road.

Ebrahim Jaffer & Co.—208, Chuckla Street, Bombay 3.

E. PEERBHOY & SONS.—Prop., Indian Durries Emporium 64, Mohamedali Road, Shahru Castle, Bombay 3. Phone : 23806. Grams : "INDIAWEAVE".

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Eyres, E., & Co.—Bellasis Road, Bombay 8.
Gujarat Furniture Works.—Satar Sea View, 45, Chowpatty Sea Face.
Hindustan Fabrics & Stores Private Ltd.—Fulchand Nivas, Chowpatty Sea Face, Bombay 7. Grams: "SWAKALA". Phone: 27108.

IDEAL FURNISHING CO.—"Back Bay View," 3, New Queen's Road, Bombay 4. Phone: 27218. Furniture Makers, Hirers and Upholsterers.

IDEAL WOODCRAFTS.—17/1st, Parsiwada, Bombay 4. Grams: "KIVGROUP." Phone: 72180.

INTERFURN.—Interior Decorators and Furniture Manufacturers, 361, Dr. Dadabhoy Naoroji Road, Fort.

Jamshedji F. Billimoria & Co.—290, Lehri Building, Sandhurst Road.

Jayanand Khira & Co., Ltd.—Kothare Building, Sandhurst Bridge, Bombay 7.
Kamdar Limited.—Industrial Building, opp. Church Gate, Fort.

KANTILAL KARIA & CO.—Furnishers and Interior Decorators, Chowpatty View, Chowpatty, Bombay 7. Phone: 27183.

Kay & Co.—42, Custom House Road, Fort.
Khira Steel Works Private Ltd.—H.O. & Factory: Ghodbunder Road, Santa Cruz, Bombay 23. Grams: 'STEELCASE'; Phones: 88002 & 89569.

Mahomedally Dadabhai & Son.—Jamnadas Building, 70-72, Mutton Street, Null Bazar, Bombay 3.

MAROO & CO.—Household and Office Furniture Buyers & Sellers. Noble Chambers, 13, Ghogha Street, Fort, Bombay 1.

Mayfair Furnishing Company.—Great Western Buildings, Apollo Street, Fort.
McKenzies, Ltd.—Sewri.

MINERVA FURNITURE WORKS.—Furniture Makers and Interior Decorators, 67-71, Queen's Road, opp. Marine Lines Station, Bombay 2. Phone: 28908.

Mitha & Co.—Opp. Suryodaya Mills, Tardeo Road.
National Steel Equipment Co.—Naigaum Road (Near Spring Mills), Dadar, Bombay 14.

NOORMOHAMEDS.—House of Fine Furniture—(Estd. 1885), 109/A-111/B, Mohamedally Road, Bombay 3. Phone: 38324. Grams: "NOORDECOR." Furnishers, Cabinet Makers & Interior Decorators. Importers & Exporters.

NU-PLASTICS.—17/1st Parsiwada, Bombay 4. Grams: "KIVGROUP." Phone: 72180.

OOSMAN BROS.—Hasham Bldg., 107-B, Mohamedally Road, Bombay 3. Phone: 39254. Grams: "FURNIKING". Manufacturers of Highclass Office and Household Furniture. Interior Decorators, Furnishers and Importers & Exporters.

PREMIER FURNISHING & DECORATING PRIVATE LTD.—7, Brabourne Stadium, Churchgate Street Extension, Fort. Phone: 245632. Manufacturers & Suppliers of all kinds of Furniture. Stockists of DUNLOPILLO Products.

Raja Furniture Mart.—Foolchand Nivas, Chowpatty Sea Face, Bombay 7.
Roberts & Co. Private Ltd., John.—Jorawar Bhuvan, 93-B, Queen's Road
Royal Carpets & Cane-Furniture Manufacturing Co.—Mani Bhuvan, Hughes Road, Bombay 7.

SHERATON & CO.—Works & Office: 131, Medows Street, Fort, Bombay. Phone: 25-5430. Furniture & Billiard Table Manufacturers.

SteelAge Industries Ltd.—Opp. Post Office, Mazagaon, Bombay.
Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.
Tahilsingh Hanspal & Co.—Lady Hardinge Road, Bombay 28.

Phone: 67284 Grams: "WOODPRINT" Chembur.

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FURNITURE UPHOLSTERY MATERIALS

Hindustan Plastic Co.—95, Abdul Rehman Street, Bombay 3. Stockists of P.V.C. Plastic Sheetings & Leather Cloth. Grams: "SUEDE". Phone: 20926.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MAMAJISON." Importers & Exporters: P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness Goods & all kinds of Felt.

Mohamedally Noorbhai & Co.—144-148, Ibrahim Rahimtoola Road, Bombay 3; Phone: 71568.
Nagree Ltd.—Nagree House, 50, Custom House Road, Fort.
Oriental Art Leather Depot.—Govind Building, Princess Street, Bombay 2.
P. Shah & Co.—Dwarkadas Mansions, 443, Sandhurst Road, Bombay 4.
Ratanlal Harilal Dalal & Co.—456, Peerbhoy Mansion, Sandhurst Road, Bombay 4.

GARAGE TOOLS & EQUIPMENT

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING" Phone: 20974. Importers & Stockists of Chain Pulley Blocks, Garage Tools, Fibre Sheets, Rods, etc.

SHAH & SUNDAR.—7/10, Horniman Circle, Botawala Building, Fort, Bombay 1. Phone: 254226. Sole Agents for "REDEX" Oil & Additive.

GARDENING REQUISITES

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 299990. Grams 'ALERTDEAL.'
Dattatraya Industries Private Ltd.—Sitaram Building, Dadabhai Naoroji Road, Bombay 1.
Dhani Ram & Sons.—236, Musjid Bunder Road, Bombay 3.
Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.
Marine Sports.—101, 1st Marine Street, Dhobi Talao, Bombay 2.
PALEKAR & CO.—Sitaram Building, near Crawford Market, Bombay 1. Phone: 262236. Grams: "RUDRA." Stockists of Flower & Vegetable Seeds, Lawn Mowers, Garden Tools, Insecticides & Fertilizers. Specialists in Garden Lay-outs.
Reliance Trading Co.—Vithal Sayana Building, Lohar Street, Bombay 2.

GAS PLANTS

GANSONS PRIVATE LTD.—6, West View, Dadar (C. Rly.), P.O. Box 5576, Bombay 14. Phone: 63971. Grams: "INMAG." Manufacturers of "GS" Gas Plants for Laboratories, Industries and Canteens.

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A. MOHAMMED & CO.—213, Abdul Rehman Street, Bombay 3. Grams: "AMCOVICE." Head Office: 26, Netaji Subhas Road, Calcutta 1. Phone: 222406. Grams: "POLISHER." Direct Importers & Stockists of Bishops' Andmant Gauge Glasses, Penberthy Type Injectors & Boiler Fittings.

GAUGES & INSTRUMENTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 299990. Grams: 'ALERTDEAL.'
Fleming, John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
EVERGREEN CORPORATION.—9/15, Pickett Cross Road, P.O. Box No. 2733, Bombay 2. Grams: "GREENLEAVE." Pressure Gauges and Recorders for Gas, Air & Vacuum.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
Greaves Cotton & Co., Ltd.—1, Forbes Street, Bombay 1.

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Industrial Mill Gin Stores.—Industrial House, 51/53, Nagdevi Cross Lane, Bombay 3.

KALA INDUSTRIES (BOMBAY).—153, Narayan Dhuru Street, Bombay 3. Phone : 20893. Grams : "HIRAVASSO." Reliable House for Production and Inspection Gauges of world known makes.

M. SOMNATH & CO.—94, Lohar Chawl, Bombay 2. Phone : 20375. Grams : "SAMARTHYA," Bombay 2. Importers & Stockists of Surface Plates Slip Gauges, Micrometers, Calipers, Ring & Plug Gauges, Dial Testing Indicators, Straight Edges, Internal Dial Gauges, measuring Instruments, Precision Water Levels, and all sorts of measuring Instruments & Engineering Tools.

GEARS MFRS. & GEAR CUTTING SPECIALISTS

JAGAT ENGINEERING CO.—11, Botawala Bldg., Horniman Circle, Bombay 1. Phones : 252601 and 254790. Grams : "JAGATENDU." For Reduction Gears, Acid Resisting Pumps, Engines, Motors, Chains, Factory Clocks, Chemical Engineering Equipment, etc.

SUPREME INDUSTRIAL WORKS.—196/K, Gaiwadi, Girgaum, Bombay 4. Manufacturers of Gears and Specialists in all kinds of Worms & Worm Wheels.

GERMAN SILVER UTENSILS MFRS.

BOMBAY BRASS & METAL WORKS.—2nd Panjrapole Street, Bombay 4. Phone : 72072. Grams : "COPPERPOTS." Manufacturers of and Specialists in all kinds of Non-ferrous Metalware.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors : Dun Aluminium Factory, 225/27, Tardeo Road, Bombay 7. Manufacturers of "Cycle" Brand Aluminiumwares & "Queens" Brand Brasswares and other non-ferrous metalware. Phones : 41618 & 73220. Grams : "CYCLEBRAND."

GLASS

ABDOOLALLY NOORBHOY.—122-124, Abdul Rehman Street, Bombay 3. All kinds of Glass & Plywood Merchants. Government & Railway Contractors. Phone : 23156. Grams : "PATTYMART." Works : 248-A, Duncan Road, Bombay 8. Phone : 41980.

ALIBHOY KADIBHOY KACHWALA (Estd. 1922).—84, Abdul Rehman Street, Bombay 3. Direct Importers and Stockists of all kinds of Glass, Mirrors, Glass Tiles, Hardboards, Glass Block and Glass Cutters, Welding Glass, etc. Phone : 20803. Grams : "BELGLASS."

Bawa Glass Co.—Ratan Building, Nagdevi Street, Bombay 3.

DAUDBHOY M. TAYEBALLY.—110, Abdul Rehman Street, Bombay 3. Phone : 34336 (Office); 71259 (Res.). Grams: "SAFEGLASS."

KESHOWDAS HASSANAND KARACHIWALA.—256, Masjid Bunder Road, Bombay 3. Phone : (Mandvi Shop) 28855. Grams : "KESHOGLASS." Direct Importers and Stockists of all kinds of Sheet and Plate Glasses, Hardboard, Plywood, Diamond Glaziers, Motor Glasses, etc.

M. A. KACHWALLA & SONS.—97-99, Dhanji Street, Bombay 3. Phone : 34395. Grams : "DIADEM". Direct Importers & Stockists of Glass, Plates, Vibrolite Sheets, Window Mirrors figured, Triplex (Safety) and all Sorts of Glasses & Hardboards. Manufacturers' Representatives for "Glasef" Indian Toughened Glass.

MAHOMEDALLY VALIJI ARSIWALA.—76, Abdul Rehman Street, Bombay 3. Phone : 38400. Direct Importers and Dealers in all kinds of Glasses, Plywood and Picture Mouldings; Government & Railway Contractors. Godowns at: 2/4, Temkar Street, New Nagpada, Bombay 8 and at 145, Jamli Mohalla, Bapukhote Street, Bombay 3.

Premier Glass Traders.—Importers of all kinds of Glass, Frames, Plywood, Mounts, Glazier's Diamonds, etc. 76/78, Dhanji Street, Bombay 3. Grams : "REASON." Phone : 23845 (Office); 71837 (Res.).

SAMIR GLASS TRADERS.—21-23, Dhanji Street, Parsi Gully, Bombay 3. Phone : 20785. Grams : "SAMIRGLASS." Wholesale and Retail dealers in all kinds of Glasses, Glass Cutters & Hardboards.

Salemahomed Padamsee & Co.—141, Chukla Street, Bombay 3.

TEK TRADING CORPORATION.—139, Abdul Rehman Street, Bombay 3. Dealers in all kinds of Glasses, Plywood, Hardboard & Masonite. Government & Railway Contractors. Manufacturers' Representatives for "Glasef" Indian Toughened Glass.

YUSUFALI GOOLAMHOOSEN ARSIWALLA.—105, Abdul Rehman Street, Bombay 3. Grams : "GLASSAGE." Dealers in Glasses, Plywood & Hard Board. Stockists of all kinds of glasses, Window sheets, Plate, Wired, Ribbed, Figured, Opal, Vitrolite, Triplex, Mirrors, Hardboard, Steel folding Chairs, etc.

GLASS FACTORIES

AJIT GLASS WORKS PRIVATE LTD.—Office : 99, Haji Ahmed Devji Bldg., 2nd Floor, Mohamedally Road, Bombay 3. Phone : 29758. Grams : "AJITWORKS". Factory : Ghodbunder Road, P.O. Jogeshwari, Bombay 60. Phone : 86584. Manufacturers of Pressed ware, Glass Tumblers, Glass Jars, Bottles of all kinds suitable for Pharmaceutical Trade, Cosmetic, Ink, Milk, Squashes and Aerated Water Trade, etc.

HALDYN INDUSTRIES PRIVATE LTD.—344, Cadell Road, Bombay 28. Phone : 60340. Grams : "HYDROXIDE." Manufacturers of Quality Amber Bottles & Vials.

PEARL GLASS MANUFACTURING CO.—Patel Estate, Goregaon (East), Bombay. Phone : 84363. Office at : 44, Cawasji Patel Street, Post Box No. 1627, Fort, Bombay 1. Phones : 253082 & 253772. Grams : "ASHWINCO." Manufacturers of all kinds of Glassware and Bottles; Process Works : 51, Bhandari Street, near Round Temple, Bombay 4. Depot : 108, Ardeshir Dady Street, near C.P. Tank, Bombay 4. Phone : 73741. Workshop : 8A, Dhobi Wadi, Seth M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone : 29827.

VAZIR GLASS WORKS LTD.—9, Wallace Street, Fort, Bombay. Phone : 263031. Grams : "SEVNETSIX." Manufacturers of quality Glass Bottles & Glasswares. Aerated Water Bottles a Speciality.

GLASS MFRS. AND INDENT OPERATORS

Bombay Glass Works Ltd.—Manmala Tank Road, Bombay 16.

Chunilal Khanna & Co.—Sarasvati Nivas, Thakurdwar Road, Bombay 2.

International Chemical Co.—Tulsi Pipe Road, Matunga, Bombay 16.

Oriental Import & Export Agency.—52, Shri Krishna Nivas, New Silk Bazar, Kalbadevi Road, Bombay 2.

Salemahomed Padamsee & Co.—141, Chuckla Street, Bombay 3.

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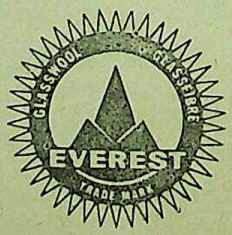

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All-India Trading Corporation.—25, Bank Street, Fort. Grams: "Autoglass". Agents for Paisa Fund Glass Products.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bawa Crockeries Ltd.—89, Mohamedali Road, Bombay 3.
Central Bottle Trading Co.—Padamsi Annexe, Chuckla Street, Bombay 3.
Chunilal Desai & Co.—Gool Mansion, Homji Street, Fort.

CRYSTAL HOUSE.—99C/D, Mohamedali Road, Bombay 3. Dealers in Glassware, Crockery, Enamelware, Kitchenware, Cutlery, Plasticware, Thermos Flasks, etc.

Currimbhoy, L., & Co.—156, Chuckla Street, Bombay 3.

DOSSA, S. R., & CO.—186, Sheriff Devji Street (Chakla), Bombay 3. Phones: 39248 (Office), 245491 (Residence).

EMBI DESAI & CO.—Office: Dadyseth House, Cawasji Patel Street, Fort, Post Box No. 1116, Bombay 1. Grams: "Ashwinco." Phones: 253082 and 253772. Dept.: 108, Ardeshir Dady Street, near C.P. Tank, Bombay 4. Phone: 73741. Process Works: 51, Bhandari Street, near Round Temple, Bombay 4. Factory: Patel Estate, Goregaon (East), Bombay. Phone: 84363. Workshops: 8A, Dhobi Wadi, Seth M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone: 29827. Ahmedabad Office: Jayabhuvan, Inside Balahanuman, Ahmedabad.

GANDHI LAHERCHAND NANCHAND.—Head Office: 182, Sheriff Devji Street, Bombay 3. Phone: 20195. Grams: "GLASSWARE." Branch: 1605/11, Tankshal Pole, Kalupur, Harish Niwas, Ahmedabad 1. Grams: "ENAMELWARE." Glassware Merchants and Distributors for Ogale Glass Works Ltd. for Bombay, Bengal, Gujarat & Saurashtra.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
M. Dialdas & Sons.—190, Princess Street.
Moosa Omer & Co.—Junction of Mahomedally & Carnac Roads.
Saify Glass Palace.—Ebrahim Building, Mohamedalli Road, Bombay 2.
Salemahomed Padamsee & Co.—141, Chakla Street, Bombay 3.
Saubhagya Kankan Store.—27/A, Swadeshi Market, Kalbadevi Road.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.
Shivji, K. S., & Co.—144-46, Chakla Street, Bombay 3.

TALWARKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay 1. Phones: 253367 & 254710. Grams: "PUMPENAMEL."

Universal Glass & Industrial Corporation.—327, Hornby Road, Fort.
Vazir Glass Works, Ltd.—Prospect Chambers, Hornby Road, Fort.

VITRUM PRIVATE LTD.—Hanvant Bhuwan, Nepean Sea Road, Bombay 6. Grams: "VITGLASS."

GLOVES & GOGGLES FOR INDUSTRIAL WORKERS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phones: 264555 & 263795. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 345693. Manufacturers of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

GLYCERINE

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Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.
Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort, Bombay.

GOLDSMITH AND JEWELLERS TOOLS

SHAH TRADING CORPORATION.—Oomrigar Building, 1st Floor, opp. Crawford Market, Bombay 3. Goldsmith Tools and Hardware Merchants.

GRAIN AND SEED MERCHANTS

Bhanushali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Birla Bros., Ltd.—State Bank Annexe, Bank Street, Fort.
Damji Mavji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
Dewji Dhanji & Co.—Kilachand Mansion, 284, Kalbadevi Road.
Dhanpatmal Jawaladas.—Court House, Carnac Road, Dhobi Talao.
Grain Merchants' Association.—Musjid Bunder, Mandvi.
Gulam Rasul Allahbux.—1-B, Bachooali House, Nowroji Hill Road No. 1, Bombay.
Haji Sattar Haji Peermahomed.—91, Rangoonwalla Building, Mahomedali Road, Bombay 3.
Hariram Gopalji & Co.—110, Chineh Bunder.
Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla.
Joshi Jivandas Gangaram & Co.—282, Narsi Natha Street, Bombay 9.
Khimji Poonja & Co.—Wadia Building, 17/19, Dalal Street, Fort.
Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
Manekji Nensey & Co.—172/86, Argyle Road, Bombay 9.
Meghji Hirji & Co.—21, Chinch Bunder Road.
Nappoo Nensee & Co.—83, Clive Street, Bombay 9.
Narandas Rajaram & Co.—Navsari Chambers, Outram Road.
Oomedchand Kashiram & Co.—Mudi Bazar, Mandvi, Bombay 3.
Padamshi Pancharia & Co.—Laxmidas Narsi Building, 182-184, Walkeshwar Road.
Pavri Sons & Co.—95/97, Bazargate Street, Fort.
Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
Premji Bhanji & Co.—Ardeshir Mansion, Bhat Bazar, Bombay 9.
Premji Haridas & Co.—Bhanushali Building, 168, Argyle Road, Bombay 9.
Ralli Bros., Ltd.—21, Ravelin Street, Fort.
Sarvajanik Grain Stores.—190, Doctor Street, Null Bazar.
Shah Ravji Jivraj.—282, Narshi Natha Street, Bombay 9.
Shamji Velji & Co.—Anand Bhuvan, Narshi Natha Street, Bhat Bazar.
Shivjee Bhara & Co.—107, New Chinch Bunder Road.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
Vaziralli Ltd.—Prospect Chambers, Hornby Road, Fort.
Velji Kalidas & Sons.—177, Samuel Street, Mandvi.
Yuvak Stores, Shri.—399A, New Hanuman Lane, Kalbadevi Road.

GRAMOPHONE DEALERS AND MANUFACTURERS

Anandji Kalyanji Vara.—Hathi Building, 448, Kalbadevi Road.
Bombay Phono and General Agency.—520-22, Kalbadevi Road.
Britannia Talking Machine Co.—407, Kalbadevi Road, Bombay 2.
Columbia Gramophone Company Ltd.—Universal Building, Sir Phirozshah Mehta Road, Fort, P. O. Box 1163, Bombay.
Ghaisas, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.
Gramophone Co., Ltd.—Universal Fire & General Insurance Co.'s Building, Sir Phirozshah Mehta Road, Fort.
Jawahar & Company.—133, Princess Street, Bombay 2.
Masters Trading Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Metro Musics.—545, Kalbadevi Tram Junction, Dhobi Talao.
National Gramophone Record Manufacturing Co., Ltd.—110, Medows Street, Fort.
Oriental Watch & Gramophone Co., The.—Opp. Western Rly. Station, Dadar, Bombay 14.
Rhythm House, The.—Opp. Army & Navy Stores, Fort.
Rose, S., & Co.—28, Rampart Row, Fort.

GREETING CARDS

GANDHI STATIONERY MART.—62, Bazargate Street, Dwarkadas Lane, Bombay 1. Manufacturers of Comet Visiting, Invitation, Greeting, Wedding Cards, Inland Air Letters.

SHABBAR TRADING CORPORATION.—206, Abdul Rehman Street, Bombay 3. Manufacturers of X'mas, New Year, Divali, Idd, Sankrant, Papeti, Birthday and Wedding Invitation Cards. Phone: 22811. Grams: "GREETCARDS."

S. R. BROTHERS.—Manufacturers, Exporters, Agents, 406, Commerce House, Medows Street, Fort, Bombay 1. Grams: "GODMESSAGE." Phone: 38946. Our speciality is to supply exquisite Diwali, X'mas, New Year Greeting Cards and Novel Publicity Gifts to leading Firms.

TAJ PRINTING WORKS.—46-A, Cawasji Patel Street, Fort, Bombay 1. Phone: 252432. Commercial and Art Printers and Manufacturers of Invitation Cards, Greeting Cards and Calendars.

THACKERSONS.—104 106, Green Street, Behind State Bank of India, Fort, Bombay 1. Manufacturers of Quality X'mas, New Year, Divali, Birthday & Wedding Cards of all types. Grams: "WEDCARDS."

VALABDAS TIRATHDAS.—60, Kamla Nehru Cross Road, Kandivli, Bombay 67. Grams: "GREETINGS," Kandivli, Bombay 67. Importers & Manufacturers of Greeting Cards.

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Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

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Bharat Pulverising Mills Private Ltd.—Sayani Road, Bombay.

D. Kaniyalal & Co.—45, 3rd Cavel Cross Lane, Kalbadevi Road, Bombay 2.

Gujarat Clay Mills.—246, Reay Road, Bombay 10.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

PANCHSHILA PULVERISING MILLS.—Plot No. 4, Messent Road, Sewree East, Bombay 15. Phone: 34753.

Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

Standard Pulverising Co.—Atlas Mills Compound, Reay Road, Bombay 10.

GUMS WHOLESALERS

Balumal Santsaram.—204, Samuel Street, Vadgadi, Bombay 3.

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay.

Chandulal & Co., Lakhwala.—313, Samuel Street, Vadgadi.

Damji Mawji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.

DEVIDAS VIRCHAND.—22-26, Dariasthan Street. Grams: "EVERGUM," Bombay 3. Importers & Exporters. Dealers in all sorts of Gums, Spices, Textile & Wool.

Dhirren & Co.—Lakhani Building, 34, Cawasji Patel Street, Fort.

Gopaljee & Co.—218, Samuel Street, Vadgadi.

Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.

Javeri Traders.—P.O. Box No. 1977, Lakhani Building, 34, Cawasji Patel Street, Fort, Bombay 1.

Joshi Jivandas Gangaram & Co.—282, Narshi Natha Street, Bombay 9.

Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.

Lalit Kumar & Co.—86, Kazi Sayed Street, Bombay 3.

Laljee Godhoo & Co.—213, Samuel Street, Vadgadi.

N. DEVIDAS & CO.—44, Dariyasthan Street, Bombay 3. Phone: 38484. Grams: "ENGUM." Dealers in all sorts of Gums, Saffron, Cassia, Cloves & Spices.

Narandas Kesurdas & Sons.—222/24, Vadgadi.

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Ram Agency.—200, Kazi Sayed Street, Bombay 9.

Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

Stewart's Laboratories.—327, Hornby Road, Fort.

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Valabhdas Tejpal.—219, Vadgadi, Bombay 3.

Varjiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.

Vasantlal Vadilal & Co.—215/17, Samuel Street, Vadgadi, Bombay 3.

Vijaysinh Virchand.—248, Samuel Street, Vadgadi, Bombay 3.

GUNNY BAGS, HESSIAN CLOTH & TWINE MERCHANTS

KORJI DAMJI.—Katha Bazar, Oos Gali (Syed Mukri Street), Bombay 9. Phone: 22349. Grams: "PUNYAGANGA." Dealers in old and new gunny bags, hessian cloth, jute twine, canvas, etc.

MANGALDAS VELJI & CO.—139-141, Kazi Sayed Street, Khand Bazar, Bombay 3. Phone: 23939. Grams: "MANGWEL." Stockists of Empty New and Old Gunny Bags.

SHAMJI KALYANJI & CO.—67, Bhandari Street (Koliwada, Mandvi), Bombay 3. Phone: 39637. Grams: "SHAMKALYAN." Manufacturers, Suppliers & Commission Agents. New and Second hand Gunny bags, Hessian cloth, Jute Twine and empty Cement bags, Tarpaulins, Polythene and Paper lined Water proof Bags. Branches at Poona and Nagpur.

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BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 23193.

HANDLOOM & POWERLOOM ACCESSORIES

R. R. JINDE & CO.
14 Mohan Niwas, Chandavarkar Rd., BOMBAY-19
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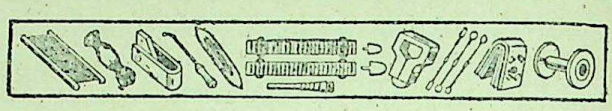

Suppliers & Stockists of Handloom Weaving Accessories:—

Shuttles	Steel Reeds	Dobby Pegs
Pirns	Reed Dents	Dobby Lattices
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Cotton Healds	Buffers	Dobby Twine
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Carding Machine	Spinning Charkhas	& Frame-looms.

Useful for Cotton & Woollen Weaving Industries.

HARD BOARD

ANIL HARDBOARDS LTD.—Manufacturers of soft, hard and tempered board and by-products. Lakshmi Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 26-3677. Grams: "ANILHARDBO," Bombay. Manufacturers of Hard and Soft Boards. Managing Agents: Jolly Industrial Agencies Private Ltd., Lakshmi Insurance Bldg., Sir Phirozshah Mehta Road, Bombay 1.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711. (8 lines). Offices at Madras, Calcutta, New Delhi.

FINLAY, JAMES & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Post Box No. 73, Bombay 1. Phone Nos. 251255-59.

HINDUSTAN PLYWOOD & METAL DEPOT.—Wholesale & Retail Dealers in Teak, Walnut & Champ faced Block Board & Plywood, Hard Board, Masonite, Plywood, Teak Plywood, Insulation Soft Board, Folding Chairs, Chair Seats, Cement Sheets, etc. 301, Shree Krishna Niwas, Corner of Abdul Rehman Street & Masjid Bunder Road, Bombay 3. Grams: "PLYDEPOT." Phone: 30041—Ext. 38.

MAHOMEDALLY VALIJI ARSIWALA.—76, Abdul Rehman Street, Bombay 3. Phone: 38400. Dealers in all kinds of Hard Boards.

NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Expanded Metal, Galvanised Brass, Copper Wire-nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire-nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Plywood, Woven Wire Fence and Wire-netting, Decorative Plywood for furniture as a Teak, Mahogany, Walnut in all sizes and thickness. Phone: 34968.

Samir Glass Traders.—21-23, Dhanji Street, Parsi Gully, Bombay 3.

SUNDERLAL & CO.—121, Abdul Rehman Street, Bombay 3. Phone: 38504. Grams: "Sunderjati." Direct Importers and stockists of plywood, teak plywood, block boards, asbestos cement sheets, hard boards, masonite boards, etc. Folding Chairs & Chair Seats our speciality.

Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

Yusufali Goolam Hoosen Arsiwalla.—105, Abdul Rehman Street, Bombay 3.

HARDWARE DEALERS AND IRONMONGERS

A. M. MOTIWALLA & CO.—213, Nagdevi Street, Bombay 3. Phone: 27760. Shipchandlers, Engineering Tools, Hardware & Pipe Fittings Merchants and general stores suppliers.

Abbas & Brothers.—51, Bhajipala Street, Bombay 3.

Abbas, A., & Brothers.—127, Nagdevi Street, Bombay 3.

Abbasbhoy Akbarally & Co.—Kika Street, 85, Gulalwadi.

Abbasbhoy Kaderbhoy & Co.—97, Bhajipala Lane, Bombay 3.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL".

Abdulhusein Esoofally Contractor.—91/93, Bapu Khote Street, Bombay 3.

Abdool Hoosein Jiwajee & Co.—241, Nagdevi Street, Bombay 3.

Abdulhusain Kamrudin.—183, Janjikar Street, Khokha Bazar, Bombay 3.

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Abdulla A. Baker & Co.—89, Bhajipala Street, Bombay 3.
Abdullabhai Faizullabhai Ltd.—Khokha Bazar, Bombay 3.
Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.
Adamally Gulamhusein.—Sarang Street, 191, Khokha Bazar, Bombay 3.
Adamji Lookmanji (Iron & Steel) Ltd.—Rahimtoola House, Homji Street, Fort.

AGARWAL COMMERCIAL CORPORATION.—35, Bibijan Street, Bombay 3. Phone: 30041 Ext. 11. Grams: "HACKSAW." Dealers in Hardware, Hand Tools, Precision & Measuring Tools, Metal Working Tools, Power Driven Tools, Portable Electric Tools, Garage Tools, Machine Tools, Lathes, Drilling Machines, Dog Chucks & Hacksaw Blades, Vices, Files, Saws, Chain Pulley Blocks, Reamers, Taps & Dies, etc.

Ahmedally Jivabhai & Co.—86-88, Lohar Chawl.
Akbarally, F. H., & Co.—58, Bhajipala Lane, Bombay 3.
Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.
Alcock Ashdown & Co., Ltd.—Defence Works, Mazagaon.
Alladin Virjee Nathani.—Darukhana, Mazagaon Street, Bombay 10.
Allied Engineering & Trading Co.—Asian Building, Nicol Road, Ballard Estate.

AMRITLAL & CO.—Iron & Hardware Merchants, Stockists of Kadai, Ghamella T-Hinges, 233, Nagdevi Street, Bombay 3. Phone: 26651.

Arco Steels.—Prospect Chambers Annexe, Hornby Road, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Ashwin Traders.—35/A, Carnac Siding Road, Iron Market, Bombay 9.
Asian Engineers.—Nagdevi Cross Lane, Bombay 3.
Associated Machine & Tool Co.—130, Medows Street, Fort.
B. C. Hardware Mart.—38, Bibijan Street, Nagdevi, Bombay 3.
Babulal & Bros.—26, Nagdevi Cross Lane, Bombay 3.
Baker, A. M., & Co.—218, Nagdevi Street.
Bakhshiram & Co.—Ahmed Building, 129, Modi Street, Fort.
Balasinor Trading & Industrial Corporation.—Umrigar Building, 82, Lohar Chawl.
Balmer, Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.
Bashimal Kanahyalal.—124, Narayan Dhuru Street, Bombay 3.
Batliboi, C. J., & Co.—319, Hornby Road, Fort.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.
Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.
Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.
Bhasin Brothers.—Court House, 1st floor, Dhobi Talao, Bombay 2.

BHOLA NATH RAM LUBHAYA.—202, Musjid Bunder Road, Bombay 3. Phone: 30041 Extn. 25. Grams: "HEELTIPS." Distributors for John Baker Indian Files and Dealers in Nicholson Files, Saws and shoe materials.

Bhukhanvala & Sons.—Medows House, Medows Street, Fort.
Bhutt Bros.—163, Nagdevi Cross Lane, Bombay 3.
Bombay-Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Grams: "SISTACHAR." Stockists of Hardware, Screws, Bolts, Nuts, Shoe Materials, Woodworking & Metal Cutting Saws, Engineering Stores & Saw Files.

BOMBAY TUBE & HARDWARE MART PRIVATE LTD.—284, Nagdevi Street, Bombay 3. Phone: 23604.

Brady, W. H., & Co., Ltd.—Royal Insce. Building, Veer Nariman Street, Fort.
Brothers, J. D.—29-33, Lohar Street, Fort.
Budhabhoy Noorbhoy & Co.—199, Abdul Rehman Street.
Builders & Engineers Co.—Amaralville, 3, Lady Jamshedji Road, Bombay 16.
Calcutta Iron & Steel Co., Ltd.—68/D Mohamedalli Road, Bombay 3.

C. AMICHAND & CO.—46A, Abdul Rehman Street, Bombay 3. Dealers in Hardware and Non-Ferrous Metals. Grams: "SHIPCOCK."

C. Bole & Co.—61, Narayan Dhuru Street, Bombay 3.
Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.
Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.
Chandulal & Co.—Kathawalla, 313, Samuel Street, Bombay 9.
Chandulal Jethalal & Co.—2, Mirchi Gali, Katha Bazar.
Chandulal Narandas.—96, Kika Street, Bombay 4.
Chasman & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.

CHHABIL DAS & BROS.—Government and Railway Contractors, 163, Narayan Dhuru Street, Bombay 3. Phone: 34860. Grams: "SCREWHOOK."

Chhaganlal & Co.—Carnac Bunder, Bombay No. 9. Phone: 20751. Grams: "CONTRACTS."
Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.

CHIMANLAL VRAJLAL & CO.—Iron, Steel and Hardware Merchants, Latif House, Iron Market, Bombay 9. Phone: 30963.

Choksi Brothers.—315, Sandhurst Road, Bombay 4.
Choksi, H., & Co.—106, Medows Street, Fort.

CHUNILAL KHANNA & CO.—Saraswati Niwas, Thakurdwar Road, Bombay 2. Phone: 23513. Grams: "BABALALU".

Commercial Traders.—23-25, Old Hanuman Lane, Bombay 2.
C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

CURRIM, E. A., PRIVATE LTD.—Hardware Merchants & Ironmongers, 97, Apollo Street, Fort, Bombay 1. Phone: 253216. Grams: "CAIM." Branch at Calcutta.

Curtis, J. & Co., Ltd.—36-40, Mahalaxmi Bridge Arcade, Bombay 11.
Dawoodbhai, M., & Bros.—Hararwalla Building, Lohar Chawl.
Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 3.

DESAI TUBE & HARDWARE MART.—41, Nagdevi Cross Lane, Bombay 3. Phone: 20606. Grams: "HASTY". Importers of pipe fittings, Engineering Stores & Tools, Mill gin Stores & Packings & Jointings.

Deviprasad Khandelwal & Co., Ltd.—Iron Jatha, Carnac Bunder.
Dewanchand Budhumall.—53/55, Bibijan Street, Bombay 3.
Dohadwalla, R. H., & Co.—145, Nagdevi Street.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.
Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort.
Duncan Stratton & Co. Ltd.,—5, Bank Street, Fort.
Eastern Tube & Hardware Mart.—123, Narayan Dhuru Street, Bombay 3.

Phone: 71400. Grams: "HANDBLOWER".
ESOOFALLY AHMEDALLY
(Established 1922)
HARDWARE TOOLS AND MACHINERY MERCHANTS
Best Guaranteed Tools Makers
T W BURNS
171/173, Mutton Street, Null Bazar, Bombay 3.

Esufally Adamji & Co.—134, Nagdevi Street.
Esufally Kamrudin.—34, Khokha Bazar, Bombay 3.
Express Commercial Corporation.—Nagdevi Cross Lane, Bombay 3.
Fairdeal Hardware Stores.—206-A, Abdul Rehman Street, Bombay 3.

FAZALBHAI & BROS.—26, Sarang Street, Bombay 3. Specialists in Bolts & Nuts, S.A.E. and Auto parts and Tools. Also exclusively dealing in cotton waste and machinery parts. Grams: "SAZEFEM."

FIDAALY GULAMALI.—163, Janjikar Street, Bombay 3. Phone: 39733.

Fleming, John & Co., Ltd.—Sukhadwala Building, 21, Bastion Road.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Garlick & Co.—Haines Road, Jacob Circle.
G. C. Vora & Co.—107, C. P. Tank Road, Bombay 4.
General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.
General Tubes Ltd.—142-144, Nagdevi Street, Bombay 3.
Globe Stores Co., The.—Sitaram Building, near Crawford Market, Hornby Road.
Gowardhanlal Sethi & Sons.—159, Narayan Dhuru Street, Bombay 3.
Great Eastern Trading Co., The.—107, Cawasji Patel Street, Fort.
Greaves, Cotton & Co., Ltd.—1, Forbes Street.

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Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.
Gulamhusain Sulemanji & Co.—Manu Bhuvan, 24, Kika Street, Gulalwadi.
Haiderbhoy Esmailji & Co.—168, Nagdevi Street, Bombay 3.
Hardware & Sundries Importing Agency.—Hanshaw Building, 19, Bank Street, Fort.
Harjimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.
Harjimal Nand Lal (Estd. 1811).—75, Nagdevi Cross Lane, Bombay 3.
Hatimbhoy, A., & Co.—Argyle Road, Bombay 9.
Hatimbhoy Goolamhussein & Bros.—193, Nagdevi Street.
Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 8.
Hoosein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.

INDIAN COMMERCIAL CO.—86, Sarang Street (Bhusari Mohalla), Bombay 3. Phone: 30885. General Hardware Merchants, Contractors and Suppliers of all sorts of Mill Gin Factory materials.

Industrial Syndicate.—Lentin Chambers, Dalal Street, Fort.

INTERNATIONAL TOOLS & HARDWARE STORES.—84, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."

Iron & Hardware (India) Co.—98, Nagdevi Cross Lane, Bombay 3.
Jacks & Co., Ltd., William.—Hamilton House, Graham Road, Ballard Estate.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3. Grams: "JAIRAMDAS." Phone: 29020.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.
Jayant Metal Manufacturing Co.—152, Lohar Street, Bombay.
Jayantilal & Brothers.—38, Bibijan Street, Nagdevi, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone No. 30138. Grams: "SANIPIPES."

Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.

KANTILAL BHOGILAL & CO.—(Estd. 1933), Engineering and Metal-cutting Tools, Precision & Machinery Tools, Garage Tools and Worn & Triple gear Pulley Blocks and Abrasive Products. 68, Nagdevi Cross Lane, Bombay 3. Phone: 30837 (Office) and 70235 (Residence). Grams: "PIPE TOOLS."

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road.

KERMANI & SONS, F. B. (FORMERLY GREAT EASTERN HARDWARE STORES PRIVATE LTD.)—132, Sarang Street, Bombay 3. Phone: 29663. Grams: "GAROGAR".

Keshavlal Narsidas Jaliwalla.—157, Abdul Rehman Street, Bombay 3.
Khambatty, H. A., & Co., Ltd.—45-47, Lohar Street, Bombay 2.
K. Kirtanlal & Co.—114-16, Zaveri Bazar, Bombay 2.
Kirtilal & Company.—31, Bibijan Street (Barbhai Mohalla), Bombay 3.
Kishor Trading Co.—145, Narayan Dhuru Street, Bombay 3.
Kurwa & Kajiji.—142-44, Abdul Rehman Street.
Lookmanji Moosaji, Diamond Building, Lohar Chawl, Bombay 2.

M. MOIZ & CO.—Nakhoda Roghay Market, 8, Nagdevi Street, Bombay 3. Importers & Merchants, Hardware, Tools and all kinds of Wire Netting.

MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phones: Office: 22863, Residence: 242425. Grams: "MACHTOOLS."

Mahomedally Valibhoy.—83, Abdul Rehman Street, Bombay 3.
Maneckchand Jivraj & Co.—Darukhana, Mazagaon, Bombay 10.
Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.
Manseta, N., & Bros.—165, Lohar Chawl.
Marine & Mills Agencies.—197, Nagdevi Street, Bombay 3.
Mashruwalla, C. M., & Co.—172/74, Nagdevi Street, Bombay 3.

MEHTA & COMPANY.—Latif House, Argyle Road, Iron Market, Bombay 9. Phone: 30963. Grams: "NICERODS." Importers of Iron, Steel, Hardware and Metals.

Mehta & Co., S.—Anees Chambers Annexe, Carnac Road, Bombay 1.
Mehta Hardware Mart.—81-83, Nagdevi Street, Bombay 3.
Mehta, H. P., & Co.—112, Nagdevi Street, Bombay 3.
Mehta Textile & Hardware Stores.—158/160, Narayan Dhuru Street, Bombay 3.
Modern Machine Tools Co.—88, Nagdevi Cross Lane.
Modern Mill Stores.—97, Nagdevi Street, Bombay 3.
Modi Trading Co.—163, Nagdevi Cross Lane, Bombay 3.
Moloobhoy, Ahmed S., & Sons.—281, Nagdevi Street.

MULLA TAYEBALI MULLA NOORBHOY.—175, Janjikar Street, Bombay 3. Phone: 38834. Grams: "TANOOR." Specialists in hinges, screws, builders hardware. Manufacturers of expanding curtain wire.

Nanalal Ambalal & Co.—69, Nagdevi Street.
Naterwalla & Co., S. R.—Bombay Mutual Annexe, Gunbow Street, Fort.

NEW INDIA HARDWARE MART.—152, Narayan Dhuru Street, Bombay 3. Grams: "FREETRADE." Phone: 38665.

Ochhavlal, R., & Co.—86, Nagdevi Street, Bombay 3.
Odhavji, B., & Co.—Carnac Bunder, Argyle Road, Bombay 9.
Orient Paint & Hardware Mart.—67, Habib Building, C. P. Tank Road, Bombay 4.
Paradise Trading Corp.—73/75, Tamarind Lane, Fort, Bombay 1.
Paramount Hardware Mart.—Carnac Bunder, Bombay 9.
Paramount Tools Company.—3, Narayan Dhuru Cross Lane, Bombay 3.
Parekh & Parbhoo Ltd.—Khetwadi Back Road, Bombay 4.
Parekh, P. S., & Co.—108, Nagdevi Street.
Patel, U. D., & Co.—11, Bank Street Building, Fort.
Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 32700.
Ramchand Mathradas Aggarwal.—106-108, Dhanji Street, Bombay 3.
Rasiklal, K., & Co.—Mehta Building, Medows Street, Fort.
Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.
R. C. Traders.—Lentin Chambers, Dalal Street, Fort.
Real Paint & Hardware Mart.—105, C. P. Tank Road, Bombay 4.

RELIANCE TRADING CO.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2. Phone: 38751. Grams: "STORE-TRADE." Engineering Stores, Hardware & Taps & Die Merchants.

Reliance Iron & Hardware Co.—11, Narayan Dhuru Cross Lane, Bombay 3.
Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3.
Richardson & Cruddas Ltd.,—Byculla Iron Works, Byculla.
R. Vadilal Desai & Co.—15-27, Ratan Building, Bibijan Street, Nagdevi, Bombay 3.

S. BAXI & BROTHERS.—2/C, Bibijan Street (Nagdevi), Bombay 3. Phone: 20355, Grams: "BABUSHANTI." Mill Gin Stores, Hardware, Hose pipes, Rubber Sheets and Pipe Fitting Merchants.

Sakria & Sons.—82, Nagdevi Cross Lane, Bombay 3.
Sanghani & Co.—178-180, Abdul Rehman Street.
Sant Ram Biasdev Co.—6, Narayan Dhuru Cross Lane, Bombay 3.
Shah Chhaganlal Ladhubhai.—58, Mudi Bazar (Mandvi), Bombay 3.
Shantilal H. Kamdar & Co.—59, Bibijan Street, Bombay 3.
Sharafally & Sons.—73/75, Bhajipala Lane, Bombay 3.
Shivdayal Bilbhaderdas.—96, Narayan Dhuru Street, Bombay 3.
Shree Krishna Trading Co., Ltd.—Alli Chambers, Medows Street, Fort.
Siriram & Co.—97, Narayan Dhuru Street, Bombay 3.
Sivramkrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.
Soho House.—Vithal Sayana Building, Lohar Street, Bombay 2.
Solem Hardware Mart.—155, Nagdevi Street.
Somnath, C., & Co.—Dr. D'Silva Road, Dadar (Western Railway), Bombay.
Standard Metal Works Ltd.—17, Falkland Road, Low Level, Tardeo.
Standard Trading Co.—Vithal Sayana Building No. 2, Lohar Street, Bombay 2.
Standard Tube Co., Ltd., The.—123, Nagdevi Street, Bombay 3.
Stanley Works, The.—43-44, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Steelyard Limited.—Rahimtoola House, Homji Street, Fort.

SUNDERLAL & SONS.—11, Narayan Dhuru Cross Lane, Bombay 3. Phone: 22847. Grams: "ALLWRENCH." Engineering, Precision & Metal Cutting Tools, Ball Bearings, Hardware & Mill Gin Stores Merchants.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.
Tarachand Gupta & Bros.—Narayan Dhuru Street, Bombay 3.
Teka Hardware & Engineering Corp.—82/86, Abdul Rehman Street, Bombay 3.
Textile Stores & Hardware Mart.—32, Bibijan Lane, Nagdevi Street.
Thakorlal & Co.—47, Nagdevi Cross Lane, Bombay 3.

T. M. TYABJI & BROTHERS.—Hamam House, 32-38, Hamam Street, Fort. Hardware, Diesel Engine Spares, Refrigeration and Electrical Specialists. Grams: "TRUEWAY." Phone: 254285.

Tirathram Kashmirilal.—89, Nagdevi Cross Lane, Bombay 3.
Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.
Trivedi & Co.—Navsari Chambers, Hornby Road, Fort.
Turner, Hoare & Co., Ltd.—Gateway Building, Apollo Bunder.

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TYEBALLY DAWOODJI.—(Estd. 1865), 87, Sarang Street, Bombay 3. Phone : 34862. Grams : "FOOTRULES." Stockists of John Baker's, J.K's and Hindustan's Files. Dealers in Files, Bolts, Nuts, Screws and Hinges, etc.

TYEBALLY & CO., E.—13, Khokha Bazar, Bombay 3. Grams: "CHEAPSHOP". Direct Importers, General Hardware & Tool Merchants, Order Suppliers, Sole Distributors for Eagle Brand "Door Sheaves" and Aluminium Curtain Rail with fittings.

U. D. Patel & Company.—11, Bank Street, Fort, Bombay.

United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.

UNIVERSAL TRADING CO.—General Hardware Merchants and Order Suppliers, Stockists of Rubber Goods, Asbestos Goods, Jointing Sheets, Shovels, Ebonite and Fibre Sheets and Rods, Engineering Tools, Twist Drills, Hammers, Spanners, Grinding Wheels, etc. Mohamedi House, 79, Mohamedalli Road, Bombay 3. Grams: "IRONMART."

Vasi Shums & Co.—Vasi Building, 165-167, Nagdevi Street.

Vinod Mehta & Co.—22B, Noble Chambers, Parsi Bazar Street, Fort.

Viswabharati Trading Co.—Kumpta Street, Ballard Estate, Bombay 1.

Vithaldas G., & Co.—60, Nagdevi Cross Lane, Bombay 3.

Vora Brothers.—34, Bibijan Street, Bombay 3.

Vora, J. C., & Co.—107, C. P. Tank, Bombay 4.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhuru Cross Lane, Bombay 3. Grams: "VISCOSITY." Phone: 28730.

Zaveri, C. A., & Co.—44, Abdul Rehman Street.

HARDWARE IMPORTERS

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VARNISH." Stockists of Hardware & Wires in all Gauges.

A. K. PORBANDARWALLA SONS.—Ruby Mansion, 19, Parsee Bazar Street, Bombay 1. Phone: 253829. Grams: "HOME-PAINT." Importers of Hardware and Oil Paint Merchants.

A. MOHAMMED & CO.—213, Abdul Rehman Street, Bombay 3. Head Office: 26, Netaji Subhas Road, Calcutta 1. Phone: 222406. Grams: "POLISHER," Calcutta. General Hardware & Tools Merchants and Order Suppliers.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Agarwal Commercial Corp.—35, Bibijan Street, Nagdevi, Bombay 3.

ASGARALI NURUDDIN & CO., (ESTD. 1916).—95, Nagdevi Street, Bombay 3. Phone: 22609, Res. 88753. Sanitary Engineers, Hardware & Pipe Fittings Merchants.

C. Parekh & Co.—103, Bhajipala Lane, Bombay 3.

DEWAN CHAND NIKKA MALL & CO.—126, Narayan Dhuru Street, Bombay 3. Phone: 20102. Grams: "DHAMICHAIN." Stockists of Hardware, Tools, Workshop & Agricultural Machinery.

Dinkar Trading Co.—95/97, Bhandari Street, Bombay 3.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Gaytee & Company.—Janmabhoomi Chambers, Fort Street, Fort, Bombay. Grams: "IMPENG." Phone: 32449.

HARJIMAL NANDLAL (Estd. 1811).—75, Nagdevi Cross Lane, Bombay 3. Phones: 34811 & 241454 (Res.) Grams: "HARJINAND."

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING." Phone: 20974. Importers & Stockists of Chain Pulley Blocks, Garage Tools, Fibre Sheets, Rods, etc.

HINDUSTAN TOOLS & ENGINEERING CO.—Post Box No. 2311, 9/13, Picket Cross Road, Bombay 2. Grams: "GREEN-LEAVE." Dealers & Stockists of all kinds of Bolts, Nuts & Screws.

HINDUSTAN TOOLS & HARDWARE MART.—126, Lohar Chawl, Bombay 2. Phone: 34766. Grams: "FAKIRSAI." Direct Importers of Engineering Tools, Hardware, Mill Gin Stores, etc.

INDIA HARDWARE & CHEMICAL CO.—11, Bank Street, Fort, Bombay 1. Phone: 254158. Grams: "YARAZZAQ." Sole Agents for "SOLAR" Paints Manufactured by the Solar Paint & Varnish Mfg. Co., Calcutta.

International Tools & Hardware Stores.—84, Kika Street, Bombay 4. Phone: 73636; Grams: "SANITARY."

Ispat Traders.—129, Sarang Street, Bombay 3.

JAIRAMDAS & SONS.—163, Narain Dhuru Street, Bombay 3. Grams: "JAIRAMDAS." Phone: 29020.

James Tools & Hardware Co.—109-111, Nagdevi Street, Bombay 3.

KANTILAL BHOGILAL & CO. (Estd. 1933).—Engineering and Metal-cutting Tools, Precision and Machinery Tools, Garage Tools and Worn and Triple gear Pulley blocks and Abrasive Products. 68, Nagdevi Cross Lane, Bombay 3. Phones: 30837 (Office) and 70235 (Residence). Grams: "PIPETOOLS."

M. Moiz & Co.—Nakhoda Roghay Market, 8, Nagdevi Street, Bombay 3.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone: 23058. Grams: "TENDERERS."

NATVERLAL & BROS.—Hardware Tools & Pipe Fittings Merchants and Direct Importers, 180, Nagdevi Street, Bombay 3. Phone: 27910. Grams: "NATVERBROS."

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

NOOROODIN SHAIKADAM & CO.—159, Nagdevi Street, Bombay 3. Phone: 23894.

Shah Trading Corporation.—Oomrigar Building, opp. Crawford Market, Bombay 3.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone: 20498. Grams: "PIPEWARE."

HATS AND CAPS MFRS. AND DEALERS

Calcutta Sola Hat Agency.—Dwarkadas Building, Mangaldas Road, Bombay 2.

Delhi Hat Works.—206-208, Carnac Road, Bombay 2.

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

LUIZ.—Opp. G. T. Hospital, 280, Carnac Road, Bombay 2. Hatters, Uniform Cap & Badge Makers. Contractors to Bombay State Police, The Indian Navy and Railways.

Noormahomed Manji Topiwalla.—255, Ibrahim Rahimtoola Road. Dealers in Furs, Caps and Materials.

Popular Sola Hat Works.—Baria Building, opp. Crawford Market.

HEAT TREATMENT AND METAL PROCESSING PRODUCTS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Datson Raviraj & Co.—43, Tamarind Lane, Fort.

HARDCASTLE, WAUD & CO., PRIVATE LTD.—Alice Buildings, Dr. Dadabhai Naoroji Road, Fort.

Imperial Chemical Industries (India) Ltd.—Imperial Chemical House, Ballard Estate.

Pioneer Equipment Co. Private Ltd.—139, Medows Street, P.O. Box No. 1909, Fort.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

HEAVY CHEMICALS MANUFACTURERS

GOLDEN CHEMICALS PRIVATE LTD.—"Tobacco House," Vile Parle, Bombay 57. Manufacturers of Bichromates and Glaubir's Salt Calcined.

HELMET AND INDUSTRIAL GLOVES MFRS.

METAL NET DEPOT.—113, Abdul Rehman Street, Bombay 3. Manufacturers of Aluminium Helmets, Leather, Rubber, Canvas & Asbestos Hand Gloves, Welding Screen, Respirator, Eye Protector & Welding Goggles. Dealers in Wire Nettings, Wire Gauze, Expanded Metals, Cement Sheets, Plywoods, Hard Boards, Welded Mesh, Chairs, Chair Seats & Other Building Materials, etc.

HIDES AND SKINS

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 Lines). Offices at Madras, Calcutta, New Delhi.

EDGAR HANDLEY AND CO. PRIVATE LTD.—135, Medows Street, Fort. Phones: 253548 and 252934. Grams: "TROJAN."

Govias, Basil M. P.—P. O. Box 263-A, Bombay Mutual Building, Hornby Road, Fort.

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Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
Mahomedali Esmail.—Stock Exchange Bldg., Apollo Street, Fort.
Western Mercantile Co.—38, Western India House, Sir Phirozshah Mehta Road, Fort.

HOMOEOPATHIC MEDICINES

ROY & CO.—HOMOEOPATHS.—(Estd. 1889), 176, Princess Street, Bombay 2. The leading and the largest house in Western India for Homoeopathic medicines, Books and Physicians' requisites, Medical Publishers Matties Electro Homoeopathic Medicines, German Homoeopathic Injections and Patents, Homoeopathic Journal—Specimen copy & catalogue free on request.

HOISTING MACHINERY (LIFTS & HOISTS)

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

Batlibol & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayavada. Associate : Bangalore.

ELECTRIC CONSTRUCTION & EQUIPMENT CO., LTD.—16-A, Hansraj Lane, Byculla Bridge, Post Bag No. 6955, Bombay 27. Phone : 75524. Grams : "COECELL." Sole Agents in India for Schindler & Co., Ltd., Lucerne, Ebikon, Switzerland.

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone : 261153.
Gujarat Trading Syndicate.—India House, Fort, Bombay 1. Grams : "GUTRASY."
Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

HOSES (RUBBER & CANVAS)

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone : 25-2952/25-4103. Grams : "PILOTACE."

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone : 29008. Grams : "EKADASHI." Dealing in Suction, Delivery & Fire Hoses, Surgical, Rubber & Plastic Tubings & Sheetings.

BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone : 2278. Grams : "CORPBOMBER." Distributors for "STAR" Brand Transmission Beltings and Hoses.

Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedalli Road, Bombay 3.

EASTERN STORES & TRADING CO. PRIVATE LTD.—115, Nagdevi Street, Bombay 3. Phones : 30065 & 30066. Grams : "ENERGY."

Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone : 261153.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone : 30138. Grams : "SANIPIPES."

P. Ratilal & Co.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone : 32700.
Richardson & Cruddas Ltd.—Byculla Iron Works, Bombay.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone : 38621. Grams : "MANILAROPE." Distributors for "VENUS" Brand Hoses, suction, delivery, garden, Pneumatic, acid and oil resisting "NEOPRENE" Hoses and also Dunlop Hoses.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.
Tahira Industries (India) Private Ltd.—53, Queen's Road, Bombay 2.

HOSIERY MANUFACTURERS AND DEALERS

Ahmed Ebrahim Bros.—882, Chuckla Street, Bombay 3.
Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.
Bhagvandas Chatrabhuj & Co.—20, Hamam Street, Fort.
Bombay Hosiery House.—9-12, Lahri House, 14, Bhajipala Street, Off Chakla Street, Bombay 3.

BORIVLI HOSIERY MILLS (Estd. 1920).—Office : Dahanukar Building, 480, Kalbadevi Road, Bombay 2. Phone No. 20414. Mills at Borivli, Western Rly. Phone No. 84035.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.
Chhaganlal Vishram & Co.—107-109, Chakla Street.
"Crawfords."—280, Carnac Road, Bombay 2.
Chunilal Mulchand & Co.—Waterloo Mansion, Mayo Road, Fort, Bombay.
Dave, J. M., & Co.—Kanta Terrace, Silk Bazar, Kalbadevi Road.
Haji Ebrahim Haji Mohammad B.—13, Bhajipala Lane, Bombay 3.
Haroon & Co.—19, Zakeria Musjid Road.
Hassaram & Co., K.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.

INDIA HOSIERY FACTORY.—Kalachowki Road, Bombay 12. Manufacturers of all kinds of Hosiery goods, Cotton, Rayon, Woollen & Stretch Nylon & also Processors of Nylon yarn. Phone : 76902. Grams : "KIRORI." Selling Agents : Bombay Agency, 115/117, Chakla Street, Bombay 3.

Jewan Bukhsh Mohammed Jan.—99, Chakla Street, Bombay 3.
Katrak Hosiery Works.—167, Lamington Road, Bombay 7.
Ladhabhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
M. Dialdas & Sons.—190, Princess Street.

MENORA HOSIERY WORKS PRIVATE LTD.—75, Nehru Road, Vile Parle (East), Bombay 57. Phone : 86770. Grams : "MENORWORK," Bombay—Vile Parle.

Modern Hosiery Works.—Dhobiwadi, Thakurdwar.
Mohanlal, D., & Co.—Nariman Building, near P. O., Kalbadevi.
Parmanand Gordhandas & Co.—280, Carnac Road, Bombay 2.
Patel Hosiery Mills.—7-10, Botawala Building, Elphinstone Circle, Fort.
Pavri Sons & Co.—93-97, Bazar Gate Street, Fort.
Popular Hosiery Works.—98B, Lady Hardinge Road, Matunga (Western Rly.), Bombay 16.
Prataprai & Co.—4, Swadeshi Market, Kalbadevi Road, Bombay 2.
Rajsi Bros.—Opp. Electric House, Colaba Causeway.
Shanghvi & Sons, N. H., (Estd. 1929).—47-48, 65-66, Swadeshi Market, Kalbadevi Road.

SHREE JAM HOSIERY WORKS PRIVATE LTD.—30, Old Hanuman Lane, Bombay 2. Factory : Borivli, Bombay. Phone : Office : 38954. Factory : 84057. Grams : "SUGOPHI," Bombay. Mg. Directors : Jayraj Kanji & Pranjivandas Sunderdas. Cotton & Rayon vests, drawers, shorts, cardigans and jumpers in plain, interlock, net and terry qualities ; equipment : 43 Knitting machines ; own bleaching, dyeing and finishing plant.

Sultan Haji Mahomed & Co.—Kanta Terrace, 529, Kalbadevi Road, Bombay 2.
Surat Hosiery & Printing Works.—Sayee Bhuwan, 143, Princess Street.
Trivedi, R., & Co.—28, Lalsingh Building, Lohar Chawl.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Vashani Cloth Stores.—Prospect Chambers, 313, Hornby Road, Fort.
Vasi Bros. & Co.—Topiwala Mansion, Mohamedally Road, Bombay 3.
Vaswani (India) Ltd.—496, Kalbadevi Road, Bombay 2.
West End Shop.—234-236, Carnac Road, Kerawalla Mansion, opp. Police Commissioner's Office, Bombay 2.
Western Link Co.—19, Bank Street, Fort.
Yacob Ahmed Bros.—Topiwalla Mansion, Mahomedally Road.

HOSPITAL EQUIPMENT & SUPPLIES

Akbarally Ebrahimji.—38/C, Cawasji, Patel Street, Fort, Bombay.
Bole Brothers.—49, Princess Street, Bombay 2. Phone : 25316.

BOMBAY SAFE MANUFACTURING CO.—307-9, Kalbadevi Road, Bombay 2. Phone : 22367 (Office & Showroom), 71589 (Factory). Manufacturers and Dealers of Steel Furniture, Hospital Equipment, etc.

BRIGHT BROTHERS PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams : "BRIBOS." Phones : 77454 and 77455. Manufacturers of Buckets, Mugs, Basins, Containers from Plastics material (Polythene), Carboys impervious to many Chemicals including Acids.

DAHYABHAI & CO., D.—79, Princess Street, Devkaran Mansion, Bombay 2. Phone : 29504. Grams : "ERKA". Dealers in Surgical,—Scientific, Laboratory and Hospital Equipment.

DOCTOR & CO.—Bombay Mutual Terrace, 534, Sandhurst Road (Near Sandhurst Bridge), Bombay 7. Phone : 40907, Grams : "DIATHERMY." Suppliers of all Hospital Equipments, Apparatus and Appliances.

Fairdeal Surgical Corporation.—106, New Citizen Bank House, Palton Road, Bombay 1.

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G. K. Kansara.—118, Kansara Chawl, Kalbadevi, Bombay 2.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone Nos.: 27636 & 27358.

JANAK MANUFACTURING WORKS.—Antop Hill, Wadala, Bombay 31. Manufacturers of Steel Furniture and Hospital Equipments.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
Indian Oxygen Ltd., The.—Ghatkopar (Bombay Agra Road), Bombay. Phone: 67941 (4 Lines); Grams: "INDOXCO".
Jagkumar & Co.—Prospect Chambers Annexe, Hornby Road, Fort.

JAYANTILAL KASTURCHAND & CO.—102, Bhandari Street, Chakla, Bombay 3. Phone: 27947. Grams: "GLEANAPOT." Sole Selling Agents: The Bengal Enamel Works Ltd., Calcutta.

Kanchanlal Maganlal & Co.—Bode Chawl, Princess Street, P.B. No. 2029, Bombay 2.
Kapadia Brothers.—Kalan Building No. 3, Kandewadi, Bombay 4.

KHIRA STEEL WORKS PRIVATE LTD.—Executive Office & Factory: Ghodbunder Road, Santa Cruz, Bombay 54. Grams: "STEELCASE." Phones: 88002 & 89569. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phones: 27636 and 27358. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7 and also at Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA," Phone: 27108.

LANS METAL & ENAMEL WORKS PRIVATE LTD.—Kasturchand Mills Compound, Tulsipipe Road, Dadar, Bombay 28. Phone: 60637. Grams: "LANSENAMEL".

MODERN TRADERS.—Manufacturers of Hospital & Laboratory Supplies. Dwarkadas Mansions, 457, Sardar V. Patel Road, Bombay 4. Phone: 28074. Grams: "REASTAINS." And at Tilak Road, Ahmedabad 1. Phone: 3783. Associates: Ultra Medical & Scientific Apparatus Works, Bombay & Aetna Scientific Industries, Bombay.

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road, Dadar, Bombay 14. Phone: 61755. Grams: "BEDLOCKER," Bombay-Dadar. Manufacturers of Pressure Steam Sterilizers & Autoclaves, Pyrogen-Free Water Stills, Hydraulic Dental Chairs, Suction Apparatus, Invalid Furniture, Stainless Steel Furniture, etc.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone: 73880. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Stainless Steel Hospital Wares.

Raj-Der-Kar & Co.—Commissariat Building, Hornby Road, Fort. For Research and Industries. Phone: 27304.
Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.
Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.
Steelmade, Dr. Annie Besant Road, Worli, Bombay 18.
Williams Jack & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

HOTELS AND RESTAURANTS

Airlines Hotel.—Churchgate Reclamation, Bombay 1.
Ajanta Restaurant.—9, Mangalore Street, Ballard Estate, Bombay 1.
Ambassador Hotel.—Churchgate Extension, Bombay 1.
Aryaniyas Hindu Lodging and Boarding House.—Opp. Vithalwadi, Kalbadevi Road.
Astoria Hotel.—Churchgate Reclamation, Bombay 1.
Bentley's Hotel.—17, Oliver Road, Colaba, Bombay 1.
Berrys Restaurant.—Churchgate Extension, Bombay 1.
Bombay Lodge.—Borbhat Lane and Girgaum Road Junction, Girgaum, Bombay 4.
Bombelli's Swiss Confectionery.—63, Warden Road, Bombay 26.
Brandon & Co., Ltd.—Elphinstone Bldg., Veer Nariman Road, Bombay 1.
Bristol Grill Private Ltd.—Laxmi Buildings, Sir Phirozshah Mehta Road, Fort.
Chetana.—34, Rampart Row, Fort.
Chez Caroline.—Dhanraj Mahal, Apollo Bunder, Bombay 1.
Elphinstone Hotel.—Gulshan Chambers, Hornby Road, Fort.
Empire Hindu Hotel.—Hornby Road.
Eros Theatre & Restaurant Private Ltd.—Cambata Building, Queen's Road, Churchgate Reclamation.
Faletti's Italian Cafe.—Cusrow Baug, Causeway, Bombay 1.
Frederick's Hotel.—Lansdowne Road, Apollo Bunder, Fort.
Gaylord Restaurant.—May Fair, Churchgate Street, Bombay 1.
George Restaurant.—20, Apollo Street.
Girgaum Lodge.—47F, Khotachi Wadi, Opp. Majestic Cinema, Bombay 4.

GODWIN GUEST HOUSE.—Jasmine Building, 2nd Floor, 41, Garden Road, Apollo Reclamation, P.O. Box 191, Bombay 1. Phone: 212782. Grams: "HOSHEE." Lodging & Boarding.

Gourdon & Co.—Rehmat Manzil, Churchgate Reclamation, Bombay 1.
Grand Hotel (Bombay), Ltd.—Ballard Estate, Fort.

GREEN'S HOTEL & RESTAURANT.—Apollo Bunder, Grams: "CATERERS". Phone: 219101.

Hotel Regal.—233, Frere Road.
Hotel Waldorf.—16, Arthur Bunder Road, Bombay 5.
Ideal Restaurant.—Alice Building, Hornby Road, Fort.
Juhu Country Hotel.—Juhu, near Santa Cruz.
Juhu Hotel & Restaurant.—Via Santa Cruz, Juhu, Bombay 23.
Kamling Chinese Restaurant.—"Nagin Mahal", Churchgate Reclamation.
Kashmir Hotel.—Dhun Mahal, Dhobi Talao.
Kerawalla Chamber's Guest House.—Strand Road, Bombay 1.
King George VI Restaurant.—Noor Mahal, King's Circle, Matunga.
Kwality Restaurant & Ice Cream Company.—Causeway, Colaba, Bombay 1.
Ladies Hostel.—Maher, Gokhale Road, Cross Street II, Opp. Dadar Portuguese Church, Bombay 28.
Lawrence Hotel.—Ashokumar House, Rampart Row, Bombay 1.
Lentin Court Hotel.—Strand Road, Apollo Bunder, Bombay 1.
Leopold Cafe & Stores.—No. 6, Colaba Causeway, Apollo Bunder.
Lessers Boarding House.—Soona Mahal, Marine Drive, Bombay 1.
London Hotel.—323, Grant Road, Bombay 7.
Madhavashram.—18, Parekh Street, Girgaum, Bombay 4.
Majestic Hotel.—Esplanade, Museum.
Mama Kane's Swatchha Upahar Griha.—Dadar B.B., Bombay 28.

METROPOLE HOTEL.—Lodging & Boarding, 16, Palton Road, Crawford Market, Bank of Baroda Building, Bombay 1. Grams: "MYHOTEL." Phones: 262086 & 264040.

Modern Hindu Hotel.—12, Wallace Street, Fort.
Morenas & Co.—69, Mahatma Gandhi Road, 22, Medows Street, Fort.
National Hindu Hotel.—Frere Road, opp. Tram Junction, Fort.
New Coronation Durbar Hotel.—Near Novelty Cinema, Grant Road Tram Terminus.
New Empire Restaurant, Stores & Bakery.—134, Hornby Road.
New Empire Stores & Restaurant.—Rustom Mahal, Tram Terminus, Dadar.
New Welcome Hindu Restaurant.—Medows House, Tamarind Lane, Fort.
New World Chinese Restaurant.—Gulestan, opp. Metro Cinema, Dhobi Talao.
Nrisinha Hindu Lodge.—177-179, Hornby Road, Fort.
Orient Hotel.—Orient Hotel Building, Crawford Market.
Outram Private Hotel.—Menkwa Building, Outram Road, Fort.
Parisian Dairy Company.—Soona Mahal, Marine Drive, Bombay 1.
Picnic Cottages Restaurant.—Versova, near Andheri.
Purohit Hotel.—Parekh Mahal, Churchgate Street.
Purohit Restaurant & Stores.—Krishna Building, Fort Street, Fort.
Pyrke's Apollo Hotel.—Lansdowne Road, Apollo Bunder.
Railway Hotel.—Charni Road.
Regent Hotel.—Ballard Pier.
Ritz Hotel and Restaurant.—Churchgate Reclamation, near Eros Cinema, Bombay.

ROYAL GUEST HOUSE (LODGING & BOARDING).—Lady Hardinge Road, opp. Rivoli Cinema, Mahim, Bombay 16. Phone: 62668. Grams: "ROYALGUEST."

Royal Hotel.—Hassam Chambers, Parsi Bazar Street, Fort.
Santacruz Airport Restaurant.—Santacruz, Bombay 29.
Sardar Griha (Private) Ltd.—Carnac Road, Bombay 2.
Savoy Hotel & Restaurant.—Lamington Road, next to Bombay Central.

SEA FACE HOTEL.—Dar-ul-Habib, 29, Marine Drive, Bombay. Tel.: 245821 & 246195.

Sea Green Hotel.—Marine Drive, Bombay 1.
Sea Green South (Hotel).—Marine Drive, Bombay 1.
Sea View Hotel.—221-225, Frere Road, opp. G.P.O., Fort.
Sea View Restaurant.—Juhu, Santacruz.
Ship Hotel.—Opp. General Post Office, 219, Frere Road, Fort.
Shree Krishna Boarding House.—Girgaum Tram Terminus, Bombay 4.
Sidhwa Guest House.—Soona Mahal, Marine Drive, Bombay 1.
Simla and Calcutta Hotel.—Mangalore Street, Fort.
Soona Service Suites.—Soona Mahal, Marine Drive, Bombay 1.
Strand Hotel.—Strand Road, Apollo Bunder, Bombay 1.

TAJ MAHAL HOTEL.—Apollo Bunder. Grams: "INHOTELS". Phone: 219101 (15 lines).

Tambe, B., Private Ltd.—Sanzgiri Sadan, Girgaon Road, Bombay 4.
Veerkar Ahar Bhavan.—Girgaum Corner, Bombay 4.
Volga Restaurant.—40, Churchgate Street, Bombay 1.
Wayside Inn.—Rampart Row, Fort.
Welcome Hindu Restaurant.—Medows Street, Fort.
Welcome Hotel.—Frere Road, Fort.
West End Hotel.—(Proprietors: West End Hotel Ltd.), 45, New Marine Lines, Bombay.

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HOUSE AND ESTATE AGENTS

ADVANI & CO., R. & G.—Estate Agents, Sindhu House, Nanabhoy Lane, Fort, Opp. Flora Fountain, Bombay 1. Phones: Office: 253229 254163. Res.: 72233 & 243279. Grams: "SATGURU."

Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.
Dastur & Sons, M. B.—Ismail Building, Hornby Road, Fort.

GILBERT LODGE & CO.—"Elphinstone House", Veer Nariman Street, Fort, Bombay. Phones: 251819 and 252607. Grams: "READINESS."

Mayfair Furnishing Co.—Great Western Building, Apollo Street, Fort.
Narayanrao Kulkarni & Co.—20, Hamam Street, Fort.
Properties & Estates Management Private Ltd.—11, Bank Street, Bombay 1.
Rao Saheb Rawji Sojpal & Sons.—322, Shanti Niketan, Vincent Road, Kingsway, Matunga.

ROYAL HOUSE AGENCY (Estd. 1936).—24, Vir Nariman Road, Fort, Bombay 1. Phones: 255759. Res. 67314.

HUMIDIFICATION—VENTILATION

Asea Electric India, Limited.—Tafti Building, Goa Street, Bombay.
Bakubhai Ambalal Private Ltd.—Sahibaug Bldg., Wittet Road, Ballard Estate, Bombay.

INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD.—Karimjee House, 2nd Floor, 59, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 262475. Grams: "COOLAIR." Specialists in all air Handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

ICE FACTORIES

AMBICO ICE WORKS COLD STORAGE & REFRIGERATION.—H.O.: 35-C, Jeirajbhoy Street, Bombay 8. Phone: 71692. Factory: 10-12, Cochin Street, Ballard Estate, Bombay 1. Phone: 263308.

Bakhtawar Ice Factory.—Kumbharwada, Dadar.
Bombay Crystal Ice Works.—179, Motisha Lane, Mazagaon.
Central Ice & Cold Storage Co.—Saboo Sidick Road, Crawford Market, Bombay.
City Ice Supplying & Cold Storage Ltd.—298, Bazargate Street, Fort.
Dhunjibhoy's Ice Factory.—Mount Road, Mazagaon.

HOMILA ICE WORKS, COLD STORAGE AND REFRIGERATION.—Manufacturers of Pure and Colourless Ice. 33-C, Jeirajbhoy Street, Near Municipal Workshop, Foras Road, Bombay 8 (India). Phone Nos. 71692 & 71314.

Siddley Ice Factory.—505A, Arthur Road, Tardeo.
Sitaram Industries.—Byculla Bridge, Hansraj Lane, Byculla.

SUNAWALLA ICE FACTORY (Estd. 1918).—Jeirajbhoy Street, Next to Municipal Workshop, Byculla, Bombay 8. Phone: 71692. Factory: 188, Lamington Road, Bombay 7. Cold storage & Refrigeration.

IMPORT AND EXPORT FIRMS (GENERAL)

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VARNISH." Direct Importers of Iron & Steel of all kinds.

A. G. BATLIWALA & CO.—11, BEST Printing Press Bldg., Morland Road, P.O. Box 4567, Bombay 8. Phone: 40850. Grams: "BOTTLEHOME." Dealers in and Exporters of Empty Bottles & Bakelite Caps.

Abdool Hoosein Jivajee & Co.—241, Nagdevi Street, Bombay 3.
Abdoola Joosab Calcuttawalla & Co.—137-41, Samuel Street, Bombay 9.
Abdul Karim & Co.—Mohomed Manzil, 59-59A, Memonwada Road.

ABDULKARIM, M. H.—272, Abdul Rehman Street, Bombay 3. Phone No.: 29268. Grams: "TAUFIQ."

Abdul Razak & Co.—Opp. Juma Masjid, Takiaward, Kurla.
Abdulkhadar Shamsuddin & Co.—48, Khoka Bazar, Bombay 3.
A. A. Baker & Co.—89, Bhajipala Street, Bombay 3.
Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Advani & Co., G. V.—Prospect Chambers, Hornby Road, Fort, Bombay.
Advani, J. B., & Co., Ltd.—Advani Chambers, Sir Phirozshah Mehta Road.

SORABJI NOWROJI & CO.

16, HORNIMAN CIRCLE — FORT — BOMBAY 1

EXPORTERS OF:
Sandalwood, Palmarosa Oil, Sandalwood Oil, Umbrellas, Cashew Kernels, Plastic Goods etc. etc.

IMPORTERS OF:
Umbrella, Cloth etc.

MANUFACTURERS OF:
Plastic Articles.

SOLE AGENTS FOR:
"PLASMAC" PLASTIC INJECTION MOULDING MACHINES
(Manufactured for the first time in India)

★

STOCKISTS OF:
Sandalwood, Palmarosa Oil, Distillers of 'Crown' Brand Sandalwood Oil.

★

Phones:
Head Office: 252410.
Sales Depot: 261573, 87175
Factory: 40277.

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Ahoora Trading Co.—22D. Parsi Bazar Street, Fort, Bombay.
Ahuja, C. M., & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.
Akbarally Ebrahimji & Co.—38/C, Cawasji Patel Street, Fort, Bombay.
Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.
Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.
Alfa Sports.—Metro House, Bombay 1. Phone: 27549. Grams: "ALFASPORTS."
Alfred Herbert (India), Ltd.—Kaiser-i-Hind Buildings, Ballard Estate.
Alliance Stores & Trading Co.—Princess Street, Bombay 2.
Allied Exporters.—Kumud House, opp. Lloyds Bank, 267, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay.
All India Trading Corporation.—25, Bank Street, Fort.

AMALGAMATED UNIVERSAL AGENCIES.—306, Lotus House, 33/A, New Marine Lines, Bombay 1. Phone : 241098. Grams : "DETAMAG." Importers of Stainless Steel, Tool and Alloy Steel, Stationery, Paints, Raw Materials, Provisions, Paper, Machine Tools & Textiles. Exporters of Leather Cloth, Stainless Steel Utensils, Toys, Jute Carpets, Spectacle Frames, Textile & Sundries.

Almeida, J. C.—National Insurance Building, 1st Floor, 27, Bastion Road, Fort, Bombay. Phone : 263708. Grams : "GROTTO".
Amin Importers.—7-10, Elphinstone Circle, Fort.
Amin & Sons.—180-82, Samuel Street, Vadgadi.
Amrut Trading Co.—44, Kumar Vilas, Mangalwadi, Girgaum.
Anand Trading Co.—234, Masjid Bunder Road, Bombay 3.
Anil Brothers.—44/46, Dhanji Street, Bombay 3.
Anil Kumar & Co., Ltd.—121-123, Princess Street, Bombay 2.
Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
Ashok Brothers.—327, Dr. Dadabhoy Naoroji Road, Bombay.

ASHOK OVERSEAS TRADING CO. PRIVATE LTD.—543, Kalbadevi Road, P.O. Box 2501, Bombay 2. Phone : 30924. Importers of Umbrellas & Accessories, Cycles Accessories, Electrical Accessories, Cotton Piece Goods and Sundries.

Asian Trading Corporation.—1-A, Nazir Building, Calicut Street, Bombay 1. Phone : 262575.
Askay & Co., Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Asok Bros., Ltd.—Mubarak Manzil, 104, Apollo Street, Fort.

AWATRAM SONS (ESTD. 1872).—Owners of Hind Umbrella Mfg. Co. and Hind Plastic Industries, 264, Jumma Masjid, Bombay 2. Phone : 39320. Grams : "WHOLESALE." Exporters of Tarpaulins, Art Silk Fabrics, Plastic Goods, Umbrellas & General Merchandise.

Badat Ltd.—105, Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Bakshi Ram & Co.—129, Modi Street, Fort.
Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Fort.
Bardiya, W. K., & Company.—155, Modi Street, Fort.
Batlibhoi, C. J., & Co.—319, Hornby Road, Fort.

BATLIWALLA & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Importers, Exporters and General Merchants. Partners : R. B. Batliwalla ; M. S. Batliwalla ; F. B. Batliwalla. Phone : 253667. Residence : Phone No. 89249.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.
Begraj Gupta & Co.—207, Kalbadevi Road, Bombay 2.
Bhagwandas Chatrabhuj.—20, Hamam Street, Fort.
Bhagwandas Devshi, Ltd.—87, Princess Street.
Bhagwandas Sant Parkash.—50, Nakhuda Street, Bombay 3.
Bhaidas Cursondas & Co.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Bhandari Brothers Ltd.—Dadyseth House, 44, Cawasji Patel Street, Fort.
Bhanji Lavji Porbandar Ghee Supply Agency.—Shroff Mansion, 258, Kalbadevi Road.
Bhanoo Trading Co.—29, Imperial Chambers, Wilson Road, Ballard Estate. Phone No. 30101. Grams : "SANGHANI." General Importers, interested in Woollen, Cotton, Art Silk, Silk, Piece-goods, Fents and Remnants, Hardware Tools, Electric Appliances, Measuring Instruments, Incandescent Lights and Parts and Paper Stationery, Fountainpens and Parts.
Bhanusali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.

BHARATI TRADING CO.—90/92, Kazi Sayed Street, Bombay 3. Phone : 30461. Grams : "KARODPATI."

Bheroomal Ghanoomall.—42, Dhanukar Building, Kalbadevi Road.
Bhukanwala & Sons.—Medows House, Medows Street, Fort.
Birla Bros., Ltd.—Imperial Bank Annexe, Bank Street, Fort.
Bock, F. & Co.—Shale Building, Bank Street, Bombay 1.
Bombay Importing Agency.—75-77, Sarang Street, Bombay 3.
Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay 3.

BOMBAY STEEL SUPPLIES PRIVATE LTD.—19, Bank Street, Bombay 1. Phone : 252625. Grams : "STEELSUPPLY."

Brady, W. H., & Co., Ltd.—Royal Insurance Buildings, Churchgate Street, Fort.
Brigg Bros. & Co.—Podar Chambers, Parsee Bazar Street.
Brijlal, H. R., & Co.—Beaumon Chambers, 27-33, Medows Street, Fort.
Bulchand Co., L.—Moos Building, 510, Kalbadevi Road, Bombay 2.
Burrows, & Co., W. J.—Khatau Building, 40-44, Old Custom House Road, Fort.
Byramji, T. & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
Calico General Export Co.—12, Rampart Row, Fort.
Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.
Capital Colour & Chemical Co.—77-87, Mirchi Street, Vadgadi, Bombay 3.
Central Syndicate Ltd.—16/18, Custom House Road, Fort.
Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.
Chavannes & Co., Private Ltd.—Menkwa Building, 10, Outram Road.
Chimanlal & Co.—38/42, Shamsett Street, Bombay.

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Chotirmall & Co., K. A. J.—501, Kalbadevi Road, Bombay 2.

CHUNILAL PRABHUDAS & CO. (BOMBAY) PRIVATE LTD.—410-414, Himalaya House, 4th Floor, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone : 26-2720. Grams : "HEMANI-CO." Importers & Manufacturers' Representatives. Specialists in Iron & Steel, Non-ferrous Metals, Celluloid Sheets & Plastics & Chemicals. Exporters of Textiles, Hardware & Plastics.

Clarke & Smith (India), Ltd.—Esmail Building, Hornby Road, Fort.
Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.

CONSOLIDATED TRADING CORPORATION.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay. Phones : 263053, 264259 and 265084. Grams : "ONTRAC." Exporters of Cotton, Woollen, Rayon Textiles, Readymade garments and general order suppliers to Middle East Countries and Governments. Sole Export Agents for Bombay Dyeing & Mfg. Co., Ltd.

Continental Export & Import Co.—Mehta Building, 47, Medows Street, Fort.
Cotton Agents Ltd.—Imperial Bank Annexe, Bank Street, Fort.
Crystal & Co., J.—111, Mahatma Gandhi Road, Fort.
Curmally Jan Mahomed.—160-162, Samuel Street, Bombay 9.
Dadajee Dhackjee & Co., Ltd.—Shree Pant Bhuvan, Sandhurst Bridge.
Dalichi Bussan Kaisha Ltd.—4th Floor, Navsari Chambers, Outram Road, Fort, Bombay. Phones : 261667 and 262148. Grams : "DAITIBUSAN".
Dali B. Shroff & Co.—361, Dr. Dadabhai Naoroji Road, Fort.
Daruwalla, M. N., & Co.—20, Apollo Street, Fort.
Das & Co.—59, Apollo Street, Fort.
Dave, J. M., & Co.—Kanta Terrace, Silk Bazar, 529, Kalbadevi Road, Bombay 2.
Devidas Mulji Kapadia.—Yusuf Building, Hornby Road, Fort.

DEVIDAS VIRCHAND.—22-26, Dariasthan Street. Grams : "EVERGUM", Bombay 3. Importers & Exporters. Dealers in all sorts of Gums, Spices, Textile & Wool.

Dilaj & Co.—20, Hamam Street, Fort.

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DINANATH SONS.—466, Kalbadevi Road, Bombay 2. Phone: 39619. Grams: "PROCESSOR." Importers, Exporters and Manufacturers of Silks, Art Silk, Piecegoods and Manufacturers' Representatives.

Dossa Ltd., G.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
D. Manilal & Co.—Harischandra Nivas, 419-A, Kalbadevi Road, Bombay 2.
Drennan & Co.—Allahabad Bank Building, Fort, Bombay.
Dubash Freres & Co.—Victoria Building, Parsee Bazar Street, Fort.
Dwarkadas & Sons, Ltd.—Mehta House, 89, Apollo Street, Fort.
Dwarkadas Velji Talpatriwalla.—36, Issaji Street, Bombay 3.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phones: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Eastern Import & Export Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Eastern Import & Export Bureau.—3-5, Vithalwadi, Bombay 2.
Ebrahim Allibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 2.
Ebrahim Manji & Co., Ltd.—Kamar Building, Cawasji Patel Street, Fort.
Ebrahim Noorudin & Co.—"Kagdy Manzil," 119, Bazar Gate Street, Fort.

ECHKE PRIVATE LIMITED.—43, Tamarind Lane, 4th Floor, Fort, Bombay. Phone: 251817. Grams: "ECHKE."

Edanmal Sons, L.—Krishna Nivas Building, New Silk Bazar, Bombay 2.
Empee Agencies.—40, Cawasji Patel Street, Fort, Bombay.
Engineer Bros.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Engineer, S. D., & Son.—Imperial Chambers, 32, Wilson Road, Ballard Estate.
Excel Importers.— 89, Princess Street, Bombay 2.
Ex-Import Mercantile Corporation.—229, Nishanpada Road, Bombay 9.
Ex-Import Trading Co.—Queen's Mansion, Bastion Road, Fort.
Ezra Bros.—Mustafa Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Fazalbhai Ibrahim & Co., Ltd.—Ismail Building, Hornby Road.
Fillunger, H., & Co.—16, Ormiston Road, opp. Electric House, Bombay 1.

FINLAY, JAMES & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Post Box No. 73, Bombay 1. Phone Nos. 251255-59.

Firoz Trading Co.—Kamer Building, Cawasji Patel Street, Fort. Phone No. 33832. Grams: "Polestar."
Framroz M. Chinoy & Sons.—Motiwala Mansions, Gowalia Tank, Bombay 26.
Frank Rose & Co.—"Kalam Kutir", 211-219, Frere Road, Fort, Bombay 1.
Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Gangaram & Co.—313, 3rd Floor, Himalaya House, Paltan Road, Bombay 1.
G. Arjan (India) Co.—108, Himalaya House, Paltan Road, Bombay 1.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Gaytee and Company.—Janmabhoomi Chambers, Fort Street, Fort.
Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay.
Ghadiali, J. P., & Co.—12, Rampart Row, Fort.
Gin Store Co., The.—76, Nagdevi Cross Lane, Bombay 3.
Girdharlal & Co.—48, Podar Chambers, Parsi Bazar Street, Fort. G.P.O. Box 826.

GIRILAL & CO.—38, Dahanukar Bldg., 480, Kalbadevi Road, Bombay 2. Phone: 20931. Grams: "ESTABLISH." Sole Distributors for Maharashtra & Gujerat and M.P. of Hindustan Vehicles Ltd., Patna. Manufacturers of New Hudson & Sunbeam Cycles in Technical Collaboration with Birmingham Small Arms Co., Birmingham. Branch: 179, Princess Street, Bombay 2. Also Sole Distributors for Gujarat & Maharashtra for Hindustan Chains Private Ltd., United Engineering Industries, Ghaziabad.

Gladwyn & Co.—251, Hornby Road, Fort, Bombay 1.
Goodwill Trading Co.—34, Nagdevi Street, Bombay 3.
Goolabkhan Peerkhan Co.—178, Nagdevi Street, Bombay 3.
Gore & Co.—Great Social Insurance Building, Sir Phirozshah Mehta Road, Fort.
Govindram Dwarkadas.—Kermani Building, Sir Phirozshah Mehta Road, Fort.
Grahams Trading Co., Ltd.—16, Bank Street, Fort.
Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

GREENLAND ENGINEERS.—64, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 252932. Grams: "GREND." Exporters of Indian Handloom Textiles, Ladies Jari Handbags, Plastic Bangles, Plastic Bangles with Gold Lacquer, Agarbatti, Pickles, Ashtrays, Rolled Gold and Anodised Jewellery, etc.

Habib Rawjee, G., & Co.—Hamam House, Hamam Street, Fort.
Haji Ahmed Husain & Co.—Topiwalla Mansion, Mohamedally Road, Bombay 3.
Haji Janmohamed Moosa.—27-29, Zakaria Bazar, Sheriff Dewji Street.
Hales Bros. (India) Ltd.—K. Lekhraj Building, Carnac Bridge, Bombay 3.
Halindia Cotton Co., Ltd.—71-73, Apollo Street, Fort.
Hansraj Hariram & Co.—Fazalbhoy Building, opp. Flora Fountain, Fort.
Harda Electric Supply Co., Ltd.—17-19, Bastion Road, Fort.
Hardcastle, Waud & Co. Private Ltd.—Alice Buildings, Hornby Road, Fort.
Harilal Manilal & Co.—(Established 1919).—346, Kalbadevi Road, Bombay 2. Phone: 39717.

HASSAMAL BROS.—538, Kalbadevi Road, P.O. Box 2236, Bombay 2. Direct Importers and Exporters of Art Silk and Cotton Piecegoods and General Merchandise. Grams: "HASSABROS." Phones: 22001 & 22002.

Hassamal Dalamal.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Herbertsons Ltd.—11-13, Elphinstone Circle, Fort.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

HIMATLAL & CO.—Importers and Manufacturers' Representatives. Representing in India: The Nationalized Paper Industries of German Democratic Republic. Head Office: 26, Noble Chambers, Parsi Bazar Street, Fort. Phone: Nos. 255663 and Residence: 61596. Grams: "HIMSHAH." Branches: Calcutta and Madras.

Himatlal Manilal & Sons.—346, Kalbadevi Road, Bombay 2.
Hindustan Export & Import Corporation Ltd.—Albert Building, Hornby Road, Fort.
Holland-Bombay Trading Co., Ltd.—E. D. Sassoon Bldg., Dougall Road, Ballard Estate.
Hotchand Jawharmal.—3rd Floor, Round Building, Kalbadevi Road, Bombay 2.
Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.
Husein Abdulkarim Panju.—Panju House, 138-40, Samuel Street, Khoja Mohalla, Bombay 9.
Husein Ebrahim.—75, Mahomedally Road, Bombay 3.
Husein Laljee Dewraj.—Jamal Building, 213, Nagdevi, Bombay 3.
Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.
India Manufacturing Agencies.—16/18, Custom House Road, Fort.
India Overseas Trading Co.—33, Western India House, Sir Phirozshah Mehta Road, Fort.

INDIAN ART MUSEUM PRIVATE LTD.—Carnac Bridge, Bombay 3. Phone No. 20726. Grams: "INARTMUSE."

Indian Exporter.—Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Indo Europa Trading Co.—7, Dalal Street, Fort.
Indo-Overseas Representatives.—73, Bombay Mutual Bldg., Fort.
Industrial Engineering Co.—45, Apollo Street, Fort.
Industries Service Corporation.—11, Bruce Street, Fort.
Inter-Asia Commercial Co.—111, Tamba Kanta, Bombay.
International Corporation.—12-A, Nanabhai Lane, Flora Fountain, Fort.
International Imports & Exports Ltd.—259, Kalbadevi Road, Bombay 2.
International Mercantile Corporation.—313, Himalaya House, 3rd Floor, Junction of Hornby Road and Palton Road, Bombay 1.
International Traders.—People's Building, Sir Phirozshah Mehta Road, Fort.
Italindia Cotton Ltd. (Estd. 1922).—Indian Globe Chambers, Fort Street, Fort, Bombay.
Jafferbhoy Salebhoy & Co.—201, Nagdevi Street, Bombay 3. Grams: "Wingfish". General Merchants, Exporters & Importers.
Jagkumar & Co.—Prospect Chambers Annexe, 317-321, Hornby Road, Fort. Phone No. 21569.
Jagmohandas Shamaldas & Sons.—11, Tamarind Lane, Fort.
Jani & Co.—Vora Mansions, New Chinch Bunder.
Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.
Jassawala & Co., R. M.—105, Apollo House, Apollo Street, Fort.
Jeena & Co.—Elphinstone Building, 10, Vir Nariman Street, Fort.
Joshi Jivandas Gangaram & Co.—282, Narsi Natha Street, Bombay. Estd. 1923.
J. S. Eliezer.—6, Moti Mahal, Churchgate Reclamation. Phone: 21138.
K. A. Singh & Co.—Minthi Mansion, Sitladevi Road, Mahim, Bombay 16.
Kanji Morarji.—285-87, Narsi Natha Street, Bombay 9.
Kamat & Co. (Bombay).—134, Medows Street, Fort.

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KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 253041, 253628 and 255636. Grams: "EXPIM."

Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay.

Karia Brothers.—Sethna Building, Princess Street, Bombay 2.

Karim Gulam Husain.—Bell Building, Sir Phirozshah Mehta Road, Fort.

Karimjee Trading Co., Ltd.—Rahimtoola House, 7, Homji Street, Fort.

Kashandas Private Limited.—43, Tamarind Lane, Fort, Bombay.

Kavarana, E. F., & Co.—Botawala Building, Bomanji Master Road, Bombay 2.

Kavarana, Muncherji Heerjibhoy.—New Silk Bazar, opp. Kalbadevi P.O., Kalbadevi.

Keshavji Virji & Co.—8, Elphinstone Circle, Fort.

KESHAVLAL TALAKCHAND (PRIVATE) LTD.—India House, opp. G.P.O., Fort, Bombay 1. Phone: 262934. Grams: "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem.

Keshavlal, J., & Co.—Saheb Building, 195, Hornby Road, Fort.

Khanna & Hari Raj.—166, Hornby Road, Fort.

KHARAS BROS.—14, Hamam Street, Fort. Merchants, Importers & Exporters, Grams: "KHAYA." Phone: 251805.

K. Hassaram & Co. (Estd. 1881).—New Silk Bazar, Kalbadevi Road, Bombay 2.

Khatau Vallabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1. Tel. Address: "SCARLET."

Khazzam, E. S., & Co., Ltd.—Bombay Mutual Building, Hornby Road, Fort.

Khosla & Co., L. C.—39, Prospect Chambers Annexe, Hornby Road, Fort.

Khoury, N., & Company.—Western India House, Sir Phirozshah Mehta Road, Fort.

Kidarnath Kishanchand.—106, Medows Street, Fort, Bombay.

Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.

Kirti Trading Corporation Ltd.—Fazalbhoy Building, opp. Flora Fountain, Fort.

Kishinchand Chellaram.—Guzdar House, Dhobi Talao.

Komet Merchandising Corporation.—38, Devkaran Mansion, 43, Princess Street.

Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Kroz & Co.—Podar Chambers, Parsi Bazar Street, Fort.

K. J. CORPORATION.—78, Ali Chambers, Tamarind Lane, Bombay 1. Phone: 254261. Grams: "KEJECORP." Importers, Exporters and Manufacturers' Representatives, Specialised & Stockists in Leather Goods, such as Pickers, Leather Beltings, Buffers & Pickers Screws, etc., Wooden Articles, Bobbins & Loom Sundries.

Kundanmal Ramlal.—78/80, New Hanuman Lane, Bombay 2.

Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.

KUSUMGAR (OVERSEAS) PRIVATE LIMITED.—503, Kalbadevi Road, Bombay 2. Phone: 22904. Grams: "KUSUGRUP." Importers, Exporters and Manufacturers' Representatives.

Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.

Laljee Devraj & Co.—168/70, Sheriff Dewji Street, Bombay 3.

Lalji Dayal.—Near Gopal Lane, Mulji Jetha Market, Bombay 2.

Lallubhai Gulabchand Jhaveri.—149, Shroff Bazar.

Leories Trading Co.—23, Hamam Street, Fort, Bombay.

Liladhar P. Shah & Co.—335, Samuel Street, Vadgadi, Bombay 3.

Loeffler & Co., E.—Noble Chambers, Parsi Bazar Street.

Loucatos, G., & Co.—Menkwa Building, Outram Road, Fort.

L. R. Trading Co.—Navsari Chambers, opp. Lloyds Bank, Outram Road, Fort.

Lusob Trading Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.

M. R. Varma & Sons.—60, Lakshmi Bldg., Sir P. Mehta Road, Bombay 1.

Macropolo, D., & Co., Ltd.—Kermani Building, Hornby Road, Fort.

Madan Mohan Jain & Sons.—215-17, Kalbadevi Road.

Madhav Agency.—Mohan Building, Girgaum Road.

MAMAJI & SON (PRIVATE) LTD., Y. A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MAMAJISON." Importers & Exporters, P.V.C. Leather Cloth, Motor & Carriage upholstery materials, Saddlery & Harness goods and all kinds of Felt.

Madhavlal S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.

Madhoram Moolchand.—80/82, Nagdevi Street, Bombay 3.

MAGANBHAI & LALLUBHAI.—184-186, Sheikh Memon Street, Bombay 2. Jewellers, Direct Importers and Exporters of Real and Cultured Pearls, Platinum, Precious Stones, Watches. Synthetic Rough and Cut. Phones: 23785 and 22217 (Res.). Grams: "MOTIBUTTON."

Mahendra, A. C., & Co.—12, Noble Chambers, Parsi Bazar Street, Fort.

Mahomedali Esmail. (Estd. 1924.)—Stock Exchange Building, Apollo Street, Fort.

Mahomedally Hebatbhoy & Co.—15, Mirza Street, Parsi Gully.

MANEKJI NENSEY & CO.—Oils, Seeds, Grains, Spices and Textiles. Exporters and Importers, 172-186, Argyle Road, Bombay 9. Phone: 39318. Grams: "MANEKJIRAJ."

Maneklal & Co.—166, Hornby Road, Fort, Bombay.

Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.

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Gaya Bldg., Musjid Bunder Road
Bombay 3

Phone: 20457 Cable: SPICEDRUG

Mansukhlal Kantilal & Co.—Mulji Jetha Building, 185, Princess Street.

Manubhai, Sons & Co.—Manu Mansion, 16, Custom House Road, Fort, Bombay. Grams: "SUNFLAMES." Phone: 25-1028.

Mata Lachhmi Co.—Husseini Chambers, Nanabhai Lane, Fort.

McKenzies Ltd.—Sewri.

Mehta & Co., P. N.—Cook's Building, 324, Hornby Road, Fort.

Mehta Brothers.—Hamam House, Hamam Street, Fort.

Mehta Mody & Co.—Devkaran Mansion, No. 5, Mangaldas Road, Bombay 2.

Mehta Ramakrishna & Co., Ltd.—Neptune Building, 166, Hornby Road, Fort.

Menghraj & Sons (India).—Alice Building, 339, Hornby Road.

Merchant Bros.—151, Nagdevi Street.

Merwanji Poonjiajee & Sons.—Princes Dock, Frere Road.

METRO CYCLE CO.—421, Kalbadevi Road, Bombay 2. Phone Nos. 28389 & 28340. Grams: "METROCYCLE." Dealers in Cycles, Parts, Hardware, M. V. Parts, etc.

MODERN ELECTRIC CORPORATION.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 262120.

Mohanlal Motilal.—4th Floor, Yusuf Building, Mahatma Gandhi Road, Fort.

Morarji Vandravan & Co.—Krishnaraji Chawk, Mulji Jetha Market, Bombay 2.

Morrison, Son & Jones (India) Ltd., J. L.—Universal Building, Sir Phirozshah Mehta Road, Fort.

Motiram & Co.—79, Himalaya House, Paltan Road, Bombay 1.

Murlidhar and Khemchand & Co.—Rehem Mansion, 50, Colaba Causeway, Bombay.

Murugappa & Sons.—3rd Floor, United India Building, Sir Phirozshah Mehta Road.

MUSRY, G. N., PRIVATE LTD.—Canada Building, Home Street, Fort. Phone No. 26-1435. Grams: "DANDELION." Importers and Exporters.

NADKARNI, D. A., & CO. PRIVATE LTD.—(Incorporating Ideal Book Co.), 22, Gowalia Tank Road, Bombay 26, Booksellers & Publishers. Direct Importers of Medical Books from U.K. & U.S.A.

Nanavati & Co., Ltd.—16, Apollo Street, Fort.

Nanji V. Dossa & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

Narandas Ranchhoddas & Co.—93, Nagdevi Cross Lane, Bombay 3.

Narotamdas Chunilal & Co.—51, Tamarind Lane, Fort, Bombay.

Narsee Nagsee & Co.—3, Chinch Bunder, Bombay No. 9.

Navinchand Ratanchand & Co.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

New India African Co., Ltd.—Mathuradas Building, 344/46, Kalbadevi Road, Bombay 2.

N. DEVIDAS & CO.—44, Dariyasthan Street, Bombay 3. Phone No. 38484. Grams: "ENGUM." Dealers in all sorts of Gums, Saffron, Cassia, Cloves and Spices.

N. M. Brothers & Co.—Shreeji Bhuvan, Lohar Chawl, Post Box No. 2163, Bombay.

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N. P. Patravali & Co.—Fort Chambers, Hamam Street, Fort.
N. Thakordas & Co.—Lentin Chambers, Dalal Street, Fort.
Orient Corporation Ltd.—Bombay Mutual Annexe, Gunbow Street, Fort.
Overseas Trade & Agencies (India).—Beaumon Chambers, Medows Street, Fort, Bombay 2.

P. PARBHULAL & CO., PRIVATE LTD.—Metropolitan Insurance House, Dr. D. N. Road, Bombay 1. Phone : 262264 & 261157. Importers of Rayon Yarn, Staple Fibre, Raw Silk, Cotton Yarn Piece-goods, Cotton, Woollen, Rayon and Silk Paper, Bailing Hoops, Leather Cloth, Cutlery, etc. Exporters of Cotton Yarns, Cotton, Silk and Rayon Piece-goods, Staple Fibre, Yarn, Silk, Noils, Paper, Cement.

Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.
Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Parekh Trading Corporation.—10, Dubash Chambers, Kumpta Street, Ballard Estate, Bombay 1.
Parmanand Maneklal & Co.—Maskati Mahal, Lohar Chawl, Bombay 2.
Partabsingh Jagatsing & Sons.—People's Building, Sir Phirozshah Mehta Road, Fort.
Patel, M. K. & Co.—Wakefield House, 16, Sprott Road, Ballard Estate, Fort.
Pavri Sons & Co.—93-97, Bazargate Street, Fort.
P. D. Sheth & Co.—46, Old Hanuman Lane, Bombay 2.
Peerbhoy & Sons, E.—Prop. : 64, Mohamedali Road, Bombay 3.
Pestonji & Co.—24, New Queen's Road, opp. Roxy Talkies, Bombay 4.
Phiroz, N. Motabhoy & Co., Ltd.—Motabhoy Building, 146, Medows Street, Fort.
P. L. Bhatt & Co.—5, Bharat House, 104, Apollo Street, Fort.

POLLACK & CO., F. W.—Importers & Exporters of Essential Oils, Industrial, Fine, Pharmaceutical and Aromatic Chemicals, Textiles, Plastics, Cattle Food. 11, Oak Lane, Fort, Bombay 1. Phone : 25-1020. Grams : "POLCOMPANY."

Popatlal Girdharlal & Co.—49, Apollo Street, Fort.
Popular (Imp.-Exp.) Trading Co.—Javeri House, 110, Medows Street, Bombay 1.
Prashant Trading Co.—352/54, Samuel Street, Bombay 3.

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone : 251748. Grams : "WIDESCOPE." Importers, Exporters and Agents : Sulphur—Chemicals—Solvents, Fertilizers, Minerals—Lime—Jute—Products.

Prem Brothers.—Kitab Mahal, 192, Hornby Road, Fort.

PREMIER TRADING CORPORATION.—46, Veer Nariman Road, Bombay 1. Phone : 255084 (4 lines). Grams : "NACHIKETA."

Premji Haridas & Co.—Bhanushali Building, 168, Argyle Road, Bombay 9.
P. R. Patel & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Purshotamdass Popatlal & Co.—Currimbhoy House, Outram Road, Fort.
Pyarally Gulamhusen & Co.—106, Tantanpura Street, Khoja Moholla, Bombay 9.
Rahimtoola Dhunji & Co.—93, Tantanpura Street, Khadak, Bombay 9.
Raichand Brothers (India) Ltd.—11-B, Noble Chambers, Ghoga Street, Fort.
Rajal Corporation.—30, Rampart Row, Fort.
Rajgor, S. M., & Co.—Hanuman Building, Tambakanta, Pydhownie, Bombay 3.
Ralli Bros., Ltd.—21, Ravelin Street, Fort.
Ramjee Samjee Virani (India) Ltd.—185, Bazargate Street, Fort.
Ramchand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.
Ramkisandas Sagarmal.—345, Kalbadevi Road, Bombay 2.
Rasiwalla, M. M. A., & Co.—Hooseinbhai Building, 17, Janjikar Street, Koliwada.
Ratilal Dayabhai Shah.—Tambakanta, Pydhonie, Bombay.
Readymoney Ltd., C. R. H.—107, Mahatma Gandhi Road, Fort.
Reliance Trading Co.—25/47, Lohar Street, Bombay 2.
Rowe & Rowe.—Above Eastern Bank, 381, Hornby Road, Fort, Post Box No. 622, Bombay.
Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Rupani & Co.—Lentin Chambers, Dalal Street, Fort.
Sanghani & Co.—178-180, Abdul Rehman Street.
Sanghavi & Sons.—Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay.
Santhanam & Co.—Exporters, Importers & Commission Agents, Sri Ram Building, 2nd Floor, 195, Dr. Cowasji Hormusji Street, Bombay 2.
Sarabhai & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Satya Prakash Dyes & Chemicals Ltd.—Hornby Building, 174, Hornby Road, Fort.
Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.
Sethisons Ltd.—12, Rampart Row, Fort.
Sewaram Girdharilal.—354, Kalbadevi Road, Bombay 2.
Shah, C. J. & Co.—Churchgate House, Vir Nariman Street.
Shah Narotamdas Harjivandas Co. (Estd. 1880).—480, Kalbadevi Road, Bombay 2.
Shah Sheth & Co.—Importers and Exporters, 264, Samuel Street, Bombay 3.
Shah Trading Agencies.—19, Hamam Street, Fort, Bombay 1.
Shaikh & Co.—94, Ali Umar Street, Bombay 3.
Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.
Shamsun & Co.—11, Bruce Street, Fort.
Shapurji & Co., R. K.—319, Hornby Road, P. B. 1065, Fort.
Sharad Brothers.—Nehru Road, Bombay 24.
Sheralli Nanjee.—178, Samuel Street, Vadgadi, Bombay 9.
Shree Navjivan Kagdi & Co.—110, Zaveri Bazar, Bombay 2.
Sir Kasturchand Ltd.—Kodak House, Hornby Road. Fort, Bombay.
Sivramkrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone : 26-3001. Grams : "Duty Bound". Wire Netting and Perforated Metals & Stainless Steel Wire Nettings and Monel Wire Nettings. Importers, Exporters and Merchants.

Sobraj Reloomal.—Silk Bazar, Kalbadevi Road.
Soho House.—Vithal Sayana Building, Lohar Chawl.
Sorabji Khursetji & Co.—Calicut Street, Ballard Estate, Bombay.
S. S. Prabhu.—Ghamat Terrace, opp. Western Rly. Dadar Station, Bombay 14.
Steel Brothers & Co. Ltd.—Allahabad Bank Building, Apollo Street, Fort.
Subodh Indent Agency.—44, Kumar Villas, Mangalwadi, Girgaum, Bombay 4.

SUDAN TRADING CO.—"Dhan-Nur", Sir Phirozshah Mehta Road, Bombay 1. Phones—Office : 262788 ; Resi. : 62089. Grams : "VANSOBHA". Importers of Liquid Paraffin, Raw Cotton, Raw Gum Arabic, Lubricating Oil, Domnut, Fluorescent Tubes, Cycles, Ivory. Exporters of Cotton Piecegoods, Art Silk, Tea, Aluminium, Essential Oil, Kirana, Matches and Yarn.

Suppliers & Trading (India) Ltd.—79, Medows Street, Fort.
Suren, W. T., & Co.—United India Building, Sir Phirozshah Mehta Road.
Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Techno-Industrial Syndicate.—19/B, Noble Chambers, Parsi Bazar Street, Fort.
Tejbhandas & Co.—65, Princess Street, Bombay 2.
Textile Industrial Trading Agency.—Western India House, Sir Phirozshah Mehta Road, Fort.
Thakker Sonderjee Nanjee & Sons (India) Ltd.—146, Kalbadevi Road, Bombay 2.
Thakore, T. M., & Co.—Readymoney Mansion, 43, Vir Nariman Street, Fort.
Traders' Link.—17, Ismail Building, 381, Hornby Road, Fort.
Trading Co., Late Hegt & Co., Ltd.—Indu House, Dougall Road, Ballard Estate.

TRANS-UNION COMMERCIAL CORPORATION PRIVATE LTD.—Prospect Chambers Annexe, 319, Dr. Dadabhai Naoroji Road, Fort, Bombay. Grams : "TRANSMETER." Phone : 251610.

Unita Corporation.—37, Yusuf Building, Mahatma Gandhi Road, Fort, Bombay.
United Commercial Co.—72-80, Nagdevi Cross Lane, Bombay 3.
United India Trading & Manufacturing Co., Ltd.—Shale Building, Bank Street, Fort.
Universal Trading Co.—(Established 1947). 346, Kalbadevi Road, Bombay 2.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Vadilal Vrajlal & Co.—Peerbhoy Building No. 2, Princess Street.
Valiram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
Varjiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

VASANTRAI GOVERDHANDAS & BROS.—75, Mohamedali Road, Bombay 3. Phone : 28209. Grams : "VIGIBROS."

Vasi Bros. & Co.—Topiwalla Mansion, Mahomedalli Road, Bombay 3.
Vikram Padamsey & Co.—Rustom Building, Vir Nariman Street, Fort.
Virchand Panachand & Co.—272, Narsi Natha Street, Bhat Bazar, Bombay 9.
Vishram Bhagwandas & Co.—31, Sutar Chawl, Bombay 2.
Vishram Khimji & Sons.—57-59, Kazi Sayed Street, Mandvi, Bombay 3.
Vithaldas & Co.—75, Khand Bazar, Bombay 3.
Volkart Bros.—19, Graham Road, Ballard Estate, Bombay.

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Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.
Wakefield, C. C., & Co., Ltd.—91, Walkeshwar Road, Bombay 6.
Wallace, P. R., & Sons, Ltd.—"Elphinstone Building," 10, Churchgate Street, Fort.
Walthom Trading Corporation Ltd.—12, Nanabhai Lane, Fort, Bombay.
Watanmal Boolchand.—P.O. Box 2233, 534, Kalbadevi Road, Bombay 2.
Western India Hardware Mart.—16, Narayan Dhuru Cross Lane, Bombay 3.
Western Link Co.—Importers, Exporters & Indenting Agents, 19, Bank Street, Fort.

WINDMERE (INDIA) PRIVATE LTD.—Importers, Exporters of Indian Produce, Cotton Piecegoods and Yarn and Commission Agents, 110, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay. Grams: "WINDNERE." Phone: 252443.

INCANDESCENT LAMPS AND GAS MANTLES MANUFACTURERS

ANGLO ORIENTAL LIGHT CO.—Peerbhoy Bldg., 89, Princess Street, Bombay 2. Phone: 20120. Grams: "ANGLO-LIGHT". Manufacturers and Importers of Petromax Lanterns, Heating Apparatus, Gas Mantles, Stoves & all accessories.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bombay Novelty Stores.—74, Lohar Chawl, Bombay 2.

BOMBAY STOVE & HARDWARE DEPOT.—T. G. Shah Building, Pydhonie, Bombay 3. Phone: 38546. Grams: "BLUE-FLAME." Importers, Merchants, Manufacturers. Sole Agents for "Goldmohar" Stoves, Lanterns, etc. Branch: Vithal Sayana Building, Lohar Chawl, Bombay 2. Phone: 20372.

CHUNILAL KHANNA & CO.—Saraswati Nivas, Thakurdwar Road, Bombay 2. Phone: 23513. Grams: "BABALALU."

EASTERN LIGHTS COMPANY.—78, Lohar Chawl, Bombay 2. Phone: 20977. Grams: "GREATLIGHT". Manufacturers of ELITE brand Gas Mantles, Lanterns, Stoves and their spare parts. Direct Importers and Wholesalers of Torches, Thermos, Stoves, Wick Stoves and Accessories.

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

H. T. SHAH & CO.—Ahmed Building, Golpitha, Bombay 4. Phone: 41369. Grams: "ACHTISHAH." Direct Importers and Wholesale Dealers in Petromax Gas Lights, Sole Distributors of Swedish make SVEA Cooking Stoves and 'Sievert' Heating Apparatus, Blow Lamps, Flash Lights, Batteries and Electrical Goods. Manufacturers of Kingson Stoves and Gas Lanterns.

I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.
Indo Trading Co.—Jay Nivas, 36, Abdul Rehman Street, Bombay 3.

JAWAHAR & CO.—Post Office Box No. 2568, Bombay 2. Phones—Office: 38911; Factory: 67294. Grams: "KRANTI." Manufacturers of KIRTI Brand Incandescent Lamps & Gas Mantles.

Katrak Hosiery Works.—167, Lamington Road, Bombay 7. Manufacturers of High Power Incandescent Gas Mantles and High Class Hosiery Goods.

L. C. TRADING CO.—62, Lohar Chawl, Bombay 2. Phone: 22594. Grams: "ELCITIKO". Manufacturers of CHAMPION brand Gas Lanterns, Mantles, Stoves and their spare parts. Direct Importers of Torches, Bulbs, Thermos, Petromax Lamps, Stoves, Wick Stoves and Accessories.

LIBERTY PRODUCTS.—Pydhonie, Bombay 3. Cable: "STOVELAMP," Bombay. Manufacturers of Best Quality Stoves, Lanterns, Blow Lamps, Mantles and their all spare parts.

LIGHT HOUSE.—51, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2. Phone: 30351. Grams: "GREATWALL." Agents for "HGEC" Brand Electrical Accessories. Manufacturers of "KOTEX" Brand Auto Bulbs, Electrical Bulbs, Stoves, Lanterns and Gas Mantles. Distributors for "UNIFLASH' Torches.

METRO ENGINEERING WORKS.—13/4, Municipal Chawl 1, Sabu Sidick Street, Bombay 1. Grams: "LIGHTFLAME." Manufacturers of Famous "Metro," "Zenith" & "Flex" Brand Stoves & Lanterns & "Metro" Brand Hanging & Blow Lamps and "TORPEDO" Lamps 1200 C.P.

NEW ROYAL CO., THE.—Sharu Castle, Mohamedally Road, Bombay 3. Factory: 221/D, Corner Grant Road, Bombay 8. Manufacturers of famous Petrodelam Stoves, Lanterns and their spare parts.

PAGODA INDUSTRIES.—Manufacturers of Incandescent Pagoda, Jalwa, Volga, Redlamp, Gas Mantles, etc., Bombay Talkies Compound, Malad, Bombay 64.

PARADISE PRODUCTS CO.—Laxmi Woollen Mills Compound, Haines Road, Mahalaxmi, Bombay 11. Phone: 42751. Grams: "PARALAMPS." Manufacturers of 'PARADISE' Brand Stoves, Blow Lamps & Incandescent Lamps & Wick Stoves.

POCHEE, C. S., & SON (Estd. 1884).—586, Chira Bazar, Girgaum Road, Bombay 2. Phone: 30415. Grams: "GASMANTLES." Government & Railway Suppliers, Manufacturers of Pochee Incandescent Lanterns, Mantles, Regal Stoves & Blow Lamps Accessories and Industrial Heating Appliances.

PRABHAT (STOVE AND LAMP) PRODUCTS CO. PRIVATE LTD.—Manufacturers of "Prabhat" Brand Gas Mantles, Gas Lanterns, Kerosene Stoves, Blow Lamps and their Accessories. Factories at Prabhat Wadi, Love Lane, Bombay 27 and 222, Bellasis Road, Prabhat Wadi, Bombay 8. Office at Noble Chambers, Parsee Bazar Street, Fort, Bombay. P.O. Box No. 291. Grams: "NIGHTGUARD." Phones—Office: 254594, Factory: 74946 & 70536. Branches at Calcutta, Madras, Delhi, Kanpur, Patna and Indore.

RASIKLAL & COMPANY.—Peerbhoy Building, 89, Princess Street, Bombay 2. Grams: "COCKLITE." Sole Agents for COCK Brand Lanterns, Stoves, Mantles, Blow Lamps and parts. Importers & Exporters. Prop.: Rasiklal Khara.

SHAH BROS.—Shirin Mansion, Phydonie, Bombay 3. Dealers & Manufacturers of Lamps, Lanterns, Blow Lamps, Stoves, Mantles and their all spare parts.

STAR INCANDESCENT LIGHT CO., THE.—P.B. No. 2089, Shreeji Bhavan, 68, Lohar Chawl, Bombay 2. Manufacturers of VICTOR-Magnet-Star Brand Gas mantles, Stoves and Lanterns.

INCOME-TAX CONSULTANTS

Alexander & Co. (Established 1928).—Whiteaway Laidlaw Building, Hornby Road, Fort.
Hiralal & Co.—14, Hornby Road, Fort, Bombay.
Kulkarni, U. H., & Co.—Commissariat Building, 231, Hornby Road, Fort.
Pritamdas F. Wadhwaney.—172-74, Hornby Road.

INDENTING AGENTS

NARVO.—IC—Hooseini Chambers, 4th Floor, Nanabhai Lane, Fort, Bombay 1. Grams: "AVNAVO." Phone: 254088. Sole Distributors for: Tartaric Acid "STAR" Brand (French), Antimony Oxide & Arsenic (Chinese), Potassium Guaicol Sulphonate & Dye intermediates (French). Indenting Agents of: all Chemicals, Fine Pharmaceuticals, Dye intermediates, raw materials for the Pharmaceuticals, Paints, Plastic and Rubber Industries, etc. Also Menthol, Thymol, Camphor, Sulphur, etc., etc.

INDUSTRIAL & COMMERCIAL MANAGEMENT & COST CONSULTANTS

BEACONS PRIVATE LIMITED.—United Bank of India Bldg., Sir Phirozshah Mehta Road, G.P.O. Box No. 1723, Bombay 1.

IBCON PRIVATE LIMITED.—Industrial and Business Consultants, Adelphi House, 119, Queen's Road. Phone: 242052/3. Grams: "IBCO." Branches: 2, Fairlie Place, Calcutta. George Oakes Building, Sri Narasimharaja Square, Bangalore. 2, Mahatma Gandhi Road, Kanpur. 85, Ward Place, Colombo, Ceylon 7.

R. NANABHOY & CO.—Ballard House, 14, Mangalore Street, Fort, Bombay 1. Cost Accountants, F.I.C.W.A., Control Consultants, F.C.W.A., F.C.C.S., A.S.C.C. (London). Phones: 265420; 42392. Grams: "RANACOST." Partner: R. Nanabhoy (Mehta).

INDUSTRIAL ENGINEERS

POWER-GAS CORPORATION LTD.—Meher Chambers, Nicol Road, Ballard Estate, Bombay 1.

INDUSTRIAL EQUIPMENT

LIGHT METAL WORKS.—New Sun Mill Compound, DeLisle Road, Bombay 13. Manufacturers of Industrial Equipment and Export Articles in Stainless Steel & Aluminium and its Alloy Castings.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone: 251882. Also at Calcutta, New Delhi and Madras. Suppliers of "PFM" Foundry and other Industrial Equipment manufactured by PIONEER FOUNDRY MACHINERIES, BARODA.

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INDUSTRIAL INSTRUMENTS

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. Phone : 251882. Also at Calcutta, New Delhi and Madras. Importers & Dealers of Industrial X-Ray Equipment, Physical Testing Instruments, Sand Testing Equipment, Chemical Industries Instruments, etc.

INDUSTRIAL LIFTING TRUCKS

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone : 255297. Hand Trucks, Rubber tyred Wheels, Electric Platform Trucks, Chain Blocks, Fork lift Trucks.

INDUSTRIAL AND SPECIALISED OILS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Dhirren & Co.—34, Cawasji Patel Street, Fort.
Industrial Oils Manufacturing Co. of India.—Prospect Chambers, Hornby Road, Fort.
Kosma Laboratories.—Allahabad Bank Building, Apollo Street, Fort.
Roberts, McLean & Co., Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Bombay.

INDUSTRIAL SAFETY & RESPIRATORY EQUIPMENTS

JOSEPH LESLIE & CO.—Safety Engineers, Mfgrs. of Industrial Safety Appliances and Respiratory Equipment; 105, Apollo Street, Bombay 1. Phone: 251608. Grams: "LEONINE."

INFRA RAY EQUIPMENT

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
Shah, M., & Co.—Sandhurst Road, Bombay 4.

INK MANUFACTURERS

Bitex Private Limited.—147, Esplanade Road, Fort.

CAMEL INK
De Luxe
With CAMLI-SOL 'GL'
Also **Camel Brand**
• **Gum**
• **Paste**
Sealing Wax • Chalksticks
Brilliantine • Camlin's Pain Balm

Manufactured by:
CAMLIN PRIVATE LIMITED
Grams: "CAMELINK" BOMBAY 16 Phone : 61158
Factory at ; ANDHERI. Phone : 86949

Desai Brothers.—80/90, Omrigar Bldg., Lohar Chawl, Bombay 2.
J. B. A. Printing Inks Private Ltd.—Bombay Agra Road, Bhandup, Bombay 40.

KSA INK & CHEMICAL FACTORY.—Mfrs. of "KSA" Special Inks, Gums, Paste etc. Mherwan Bldg., Sir Phirozshah Mehta Road, Bombay 1. Phone : 251637. Grams : "PEN-INK," Bombay.

KORES (INDIA) LIMITED.—Plot No. 10, off Haines Road, Worli, Bombay 18. Manufacturers of Ink Tablets, Stamp Pad and Numbering Inks, Duplicating Inks, etc. Phone : 73454 (Three lines). Grams : "KORESCARBO".

LATHAM ABERCROMBIE & CO., PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone : 268081. "LATHAMS."

Rainbow Ink and Varnish Mfg. Co. Private Ltd.—Suryodaya Mill Compound, Tardeo, Bombay 7. Phone : 42471. Grams : "RAINBOINK."
Stewarts Laboratories.—327, Hornby Road, Fort, Bombay.

INSTITUTIONS (COMMERCIAL)

BOMBAY TYPEWRITING INSTITUTION.—(Recognised by Government). Typewriting Taught, Typewriters & Duplicators bought, sold, repaired & hired. Type-copying and Duplicating work undertaken. Opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Fort, P.B. No. 936, Bombay 1. Phone : 26-2484.

INSULATION MATERIALS

Asbestos Packing Mfg. Co.—15/A, Bruce Street, Bombay 1.
B. B. Electric & Auto Stores.—98, Princess Street, Bombay 2.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
British Electric Insulating Co.—33, Forbes Street, Fort.
British Insulated Callender's Cables Ltd.—Esplanade House, Waudby Road, Fort.

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. Phone : 251517/8. Grams : 'DERAC'. Manufacturers of Thermocole for Cold Insulation. Blocks, Slabs and Pipe Sections.

COMMONWEALTH INSULATIONS CHEMICALS & FERTILISERS PRIVATE LTD.—Ismail Building, Hornby Road, Fort, Bombay 1. Phone : 253570. "SUN & CROSS" Brand 85% Magnesia Hard Setting Compound, Anti-incrustative Boiler Compound, Anti-Corrosive Boiler & Chimney Paint, Binding Cement, Binding Mortar & Refractory Cement.

Economic Electric Co., Ltd.—Jail Road, Dongri, Bombay 9.

FAKHRUDDIN & CO.—43, Abdul Rehman Street, P.O. Box No. 3066, Bombay 3. Phone : 34534. Grams : "EXMETAL."

GWALANI BROS. & CO. (INDIA) PRIVATE LTD.—Gopal Bhawan, 199, Princess Street, Bombay 2. Phone : 29276. Specialists in Insulating Materials and armature Winding Wires.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.
Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.
Hindustan Corporation, Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort.
Hindustan Plywood & Metal Depot.—301, Shree Krishna Nivas, Corner of Abdul Rehman Street & Masjid Bunder Road, Bombay 3.
Indianite Insulation Co. of India.—139, Medows Street, Fort.

INDUSTRIAL ELECTRICAL ENGINEERING CO.—10, Hamam Street, Fort. Specialists in Insulating Materials and Armature Wires. Phone : 252836.

Jack, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
Khambatty, H. A., & Co., Ltd.—45-47, Lohar Street, Bombay 3.
McKenzies Ltd.—Sewri.
Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Fort, Bombay. Agents for Western India for Bell's Asbestos & Engineering (India) Private Ltd., 12, Chittaranjan Avenue, Calcutta 12 ; Insulation (cold & hot) Packing, Jointing, Industrial Instrument (manufacture and repair).

LATHAM ABERCROMBIE & CO., PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone : 268081, Grams : "LATHAMS."

PATEL ELECTRIC WIRE & INSULATING CO.—102, Kika Street (Gulalwadi), Bombay 4. Phone : 41307. Grams : "PATELWORKS." Manufacturers & Dealers in Armature Winding Wires and Insulating Materials.

Pioneer Magnesia Works, Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

RADHA BALLABH & SONS.—Ceramics Dept., 15, Bell Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 252612. Grams : "LUSOBTRACO." Selling Agents of Bhupal Mining Works, Bhilwara. Manufacturers of Mica Insulating Bricks, Slabs, Tile & Mortar.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. "JAXBOARD"—Insulation and Building Board. Factory at Dhampur, Uttar Pradesh. Distributors : "INDIAN INSULATION INDUSTRIES, NEW DELHI. Manufacturers of Insul-Wool.

INSURANCE COMPANIES

Advance Insurance Co. Ltd.—251, Dr. Dadabhoy Naoroji Road, Fort.

ALCO INSURANCE CO., LTD.—Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Motor and Accident Insurance Business. Chairman : Y. A. Jasdanwalla; Mg. Dir. : A. A. Jasdenvala; General Mgr. : S. R. Idgunji, A.C.I.I. (Lond.), F.F.I.I. Secretary : A. Y. Jasdanvalla, B.A., LL.B. Phones : 251537 (3 lines). Grams : "ADLOOK."

All India General Insurance Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.

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ALLIANCE ASSURANCE CO., LTD.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay. Fire—all Classes of Accident and Marine Insurance. Branch Manager: S. K. Divecha. Phones: 255467/254903. Grams: "SOCIETATE," Bombay.

AMERICAN INSURANCE CO., THE.—(Incorporated in the U.S.A. Liability of Shareholders Limited)—Universal Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 255638 (Three lines). Grams: "AFIAINDIA." P.O. Box 977. Manager for India: Mr. P. B. Dastur.

American International Underwriters (India) Private Ltd.—Warden House, Sir Phirozshah Mehta Road, Fort.

Atlas Assurance Co., Ltd.—Dougall Road, Ballard Estate. (Fire—Marine—Motor—Accident and General).

Aundh State Provident Insurance Co., Ltd.—Jiji House, 15, Ravelin Street, Fort, Bombay.

Baloise Marine Insurance Co., Ltd., The.—of Basle (Switzerland), Principal Office for India: French Bank Building, Homji Street, Bombay 1. Telegrams: "BASLER." Telephone: 25-5121. Transacts Fire, Marine, Miscellaneous Insurance and Reinsurance.

Bombay Fire and General Insurance Co., Ltd.—Henley House, Graham Road, Ballard Estate, Bombay 1.

British India General Insurance Co., Ltd.—Mehta House, Apollo Street, Fort, Bombay.

British Traders' Insurance Co., Ltd.—Hongkong Bank Building, Veer Nariman Road, Fort.

Central Insurance Co., Ltd.—Canada Building, Home Street. (Fire—Accident and General).

Clive Insurance Co., Ltd.—Elphinstone Building, Veer Nariman Road, Fort. Chief Agents: Gillanders Arbuthnot & Co. (Fire—Motor—Accident and General).

COMMERCIAL UNION ASSURANCE CO., LTD.—9, Wallace Street, Fort, Bombay. Phone: 264841. Grams: "CUACO."

Commonwealth Assurance Co., Ltd., Poona.—Bombay Branch: Commonwealth Building, 82, Medows Street, Fort.

Concord of India Insurance Co., Ltd., The.—Hongkong Bank Building, 16, Veer Nariman Road, Fort. (Fire—Marine—Accident and General).

Crescent Insurance Co., Ltd., The.—Crescent Chambers, Tamarind Lane, Fort.

Deepak General Insurance Co., Ltd., The.—8-10, Tamarind Lane, Fort. Phone: 22261. Grams: "DISCRETION."

DEVKARAN NANJEE INSURANCE CO., LTD.—Devkaran Nanjee Buildings, Horniman Circle, Fort. Phone: 253938/9. Grams: "DEVINSURE." (Fire and Miscellaneous).

Eagle Star Insurance Co., Ltd.—Standard Building, Dr. Dadabhoy Naoroji Road, Fort.

Economic Insurance Co., Ltd.—Settling Agents: W. H. Brady & Co., Ltd., Veer Nariman Street, Fort. (Marine).

Employers' Liability Assurance Corporation Ltd., The.—Bombay Branch: Brady House, Veer Nariman Road, Bombay 1.

General Assurance Society, Ltd.—General Assurance Building, Hornby Road, Fort, Bombay.

Goodwill Assurance Co., Ltd.—Head Office: 113, Mahatma Gandhi Road, Opp. Clock Tower, Fort, Bombay.

Gresham Fire & Accident Insurance Society Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

Hanover Fire Insurance Co. of New York.—Warden House, Sir Phirozshah Mehta Road, Fort.

Hercules Insurance Co., Ltd. (Incorporated in India).—Branch Office: 21, Ravelin Street. (Fire—Marine—Motor—Accident and General).

Indian Globe Insurance Co., Ltd.—Prospect Chambers, 315-321, Hornby Road, Fort. (Fire—Marine and Accident).

Indian Guarantee & General Insurance Co., Ltd.—Oriental Buildings, Mahatma Gandhi Road, Fort, Bombay.

Indian Mercantile Insurance Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate. (Fire—Motor—Workmen's Compensation—Marine and Riot Insurers).

INDIAN TRADE & GENERAL INSURANCE CO., LTD.—Principal Office: Jehangir Building, Mahatma Gandhi Road, Fort, Bombay. Grams: "ADASTRA". Phone: 255101. Business transacted:—Fire, Marine, Motor & Miscellaneous. Branches: (1) Calcutta; (2) New Delhi; (3) Cochin; (4) Madras; (5) Nagpur; (6) Ahmedabad; (7) Agra; (8) Bangalore; (9) Secunderabad; (10) Lucknow; (11) Allahabad; (12) Indore; (13) Ranchi; (14) Jaipur; (15) Amritsar; (16) Ludhiana; (17) Calicut; (18) Alleppey; (19) Quilon; (20) Trichur; (21) Raipur; (22) Rajkot; (23) Hubli. Overseas Branches (1) Karachi; (2) Aden; (3) Singapore; (4) Nairobi; (5) Mombasa; (6) Dar-es-Salam; (7) Penang. Agency Offices (1) Kuwait. Management: Surender Lall—Director, T. M. Telang—General Manager, B. B. Sawhney—Dy. General Manager.

JAYABHARAT INSURANCE CO., LTD., THE.—French Bank Building, Homji Street, Fort. (Fire—Marine—Motor and all other general Insurance). Phones: 253941, 253942, 253943, 253944, 253945.

Jupiter General Insurance Co., Ltd.—State Bank Bldg. Annexe, Bank Street, Fort.

Kaiser-I-Hind Insurance Co., Ltd.—Head Office: Sassoon Building, 141, Mahatma Gandhi Road.

LEGAL AND GENERAL ASSURANCE SOCIETY LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Phone: 255088. Branch Manager: J. X. de Souza. (Fire, Marine and Miscellaneous).

LIVERPOOL & LONDON & GLOBE INSURANCE CO., LTD., THE.—(Incorporated in England; Shareholders' Liability Ltd.)—12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "GLOBANCE." Phone No. 246226 (5 lines). Post Box No. 1848. Head Office: 1, Dale Street, Liverpool, England.

London Assurance, The.—Principal Agents: Anglo-Thai Corporation Ltd., Ewart House, Bruce Street, Bombay. (Fire & Marine).

LONDON & LANCASHIRE INSURANCE CO., LTD., THE.—Mehta House, Apollo Street, P.O. Box 117, Bombay. Grams: "LONDLANC". Phone: 252365. Fire, Marine, Motor, Accident (All Types), Engineering. Local Manager: S. Gupta.

LONDON & PROVINCIAL MARINE & GENERAL INSURANCE CO. LTD.—10, Bruce Street, Fort. Phone: 252321. Grams: "LOPROMAR."

MANUFACTURERS LIFE INSURANCE COMPANY OF CANADA.—123, Mahatma Gandhi Road, Fort, Bombay. Phone: 253282. Grams: "MANULIFE." Secretary for India: C. N. Parikh.

Marine & General Insurance Co. Ltd.—Standard Building, Dr. Dadabhoy Naoroji Road, Bombay 1.

NATIONAL EMPLOYERS' MUTUAL GENERAL INSURANCE ASSOCIATION LTD.—Kamani Chambers, 32, Nicol Road, Ballard Estate, P.O. Box 730. Phone: 26-2823/4 (2 Lines). Grams: "EMPLOMUTUA."

National Fire & General Insurance Co., Ltd.—National Insurance Building, Hornby Road. (Fire, Marine and Accident).

NATIONAL INSURANCE COMPANY OF NEW ZEALAND LIMITED, THE.—(Incorporated in New Zealand with Limited Liability). Head Office: Dunedin, New Zealand. Principal Office for India: Rahimtoola House, Homji Street, Fort, Bombay 1. Transacts Fire, Marine and Miscellaneous Business. Principal Officers for India: S. R. Idgunji, A.C.C.I. (Lond.), F.F.I.I. and A. Y. Jasdanwalla, B.A., LL.B. Phones: 251537-9. Grams: "OTAGO," Bombay.

Neptune Assurance Co., Ltd.—104, Apollo Street, Fort, Bombay 1.

New Asiatic Insurance Co., Ltd.—Bombay Branch: Imperial Bank Building Annexe, Bank Street, Fort.

NEW GREAT INSURANCE CO. OF INDIA, LTD.—Principal Office in the Union of India: 45-47, Apollo Street, Fort. General Manager: Shri M. G. Mody.

New Hampshire Fire Insurance Co. of Manchester, New Hampshire.—Warden House, Sir Phirozshah Mehta Road, Fort.

NEW INDIA ASSURANCE CO., LTD.—New India Assurance Building, Mahatma Gandhi Road, Fort, Bombay. Managing Director: B. K. Shah, F.I.A. (Transacts Fire—Marine—Motor—Aviation—Machinery and all classes of Accident Business).

New Zealand Insurance Company, Ltd.—Hongkong Bank Building, 16, Veer Nariman Road, Bombay.

North British and Mercantile Insurance Co., Ltd.—9, Wallace Street, Fort, Bombay. Phone: 264841, Grams: "Norbrit".

North China Insurance Co., Ltd.—Hongkong Bank Building, Veer Nariman Street, Fort. (Marine).

NORWICH UNION FIRE INSURANCE SOCIETY, LTD.—16, Bank Street, Post Box No. 49, Fort, Bombay. Western Zone Manager: K. M. Dastur. Grams: "NUFAM". Phone: 251985.

OCEAN ACCIDENT & GUARANTEE CORPORATION, LTD., THE.—9, Wallace Street, Fort, Bombay. Phone: 264841. Grams: "NAECO."

PANDYAN INSURANCE CO., LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort. Phone No. 255088 (2 lines). Grams: "LEGRESH."

Pearl Assurance Co., Ltd.—Construction House, Nicol Road, Ballard Estate.

Phoenix Assurance Co., Ltd.—Principal Agents: Castlemuir Ltd., Alice Building, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay. (Fire and Marine).

Presidency Provident and General Insurance Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.

Royal Exchange Assurance Corpn.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Bombay 1.

ROYAL INSURANCE CO., LTD.—(Incorporated in England; Stockholders' Liability Ltd.). 12, Jamshedji Tata Road, Bombay. (Fire—Loss of Profits—Motor—Accident (all classes)—Engineering—Aviation—Marine). Secretary: D. E. Twemlow. Tel. Address: "ROYAL." Phone No. 246226 (5 lines). Post Box No. 1847. Head Office:—1, North John Street, Liverpool, England.

Ruby General Insurance Co., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Scottish Alliance Insurance Co.—9, Wallace Street, Fort. (Fire).

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Scottish Union and National Insurance Co.—16, Bank Street, Fort, Bombay 1. Phone No. 251321. Grams: "FORTIOR".
Sea Insurance Co., Ltd., The.—Head Office for India: Standard Building, Dr. Dadabhoy Naoroji Road, Fort.
Sentinel Assurance Co., Ltd.—Janmabhumi Bhavan, Ghoga St., Fort. (Fire—Motor—Marine—etc.)
SOUTH BRITISH INSURANCE CO. LTD.—(Incorporated in New Zealand), Canada Building, Dr. Dadabhoy Naoroji Road, Bombay 1. Manager: J. S. Bramley. Assistants: R. Dunk; M. S. Ramalingam; V. Srinivasan; B. P. Talati; R. R. D'Souza; C. H. Shahani. Phone No. 264711. Grams: "BRITISH." Branches at: Calcutta, Bombay, Madras, Ahmedabad, Poona.
SOUTH INDIA INSURANCE CO. LTD.—H.O. Jehangir Bldg., Mahatma Gandhi Road, Fort, Bombay. Phone: 255355/6. Business Transacted: Fire, Marine, Motor, Miscellaneous.
SUN INSURANCE OFFICE LTD.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort, Bombay. Fire, All Classes of Accident and Marine Insurance. Manager: S. K. Divecha. Phone: 255467/254903. Grams: "SOCIETATE," Bombay.
Triton Insurance Co., Ltd.—United India Life Building, 3rd Floor, Sir Phirozshah Mehta Road, Fort, P.O. Box No. 115, Bombay 1.
UNION ASSURANCE SOCIETY LTD.—9, Wallace Street, Fort, Bombay. Phone: 264841. Grams: "CUACO."
Union Insurance Society of Canton, Ltd.—Hongkong Bank Building, 16, Veer Nariman Road, Fort. (Fire—Marine—Motor—Accident and General).
UNIQUE MOTOR & GENERAL INSURANCE CO. LTD.—Unique House, Parsee Bazar Street, Bombay 1. Phone: 255364. Grams: "UNIQMOTOR." Managing Director: A. L. Sanghvi; Secretary: Ishwarlal G. Mehta; Main Business: Transacting all types of Motor & Personal Accident Insurance.
United India Fire & General Insurance Co., Ltd.—Warden House, Sir Phirozshah Mehta Road, Fort.
United India Life Assurance Co., Ltd.—United India Life Building, Sir Phirozshah Mehta Road, Fort.
UNITED SCOTTISH INSURANCE CO., LTD.—Hongkong Bank Building, 16, Veer Nariman Road, Bombay.
Universal Fire & General Insurance Co., Ltd.—"Universal Insurance Building," Sir Phirozshah Mehta Road, Fort.
Uplift of India Provident Society Ltd.—Advani Chambers, Sir Phirozshah Mehta Road.
Vanguard Fire and General Insurance Co. Ltd., The.—Head Office: Madras. Bombay Branch: Sailor Building, 373, Hornby Road, Fort, Bombay.
Warden Insurance Co. Ltd. (Estd. 1933).—Warden House, Sir Phirozshah Mehta Road, Fort.
Western India Life Insurance Co., Ltd.—(H.O.: Satara City). Bombay Branch: Western India House, Sir Pherozeshah Mehta Road, Fort.
Yorkshire Insurance Co., Ltd.—10, Bruce Street, Fort.
Zenith Assurance Co., Ltd.—Mehta House, Apollo Street, Fort, Bombay.

IRON, STEEL AND BRASS WORKS

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate.
Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.
Alibhoy Mahomedali & Co.—28, Kika Street, Gulalwadi.
Anandji Haridas & Co., Ltd.—Frere Road, Bombay.
Art Metal Works (Estd. 1882).—Office and Factory; 100, Foras Road, near Municipal Workshop, Bombay 8.
Bolinjkar Metal Works Ltd.—Nana Chowk, Bombay 7.
Bombay Iron Works.—Ripon Road Cross Lane, Byculla.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Burjorji Pestonji & Sons, Private Ltd.—Sussex Road, Victoria Gardens, Bombay 27.
CENTRAL INDUSTRIES.—C/o Parekh Metal Works, 196/D, Gaiwadi, Girgaum, Bombay 4. Iron Brass Founders, Electroplaters and Manufacturers of Electrical Accessories & Hardware.
Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.
Chhotalal Keshawji & Co.—Carnac Bunder.
Chimanlal Vadilal & Co.—80, Abdul Rehman Street.
City Engineering Works.—Vandekar Building, Lamington Road.
Curtis & Co., Ltd., J.—6, Mahalaxmi Bridge Arcade, Bombay 11.
Deviprasad Khandelwal & Co., Ltd.—Iron Jetha, Carnac Bunder.
Eastern Metal Works.—102, Kalachowki Road, Bombay 12.
GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.
Globe Stores Co., The.—Sitaram Building, near Crawford Market, Hornby Road.
Hariprasad Amratlal & Co.—Iron Market, Carnac Bunder.
Hatimbhoy, A., & Co.—Iron Jetha, Carnac Bunder, Bombay 9.
Herman & Mohatta, B. R., Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
Joshi & Co.—207, Kumbharwada 6th Lane, Golpitha, Bombay 4.
Kothari, P., & Sons.—2nd Kumbharwada, Bombay 4.
Manekchand Jivraj & Co.—Old Iron Jetha, Darukhana.
Mapara Engineering Co.—381, Dadabhoy Naoroji Road, Bombay 1. Phone: 253398. Manufacturers in mild steel and stainless steel of chemical and Pressure Vessels, Storage Tanks and all Kinds of Sheet Metal and Structural Works.
Mehta & Co.—35, Abdul Rehman Street.
Miakhan Adamji & Co.—Carnac Bunder.
Modern Textile Engineering Works.—194-A, Trimbak Parashram Street, Golpitha, Bombay 4.
MUKAND IRON & STEEL WORKS LTD.—Agra Road, Kurla, Bombay 70.
Muncherjee Byramjee & Co. (Estd. 1882).—Office and Factory: Jerajbhoy Street, 100, Foras Road, near Municipal Workshop, Bombay 8.
Murlimal Santram & Co.—Iron Jetha, Carnac Bunder.
Nadirshaw & Bros.—"Silver Talkies" Building, Khetwadi Back Road, Bombay 4.
New Standard Engineering Co., Ltd.—222, Bellasis Road, Byculla.
Pioneer Iron Foundry.—11, Sukhlaji Street, Corner of Grant Road.
Prabhudas, C., & Co.—247, Argyle Road, Carnac Bunder.
Ramniklal Maganlal & Co.—Iron Market, Carnac Bunder.
Ramsaran Dass Aggarwal & Sons.—163, Nagdevi Cross Lane, Bombay 3.
Richardson & Cruddas Ltd.—Byculla Ironworks, Byculla.
Ripon Foundry, New.—236, Ripon Road, Byculla.
Saif Welding & Engineering Works.—130, Suklaji Street, Bombay 8.
Samartha Engineering & Weaving Co., Ltd.—Neville House, Ballard Estate.
Shantilal Parmanand & Co.—47A, Carnac Siding Road.
SHAPARIA DOCK & STEEL CO. PRIVATE LTD.—Bombay, Shipbuilders, Engineers & Contractors—suppliers to D.G.S. & D., Railways, P.W.D., Port Trusts, Municipalities, etc., specialising in Corrugated Steel Pale Fencing, Ornamental Compound Gates, Rolling Shutters (Ordinary & Fireproof), Rolling Grills, Fire Proof Steel Doors, Collapsible Gates, Tipping Wagons, Light Railway Equipments, Wheel Barrows, Refuse Hand Carts, Platform Trucks, Light Structural Steel Works, Roof Lights, Lead-Ulite (Lead Wool), Steel Rollers, Garden Benches, Tree Guards, Steel Tanks, etc., Works at: Parel Road Cross Lane, Bombay 12. Gram: "SHAPARIA." Phone: 40408.
Standard Metal Works.—17, Falkland Road Low Level, Bombay 7.
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Sun Metal Works.—Factory, Ghodbunder Road, Malad.
Suresh Engineering Works.—Bombay Cotton Mills Estate, Kalachowki Road, Bombay 12. Phone: 41887. Ferrous & Non-Ferrous Castings, Steel Fabrication, Electrically heated Driers and Stainless Steel Fabrication.
Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12. Phone: 62041. Grams: 'SWASTIKROL'.
Tata Iron & Steel Co., Ltd.—Bombay House, 24, Bruce Street, Fort.
United Steel Companies (India) Private Ltd., The.—Himalaya House, Junction of Hornby Road and Palton Road, Bombay 1.
Vithal Purushotum & Sons, Ltd.—2nd Khetwadi Lane, Bombay 4.
Vithaldas, D., & Co.—76, 1st Pathan Street, Golpitha, Bombay 4.
Yahya & Company.—123, Abdul Rehman Street, Bombay 3.

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A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VARNISH." Direct Importers of Iron, Steel & Wire Products.
Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.
Adamji Lookmanji (Iron & Steel) Ltd.—Rahimtoola House, Homji Street, Fort.
Amratlal V. & Co.—Carnac Bunder, Bombay 9.
Amritlal Popatlal & Son.—Darukhana, Mazagaon, Bombay 10.
Anandji Haridas & Co., Ltd.—Frere Road, Bombay.
Arvinda Bros.—165, Vithalbhai Patel Road, Bombay 4.
Ashwin Traders.—35/A, Carnac Siding Road, Iron Market, Bombay 8.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
BOMBAY STEEL SUPPLIES PRIVATE LTD.—19, Bank Street, Bombay 1. Phone: 252625. Grams: "STEELSUPLY."
Chhaganlal & Co.—Carnac Bunder, Bombay 9. Phone: 20751. Grams: "CONTRACTS."
Chimanlal Devchand & Co.—2nd Kumbharwada Lane, Bombay 4.
CHIMANLAL VRAJLAL & CO.—Iron, Steel and Hardware Merchants, Latif House, Iron Market, Bombay 9. Phone: 30963.
Deviprasad Khandelwal & Co., Ltd.—Iron Jetha, Carnac Bunder.

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EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

EAGLE CORPORATION.—Himalaya House, 79, Palton Road, Bombay 1. Phones: Office 265538; 263267 and 78020. Res. 41815. Grams: "EXIMPORT." Importers, Exporters and Indentors of Iron, Steel & Stainless Steel.

Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort, Post Box No. 777, Bombay.

Harbanslal Aggarwal (India) Ltd.—134, Narayan Dhuru Street, Bombay 3.

Hatimbhoy, A., & Co.—Iron Jetha, Carnac Bunder, Bombay 9.

H. Choksi & Co., Ltd.—Medows Street, Bombay 1.

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INDIAN STEEL CORPORATION.—Darukhana, 4th Lane, Behind Gupta Mills, Mazagon, Bombay 10. Phone: 41678. Stockists & Suppliers of Deep Drawing and Black Sheets, Iron & Steel Merchants.

Indo-Bombay Trading Co.—34, Nagdevi Street, Bombay 3.

JINDAL BROTHERS.—3rd Lane, Dharukhana, Bombay 10. Grams: "JINDALSHIP." Importers, Mfrs. and Contractors; Iron & Steel Merchants.

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MANGALDAS RANCHHODDAS & CO.—Iron Market, Carnac Road, Bombay 9. Phone: 29884.

MANUBHAI SHAH & CO.—297, Samuel Street, Bombay 3; Iron Market, Bombay 9. Phone: 27655. Grams: "CHAKOR." Dealers in Iron, Steel, Metals, Chemicals, Dyes, Starches & Mill Stores.

MEHTA & COMPANY.—Latif House, Argyle Road, Iron Market, Bombay 9. Phone: 30963. Grams: "NICERODS." Importers and Stockists of Iron, Steel, Hardware and Metals.

Mehta Nanavati & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.

Nagdevi Tool-Steel Mart.—186-88, Nagdevi Street, Bombay 3.

National Steel & Wire Products.—82/86, Abdul Rehman Street, Bombay 3.

Odhavji, B., & Co.—Carnac Bunder, Argyle Road, Bombay.

Paramount Hardware Mart.—Carnac Bunder, Bombay 9..

Parikh & Co., K.—Iron Market, Carnac Bunder, Bombay 9.

PREMJEE UMERSHI & CO.—New Iron Market, Carnac Bunder, Bombay 9. Phones: 39806, 39023. Grams: "LOVEABLE." Iron & Steel Merchants and Dealers for Tata Iron & Steel Co., Ltd.

P. L. Bhatt & Co.—5, Bharat House, 104, Apollo Street, Fort, Bombay.

Ramniklal Amidas & Co.—Carnac Bunder, Iron Jetha, Bombay 9.

RAMNIKLAL MAGANLAL & CO.—Carnac Bunder, Bombay 9. Phone: 38492. Grams: "TESTED."

RAMSAHAI RAJKUMAR.—85/87, Nagdevi Street, Bombay 3. Phone: 30041 Extn. 4. Grams: "IRONAANGER."

Reliance Iron & Hardware Co.—11, Narayan Dhuru Cross Lane, Bombay 3.

Richardson & Cruddas.—Byculla Iron Works, Byculla.

SHAH PATEL & CO.—109/111, Nagdevi Street, Bombay 3. Phones: 20709 & 39977. Grams: "LUCKYCHAP."

Shah Chhaganlal Ladhubhai.—58, Mudi Bazar (Mandvi), Bombay 3.

STEELYARD PRIVATE LTD.—Regd. Office: Carnac Bunder, Argyle Road, Bombay 9. Phone: 22643 (Sales Office). Grams: "SCOTCHIRON." Steel & Hardware Merchants. Chairman: Jathashankar Gopalji. Managing Directors: C. J. Ambani and K. V. Mehta.

Tarachand Gupta & Bros.—Narayan Dhuru Street, Bombay 3.

TEJPAULS PRIVATE LTD.—227, Argyle Road, Iron Market, Bombay 9. Phone: 29010. Grams: "STEELDEPOT." Iron & Steel Merchants. Also Manufacturers of H.B. Wires, Spring Steel Wires, Galvanised & Copper Coated Wires, Barbed Wires & Wire Nails.

TIRATHRAM KASHMIRILAL (INDIA) PRIVATE LTD.—89, Nagdevi Cross Lane, Bombay 3. Phones: 20446 (Office) & 212447 (Res.). Grams: "GIRDERS." Government Controlled Stockists and Importers of Iron & Steel Light and Heavy Structural Reinforcing Bars, Sheets, Plates, Wires, etc.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

United Steel Companies (India) Private Ltd.—Patel House, Churchgate Street, Fort.

Unity Hardware Stores Co.—Iron Jetha, Carnac Bunder, Bombay 9.

V. AMRITLAL & CO.—Carnac Bunder, Bombay 9. Phone: C/o 22643. Grams: "SCOTCHIRON." Iron & Steel Suppliers.

VITHALDAS P. MEHTA.—71/73, Old Hanuman Street, Bombay 2. Phone: 28475. Grams: "BAVISHI." Importers & Exporters of Iron & Steel. Specialized in Stainless Steel.

Volkart Brothers.—19, Graham Road, Ballard Estate.

Voltas Ltd.—Graham Road, Ballard Estate, Bombay 1.

WESTERN INDIA HARDWARE MART.—16, Narayan Dhuru Cross Lane, Bombay 3. Grams: "VISCOSITY." Phone: 28730.

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ABDUL KAYUM EBRAHIM & CO. (Estd. 1902).—Manufacturing Jewellers, Diamonds and Precious Stones, Dealers, Mama Chambers, 93, Cumballa Hill Road, Bombay 26. Phone: 76962.

B. Jamshedji Jivanji (Estd. 1901).—Opp. Mumbadevi, Zaveri Bazar, Bombay 2.

BHAGAT BROTHERS.—Patel Chambers, Sandhurst Bridge, Bombay 7. Phone: 72725. Grams: "SHOWINDOW." Jewellers & Department Stores.

Chandulal L. Khokhani & Co.—130/32, Sheikh Memon Street, Bombay 2.

Chhaganlal Narotamdas Zaveri & Co.—Dhunji Street.

CHIMANLAL MANCHAND & CO.—Leading State Jewellers and Central Government appointed Jewellery Valuers. Importers, Exporters & Dealers in Precious Stones and manufacturers of exclusive & artistic jewellery. Showroom: Opp. Opera House, New Queen's Road. Phones: 30321. Grams: "PLATINUM."

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CHIMANLAL POPATLAL MINAWALLA.—Art Jewellers, Dealers in Gold, Enamel and Diamond Ornaments, 255, Zaveri Bazar, Ghia Mansion, Bombay 2. Phone: 28352. Grams: "GOLDENAMEL."

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Danabhai & Amratlal Minawala (Estd. 1931).—Art Jewellers, 252-54, Sheikh Memon Street, Bombay 2.

Dayabhai Bros.—Patel Chambers, Bombay 7.

Dinshah D. Kanga & Co.—Princess Building, Princess Street, Bombay.

Dipchand M. Shah.—17, Dhanji Street, Bombay 3. Phone: 20417. Grams: "Godiparas".

Doulatram Vallabdas.—Jewellers (Karachiwala), 257, Sheikh Memon Street, Zaveri Bazar.

Framroze Sorabji & Co.—Regal Cinema Building, Apollo Bunder, Fort.

Gazdar Ltd.,—Taj Mahal Hotel, Bombay 1.

Gordhandas K. Jhaveri & Co.—Oomrigar Building, opp. Crawford Market.

HAJARE & BROS., Y. A.—Showroom & Factory: 1st Panjrapole Lane, Madhav Baugh, Bombay 4. Phone: 73666. Grams: "KRUPAWANTI." Manufacturers of Silverware, Brassware, Presentation Articles and Specialists in Sports Trophies and Silver Caskets.

Harilal Lalji & Co.—149, Sheikh Memon Street, Bombay 2.

Harsad Novelties.—Panjrapole Compound, Madhavbaugh, Bombay 4.

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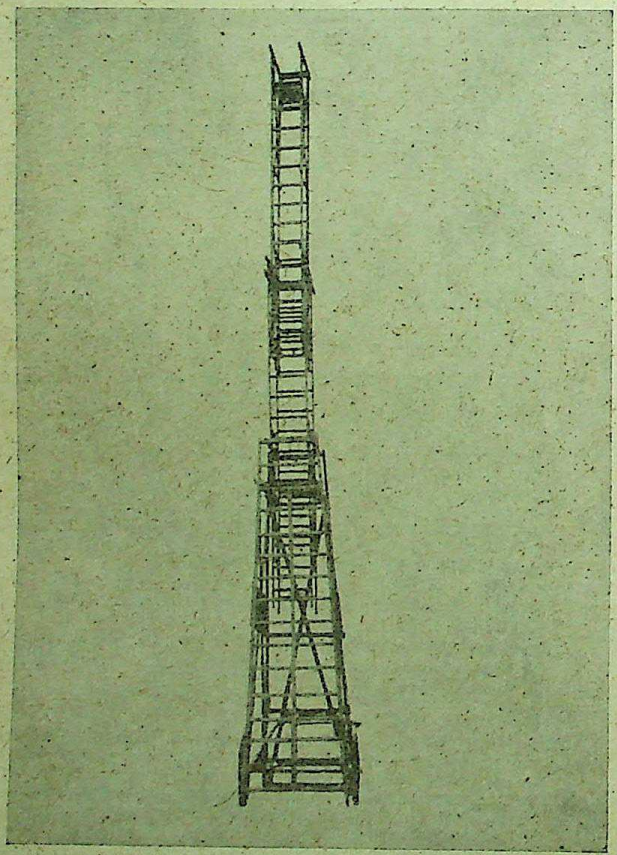

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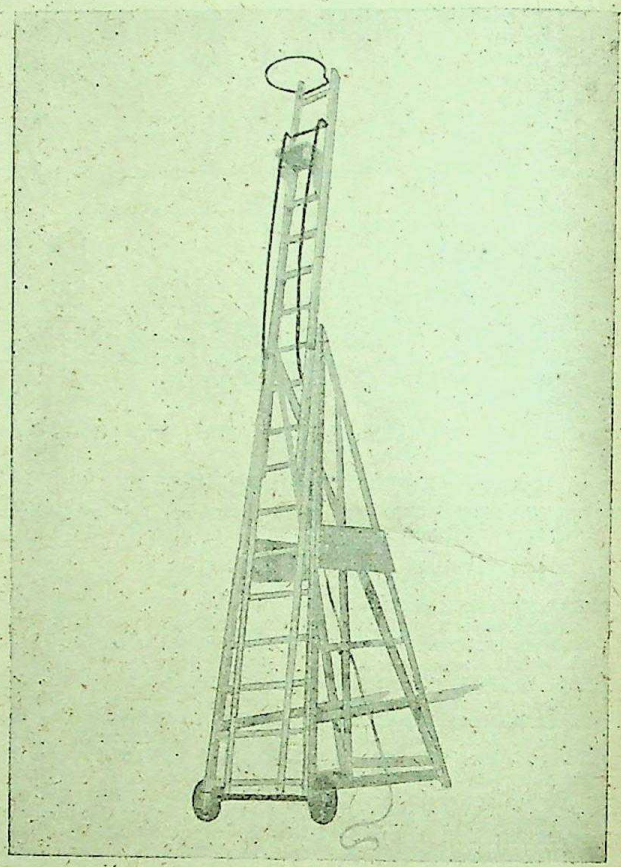

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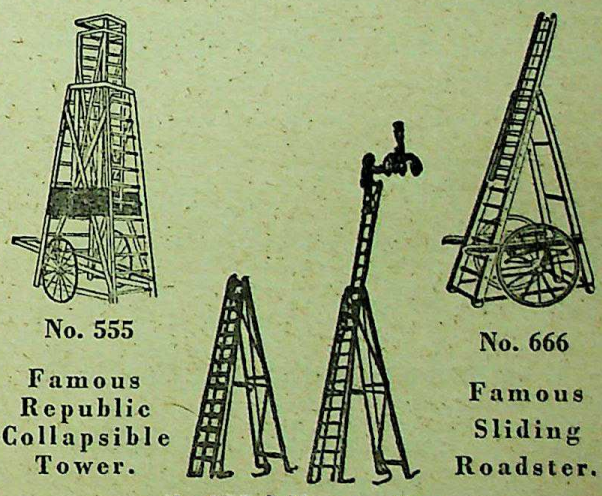

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IDEAL LEATHER WORKS.—Kitab Mahal, 1st Floor, 192, Dr. Dadabhai Naoroji Road, Fort, Bombay. Manufacturers of fancy leather and Plastic goods (Wallets, Purses, Portfolios, etc.). Phone: 264200.

India Goatskin Corporation Ltd.—Dharavi.

L. R. Trading Co.—Navsari Chambers, opp. Lloyds Bank, Outram Road, Fort.

MAMAJI & SON (PRIVATE) LTD., Y. A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone: 71262. Grams: "MAMAJISON." Importers & Exporters, P.V.C. Leather Cloth, Motor & Carriage upholstery materials, Saddlery & Harness Goods and all kinds of Felt.

Natwar Trading Co.—395, Kalbadevi Road, Bombay 2.

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Noorbhai Jivaji.—Tyebi Manzil, Bhendy Bazar, near Tram Junction.

PIONEER LEATHER WORKS, THE.—Sitaram Building, Crawford Market, P.O. Box No. 1950, Bombay 1. Phone: 263618.

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Premier Traders.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

Railship Stores.—Medows House, 39, Medows Street, Fort, Bombay 1.

Sardesai & Company.—14, Murzban Road, Fort, Bombay.

Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Medows Street, Fort.

Suraiya, M., & Co.—Prospect Chambers, Hornby Road, Post Box 439, Bombay 1.

Textile Works Ltd.—49-55, Apollo Street, Fort.

United Cottage Industries.—Near Central Bank of India, Ltd., Abdul Rehman Street, Bombay 3.

Victory Leather Works.—112-144, Abdul Rehman Street, Bombay 3.

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KHIRA STEEL WORKS PRIVATE LTD.—Executive Office & Factory: Ghodbunder Road, Santa Cruz, Bombay 54. Grams: "STEELCASE." Phones: 88002 & 89569. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phones: 27636, 27358. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7 and also at Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone: 27108.

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Doshi Brothers & Co.—77, Medows Street, Fort.

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Guest, Keen, Williams, Ltd.—Ballard Estate, Bombay 1.

Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.

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Seagrand & Co.—19, Arab Lane, Bombay 8.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

Tropical Engineering Co.—21, Forbes Street, Fort, Bombay, Phone: 253612, Grams: "TROPENCO". Importers of and stockists in Electric Motors, Generating Sets, Turbines, Locomotives, Stone Crushers, Road Rollers, etc.

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Janisheth & Sons.—38, Narayan Dhuru Street, Bombay 3. Lime and Sand Merchants. Phone: 22842.

MINERAL CORPORATION OF INDIA PRIVATE LTD.—107, Bapu Khote Street, Bombay 3. Phone: 72662. Grams: "ARAMSHIR." Stockists of Lime & Minerals.

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone: 251748. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur—Chemicals—Solvents, Fertilizers, Minerals—Lime—Jute—Products.

Rehemtulla, M., & Co.—38, Narayan Dhuru Street, Bombay No. 3.

Yusuf Dada Chunawalla & Co.—34, Bapu Khote Street, Bombay No. 3.

LITHOGRAPHERS

BOLTON FINE ART LITHO WORKS.—274, Tardeo Road, Bombay 7. Photo Offset printers of Posters, Calendars, Show Cards, Labels, Boxes, Pictures, Playingcards, Insurance Policies, Cheque Books, etc. (Estd. 1909). Phones: 77244/45 (2 lines). Grams: "BOLTONLITO," Bombay 7.

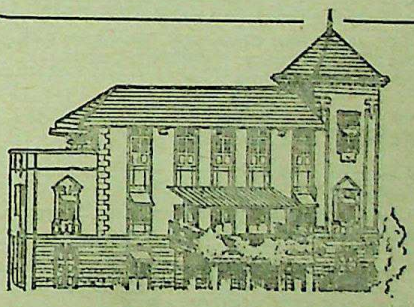
Calendar Manufacturing Co.—62-66, Medows Street.

Everest Calendar Co.—45/47, Princess Street, Bombay 2.

Jagtap Lithographic Works.—Khatau Wadi, Girgaon, Bombay 4.

Karnodaya Litho Press.—Old Victoria Mills Compound, Gamdevi.

LAXMI OFFSET & PRINTING WORKS.—23, Goa Street, Ballard Estate, Bombay 1. Phone: 263147. Grams: "LAXPICPLAY."



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Premier Offset Works.—Swadeshi Mills Property, Roxy Cinema Compound. Offset Photo Lithographers and Colour Printers.

Shri Raghunath Litho Works.—74, Khetwadi 10th Lane, Bombay 4.

TIMES OF INDIA PRESS, THE.—Dr. Dadabhoy Nowroji Road, Fort.

UNIVERSAL CALENDAR MANUFACTURING CO.—Calendar Manufacturers, Lithographers and Tin Printers, 23-25, Hamam Street (Opp. Post Office), Bombay 1. Phone: 254443.

Vinay Calendar Co.—104, Ardeshir Dadi Street, Bombay 4.

Western India Art Litho Works.—11, Hathibaug Lane, Mazagaon.

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National Livestock Co.—Main Road, Dadar. Importers, Exporters & Dealers in all kinds of Animals.

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BOMBAY SAFE MFG. CO.—307-9, Kalbadevi Road, Bombay 2. Phone: 22367 (Office & Showroom), 71589 (Factory). Manufacturers and Dealers of Steel Furniture, Hospital Equipment, etc.

Central Safe & Co.—286, Kalbadevi Road, Bombay 2.

Diamond Safe Manufacturing Co.—Office, opp. Vithalwadi, 282, Kilachand Mansion, Kalbadevi Road.

Govin's Safe Manufacturing Co.—266-68, Kalbadevi Road, Bombay 2.

Gurjar Steel Products.—20, Dadyseth Agiary Lane, Kalbadevi Road.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone Nos.: 27636 & 27358.

KHIRA STEEL WORKS PRIVATE LTD.—Executive Office & Factory, Ghodbunder Road, Santa Cruz, Bombay 54. Grams: "STEELCASE." Phone: 88002 and 89569. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone: 27636. Showroom: Fulchand Nivas, Chowpatty Sea Face, Bombay 7 and also at Khira Bhavan, Sandhurst Bridge, Bombay 7.

Regal Safe Manufacturing Co.—248, Kalbadevi Road, Hira Mahal, Bombay 2.

Soho House.—Lohar Street, Bombay 2.

SteelAge Industries Ltd.—Opp. Post Office, Mazagaon, Bombay.

Swadeshi Steel Products.—Zaver Baug, Kalbadevi Road, Bombay 2.

Vertex Manufacturing Co., Ltd.—Fort, Bombay 1.

Zenith Safe Mfg. Co.—249, Kalbadevi Road.

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BOMBAY MERCANTILE CORPORATION.—211-217, Nagdevi Street, Bombay 3. Phone: 22782. Grams: "CORPBOMBER." Sole Agents, Union Trading Co., New York, for "PENNALUX" Brand 100 per cent pure Pennsylvania Motor Oils.

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Caltex (India) Limited.—Caltex House, 8, Ballard Road, Bombay.

Cox & Co., Ltd., H. S.—24, Rampart Row, Fort, Bombay.

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Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

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Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

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Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Killick, Nixon & Co. Private Ltd.—Home Street, Bombay 1.

Leach & Co. Ltd., H. J.—Asian Building, Ballard Estate.

Narottamdas Karsandas & Co.—278, Dr. Dadabhai Naoroji Rd., Bombay 1.

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SUDAN TRADING CO.—Dhan-Nur, Phirozshah Mehta Road, Bombay 1. Phone: Office 262788. Res.: 62089. Grams: "VANSOBHA".

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Wakefield & Co., Ltd., C. C.—91, Walkeshwar Road, Bombay 6.

Wharton, H. W., & Co., Ltd.—339, Hornby Road, Fort.

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Bakhshiram & Co.—Ahmed Building, 129, Modi Street, Fort.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-56. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.

Bhaidas Cursondas & Co.—(Machinery Dept.), 16, Apollo Street, Fort.

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort. Phone : 255374. Grams : "GODGRACE."

Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.

BHARAT INDUSTRIAL CORPORATION.—Manufacturers of Oil Expellers spares thereof—Allied Machinery and Solvent Extraction Plant under Foreign Technical Collaboration—Petit Compound, Grant Road, Bombay 7. Phone : 41361. Grams : "EXPELPART."

Bhogilal & Co., R.—261-263, Hornby Road, Fort, Bombay 1.

Bombay Company Ltd.—9, Wallace Street, Fort.

Bombay Pioneer Industrial Corporation Ltd.—89, Princess Street, Bombay 2.

Bombay Trading Co.—Dhun-Nur, Sir Phirozshah Mehta Road.

Brady, W. H., & Co., Ltd.—Royal Insurance Buildings, Churchgate Street, Fort.

British Engineering Co.—105, Apollo Street, Fort.

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.

CAPRI ENGINEERING CO.—Examiner Press Building, 111, Medows Street, Bombay 1. Phone : 251925. Grams : "CAPRIENG."

C. Bole & Co.—75, Nagdevi Cross Lane, Bombay 3.

CHAMPAKLAL & CO.—P.O. Box No. 1237, 417, Commerce House, 140, Medows Street, Fort, Bombay 1. Phone : 254789. Grams : "CITADEL." Air Compressors, Pneumatic Tools, Pneumatic Rock Drilling Hammer & Rods, Multi-Purpose Pumps & TCC Condensors.

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Chhaganlal & Co.—Iron Market, Argyle Road.

Chhaya Trading Co.—Opp. Share Bazar Building, Hamam Street, Fort.

Chimanlal Devchand & Co.—2nd Kumbharwada Lane, Bombay 4.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

Choksi, H., & Co.—106, Medows Street, Fort.

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DINSHAW, M. H., & CO.—105, Apollo Street, Fort, P.O. Box 448, Bombay. Gram : "AHOORAT." Phone : 251458. Managing Director : H. Dinshaw Dungor, M.I.S.E., M.M.E.A. (Ind.), A.S.E. (Lond.), Managing Partner : Dinshaw H. Dungor, A.M.I.E.T. (Lond.), Residence, Victory Villa, Turner Road, Bandra.

Drewet, Chowna & Co.—"Lentin Chambers," Medows Street, Fort.

Duncan, Stratton & Co. Ltd.—5, Bank Street, Fort, Bombay.

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Dwarkadas & Sons Ltd.—Mehta House, 89, Apollo Street, Fort, Bombay.

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Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort.

Eastern Industrial Syndicate.—4, Rutherfield Street, Forbes Street, Bombay 1.

Eastern Machinery & Trading Co.—Wilson Road, Ballard Estate, Fort, Bombay.

Economy Engineering Co.—37, Kirti Building, Forbes Street, Fort.

EDGAR HANDLEY COMPANY PRIVATE LIMITED.—135, Medows Street, Fort, Bombay. Phones: 253548 & 252934. Grams: "TROJAN."

Electric Cable & Machinery Co.—46-47, Forbes Street, Fort.

Engineering & Agencies Ltd.—Dena Bank Building, 24, Elphinstone Circle, Fort.

ENGINEER, ERUCH D., & CO.—Sole Agents: Crossley Bros., Ltd., Oil and Gas Engine Manufacturers, Crossley House, Apollo Street. Phone: 251876. Grams: "OILENGINES."

English Electric Co. Ltd.—249, Dr. Dadabhoy Naoroji Road, Fort, Bombay.

Essential Engineering Co.—11, Botawala Building, Elphinstone Circle, Fort.

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Fleming, John, & Co. (India) Private Ltd.—Sukhadwala Building, Bastion Road, Fort.

Fowler, John, & Co. (India), Ltd.—Marshall's Building, Ballard Road.

Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort.

Gammon India Private Ltd.—Hamilton House, Ballard Estate, Bombay 1.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

GARLICK & CO. PRIVATE LTD.—Haines Road, Jacob Circle.

General Engineering Co.—Workshop: 47, Kumbharwada 5th Lane, Golpitha, Bombay 4.

General Radio & Appliances Ltd.—16, New Queen's Road, Bombay 4.

Getz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Gladwyn & Co.—251, Hornby Road, Fort, Bombay 1.

Gogal & Co.—232, Hornby Road, Fort, Bombay 1.

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Hindustan Industrial Corporation.—12-A, Nanabhai Lane, Flora Fountain, Fort.

India Engineering Works.—Hamam Street, Fort.

India General Engineering Co. Private Ltd.—21, Forbes Street, Fort, Bombay 1.

Indian Textile Engineers, Ltd.—143, Medows Street, Fort.

Indmag Private Ltd.—Esplanade House, Waudby Road, Fort, Bombay.

Indo-Berolina Ind—Pvt. Ltd.—Victoria Building, Parsee Bazar Street, Fort, Bombay.

Indo-Bobbins Textiles Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road.

Indo-European Machinery Co.—Sambava Chambers, Sir Phirozshah Mehta Road.

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Industrial Machinery Agencies.—17, New Queen's Road, Bombay 4.

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Jacks, William, & Co., Ltd.—Hamilton House, Graham Road.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3. Phone: 29020. Grams: "JAIRAMDAS."

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Jay Bharat Engineering Co.—35, Apollo Street, Fort, Bombay 1.

Jayashankar Nathalal & Co.—5, Alli Chambers, Tamarind Lane.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road.

Kaliandas Jagmohandas & Sons.—9, Alli Chambers, Tamarind Lane.

Kamani Engineering Corpn. Ltd.—Kamani Chambers, Ballard Estate, Bombay.

Kanakia Corporation.—163, Nagdevi Cross Lane, Bombay 3.

Kaycee Industries Ltd.—Kamani Chambers, Nicol Road, Ballard Estate. Phone: 25714.

Khemka & Co. (Agencies) Private Ltd.—Vulcan Insurance Bldg., 202-A, Veer Nariman Road, Bombay 1.

KHIMANDAS JAGUMAL & SONS (Estd. 1910, Sind).—12, Hornby View Building, Gunbow Street, Fort, Bombay 1. Phone: 26-1691. Grams: "EXPOCORP." Engineers and Machinery Merchants; Specialists in Diesel Engines & spares, Fuel Injection Equipment, Electric Motors, Small Engineering Tools, Workshop Machinery, Ball & Roller Bearings, Steel Shaftings, etc. Branch Office: Belan Gunj (Agra), U.P.

Kumar Commercial Co.—Nadirshaw Sukhia Street, off Cawasji Patel Street, Bombay 1.

Kumudchandra & Co.—Examiner Press Building, Dalal Street, Fort.

Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Bombay.

Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.

Laxmi Engineering Works.—40, Khetwadi 10th Lane, Bombay 4.

Laxmi Syndicate.—4th Floor, Lentin Chambers, Dalal Street, Fort. Bombay.

Linotype & Machinery, Ltd.—Botawalla Building, Elphinstone Circle, Fort.

MACHINE TOOLS & IMPLEMENTS.—93-95, Narayan Dhuru Street, Bombay 3. Phones: Office: 22868; Residence: 242425. Grams: "MACHTOOLS."

Machine Tools Traders.—Moti Mahal, Dhanji Street, Agiary Cross Lane, Bombay 3.

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Machinery Trading Corporation.—68, Medows Street, Fort, Bombay 1.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.

MACHINERY & SPARES.—30, Apollo Street, Fort, Bombay. Phone : 252176 and 71997 (Res.) Grams : "SAHABZADE." Dealers in all kinds of spare parts for Diesel Oil Engines, Electric Motors, Generators, Pumping Sets.

Malhotra Trading Corporation.—Basement 4. Commerce House, Medows Street, Bombay 1.

MANOHAR BROTHERS.—4, Commerce House, Medows Street, Fort, Bombay. Phone : 254496. Grams : "LOCO-MOTIVE." Branch : 37, Errabalu Chetty Street, Madras. Phone : 4274.

Marathe & Co.—Prospect Chambers, Hornby Road, Fort.

Marshall, Sons & Co. (India), Ltd.—Marshall Building, Ballard Estate, Fort.

Mata Lachhmi Co.—Hussaini Chambers, Nanabhai Lane, Fort.

Mather & Platt, Ltd.—8, Graham Road, Ballard Estate.

M. Dialdas & Sons.—190, Princess Street.

Mehta . H. M., & Co.—Mehta House, 79-91, Apollo Street, Fort.

Mehta Parikh & Company.—45-47, Apollo Street, Fort.

MILLARS' TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 27.

Milling Trading Co.—105, Apollo Street, Fort, Bombay.

Mills Store Co., The.—43, Nagdevi Cross Lane, Bombay 3.

Minerva Machinery Corporation.—22, Apollo Street, Fort.

MODERN ELECTRIC CORPORATION.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone : 262120.

Modern Engineering Co.—107, Apollo Street, Fort.

MODERN MACHINE TOOLS CO.—88, Nagdevi Cross Lane, Bombay 3. Phone : 39056. Grams : "MONKEYGRIP."

Modern Mercantile Works.—Lotus Building, Hornby Road, Fort.

Mody Trading Co.—50, Nagdevi Cross Lane, Bombay 3.

Mohan & Bros., G.—Hassan Chambers, Parsee Bazar Street, Fort.

Narielwala, B. P., & Sons.—101, Apollo Street, Fort.

National Electrical Industries Ltd.—Industrial Estate, Lalbaug, Bombay 12.

National Engineering Co.—9D, Sukhia Building, Nadirshah Sukhia Street, Fort.

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Nigo's Corporation.—Temple Bar Building, Forbes Street, Kala Ghoda, Bombay 1. Phone : 31813.

Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.

Orion Trading Co., Ltd., The.—Opp. Round Temple, Sandhurst Road, Bombay 4.

Pandit & Co.—15, Forbes Street, Fort.

Paramount (India), Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Bombay.

Paras Agency.—Prospect Chambers Annexe, 2nd Floor, Hornby Road, Fort.

Parekh Trading Co.—48, Nagdevi Cross Lane, Bombay 3.

Parry & Co., Ltd.—United India Building, Sir Phirozshah Mehta Road, Bombay 1.

Patel Engineering Co.—Rajabahadur Compound, Hamam Street, Fort.

PATTANI INDUSTRIAL CORPORATION.—19/21, Hamam St., P.O. Box No. 796, Bombay 1. Phone : 251447. Importers & Manufacturers of Lathes, Drilling Machines, Electric Bench Grinders, Chucks, Hacksaw Machines, Flexible Shaft Grinders, Wood working machines, sheet metal working machines, Electric Motors, Electric Portable tools, Pumps, Polishing machines, Tool & Cutter Grinders, Surface Grinders, Hand Shearing Machines, Capstan Lathes, Threading Machines, Tapping Machines, Tapping Attachments, Metal Cutting Motorised Machines, and spray painting units. Showrooms : 82, Apollo Street, Bombay 1 ; 78/80, Bazargate Street, Bombay 1.

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P. RAI & CO.—121, Commerce House, Medows Street, Fort, Bombay 1. Phone : 252436. Grams : "PIRAICO."

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Richardson & Cruddas Ltd.—Byculla, Bombay 8.

Roberts McLean & Co., Ltd.—Ilaco House, Sir P. Mehta Road, Bombay 1.

Rochat, H. L., & Co.—Navsari Building, Bastion Road, Fort.

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Chunilal Parikh & Co.—Duncan Road, Null Bazar, Bombay 4.

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M. Kantilal & Co.—70, Nagdevi Cross Lane, Bombay 3.

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BOMBAY HARDWARE CO.—Importers & Stockists of all kinds of Wires, Strips, Rods, Pipes, Tubes & Sheets etc. Office : 85, Kika Street, Gulalwadi, Bombay 4. Phone : 72733. Grams : "AGEKUCH." Branch at : Argyle Road, Bombay 9. Phone : 20092. Authorised Stockists of Messrs. Kamani Metals & Alloys Ltd., Bombay, for Industrial Quality Brass, Copper & Phos. Bronze Sheets, Sheathings & Strips.

BOMBAY METAL SYNDICATE.—166, Kika Street, Gulalwadi, Bombay 4. Phone : 73391. Grams : "ABBRASIVE." Sole Selling Agents in India for VEREINIGTE DEUTSCHE METALLWERKE A. G. (Germany) for Aluminium, Brass, Copper Rods, Sheets, Tubes, Wires, Strips and Radiator Strips for Automobile Industry and Copper Tubings for Air-Conditioning & Refrigerating Industry.

CHANDULAL NARANDAS.—96, Kika Street, Shop No. 1, Bombay 4. Phones : 73645 and Res. 39549. Grams : "METALMART." Direct Importers & Dealers in Copper & Brass Rods, Pipes, Sheets, Sheathings, Wires, Strips, Phos, Bronze and Monel Metal Rods, Sheets, Wire, Tin, Lead, Zinc, Antimony, White Metal, Tin Solders, etc.

Choksi Brothers.—315, Sandhurst Road, Bombay 4.

Choksi, H., & Co.—106, Medows Street, Fort.

CHOONILAL MOHANLAL & CO.—Shop No. 54, Kika Street (Gulalwadi), Bombay 4. Importers & Dealers in Non-Ferrous Metals & Alloys, i.e. Aluminium, Brass, Copper, & Phosphor Bronze Rods, Tubes, Sheets, Sheathings, Wire & Welding Rods. Phone : 72064. Grams : "RODS."

Curtis & Co., Ltd., J.—Mahalaxmi Bridge Arcade, Bombay 11.

Desai & Co., M. S.—77, Nagdevi Cross Lane, Bombay 3.

Devidayal Metal Industries.—Darukhana, Reay Road, Bombay 10.

DINESHCHANDRA KESHAVLAL & CO.—209, Kika Street, Bombay 2. Phones : 73205 (Shop) and 39670 & 63081 (Res.). Grams : "COPPERTUBE." Importers, Stockists and dealers in Copper & Brass Rods, Pipes, Sheathings, Sheets, Strips and other non-Ferrous Metal Merchants.

Eknath M. Mulye.—16, Nanabhai Building, Mugbhat Street, Bombay 4.

Frances Klein & Co. (Bombay), Ltd.—Shale Building, Bank Street, Fort. Post Box No. 777, Bombay.

GULAMALLY ABDULHUSEIN & CO., M.—66-68, Narayan Dhuru Street, P. B. No. 3092, Bombay 3. Telegram: "GUNMETAL." Dealers and Manufacturers of Non-Ferrous Metals of all kinds. Phone : 38031.

HIND HARDWARE STORES.—Pirbhoy Building No. 1, Lohar Chawl, Bombay 2. Phone : 29804. Grams: "AGEKADUM." Wire Merchants.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

INDIA METAL TRADERS.—92/94, Kika Street (Gulalwadi), Bombay 4. Manufacturers of Non-ferrous metals, wires, Bars, Strips Sections for Mechanical and Electrical Industries. Phone : 72193. Grams : "METALDRAW."

INDIAN SMELTING & REFINING CO., LTD., THE.—"Industry House," Churchgate Reclamation, Bombay 1.

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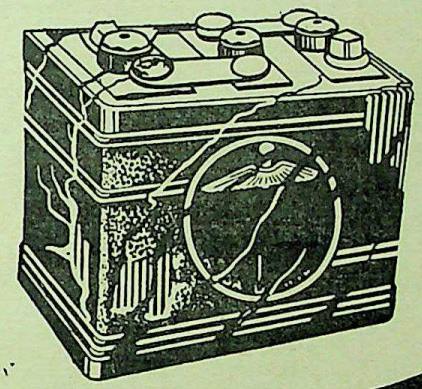

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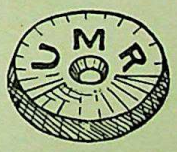

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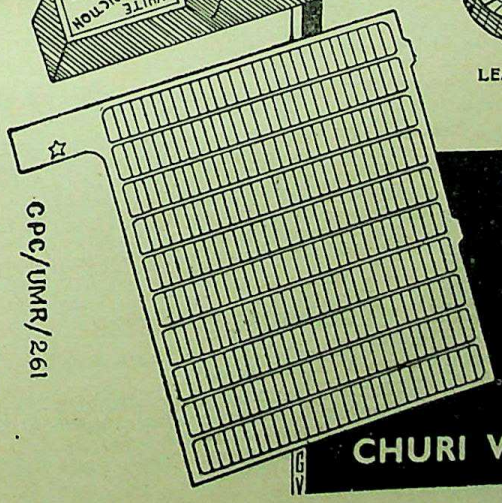
FROM ALL OVER INDIA damaged and obsolete batteries of all makes come to our factory where we turn the scrap into new perfectly dependable LEAD SLABS AND LEAD GRIDS so valuable in the manufacture of batteries with our long experience and technical skill.



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UNIVERSAL METAL REFINERY CO.,

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INDIAN STANDARD METAL CO., LTD.—Chinchpokli Cross Lane, I.S.M. Estate, Bombay 27. Phone Nos. 42205 & 75018. Grams : "ISMETCO."

JAIPUR METALS & ELECTRICALS LTD.—Kamani Chambers, Nicol Road, Ballard Estate. Phones : 26-1744 (5 lines). Head Office : Near Railway Station, Jaipur. Manufacturers of Hard drawn bare electrolytic Copper Conductors, Cadmium Copper Conductors, House Service Meters, Gun Metal, Phosphor Bronze, Tin Solder, White Metal and other non-ferrous metal alloys, Arsenical Copper Rods, Copper Strips, Brass Rods & Wires. Also Importers of Copper and other non-ferrous metals, Component Parts of House Service Meters, etc. Managing Agents : Poonamchand and Brothers Private Ltd.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.
Jayant Metal Manufacturing Co.—152, Kanji Goculdas Building, Lohar Street, Bombay 2.

KAMANI METALS & ALLOYS LTD.—Manufacturers of Brass, Copper, Phosphor Bronze and Zinc Sheets, Strips and Coils for Industrial purposes. Agra Road, Kurla (North), Bombay 70. Phone : 67984 (3 lines).

Lallubhai Kalidas.—136, Jamli Mohola, Bombay 3.

Phone : 22825

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METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones : 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead linings of Acid Resisting Containers.

Moloobhoy, Ahmed S., & Sons.—281, Nagdevi Street.

MULCHAND SOORCHAND.—Tamba Kantha, Bombay 3. Phone : 73465. Grams : "MULSUR." Dealers in Copper & Brass Sheets, Pipes, Rods & Wires.

Oriental Metal Pressing Works.—131, Worli, Bombay 18.
Ramesh Trading Corporation.—17, Nagdevi Street, Bombay 3.

RASHTRIYA METAL INDUSTRIES LTD.

Phone: 86150
Grams: "SARWAVYAPI"
Bombay 2

Office & Factory

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Reliance Trading Co.—25/47, Lohar Street, Bombay 2.
Sanghvi & Sons.—20, Kansara Chawl, Kalbadevi Road.

SHANTILAL HIRALAL & CO.—57/B, Khetwadi Main Road, Opp. Islampura Lane, Bombay 4. Grams : "LESS PROFIT." Dealers in all Kinds of Non-Ferrous Metal, Metal Scraps, Brass Rods, Tubes & Pipes in all sizes & 'K' Brand Brass Sheets, etc.

Standard Metal Works.—17, Falkland Road, Low Level, Tardeo.
Tarkar, B. A.—Mumbadevi, Kansara Chawl, Kalbadevi, Bombay 2.
Trade (India) Corporation.—58, Mohamedalli Road, P.O. Box No. 3231, Bombay.
Tirathdas Kotumal.—107, Narayan Dhuru Street, Bombay 3.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone : 20677. Grams : "VASUMETALS." Dealers in Ferrous & Non-Ferrous Metals, i.e., Tubes, Rods, Strips, Sheets, Wires and all kinds of Factory requirements.

Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.

VYAS BROTHERS.—Manufacturers of Traction & Signalling Materials, Loco Parts, Carriage & Wagon Fittings, Copper Conductors, Arsenic Copper Rods, Hot Dip Tinned Copper Wires, T.C. Fuse Wires, Valves & Cocks, Non-Ferrous Castings a speciality. 65, Tamba Kanta, Bombay 3. Phone : 70187. Grams : "CUPROCABLE." Factory : Bombawadi, Katargam, Surat. Phone : 845.

METER BOARDS (WOODEN) MANUFACTURERS

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MICROSCOPES

Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. (Phone : 251882). Also at Calcutta, New Delhi and Madras. Agents in India for Messrs. Cooke Troughton & Simms Ltd., U.K. Manufacturers of Famous "VICKERS" Projection Microscopes. Also Microscopes of all types.

MILITARY AND GOVERNMENT CONTRACTORS

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box No. 671, Bombay.
Chandulal Narandas.—96, Kika Street, Bombay 4.
Crescent Supplying Co.—Cama Building, 24-26, Dalal Street, Fort.
Edgar Handley & Co.—Seksaria Chambers, 139, Medows Street, Fort.
Hindustan Tools & Hardware Mart.—126, Lohar Chawl, Bombay 2.
India Goatskin Corporation Ltd.—Dharavi, Bombay 17.
India Timber Trading Co.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

JAIRAMDAS & SONS.—163, Narayan Dhuru Street, Bombay 3. Phone : 29020. Grams : "JAIRAMDAS."

Khambati & Co., G. L.—437, Katha Bazar, Bombay 9.
Kooverji Devshi & Co.—164, Lohar Street.
Mackenzies Ltd.—Sewri.

NEW INDIA HARDWARE MART.—152, Narayan Dhuru Street, Bombay 3. Phone : 38665. Grams : "FREETRADE".

SACHIN & CO.—Manufacturers, Engineers, Machinery Merchants & Government Contractors, 25, Bank Street, Fort, Phone : 255175. Grams : "SACHEENCO."

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone : 20677. Grams : "VASUMETALS". Dealers in Ferrous and Non-Ferrous Metals i.e., Tubes, Rods, Strips, Sheets, Wires and all kinds of Factory requirements.

MILL AND GIN STORE SUPPLIERS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

ACME MANUFACTURING & AGENCIES (INDIA).—Post Box No. 1732, Bombay 1. Manufacturers, Importers & Stockists of Textile Stores & Machinery Accessories.

Acme Manufacturing Co., Ltd.—Construction House, Wittet Road, Ballard Estate, Fort.

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Adamji Kaderbhoy.—337, Katha Bazar, Bombay 9. Stockist of Heald Cord, Dobby Twine, etc.

Adarsha Trading Corporation.—Ismail Building, 2nd Floor, Room No. 9-H, 381, Hornby Road, Fort, Bombay. Phone: 32404.

Agarwal Commercial Corp.—35, Bibijan Street, Nagdevi, Bombay 3. Phone: 30041. Extn. 11. Grams: "HACKSAW". Stockists of Engineering Tools, Hardware & Mill Gin Stores.

Allied Exporters.—Kumud House, 267, Hornby Road, Fort.

Altex Limited.—147, Esplanade Road, Fort, Bombay 1. Phone: 251082. Grams: "BETEX."

Apollo Engineering Co.— 84, Apollo Street, Fort.

A. MOHAMMED & CO.—213, Abdul Rehman Street, Bombay 3. Head Office: 26, Netaji Subhas Road, Calcutta 1. Phone: 222406. Grams: "POLISHER." Calcutta General Hardware & Tool Merchants and Order Suppliers.

Ardeshir D. Wadia & Sons.—93, Apollo Street, Fort. Importers of "V" Tex Ropes Drives, Clutches and Gearing.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort, Bombay 1.

Asave Mehta & Co.Bahadur—24-B, Raja Compound, Hamam Street, Fort.

Ashok Engineering Co.—24, Noble Chambers, Parsi Bazar Street, Fort. Tel. No. 31445. Grams: "REVOLUTION."

Associated Machine & Tool Co.—130, Medows Street, Fort.

A. VALLABHDAS & SONS.—37, Nagdevi Street, Bombay 3. Phone: 34281. Grams: "GINSPARE". Importers and Exporters, mill gin Stores, Hardware, Pipe fittings, Bolts, Nuts and Rivets and Chrome Leather Washers.

Baker, A. M., & Co.—218, Nagdevi Street.

Balkrishna & Bros.—71, Nagdevi Street.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

BELTEX PRIVATE LTD.—Managing Agents: Karaka & Co. Head Office: Ellis Bridge, Ahmedabad 6. Phones—Office: 7205; Works: 5289. Grams: "LEATEX", Ahmedabad. Manufacturers of Leather Beltings, Buffers, Picker Savers, Check Straps, Check ends, Laces, and other Sundry Loom Fittings. Manufacturers of Olive green Picking Bands. Bombay Branch: 43, Tamarind Lane, Bombay 4. Phone: 253707. Grams: "RUSHNABAND," Bombay.

Bhagvandas Chatrabhuj & Co.—20, Hamam Street, Fort.

Bharat Electric & Engineering Corporation.—28, Apollo Street, Fort.

Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.

Bhathena, B. N., & Co.—100, Nagdevi Street.

Bhoglial Shah & Co.—Mehta Building, Medows Street, Fort.

Bhukhanvala & Sons.—Medows House, Medows Street, Fort.

Birla Bros., Ltd.—Imperial Bank Annexe, Bank Street, Fort.

Bombay Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

Bombay Machine Store Co., The.—Laxmi Building, 43, Nagdevi Cross Lane, Bombay 3.

Bombay Mill Stores Supplying Co., Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Bombay Pulley Marketing Co.—30, Nagdevi Cross Lane, Bombay 3. Phone: 24977.

Bombay Tools Supplying Agency.—50, Nagdevi Cross Lane, Bombay 3.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

British Mill Stores Co.—Sir Vithaldas Chambers, Bruce Street, Fort.

C. Bole & Co.—75, Nagdevi Cross Lane, Bombay 3.

C. R. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3.

Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.

Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.

Chadha, B. M., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Post Box No. 671, Bombay.

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.

Chandulal & Co., Lakhwala.—313, Samuel Street, Vadgadi.

Chhabildas & Co.—78-A, Abdul Rehman Street.

Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort, Bombay 1.

Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.

Commissariat, H. M., & Co.—7, Elphinstone Circle, Fort.

Consolidated Mill Supplies, Ltd.—Co-operative Insurance Building, Sir Phirozshah Mehta Road.

Damania & Co.—25, Bank Street, Fort.

DARUWALLA, M. N. & CO.—Dealers in Tallow and all kinds of Mill Stores. 32, Apollo Street, Fort. Phone No. 252715. Tel. Address: "TALLOW."

Das & Co.—Das Chambers, Dalal Street, Fort, Bombay.

Deevian Agencies.—42, Prospect Chambers Annexe, Hornby Road, Fort.

Desai, M. S., & Co.—77, Nagdevi Cross Lane, Bombay 7.

DESAI TUBE & HARDWARE MART.—41, Nagdevi Cross Lane, Bombay 3. Phone: 20606, Grams: "HASTY." Mill Gin Store Suppliers. Pipe Fittings and Hardware Merchants.

Dewanchand Nikkamall & Co.—126, Narayan Dhuru Street, Bombay 3.

Dinshaw Master & Co., Ltd.—247, Nagdevi Street.

Diwan Bros.—51, Nagdevi Street, Bombay 3.

Dulabhdas, P., & Co.—Samuel Street, Vadgadi.

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.

Dwarkadas Khetan & Co.—139, Medows Street, Fort.

Eastern Stores & Trading Co.—115-A, Nagdevi Street.

EDGAR HANDLEY AND COMPANY PRIVATE LIMITED.—135, Medows Street, Fort, Bombay. Phones: 253548 and 252934. Grams: "TROJAN."

Ekbal & Co.—Lucky Mansion, Mahomedally Road, Bombay 3.

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ENGINEER BROS.—16, Apollo Street, Fort, Bombay. Phone: 251009. Grams: "SHRIJIBAVA." Importers of Textile Mill Machinery Accessories.

Engineer, Eruch D., & Co.—Crossley House, Apollo Street, Fort.

Engineering & Agencies Ltd.—Dena Bank Building, Elphinstone Circle.

Esufally Adamji & Co.—134, Nagdevi Street.

Excelsior Mill Supply Co.—Alli Chambers, Medows Street, Fort.

Fulabhai & Company.—134, Medows Street, Fort, Bombay.

Gannon Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

General Trading Corporation.—36-B, Tamarind House, Tamarind Lane, Fort.

General Tube Ltd., The.—142-44, Nagdevi Street, Bombay 3.

General Stores Co.—154, Narayan Dhuru Street, Bombay 3.

Getz India Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

Ghia, M. C., & Co.—Raja Bahadur Motilal Mansion, 28, Apollo Street, Fort.

PHONE: 20815 GRAMS: "GOODLUCK"

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Great Eastern Trading Co.—107, Cowasji Patel Street, Fort.

Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.

Greentose Corporation (India).—Cama Buildings, 24-26, Dalal Street, Fort.

Gujerat Mill Store Co.—Kirti Building, Forbes Street.

Gulamhusain M. Hasanali.—85/1, Sarang Street, Bombay 3.

Haiderbhoy Esmailji & Co.—168, Nagdevi Street, Bombay 3.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

Harjimal Kidarnath & Co.—87, Nagdevi Cross Lane, Bombay 3.

Hazarat & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING." Phone: 20974. Importers & Stockists of Chain Pulley Blocks, Garage Tools, Fibre Sheets, Rods, etc.

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Hindustan Tube Company.—163, Nagdevi Cross Lane, Bombay 3.

Hiralal Gokuldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

Hiralal, T., Co.—72-80, Nagdevi Cross Lane, Bombay 3.

Hoosein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

Imperial Trading Syndicate.—Podar Chambers, 54, Parsi Bazar Street, Fort.

Indian Commercial Agency.—Regd. Office: Rahimtoola House, 7, Homji Street, Fort.

Indian Commercial Co.—86, Sarang Street (Bhusari Mohalla), Bombay 3. Phone: 30885.

Indian Stores Trading Co.—Sir Vithaldas Chambers, 10, Apollo Street, Fort.

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Indo-Bobbins & Textile Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Indo-Bombay Trading Co.—34, Nagdevi Street.
Indo-British Chemical Co.—Raja Bahadur Mansion, Tamarind Lane, Fort.
Indo-British Trading Bureau.—7/10, Elphinstone Circle, Fort.
Indo-Commercial Co., Ltd.—Hamam House, Hamam Street, Fort.
Indo-Textile Stores, The.—16, Apollo Street, Fort, Mill & Gin Stores Suppliers and Specialists in Shuttles, Reeds, Leather Goods and Wire Healds. Phone: 255261. Grams: "ALLTRADCO."
Industrial Engineering Co.—45-47, Apollo Street, Fort.
Industrial Leather Co., Ltd., The.—9, Ash Lane, Fort.
Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.
Industrial Stores Co.—Seksaria Chambers, 139, Medows Street, Fort.
Industrial Syndicate.—Lentin Chambers, Dalal Street, Fort.
Industrial Textile Stores.—55-57, Nagdevi Cross Lane, Bombay 3.
Industrial Textile Stores Co.—7-10, Elphinstone Circle, Fort.
Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay.
Ishverdas Jugmohandas & Co.—Mubarak Manzil, Apollo Street, Fort,
Ispat Traders.—129, Sarang Street, Bombay 3.
J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.
Jagmohandas Shamaldas & Sons.—11, Tamarind Lane, Fort.
Jairam Jadhavji & Sons.—74, Nagdevi Cross Lane, Bombay 3.

JAIRAMDAS & SONS.—163, Narain Dhuru Street, Bombay 3. Grams: "JAIRAMDAS." Phone: 29020.

James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.
Jamnadas Chaturbhuj & Bro.—92, Vithalwadi, Bombay 2.
Jashwantlal Manecklal & Co.—97 Nagdevi Street, Bombay 3.
Jayashankar Nathalal & Co.—5, Alli Chambers, Tamarind Lane, Fort.
Javeri Traders.—P.O. Box No. 1977, 34, Cawasji Patel Street, Fort.
Jhaveri Brothers.—149, Shroff Bazar, Bombay 2.

JIVARAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone No. 30138. Grams: "SANIPIPES."

Jones & Co. (Bombay) Private Ltd., J. D.—Rustom Building, Churchgate Street, Fort.
Jupitor Mill Stores Co., The.—105, Apollo Street, Fort.

K. J. CORPORATION.—78, Ali Chambers, Tamarind Lane, Bombay 1. Phone: 254261. Grams: "KEJECORP." Importers, Exporters and Manufacturers' Representatives, Specialised and Stockists in Leather goods, such as Pickers, Leather Beltings, Buffers & Pickers Screws, etc., Wooden articles, Bobbins and Loom Sundries.

Kaliandas Jagmohandas & Sons.—9, Alli Chambers, Tamarind Lane, Fort.
Kanchan Brothers & Co.—45/47, Apollo Street, Fort.
Kantilal Bhogilal & Co.—Nagdevi Cross Lane.
Khusaldas, J., & Co.—77, Nagdevi Street.

KIRTILAL & CO.—31, Bibijan Street, Barbhai Mohalla, Bombay 3. Phone: 23572. Grams: "PIPEWRENCH." Mill Gin Store Suppliers and Hardware Merchants.

Kishor Trading Co.—145, Narayan Dhuru Street, Bombay 3.
Kooverji Devshi & Co.—164, Lohar Street, Bombay.

KRISHNA TEXTILE STORES.—7, Hamam Street, Fort, Bombay 1. Grams: "DISCIPLINE." Phone: 254348. Mill & Handloom Stores Suppliers.

Kumar Textiles.—Lentin Chambers, Dalal Street, Fort.
L. M. & Bros.—Eagle Wadi, near New Mills, Kurla.

MACHINE TOOLS & IMPLEMENTS.—93/95, Narayan Dhuru Street, Bombay 3. Phones: Office: 22868. Residence: 24-2425. Grams: "MACHTOOLS."

Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3. Phone: 23015. Grams: "ARMPIPE." Pipe Fittings, Sanitary Wares & Mill Gin Stores. Specialists in Water Meter.
Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort, Bombay.
Maganbhai Amin & Co.—105, Apollo Street, Fort.
Mahendraraj Textile Stores Co.—Sir Vithaidas Chambers, 16, Apollo Street, Fort.
Mangaldas Jesingbhai & Co.—49, Tamarind Lane, Fort.
Mangaldas & Sons.—Lentin Chambers, Dalal Street, Fort.
Manilal, R., & Co.—Victoria Building, Parsee Bazar Street, Fort, Bombay.

MANOHAR BROTHERS.—4, Commerce House, Medows Street, Fort, Bombay. Phone: 254496. Grams: "LOCOMOTIVE." Branch: 37, Errabalu Chetty Street, Madras. Phone: 4274.

MEHTA BROTHERS & CO.—Union Bank Bldg., 4th Floor, Dalal Street, G.P.O. Box No. 1159, Bombay 1. Phone: 254512. Grams: "SUVASIT." Direct Importers of English "BETATAN" Brand Leather Beltings, Picking bands, Fibre Card Cans, Woollen Machinery, Cloth and other Mill Stores items. Sole Agents for Messrs. Panipat Woollen & General Mills Co., Ltd., Kharar, near Chandigarh, Dist. Ambala. Manufacturers of Woollen Cloth for Textile Machinery.

Manubhai Shah & Co.—297, Samuel Street, Vadgadi, Bombay 3.
Marine & Mills Agencies.—257, Nagdevi Street, Bombay 3.
Mayashanker Thacker & Co.—65, Apollo Street, Fort.
Mehta & Co., S.—Anees Chambers Annexe, Carnac Road, Bombay 1.
Mehta Brothers.—Hamam House, Hamam Street, Fort.
Mehta Bros. & Co.—78, Apollo Street, Fort.
Mehta, H. P., & Co.—112, Nagdevi Street, Bombay 3.

MEHTA MILL SUPPLY CO.—Union Bank Building, 4th Floor, Room No. 10, Dalal Street, Bombay 1. Direct Importers and Stockists of English Leather Beltings. Picking Bands, Fibre card Cans. All kinds of Woollen Machinery Clothes and other Mill Stores Items. Head Office: Reid Road, Ahmedabad.

Mehta Nanavaty & Co.—Barbhai Moholla, 96, Narayan Dhuru Street, Bombay 3.
Mehta Textile & Hardware Stores.—158-160, Narayan Dhuru Street, Bombay 3.
Menty, Naterwalla & Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Mills Store Co., The.—43, Nagdevi Cross Lane, Bombay 3.
Mill Stores Trading Co. of India Ltd.—Mehta House, 79-91, Apollo Street.
Minerva Engineering Stores.—76, Nagdevi Street.
Modern Mill Stores.—97, Nagdevi Street, Bombay 3.
Modern Shuttle Manufacturing Co., Ltd.—15, Forbes Street, Fort, Bombay.
Mody Trading Co.—163, Nagdevi Cross Lane, Bombay 3.
Muljibhai Chhotalal & Co.—76-78, Nagdevi Street, Bombay 3.
Nanavati & Co., Ltd.—16, Apollo Street, Fort.
Narandas G. Bhatia & Bros.—167, 5th Cavel Cross Lane, Gaiwadi, Bombay 2.
Narandas Ranchhoddas & Co.—93, Nagdevi Cross Lane, Bombay 3.
Narielwala, B. P., & Sons.—101, Apollo Street, Fort.
Narotamdas Chunilal & Co. (Estd. 1903).—51, Tamarind Lane, Fort, Bombay.
National Commercial Corporation, Ltd.—251-53, Hornby Road, Fort.

Telephone: 39123 Telegrams: HINDENCO

NEW HIND ENGINEERING CO.

(Estd. 1940)

63, Nagdevi Cross Lane, BOMBAY 3

Direct Importers & Stockists of

MILL GIN STORES • ENGINEERING TOOLS HARDWARE • ASBESTOS GOODS • MILL GEARING • SHAFTING • PULLEYS COUPLINGS • BEARINGS, ETC.

Largest stockists of

TEXTILE BELTINGS (Hair, Leather, Rubber, Canvas and Industrial V-Belts).

TRADE INQUIRIES INVITED

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPIBELT." Authorised Distributors of "Dunlop" Belting, Vee-Belts, Hoses & Trolley Wheels.

Noble Mill Stores Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Noble Trade Co.—141, Nagdevi Street, Bombay 3.
Ochhavlal, R., & Co.—86, Nagdevi Street, Bombay.

ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29/A, Alli Chambers, Dean Lane, Fort. Phone: 252428. Grams: "OMILLCO."

Orion Trading Co., Ltd., The.—Opp. Round Temple, Sandhurst Road, Bombay 4.
Ormerods (India), Ltd.—Bank of Baroda Building, Apollo Street, Fort.

P. MOHANLAL & COMPANY.—44, Nagdevi Cross Lane, Bombay 3. Phone: 30567. Grams: "EMERYCLOTH." Direct Importers & Stockists of Hawk Conveyor Belt Fasteners, Harris and Jacksons Belt Fasteners, Belt Lacings, Belt Hooks, Oil Cans, Asbestos Goods & Tools.

PANALAL MOHANLAL & CO.—89, Nagdevi Street, Bombay 3. Direct Importers of Copper, Brass, Galvanised Black Pipes & Fittings and Gun Metal Fitting & Valves. Phone: 30211.

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P. RATILAL & CO.
Moti Mahal, 43, Dhanji Street, Bombay 3
Importers and Dealers of:
BLUE-STAR V-BELTS
Ball-Bearings & Shaftings; Asbestos & Rubber Goods; Beltings; Crucibles; Abrasives; Tools; Bolts; Nuts; Screws; Flour-Grinding Mills; Rice Hullers; Centrifugal Pumps; Oil Engines, Etc., Etc.
Telegrams: "ETERNAL" 'Phone: 39100

Paradise Trading Corporation—73/75, Tamarind Lane, Fort, Bombay.

Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.

PARAMOUNT TEXTILE AGENCY.—Importers & Manufacturers' Agents. Speciality in Textile Leather goods and Loom Sundries, 45/47, Apollo Street, Fort, Bombay. Phone: C/o 254584. Grams: "BHOPO", Bombay. Head Office: Haridas Acharatlal Market, Kapasia Bazar, Ahmedabad. Phone: 4742. Grams: "PARATEX," Ahmedabad.

Paramount Traders.—Noble Chambers, 1st Floor, Parsee Bazar Street, Fort, Bombay.

Parekh Bros.—Sangli Bank Building, Behind Reserve Bank, 296, Bazargate Street, Fort, Bombay.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Mill Gin Stores, Engineering Tools, Abrasives and Asbestos Products and Belt Lacings.

Parikh Brothers & Co.—45-47, Apollo Street, Fort.

Parikh & Parikh.—11, Dean Lane, Fort, Bombay. Mill Gin Store Suppliers.

PATEL BROTHERS & CO.—41, Nagdevi Cross Lane, Bombay 3. Phone: 20606. Grams: "HASTY." Mill Gin Stores Suppliers, Pipe Fittings and Hardware Merchants.

Patel, U. D., & Co.—11, Bank Street, Fort.

Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road.

Phiroz N. Motabhoy & Co., Ltd.—Motabhoy Building, Corner of Medows and Forbes Streets, Fort, Bombay.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

PICKERS LIMITED.—Manufacturers of Quality Pickers of all Sizes and descriptions, 43, Tamarind Lane, 4th Floor, Fort, Bombay. Head Office: Ellis Bridge, Ahmedabad 6. Grams: "COWSIE," Bombay & Ahmedabad. Bombay Office Phone No. 253707.

Pioneer Hardware & Engineering Corporation.—Sangli Bank Building, 296, Bazargate Street, Fort, Bombay.

Pioneer Magnesia Works, Ltd., The.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Printer, D. P., & Co.—1, Bruce Street, Fort.

PUNEGAR, N. E. & CO.—Boiler, Economiser, Steam Plant Solutions and Paints Specialists. Union Bank New Building, Dalal Street, Fort, Bombay 1. Phone No. 253178. Telegrams: "ACMECOMPO," Bombay.

Radiant Mill Stores Co.—106, Medows Street, Fort.

R. C. Traders.—Lentin Chambers, Dalal Street, Fort, Bombay.

R. R. JINDE & CO.—14, Mohan Nivas, Chandavarkar Road, Bombay 19. Grams: "GOLDENHILL."

Reliance Stores & Trading Co.—Raja Bahadur Building, 43, Tamarind Lane, Fort.

Reliance Trading Co.—25/47, Lohar Street, Bombay 2.

Repute Engineering Co.—165, Narayan Dhuru Street, Bombay 3.

R. MOHANLAL & CO.—38, Bibijan Street, Bombay 3. Phone: 30929. Grams: "HANDTAPS." Speciality: All kinds of Asbestos Packings, Jointings, Leather & Rubber Beltings, Vulcanised Fibre Sheets and allied Accessories.

Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone: 38621. Grams: "MANILAROPE."

Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.

S. BAXI & BROTHERS.—2/C, Bibijan Street (Nagdevi), Bombay 3. Phone: 20355. Grams: "BABUSHANTI." Mill Gin Stores, Hardware, Hose Pipes, Rubber Sheets and Pipe Fitting Merchants.

Sardesai & Company.—14, Murzban Road, Fort, Bombay.

SAURASHTRA WIRE HEALDS MFG. CO. PRIVATE LTD.—Manufacturers of Wire Healds. Office: Sanghavi Chambers, 27, Ghoga Street, Fort, Bombay. Phones: 253502 (Office) & 40634 (Resi.). Grams: "VIRVANDAN." Factory: Udyoganagar, Bhaktinagar Station Road, Rajkot (Saurashtra). Phone: 943. Grams: "WIREHEALDS," Rajkot. Managing Director: M. K. Sanghavi.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

Sethna, Katrak & Co.—Tamarind House, 30, Tamarind Lane, Fort.

Settna, R. Pheeroz & Co.—79, Medows Street, Fort.

Shah Bros. & Co.—Raja Bahadur Compound, Hamam Street, Fort.

Shah & Brothers.—234, Nagdevi Street, Bombay 3.

SHAH PATEL & CO.—109/111, Nagdevi Street, Bombay 3. Phones: 20709 and 39977. Grams: "LUCKYCHAP." Manufacturers of Flat & Grooved Pulleys, and shaft couplings. Stockists of Ball Bearings, Shafts, Beltings, etc. "Nirmill" Rubber Beltings.

Shamsun & Co.—11, Bruce Street, Fort.

Shantilal Sheth & Co.—Bansilal Mansion, Bruce Street, Fort.

Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Tamarind Street, Fort.

Shree Vijay Trading Corporation.—71/73, Apollo Street, Fort.

Shri Shakti Trading Co.—22, Apollo Street, Fort.

Shroff Bros. & Co.—7-9, Elphinstone Circle, Fort, Bombay.

Siraj, A. H., & Co.—145, Janjikar Street, Bombay 3.

Sivramkrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

Sizing Materials Co., Ltd.—Jeroo Building, Mahatma Gandhi Road, Fort.

S. Sevantilal & Co.—246, Masjid Bunder Road, Bombay 3.

Standard Mill Stores Co.—41, Bruce Street, Fort.

Standard Trading Agency.—Seksaria Chambers, 139, Medows Street, Fort.

Standard Trading Co.—Vithal Sayana Building No. 2, 43-75, Lohar Street, Bombay 2.

STAR TRADING CO. PRIVATE LTD., THE.—Bank of Baroda Building, 12, Apollo Street, Fort, Bombay. Textile Engineers and Merchants. Phones: 253480 and 251357. Grams: "STARTRADE." Importers of Textile Machinery.

Sunderlal & Sons.—Narayan Dhuru Cross Lane, Pranjivan Building, Bombay 3.

SUNSHINE TRADERS.—3, Hamam Street, Fort, Bombay. Phone: 251631. Grams: "SUBHMANGAL." (1) Manufacturers of Spindle tapes, Cotton listings, Venetian blind tapes, Tubular bandings, Bundle bandings and Cotton bandings; (2) Manufacturers of spindle tapes and listings and textile stores suppliers; (3) Manufacturers of Egyptian tapes and webbings.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

Teamsan Traders.—Post Box No. 3162, Nagdevi Street, Bombay 3.

Techno-Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay.

Textile Machinery Corporation, Ltd.—254-A, Annie Besant Road, Worli, Bombay 18.

TEXTILE SUPPLIES SYNDICATE (INDIA), PRIVATE LTD.—India House, 1st Floor, Opp. G.P.O., Bombay. Phone: 26-3564. Grams: "GOODBELT."

TEXTILE & TIMBER TRADERS.—Medows House, Medows Street, Fort. Phones: 252666 and 78319 (Lakri Bunder Depot).

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone: 20498. Grams: "PIPEWARE."

Tribhovandas Sons Ltd.—70, Dadyseth Agiary Lane, off Kalbadevi Road, Bombay 2.

Trinity Industrial Stores.—72-74, Nagdevi Street, Bombay 3.

Trinity Textile Traders.—Seksaria Chambers, 139, Medows Street, Fort.

Trivedi Textilaties & Company.—9, Ash Lane, Fort. Mill Gin Stores Suppliers & Machinery Merchants.

T. U. Patel & Sons, Ltd.—Huseini Chambers, 33, Nanabhai Lane, Fort, Bombay 1.

U. D. PATEL & COMPANY PRIVATE LTD.—11, Bank Street, Fort, Bombay. Phone: 254554. Grams: "UDIPATEL," Bombay & Akola. Mill Gin Stores and Hardware Dealers. Sole Agents for: M.L.F. Brand Chrome Composite Ginning Washers, Excentric drive Ball Bearing Conversion Sets for single Roller gins; "Pagoda" & "Sun" brand Leather Beltings; Oil Engines, Pumps, Electric Motors, etc.

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United Tube & Hardware Co.—146, Nagdevi Street.
Universal Supply & Trading Co.—Ismail Building, 381, Hornby Road, Fort.
Universal Tanneries, Ltd.—Dharavi, Bombay 17.
Universal Trading Co.—79, Mohamedi House, Mohamedalli Road, Bombay 3.
Vadilal, H., & Co.—13, Tamarind Lane, Fort.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
Vasantrai & Sons.—Botawalla Building, 7-10, Elphinstone Circle, Fort.
Venus Textile Syndicate.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Victor Trading & Engineering Co. Pvt. Ltd.—Victor House, Jacob Circle, Bombay 11.
Vinod Mehta & Co.—22-B, Noble Chambers, Parsee Bazar Street, Fort.
Viswabharati Trading Co.—Kumpta Street, Ballard Estate, Bombay 1.
Vithaldas, G., & Co.—60, Nagdevi Cross Lane.
Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.
Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.
Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort. Phone : 20829.
Wallace, P. R., & Sons, Ltd.—Elphinstone Building, 10, Vir Nariman Street, Fort.
Western Engineering Co.—Western India House, Sir Phirozshah Mehta Road, Fort. P. O. Box 75.
Western Textile Corporation.—Prospect Chambers Annexe, Hornby Road, Fort.

MINERAL MERCHANTS

AMAR MINERALS PRIVATE LTD.—Alice Building, 339, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 255771. Factory : Kalyan (Central Railway). Phone : Kalyan—26. Dealers in all kinds of Minerals such as 85 % Asbestos Magnesia, Barytes, Bentonite, Red Oxide, Talc, etc.

Bajaj Textile Mills Ltd.—384M, Kalbadevi Road, Bombay 2.
Baldota Brothers.—43, 2nd Bhoiwada, Bombay 2.
Bapusaheb M. & Co.—Bharat House, 3rd Floor, Apollo Street, Fort, Bombay.
Bhiwandiwall A. H. & Co. (Bombay) Ltd.—93-95, Kazi Syed Street, Bombay 3.

C. PRAVINCHANDRA & CO.—Bhabha Bldg., 2nd Floor, 36-48, Masjid Bunder Road, Bombay 3. Phone Nos. 20738 and 65361. Grams : "SNOWDROP." Factory : Plot No. 172, Sewri Road, Bombay 15. Manufacturers of "CIPCO" Brand 85 % Asbestos Magnesia and other Lagging Products.

Central Hindusthan Italian Trading Co. Ltd.—C/o G. Atherton & Co. Ltd., 28, Apollo Street, Bombay.
Champaklal Morarji & Co.—193, Samuel Street, Bombay 9.
Chimanlal Patel & Co.—124, Hornby Road, Fort.
Coal Mining & State Minerals Ltd.—Alice Bldg., Hornby Road, Fort.

D. KANIYALAL & CO.—45, 3rd Cavel Cross Lane, Kalbadevi Road, Bombay 2. Phone : 34052. Minerals, Clay Merchants & Grinders. Dealers and Stockists of Asbestos Products; China Clay, Ochres of all kinds, Bentonite, Calcite, Whiting, Red Oxide, Emery, Glass Sand, Marble Chips, Magnesite, Felspar and Silica Powder. Factory : Sewri, Bombay 15.

Dandekar Company.—Bombay Mutual Annexe, Fort, Bombay 1.
Dayashanker Bhatt & Co.—Mansu Mansion, 16, Custom House Road, Bombay 1.
Devidayal (Sales) Private Ltd.—Tulsiram Gupta Mills Estate, Mazagaon, Bombay 10.
Ferro Metal & Chemical Corporation.—Bhupat Bhuvan, 80, Nepean Sea Road, Bombay 6.

GANPAT HARJIVAN.—114, Nagdevi Street, Bombay 3. Phone : 20238. Grams : "CLAY."

GOODWILL TRADING CO.—34, Nagdevi Street, Bombay 3. Grams : "SPEEDSALE." Phone : 29501. Importers & Dealers in Heavy Chemicals & Minerals, Bauxite, Iron Ore, Calcite, Gypsum & Dolomite.

Gujarat Clay Mills.—246, Reay Road, Bombay 10.
Hariram Dinanath.—Oriental Bank Building, 65, Mahatma Gandhi Road, Fort, Bombay.
Hindustan Manganese Mines Ltd. The—93-95, Kazi Syed Street, Bombay 3.
Hind Traders.—241, Princess Street, Bombay 2.

HINDUSTHAN MINERAL PRODUCTS CO. PRIVATE LTD., THE.—111, Industrial Area, Sion, Bombay 22. Phones : 61051-41682 & 89318. Grams : "BARYTES." Geologists, Mining Engineers & Stockists of Indian Minerals. Dealing in :—Barytes, Iron Oxides and other Minerals. Pulverisers of Organic and Inorganic Products and formulators of Insecticides. Factories at : 111, Industrial Area, Sion, Bombay 22. 2. 27, Manganese Depot, Sewri, Bombay 15. 3. Tadpatri, Southern Railway.

Hughes & Davies.—Mahatma Gandhi Road, Bombay.

INDIAN CLAY & RAW PRODUCTS SUPPLY CO.—Belvedere Hill Road, Mazagaon, Bombay 10. Phone : 40794. Grams : "CLAY."

Indian Mineral Supply Co.—14, Western India House, Sir Phirozshah Mehta Road, Fort.
Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.
Iron & Metal Traders Ltd.—Off Magazine Street, Near Reay Road Station, Mazagaon, Bombay 10.
Jagannath Gupta & Co. Ltd.—(Manganese Department), 7, Vishnu Mahal, 'D' Road, Churchgate Extension, Bombay.
Javeri Traders.—Lakhmi Building, 34, Cawasji Street, Fort, Bombay.
Kajaria Traders (India) Ltd.—325, Kalbadevi Road, Bombay 2.
Kerala Trading Co.—35, Bombay Mutual Annexe Building, Gunbow Street, Fort, Bombay 1.
Khandelwal Brothers Private Ltd.—Khandelwal Bhavan, 166, Dadabhai Naoroji Road, Bombay.
Khandelwal Mining Corporation.—6, Itola Street, Opp. Argyle Road, Carnac Bunder, Bombay 9.
Khemka (Agencies) Private Ltd.—Vulcan Insurance Building, 202-A, Veer Nariman Road, Churchgate Reclamation, Bombay 1.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams : "LALITKIRTI."
Mercantile Trading Co.—Gulzare Kasim, Mazagaon, Bombay 10.

MINERAL CORPORATION INDIA PRIVATE LTD.—107, Bapu Khote Street, Bombay 3. Phone : 72602. Grams : "ARAMSHIR." Stockists of Lime & Minerals.

MINERAL MINING CO., PRIVATE LTD., THE.—111, Industrial Area, Sion, Bombay 22. Phone : 61051. Grams : "BARYTES." Mine Owners & Mineral Suppliers. Dealing in :—Soapstone, China Clay, Corundum, Calcium Carbonate. Our speciality : Calcium Oxide & Calcium Hydroxide. Also formulators of Insecticides. Registered Office : Indian Chamber Buildings, Esplanade, Madras 1. Administrative Office : At 111, Industrial Area, Sion, Bombay 22. Branch Office : 'Ramalaya', Phaltan Dt., N. Satara. Factory : Rayalcheruvu—S. Railway.

Nagri Mining Co. Private Ltd.—Sambava Chambers, Sir P. M. Road, Fort, Bombay.

NAKIMPEX TRADERS.—24, Veer Nariman Road, Bombay 1. Phone No. 252906. Grams : "NAKIMPEX."

National Industries of India.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Natwarlal Shamaldas & Co.—94, Medows Street, Fort, Bombay.
New Bharat Grinding Mills.—Near Animal Hospital, Govt. Gate Road, Parel, Bombay 12.
Overseas Trade & Agencies (India).—Beaumon Chambers, Medows Street, Fort, Bombay.

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone : 251748. Grams : "WIDESCOPE." Importers, Exporters and Agents : Sulphur-Chemicals-Solvents, Fertilizers, Minerals-Lime-Jute-Products.

Pitty Brothers Ltd.—20, Hamam Street, Bombay.

QUALITY MINERAL SUPPLY SYNDICATE.—44, Old Custom House Road, Fort, Bombay. Phone : 254111. Grams : "SYMPATHY." Dealers in all kinds of Minerals such as Asbestos, Barytes, Bentonite, Calcite, China Clay, Soapstone, Activated Fullers Earth, etc.

Ram Bahadur Thakur & Co.—11-B, Noble Chambers, Ghoga Street, Bombay.

SARASWATI MILL STORE CO.—56, C.P. Tank Road, Bombay 4. Phone : 72134. Grams : "SHINAGU."

Sepulchre Brothers (India) Ltd.—Taj Building, D. Naoroji Road, Bombay.
Sharma & Sharma.—Oriental Bank Building, 65, Mahatma Gandhi Road, Bombay.
Shethia & Co., S. D., Ltd.—Podar Chambers, Parsi Bazar Street, Bombay 1.
Shivrajpur Syndicate Ltd., The.—Home Street, Fort, Bombay.

STANDARD MINERALS.—8, Sheriff Devjee Street, Bombay 3. Phone : 28563. Grams : "SHEPCHEM." Dealers in all kinds of Minerals, French Chalk, China Clay, Fire Bricks, Bentonite, Graphite, Fire Clay, etc.

Standard Pulverising Co.—Atlas Mill Compound, Reay Road, Bombay 10.
Tavaria Bros.—Dhan-Nur, Sir Phirozshah Mehta Road, Fort.

THAKKAR TRADING CO.—57, Sardar V. P. Road, Dongri, Bombay 9. Grams : "TITICO." Phone : 74200.

Todi & Co.—41, Hamam Street, Fort.

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U. ASBESTOS & MINERAL SUPPLY CO.—88/90, Abdul Rehman Street, Bombay 3. Phone: 263844. Grams: "MICAMINE." Dealers in 85% Asbestos Magnesia, Asbestos Powder, Asbestos Wool & Fluff and Industrial Red & Blue Fibre and Crude Asbestos, Hard Setting and Lagging Compositions.

UNIVERSAL MINERALS & CHEMICAL CO.—7/10, Horniman Circle, Fort, Bombay 1. Phones: 255110 and 254145. Grams: "UNIVERSAL." Dealers in minerals required for paint, rubber, Textile engineering, glass and other industries.

Vaswani (India) Private Ltd.—496, Kalbadevi Road, Post Box No. 2009, Bombay 2.

Wallem & Co.—India House, Opp. G.P.O., Bombay.

Western India Trading Co., The—Jan Mansion, Sir P. M. Road, Bombay.

MOTORS AND TRUCKS (AUTOMOBILES)

Advance Trading Corporation.—Bhangwadi, Kalbadevi Road, Bombay 2.

ALLIBHAI PREMJI TYREWALLA.—211, Lamington Road, Bombay 7. Phone: 42763. Cable: "TYRETUBE." Approved Dealers for "Royal Enfield" Motorcycles and 3 Wheelers. Tyres of all Makes & Sizes.

Asian Motor Car Co.—Ramchandra Mansion, Sandhurst Road.

Automobile Co., Ltd.—41, Queen's Road.

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Bombay Motors & Radios Ltd.—33, New Queen's Road.

BOMBAY SCOOTER & MOTOR AGENCY.—43, Queen's Road, Bombay 2. Phone: 27586. Grams: "SRETOOCS." Distributors for Lambretta Scooters, Three Wheelers, Scooterettes and Meadows Automotive type Diesel Engines.

Car Mart Ltd.—Pratt's Building, Hughes Road.

Continental Auto Stores.—Tram Terminus, Opera House.

DADAJEE DHACKJEE & CO. PRIVATE LTD.—Automobile Engineers; Dealers for TATA-MERCEDES-BENZ Commercial Vehicles & Mercedes-Benz Cars; Distributors for Lambretta Scooters, Scooterettes & Three-Wheeler Delivery Van & Ricksaw Chassis; Patentees of Specially designed "PR" type streamlined Vans on Lambretta Three-Wheeler Chassis; Distributors for Rolls-Royce, Bentley, Hillman, Humber & Sunbeam Cars & Commer & Karrier Commercial Vehicles; Importers & Dealers of Automobile Spare Parts & Accessories; Distributors for "WOLF" Electric Tools & Equipment & "OLDHAM" Automobile Batteries. Sandhurst Bridge, Bombay 7. Grams: "PROMPT," Bombay 7. Phones: 27021/23, Workshop: 74629.

Eastern Motor Corporation.—Indira Nivas, Bhatwadi, Girgaum.

Empire Automobiles.—Junction of New Queen's Road and Lamington Road.

Foreign Products Distributing Co.—491, Sandhurst Road, Bombay 4.

French Motor Car Co., Ltd.—9-11, Hughes Road, Bombay.

Garware Motors Engineering Private Limited.—Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

Harvan Motor House.—"Kapol Nivas", Sandhurst Road.

IDEAL MOTORS.—Bombay Mutual Annexe, Cawasji Patel Street, Fort. Phone: 262660. Grams: "IDEALMOTOR." Importers and Distributors of Cycles, Motor Cycles and Accessories. Agents for JAWA-CZ motor cycles of 50 c.c., 175 c.c., and 250 c.c. now progressively manufactured in India. Show Room: Hornby View Building, Gunbow Street, Bombay 1.

Imperial Motors.—Parekh House, 14, New Queen's Road.

Indian Automobile Co., Ltd.—2-4, Apollo Street, Fort.

Lincon Motors.—Marina Mansion, Sandhurst Bridge.

Lucas Indian Service Ltd.—15, New Queen's Road.

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Bombay 1.

Metro Motors, The.—Motor House, Hughes Road, Bombay 7.

Nizel Motors.—7-A, Princess Avenue, Bandra, Bombay.

Noble Cycle & Motor Co.—Commissariat Building, Hornby Road.

Patel, F. M., & Co.—Ramchandra Mansion, Sandhurst Road, Bombay 4.

Patel, N. D., & Co.—180-82, Princess Street.

Premier Automobiles Ltd.—Agra Road, Bombay 37.

Rapid Cycle & Motor Co., Ltd.—Opp. Edward Theatre, Kalbadevi Road.

Shetty Automobiles.—Opera House Tram Terminus.

Society of Motors Manufacturers and Traders, Ltd.—National Insurance Building, 27, Bastion Road, Fort.

Tata Locomotive & Engineering Co. Ltd.—148, Mahatma Gandhi Road, Bombay 1.

UNITED AUTOMOBILES.—431, Lamington Road, Bombay 4. Grams: "UNIAUTO."

United Motors (India), Ltd.—Hughes Road.

United Overseas Service.—16, New Queen's Road, Bombay 4.

MOTOR BODY BUILDERS

BHARATI WORKSHOP.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone: 76129. One of the Oldest Body Builders of Bombay. Accredited Body Builders of Central and Bombay Government, Factories and Leading Firms.

Hiralal & Company (Estd. 1927).—Petit Compound, Kennedy Bridge, Bombay 7.

INDIA BODY BUILDERS.—All Types of Motor Body Builders, Spray Painters, Welders, Upholsters & Fabricators, Eastern Woollen Mills Compound, 62, Bhawani Shankar Road, Dadar, Bombay 28. Phone: 60803. Grams: "AUTOBODY."

Jayanand Khira and Co., Ltd.—Office & Showroom: Kothare Bldg., Sandhurst Bridge, Bombay 7.

Regal Motors.—Old Victoria Mills Compound, Gamdevi, Bombay 7.

Royal Auto Works.—Tanker Ville Estate, 200, Gowalia Tank Road.

RUBY INDUSTRIES.—Motor Body Builders (on Government & Municipal List), 75, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 70538. Grams: "MOTORBODY." Branch: Naroda Railway Station, P.O. Naroda (Ahmedabad).

Sam Ruston & Co.—31/33, Mangalore Street, Ballard Estate.

Sewri Engineering Works.—234, Sewri Road, Bombay 15.

MOTOR (BUS & COACH) BODY BUILDING MATERIALS

Associated Auto Parts Ltd.—445, Lamington Road, Bombay 4.

JAFFERBHAI & CO.—106, Bhendi Bazar, P.O. Box No. 3055, Bombay 3. Phone: 70524. Grams: "NECESSITY." Dealers in P.V.C. Leather Cloth, Canvas, Motor Accessories, Felt, Celluloid, Aluminium Sections, etc.

JYOTI MOTOR ACCESSORIES.—138, New Charni Road, Prarthana Samaj Corner, Bombay 4. Grams: "JAGJYOTI." Importers & Stockists of Jagger Motor Body Fittings, P.V.C. Leather Cloth, Upholstery Materials, Rubber Mattings, etc. Specialists in Auto Seat Covers.

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United Motors (India), Ltd.—Arthur Bunder, Colaba.
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Karsandas Haridas.—Argyle Road, Bombay 9.
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Premji Haridas & Co.—Bhanusali Chambers, 168, Argyle Road, Bombay 9.
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Gulabchand Nathalal & Co.—45, Mirchi Lane, Bombay 3.
Indian Commercial Co., Ltd.—45-47, Apollo Street, Fort, Bombay.

NEWSPAPERS AND PERIODICALS

ENGLISH

DAILY

"ECONOMIC TIMES."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"EVENING NEWS OF INDIA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"Financial Express."—Standard Press, Colaba.
"Free Press Bulletin."—21, Dalal Street, Fort.
"Free Press Journal."—21, Dalal Street, Fort.

"HINDUSTHAN STANDARD" & "DELHI HINDUSTHAN STANDARD" (English Daily from Calcutta and Delhi).—Bombay Office: United Bank of India Bldg., Sir Phirozshah Mehta Road, Bombay 1. Phone: 252188. Gram: "ANANDBAZAR."

"Indian Express."—Standard Press, Colaba.
"Press Trust of India".—Financial and Commercial Service, 357, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
"Reuter's Indian Journal."—357, Hornby Road, Fort.

"TIMES OF INDIA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

WEEKLY

"All-India Weekly."—41, Hamam Street, Fort.
"Bharat Jyoti."—Journal Press, 21, Dalal Street, Fort.
"Blitz."—Sanj Vartaman Printing Press, Apollo Street, Fort.
"Bombay Market."—21 Dadisheth Agiary Street, Kalbadevi, Bombay.
"Commerce."—Caxton House, Frere Road, Fort.
"Current."—Meher House, Cawasji Patel Street, Bombay 1.
"Economic Weekly."—Popular Printing Press, Tardeo.

EVES WEEKLY (India's Only Family News-Magazine).—Sanj Vartaman Press, Apollo Street, Fort, Bombay. Price: 25 nP. per Copy (pp. 40). Annual Subscription Rs. 12 (Inland), Rs. 18 (Foreign). Half Yearly Rs. 6 (Inland). Editor: Mrs. M. Mehta, Advt. Manager: R. D. Mistry. Advertisement Rates: Casual Rs. 17 per c.i.: over 200 in. Rs. 15: Rs. 150 extra for every additional colour. Phone: 255362-3. Grams: "EVESWEEKLY."

"Examiner."—Examiner Press, Medows Street, Fort.

"ILLUSTRATED WEEKLY OF INDIA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

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"Indian Market."—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
"Indian Social Reformer."—Kannada Press, 109, Parsi Bazar Street.
"Investor's Supplement to the Stock Exchange Circular."—42-43, Stock Exchange Building, Apollo Street.
"Logic."—Rangbhoomi Printing Press, 141, Shivaji Park, Dadar.
"National Guardian."—227, Frere Road, Fort.
"New Leader."—Kothari Printing Works, Sir Phirozshah Mehta Road, Fort.
"Screen."—Standard Printing Press, Colaba.
"Sporting Times."—143, Esplanade Road, Fort.
"Sunday Standard."—Standard Printing Press, Colaba.
"TIMES OF INDIA" (Sunday Edition).—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

FORTNIGHTLY

"FEMINA."—Times Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
"FILMFARE."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
"Mangalorean."—339, Hornby Road, Fort.
"Problem."—Victoria Printing Works, 322, Denawadi, Bombay 2.
"Property Market."—Churchgate Street, Fort.
"Psycho."—Podar Chambers, Fort.
"Racing Calendar."—Caxton Press, Frere Road.

MONTHLY

"Communist."—Communist Office, Bombay 4.
"Indian Concrete Journal."—121, Queen's Road, Bombay 1.
Indian Electrical News Published by Ellora Art Industries.—Shreeji Bhuvan, Lohar Chawl, Bombay 2.

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"RADIO TIMES OF INDIA."—29, New Queen's Road, Bombay 4. Phone No. 22473. Grams : "ETHERWAVE." Edited by D. D. Lakhanpal, B.A., B.Sc. (Tech.) (Manchester), A.M.C.T., A.M.I.E. (India), A.M.I.E.E. (London), A.M., B.R.I.T., I.R.E. Published monthly on the 1st of every month.
"Rural India."—Atre Printing Press, 362, Vithalbhai Patel Road, Bombay 4.

QUARTERLY

"OCEANITE."—The Maritime Magazine of India, 204, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone No. 26-3052.
"Social Service Quarterly."—Servants of India Society's House, Sandhurst Road.
"Textile Digest."—India Printing Works, 9, Bakehouse Lane, Fort.

ANNUAL

Major Industries of India Annual, Cotton Textile Industry Annual, Sugar Industry Annual. Publishers : M. P. Gandhi & Co., Jan Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1.
"TIMES OF INDIA DIRECTORY AND YEAR BOOK."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.
"THE TIMES OF INDIA ANNUAL."—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

ANGLO-GUJARATI

WEEKLY

"Parsi Avaj."—R. F. Joshi P. Press, Mangalore Street, Fort.

ANGLO-MARATHI

WEEKLY

"Subodh Patrika."—Prarthana Samaj, Charni Road, Girgaum.

ANGLO-PORTUGUESE & KONKANI

WEEKLY

"Ave Maria."—New Sonapur Street.
"Chabuk."—Kumar Printing Press, Vilen Lane, Bombay 4.
"Goa Mail."—322, Girgaum Road, Thakurdwar.
"Goa Times."—84-86, 1st Marine Lines, Dhobi Talao.
"Udentichem Neketr" (Konkani).—Examiner Press, Medows Street, Fort.

MARATHI

DAILY

"Cole Daily News."—31, Tribhuvan Road.
"Daily News."—Daily Samachar Press, Krishna Building, Falkland Road.
"Final Sadanand."—Power Printing Press, Kandewadi, Bombay 4.
"Jordar Patrika."—Kotuleshwar Printing Press, Fanaswadi, Bombay 2.
"Lokasatta."—Standard Press, Newspaper House, Colaba.
"Navakal."—13, Shenviwadi, Kandewadi, Girgaum.
"Navshakti."—Navshakti Printing Press, 21, Dalal Street, Fort.

WEEKLY

"Dhanurdhari."—Ramkrishna Printing Press, 15-17, Tribhuvan Road.
"Lokasatta."—Standard Press, Newspaper House, Colaba.
"Mouj."—Khatau Makanji Wadi, Girgaum.
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"Taraka."—Lakshmi Narayan Printing Press, 364, Thakurdwar.
"Vivek."—Ramkrishna Printing Press, Girgaon, Bombay 4.
"Vividh Vritta."—Shri Laxmi Narayan Printing Press, Thakurdwar.

FORTNIGHTLY

"Daivadnya Prabodhini."—Vinaya Press, 267, Girgaum Road, Kandewadi.
"SAKSHARATA DEEN".—Editor : B. M. Kapadia, Bombay City Social Education Committee, Tata Road 2, Bombay 4.
"Shipai."—Vijay Printing Press, 269, Girgaon Road, Bombay 4.
"Soviet Mitra."—Famous Printers, 12, Tribhuvan Road, Bombay 4.
"Vaibhav."—Navyug Printing Press, Portuguese Church Street, Bombay 14.

MONTHLY

"Adarsh Vaishya."—Ramkrishna Printing Press, Tribhuvan Road.
"Daivadnya Samachar."—Madan Building, Tara Temple Lane.
"Girni Samachar."—364, Thakurdwar Road.
"Kunabi Udaya."—Shripad Printing Press, Kandewadi.
"Maccabi."—Shri Laxminarayan Press, Bombay 2.
"Monthly Organ of Maharashtra Chamber of Commerce."—(VAIBHAV), 12, Rampart Row, Fort, Bombay 1.
"Prabu Prabhat."—Zaoba's Oart.
"Vaishya Patrika."—Ramkrishna Printing Press, Tribhuvan Road.
"Zarapkar."—Tulsi Pipe Road, Dadar.

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DAILY

"Bombay Samachar."—Red House, Parsi Bazar Street.
"Cole Daily News."—31, Tribhuvan Road.
"Cutch Mitra."—(Thrice a Week), Mitra Printery, 73, Gokhale Road North, Dadar, Bombay 14.
"Daily News."—Krishna Building, Golpitha.
"Jam-e-Jamshed."—(Anglo-Gujarati), Jam-e-Jamshed Press, Ballard Estate.
"Janmabhumi."—Ghoga Street, Fort, Bombay.
"Praja-Tantra" (Gujarati Evening Daily).—Kalam Kutir, 211/19, Frere Road, Fort, Bombay.
"Vandemataram."—Vandemataram Mudranalaya, Nasik Chambers, Frere Road, Fort.

WEEKLY

"Bombay Samachar."—Red House, Fort.
"Chhaya."—Central Fine Art & Litho Works, 293A, Bellasis Road, Bombay 8.
"Chitrapat."—Chitrapat Printing Press, West End Gate, Lamington Road.
"Cinema Fan."—Kumar Art Printing Press, Bombay 7.
"Film Chitra."—Daily Samachar Printery Press, Golpitha.
"Gujerati."—Gujerati Printing Press, Elphinstone Circle, Fort.
"Ismaili."—(Anglo-Gujarati), Ismaili Printing Press, 1/4, Dongri Street, Bombay 9.
"Jam-e-Jamshed."—Jam-e-Jamshed Press, Ballard Pier.
"Janmabhumi and Pravasi"—Pravasi Mudranalaya, Medows Street, Fort.
"Jay Bharat."—Kishore Printing Press, Tamarind Lane, Fort.
"Kateryu Gep."—French Bridge, Chowpatty.
"Maha Gujarat."—Kishore Printery, Tamarind Lane, Fort.
"Raviwar."—209A, Sir Mangaldas Wadi, Lamington Road.
"Veni."—Veni Printery, 12th Lane, Khetwadi.
"Yugantar."—Dalal Street, Fort.

FORTNIGHTLY

"Chintan."—New Gujrat Printery, 104, Bazargate Street, Fort.
"Prabudh Jain."—45-47, Dhanji Street, Bombay 3.
"Rahbar."—(in Devanagari), Rupa Villa, Cumballa Hill.
"Rajkot."—Moj Majah Printing Press, Khetwadi, Girgaum.
"Sarvodaya."—R. P. Aryaprakash Printing Press, Kakadwadi, Bombay 4.

MONTHLY

"Bhagini Samaj Patrika."—Vandematram Printing Press, Frere Road, Fort.
"Gujarati Hindu Stri Mandal Bombay Patrika."—Amroli House, Vithalbhai Patel Road.
"Memon Mitra."—99, Jakeria Musjid Street.
"Shri Gogras."—149, Shroff Bazar.
"Shri Jeevdaya."—Humanitarian League Office, 149, Shroff Bazar.

GUJARATI AND HINDI

"Jain Prakash"—(Weekly), Suryakant Printing Press, 451, Kalbadevi Road.

HINDI AND ANGLO-HINDI

"DHARMAYUG."—(Weekly), Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"NAVBHARAT TIMES."—(Daily), Times Building, Dr. Dadabhoy Naoroji Road, Fort.

"Rahbar."—(Fortnightly), Ajmal Press, opp. J. J. Hospital.
"Shri Venkateshvar Samachar."—(Weekly), 7th Khambatta Lane, Khetwadi.
"Vishwamitra".—(Daily), Asha Printery, Noble Chambers, Parsi Bazar Street, Fort.

"PARAG."—(Monthly), Times Building, Dr. Dadabhoy Naoroji Road, Fort.

URDU, PERSIAN AND ARABIC

DAILY

"Aftab."—Ansari Fine Art Litho Press, opp. Arab Mosque, Bombay 8.
"Ajmal."—Princess Building, J. J. Hospital, Bhendi Bazar.
"Hilal-e-Nau."—Hilal Press, New Chinch Bunder Road.
"Hindustan."—Sultani Fine Art Litho Press, Bombay 3.
"Inquilab-e-Jadid." (Urdu)—245 Ripon Road, Bombay 8.
"Iqbal."—Bombay Press, Shustry Building, Bellasis Road.
"Ittehad."—(Urdu), Sultani Fine Art Litho Press, Bhendy Bazar, Bombay 3.
"Khilafat Daily."—Khilafat Press, Khilafat House, Love Lane, Bombay 27.

WEEKLY

"Musavvir."—Khilafat Press, Love Lane, Mazagaon.
"Rahbar."—(Fortnightly), Cumballa Hill.

MONTHLY

"Tamseel"—(Anglo-Urdu), 20, Jivaji Mansion, Vincent Road, Dadar.
"Tanwir."—Ajmal Printing Press, opp. J. J. Hospital.

KANNADA

WEEKLY

"Khalsa."—(Gurumukhi Weekly), 302, Kalbadevi, Bombay 2.

SINDHI

"Hindustan."—(Daily), 13, Hamam Street, Fort, Bombay.
"Sansar Samachar."—(Daily), Sansar Samachar Printing Press, 208, Vincent Road, Dadar.

WEEKLY

"Hindvasi."—(Sindhi Weekly), 13, Hamam Street, Fort, Bombay 1.

BENGALI

DAILY

"ANANDA BAZAR PATRIKA."—(Bengali Daily from Calcutta), 6, Sooterkin Street, Calcutta 1. Phones: 232283-89. Bombay Office: United Bank of India Building, Sir Phirozshah Mehta Road, Bombay 1. Phone: 252188. Gram: "ANANDBAZAR."

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Indian Standard Metal Co., Ltd.—Chinchpokli Cross Lane, Bombay 27.

Jacks, William & Co., Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.
James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.
Jayant Metal Manufacturing Co.—152, Lohar Street, Bombay 2.
Kamani Engineering Corpn., Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Fort.

Kamani Metals & Alloys Ltd.—Kamani Chambers, Nicol Road, Ballard Estate.

KAMANI TUBES PRIVATE LTD.—Agra Road, Kurla, Bombay 70. Phone: 67984. Manufacturers of Non-ferrous Rods, Pipes & Tubes.

METAL DISTRIBUTORS PRIVATE LTD.—12-18, Vithalbhai Patel Road, Bombay 4. Importers, Exporters & Indentors of Metals, Virgin & Scraps. Phones: 77715 and 73390. Grams: "DHATUBANA." Head Office: 38, Strand Road, Calcutta 1. London Associates: Metal Distributors (U.K.) Ltd., Barrington House, 59/67, Gresham Street, London E.C. 2.

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METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones: 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead lining of Acid Resisting Containers.

MITRA, H. P.—Unique House, 4th Floor, Parsi Bazar Street, Bombay 1. Phone: 253109. Grams: "MITRAMET." Representing Bassett Smith & Co., Ltd., 15/18, Lime Street, London E.C. 3. Non-Ferrous Metals Scrap, Residue, Ores, Mineral-Minor Metals, Stainless Steel.

Montana Ltd.—Rahimtoola House, Homji Street, Fort.

MULCHAND SOORCHAND (ESTD. 1935).—Tambakanta, Pydhownie, Bombay 3. Phone: 73465. Grams: "MULSUR." Importers & Stockists of all kinds of Metals & Non-Ferrous Metals.

Non-Ferrous Metal Refinery.—24, Sitafalwadi, New Anjirwadi, Mount Road, Mazagaon, Bombay 10.

SHANTILAL HIRALAL & CO.—57/B, Khetwadi Main Road, Opp. Islampura Lane, Bombay 4. Grams: "LESS PROFIT." Dealers in all Kinds of Non-Ferrous Metal, Metal Scraps, Brass Rods, Tubes & Pipes in all sizes and 'K' Brand Brass Sheets.

STANDARD METAL WORKS PRIVATE LTD.—17, Tardeo Bridge (Low Level) Bombay 7. Phone: 75108. Grams: "BRASSLEAD." Manufacturers of Non-Ferrous Metal Goods and Specialists in Lead Sheets, Lead Pipes, Lead Wool, Lead Strips Washer, Tape, Brass & Copper Wires, Brass Chains (Toda), etc. Lead Lining & Lead Bonding Job Undertaken.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.

NON-FERROUS METALWARE MANUFACTURERS

Bombay Brass & Metal Works.—Panjrapole 2nd Street, Bombay 4.

DEVIDAYAL METAL INDUSTRIES—Gupta Mills Estate, Reay Road, Bombay 10. Phone: 70001 (5 lines). Grams: "GINGER." Manufacturers of Aluminium, Copper & Brass Sheets, Sheathings, Strips, Circles, etc.

Eastern Aluminium Works.—60, Bapu Khote Cross Lane, Kika Street, Bombay 3.

G. K. Kansara.—Kansara Chawl, Bombay 2.

Gupta Metal Industries Ltd.—Gupta Mills Estate, Reay Road, Darukhana, Bombay 10.

Kamani Engineering Corporation Ltd.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1.

Kandivli Metal Works, C/o Messrs. Natwarlal & Co.—Dhobi Wadi, Thakurdwar, Bombay 2.

LALUBHAI AMINCHAND PRIVATE LTD.—Proprietors, "Dun Aluminium Factory," 225/27, Tardeo Road, Bombay 7. Manufacturers of "CYCLE" Brand Aluminiumwares & "QUEEN" Brand Brasswares & Other non-ferrous Metalware. Phone Nos. 41618 and 73220. Grams: "CYCLEBRAND."

Oriental Metal Pressing Works Private Ltd.—131, Worli, Bombay 18.

PEARL METAL WORKS.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone: 73880. Grams: "PEARLWORKS." Manufacturers of "PEARL" Brand Brassware.

Pitamberdas Lallubhai & Co.—86, Kansara Chawl, Kalbadevi Road, Bombay 2.

Standard Metal Works Ltd.—17, Falkland Road, Low Level, Bombay 7.

TARKAR, B. A.—50, Kansara Chawl, Kalbadevi Road, Bombay 2. (Prop.: A. B. Tarkar Metal Factory & Tarkar Products.) Phone: 73698 (Off.); 39035 (Factory). Manufacturers of Copper & Brassware Non-Ferrous & Stainless Steelwares.

Vajeram Devchand & Bros.—21-22, Chirabazar, Dukerwadi, Bombay.

NOVELTIES

Akbarally Ebrahimji Pharmacy & Department Store.—45/47, Veer Nariman Road, Fort, Bombay.

Aurora Toys and Novelties.—"Parimal", Keluskar Road, South, Shivaji Park, Dadar, Bombay 28.

Ebrahim Allibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 3. Phone: 33463. Importers and Exporters.

Excel Process Works.—Manufacturers of Advertising Gift Items, Excel House, Ghodbunder Road, Irla, Vile-Parle, Bombay 24.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

Noble Jewellery Mart.—Capitol Cinema Bldg., Bori Bunder, Bombay 1.

Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.

OFFICE EQUIPMENT

APEX ENTERPRISES.—17/5th Floor, Mohatta Market, Palton Road, Bombay 1. Grams: "APEXRISES." Manufacturers of "EWAAT" Duplicating Machines, Stencil Type, Post Card Size, Foolscap Size, Rotary Automatic Feeding and Automatic inking.

Ashok Typewriters.—40, Cowasji Patel Street, Ground Floor, Savoy Chambers, Fort, Bombay.

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

BOMBAY SAFE MANUFACTURING CO.—307-9, Kalbadevi Road, Bombay 2. Phones: 22367 (Office & Showroom), 71589 (Factory). Manufacturers & Dealers of Steel Furniture, Hospital Equipment, etc.

BOMBAY TYPEWRITING INSTITUTION.—(Recognised by Government), Typewriting Taught, Typewriters & Duplicators Bought, Sold, Repaired & Hired. Type-copying & Duplicating Work Undertaken. Opp. The General Post Office, Bhatia Mitra Mandal, Fort Street, Fort, Post Box No. 936, Bombay 1. Phone: 26-2484.

Express Corporation.—Co-operative Insurance Building, Sir Phirozshah Mehta Road, Fort.

General Equipment Merchants, Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.

Gestetner Duplicators Ltd.—Construction House, Ballard Estate, Bombay. Phone: 21041.

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.

GOVIN'S SAFE MANUFACTURING CO.—266-68, Kalbadevi Road, Bombay 2. Phone: 34669; Grams: "GOVINSAFE." Manufacturers of Steel Cabinets, Safes, Steel Furniture & Padlocks.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Khira Bhavan, Sandhurst Bridge, Bombay 7. Phone: 27636 & 27358. Grams: "SWAKALA."

James Manufacturing Co.—407, Kalbadevi Road, Bombay 2. Phone: 22874.

KHIRA STEEL WORKS PRIVATE LTD.—Executive Office & Factory: Ghodbunder Road, Santa Cruz, Bombay 54. Grams: "STEELCASE." Phones: 88002 & 89569. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phones: 27636 and 27358. Showroom: Fulchand Niwas, Chowpatty Sea Face, Bombay 7 and also at Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA". Phone: 27108.

KILBURN & CO., LTD.—Gresham Assurance House, Phirozshah Mehta Road, Bombay. Phone: 251908. Grams: "TASCONIUM."

KORES (INDIA) LIMITED.—Plot No. 10, off Haines Road, Worli, Bombay 18. Phone: 73454 (Three lines). Grams: "KORESCARBO."

Kulkarni Bros.—388-94, Sheikh Memon Street, Bombay 2.

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Building, Home Street, Fort, Bombay. Phone: 268081. Grams: "LATHAMS."

National Cash Register Co.—Steelcrete House, Backbay Reclamation, Bombay 1.

National Steel Equipment Co.—Naigaum Road (Near Spring Mills), Dadar, Bombay 14.

OFFICE EQUIPMENT CO. OF INDIA.—Bombay Mutual Building, 3rd Floor, Sir Phirozshah Mehta Road, P.O. Box No. 712, Bombay 1. Phone: 263424. Grams: "BROWNMAN." Manufacturers of Loose-Leaf Books, Filing System & Steel Equipment.

Prince, H. I. & Son.—9, Lily Court, Churchgate Reclamation, Bombay. Cable: "BRUNSVIGA." Phone: 37441.

REMINGTON RAND OF INDIA LIMITED.—Manufacturers of Remington Rand Business Equipment. Thackersey House, Graham Road, Ballard Estate, Bombay. Phones: 265591/92/93. Grams: "REMINGTONS."

RONEO LIMITED.—39, Bastion Road, Bombay 1. Phone: 262140. Grams: "RONEOINDIA." Manufacturers of Steel Equipment, Visible Records. "Neopost." Postal & Insurance Franking Machines. Sole Dealers in India for Allwyn Steel Equipment & Furniture.

SOCIAL STATIONERY MART.—Victoria Building, 27/H, Parsi Bazar Street, Fort, Bombay 1. Phone: 251466. Specialists in "Social" Files, Typewriters & Pencil Carbon Papers, Account Books & Office Requisites.

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Steel Age Industries Private Ltd.—Opp. Post Office, Mazagaon, Bombay 10.
Steelmade, Dr. Annie Besant Road, Worli, Bombay 18.
Universal Typewriter Co.—31, Nawab Bldg., 327, Hornby Road, Bombay 1. Phone : 251949.

OIL AND LEATHER CLOTH MANUFACTURERS AND DEALERS

Dharamshi Ramji.—241, Masjid Bunder Road, Bombay 3.
Hariram Bhawanji Co.—156, Masjid Bunder Road, Bombay 3.
Hindustan Plastic Co.—95, Abdul Rehman Street, Bombay 3.
Jivanlal & Company (Estd. 1937).—464, Sardar Valabhbhai Patel Road, Bombay 4.
Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Leather Cloth Processors & Printers.—Moghul Lane, Matunga, Bombay 16.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtoola Road, Bombay 3. Phone : 71262. Grams : "MAMAJISON." Importers & Exporters. P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods and all kinds of Felt.

Menty, S. M., & Co.—13, Horniman Circle, Fort, Bombay 1.
Mitter & Co.—Mapla Building, 187-A, Abdul Rehman Street, Bombay 3.

NATIONAL LEATHER CLOTH MANUFACTURING CO.—Manufacturers of "Eaglebrand" P.V.C. Leather Cloth, Waterproof Cloth and Bookcloth. 480, Sandhurst Road, Bombay 4. Phone : 71097. Grams : "LEATHERETE."

Regal Trading Co. (Bombay).—Rajabahadur Bansilal Mansion, 11, Bruce Street, Fort, Bombay 1. Phone: 254383, Grams: "SUSOBHIT." Chamois Leather, Wires, Cables, Insulating Materials, Conduit pipes, Flexible pipes.
Western India Manufacturers' Agency Private Ltd.—190, R. K. Building, Khetwadi Main Road, Bombay 4.

OIL BURNERS

Heatly & Gresham Ltd.—9, Forbes Street, Bombay 1.
Jacks, William & Co., Ltd.—Hamilton House, Ballard Estate, Bombay 1.

OIL ENGINES AND SPARES

Acme Manufacturing Co., Ltd., The.—Construction House, Ballard Estate, Bombay.
Associated Machine & Tool Co.—130, Medows Street, Fort.

B. KUMAR METAL WORKS.—Sitafalwadi, Mount Road, Mazagaon, Bombay 10. Phone : 40384. Grams : "BEKUMAR." Manufacturers of Oil Engines Crank Shafts, Connecting Rods and other spares.

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone : 255374. Grams : "GODGRACE."

Bharat Industrial Co.—77-79, Nagdevi Cross Lane, Bombay 3.
Brady, W. H., & Co., Ltd.—Churchgate Street, Fort.

CAPRI ENGINEERING CO.—Examiner Press Building, 111, Medows Street, Bombay 1. Phone: 251925. Grams: "CAPRIENG."

Chhaya Trading Co.—Opp. Share Bazar Building, Hamam Street, Fort.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort, Bombay.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

Eastern Electric and Refrigeration Co.—14, Hamam Street, Fort, Bombay.
Engineer, Eruch D., & Co.—Crossby House, Apollo Street, Fort, Bombay.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Phone : 252940. Grams : "ESSENCE." Importers, Exporters, Commission Agents and Manufacturers' Representatives.

General Commercial and Industrial Co.—Vishram Bhuvan, 1st Floor, 41, Kolbhat Street, Bombay 2.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Gujarat Industrial Corporation.—22, Alli Chambers, Tamarind Lane, Fort, Bombay 1.
Hassambhoy Jetha.—Opp. Byculla Goods Depots, Parel Road, Bombay 27.
India Engineering Works.—Opp. Share Bazar Building, Hamam Street, Fort.
Jacks, William & Co.—Hamilton House, Graham Road, Ballard Estate, Fort.

JAGAT ENGINEERING CO.—11, Botawala Building, Horniman Circle, Bombay 1. Phones: 252601 and 254790. Grams: "JAGATENDU." For Reduction Gears, Acid Resisting Pumps, Engines, Motors, Chairs, Factory Clocks, Chemical Engineering Equipment, etc.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay.
Khimandas Jagumal & Sons (Estd. 1910), Sind.—12, Hornby View Building, Gunbow Street, Fort.
Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.
Parry & Co., Ltd.—United India Building, Sir P. M. Road, Fort.
Power Machines Corporation.—31, Forbes Street, Fort.
Regal Trading Co. (Bombay).—Rajabahadur Bansilal Mansion, 11, Bruce Street, Fort, Bombay 1.
Small-Diesels Ltd.—36, Western India House, Sir Phirozshah Mehta Road, Fort.

TALWALKER BROTHERS PRIVATE LTD., W. R.—Lentin Chambers, Dalal Street, Fort, Bombay. Phones: 253367 & 254710. Grams : "PUMPENAMEL."

VINOD TRADING CO.—11, Bruce Street, Fort. Phone : 253767. Grams : "SPAREVINOD." Authorised Distributors for "HALLETT" Engines and Spares.

Voltas Limited.—19, Graham Road, Ballard Estate, Bombay 1.

OIL EXPELLERS

SWASTIK ENGINEERING WORKS.—191, Panjrapole Road, Bombay 4. Phone : 34040. Grams : "EXPELLER." Manufacturers of "Swastik" Baby Expellers, Boilers and Fitters and spare Parts for all Oil Expellers.

OIL MILLS (COMPANIES), IMPORTERS & EXPORTERS

AHMED OOMERBHOY OIL MILLS.—Two Tanks, Bombay 8. P.O. Box No. 4511. Oil Millers, Exporters & Importers. Manufacturers of Vegetable Products, Refined Oils and all kinds of Edible & Non-edible Raw Oils, Solvent extracted and expeller variety oil cakes, etc. Phone Nos. 41977 and 73325. Grams : "AHMEDMILLS."

BHAVNAGAR OIL & CHEMICAL INDUSTRIES PRIVATE LTD.—Sales Office : Bombay Mutual Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Grams : "BOCIL." Phone: 26-1359, Bombay and 223, Bhavnagar. H.O. & Factory: Mahatma Gandhi Road, Bhavnagar. Managing Director: D. M. Merchant.

BLUNDELL EOMITE PAINTS PRIVATE LTD.—Rustom Building, Veer Nariman Road, P.O. Box 663, Bombay. Phones: 251246-8, 253986 (4 lines). Grams : "BLUNTRIPP."

Bombay Oil Industries Pvt. Ltd.—285/287, Narshi Natha Street, Bombay 9.

DAMJI MANJI. (Estd. 1940).—208, Sandhurst Road, Bombay 4. Phones : 71424 & 41978 (Office); 61602 (Residence); Grams : "OILTRADER." Dealers in Groundnut Oil, Coconut Oil, Castor Oil, Linseed Oil, Mustard Oil, Sesame Oil, etc. Importers of Copra, Coconut Oil & Palm Oil. Exporters of Oils, Oil Cakes.

Gore, D. G.—31, Mangaldas Road.
Hindustan Oil Mills.—Nawab Mansion, 22, Gunbow Street, Fort. Grams. "Paultext." Head Office & Works at Ghat Road, Nagpur.

INDU OIL & SOAP CO.—Office : 335, Katha Bazar, Bombay 9. Phone : 20476. Mills : 5-A, Hansraj Lane, Byculla Bridge, Bombay 27. Phones : 40687; Residence : 62091 & 63534. Grams : "COCOINDU." Manufacturers of guaranteed filtered pure coconut oil Kishti and Motor car Brands. Exporters of Copra Cake-Expellers and H.P.S. Ground Nuts.

Jamnadas Laljee Oil Mills.—Champsi Bhimji Wadi, Old Anjirwadi, Mazagon.

JAYANT OIL MILLS.—13, Sitafalwadi, Mazagaon, Bombay 10. Phones : 74283 & 76425. Grams : "SWEETOIL." Exporters, Importers, Seeds & Oil Merchants. Specialised in Castor Oil & allied products. Jamnagar Mills : Grain Market, Jamnagar. Phone : 145 (Office); 54 (Res.).

KAMANI OIL MILLS.—365-67, Narsi Natha Street, Katha Bazar, Bombay 9. Office Phone Nos. 30559, 23116; Mills: 72123 and 76587. Res.: 60966, 63401, 62677, 65449. Grams: "COCOPURE." Mills : Near Gas Co., Lal Baug, Bombay 12. Guaranteed Pure Coconut Oil & Copra Cake Manufacturers. Branch : 735, Shukerwar Peth, Poona 2. Phone : 3891.

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Lokmanya Oil Mills.—Palghar, Dist. Thana.
Oomedchand Kashiram & Co.—Mudi Bazar, Bombay 3.
Sonal Rangnow & Co.—41, Hamam Street, Fort, Bombay.
Swastik Oil Mills, Ltd.—Salt Pan Road, Wadala, Bombay 31.
Tata Oil Mills, Co., Ltd.—Bombay House, 24, Bruce Street, Fort, Bombay.
Tide Water Oil Co. (India) Ltd.—Nicol Road, Ballard Estate, Bombay.
Wharton, H. W., & Co., Ltd.—339, Hornby Road, Fort.

OIL SEALS

AGRA ENGINEERING CO.—40, Bank Street, Bombay 1. Phone : Res. : 88906. Grams : "RAJSPARES." Manufacturers of Fuel Injection Equipment and Diesel Engine spares.

Amar Daximi & Sons.—16, Bruce Street, Fort, Bombay 1.

B. CHOUDHURY & CO.—Indian Globe Chambers, Fort Street, Bombay 1. Phone : 263479. Grams: "BISUKHI." Sole Agents for Carl Frendenberg, West Germany. cFw Simmering Oil Seals.

Kumar Commercial Co.—Nadirshaw Sukhia St., off Cawasji Patel St., Bombay 1.

VINOD TRADING CO.—11, Bruce Street, Fort. Phone : 253767. Grams : "SPAREVINOD."

OILS, OIL CAKES & OILSEEDS

DANJI MANJI (Estd. 1940).—208, Sandhurst Road, Bombay 4. Phone Nos. Office : 71424 & 41978. Res. : 61602. Grams : "OILTRADERS." Dealers in Groundnut Oil, Coconut Oil, Castor Oil, Linseed Oil, Mustard Oil, Sesame Oil, etc. Importers of Copra, Coconut Oil, Palm Oil; Exporters of Oils, Oil Cakes.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone : 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Kotak & Co.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Mriam & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.
Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort.
Uttamlal, V., & Co.—P.O. Box No. 1531, Bombay.

OIL MILLS MACHINERY MANUFACTURERS & DEALERS

BHARAT ELECTRIC & ENGINEERING CORPORATION.—Free Press Building, Ground Floor, 21, Dalal Street, Fort, Bombay. Phone : 25537. Grams : "GODGRACE."

BHARAT INDUSTRIAL CORPORATION.—Manufacturers of Oil Expellers—Spares thereof, Allied Machinery & Solvent Extraction Plant under Foreign Technical Collaboration. Petit Compound, Grant Road, Bombay 7. Phone : 41361. Grams : "EXPELPART."

B. KUMAR METAL WORKS.—Sitafalwadi, Mount Road, Mazagaon, Bombay 10. Phone : 40384. Grams : "BEKUMAR." Engineers, Manufacturers and Contractors; Specialists in Oil Mill Machinery & Spares.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Shreenivas House, Waudby Road, Bombay. Phone : 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi, Bangalore and Secunderabad.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams : "ESSENCE." Phone : 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

Hindustan Engineering Co. (Machinery Dept.).—25, Ropewalk Street, Rampart Row, Fort.

JAGAT ENGINEERING CO.—11, Botawala Building, Horniman Circle, Bombay 1. Phones : 252601 and 254790. Grams : "JAGATENDU." For Reduction Gears, Acid Resisting Pumps, Engines, Motors, Chairs, Factory Clocks, Chemical Engineering Equipment, etc.

Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.
Laxmi Engineering Works.—40, Khetwadi 10th Lane, Bombay 4.
Marshall Sons & Co. (India) Ltd.—Ballard Road, Bombay 1.

NUMEX ENGINEERS.—P.O. Box No. 820, Bombay 1. Phone : 253330. Grams : "NUOMBLESS." Manufacturers and Exporters of Oil Expellers, Filter presses and other allied Oil Mill Machinery and spare parts of all kinds of expellers.

Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.
Paramount Industrial Stores.—15, Ropewalk Street, Bombay 1.

SWASTIK ENGINEERING WORKS.—191, Panjrapole Road, Bombay 4. Phone : 34040. Grams : "EXPELLER." Manufacturers of Swastik Baby Expellers, Boilers & Filters and spare parts for all oil expellers.

Voltas Limited, Ballard Estate, Bombay 1.
Western India Engineering Co.—Signal Hill Avenue, Sewree, Bombay 15.

OPTICAL GOODS MFRS. & DEALERS

Artbangle Private Ltd.—204, Dr. Dadabhai Naoroji Road, Bombay 1.

MARVIN & CO. PRIVATE LTD.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone : 40448. Grams : "VINMAR." Factory : Pipe Road, Kurla. Manufacturers of Optical Hinges —Side Wires & Metal Frames.

MONTEX CORPORATION.—Yusuf Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Manufacturers of Spectacle Frames, Sun-Glasses & Lenses.

OPTICIANS

Ballwalla & Homi Ltd.—365, Hornby Road, Fort.
Bharat Optical Company.—Kalbadevi Road, 366/68, Ibrahim Mansion, Bombay 2.
Darbar Singh & Sons.—166, Hornby Road, Fort.
Ghaswala, Dr. K. S., L.M.&S.—Dr. Ghaswala's Eye Hospital, "Edena," 105, Queen's Road.
Hatim Brothers.—302, Abdul Rehman Street.
Helms-Optics.—Qualified German Sight Testing Opticians, 8, Esplanade Mansions, Fuller Road, Fort, Bombay 1.
Homi & Co.—Dhootpapeshwar Prasad, Girgaum Road, Bombay 4.
Kataria Optical Factory.—104, Clarke Road, Jacob Circle, Bombay 11.
Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.
Lund & Blockley.—Sassoon Institute Building, 150, Mahatma Gandhi Road, Fort.
Mansukhlal & Co.—356, Kalbadevi Road.
Patson Ocularium.—2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay 1.
Patel, Dr. V. K., F.S.C.O., D.O., M.O. (Jena, Germany).—2, Regal Cinema Building, Apollo Pier Road, Fort, Bombay 1.

PHIROZE M. DASTOOR & CO.—Next to Eastern Bank Ltd. opp. Flora Fountain, 379, Hornby Road, Fort.

P. S. SHIRODKAR & SONS.—Dealers in Optical goods, Ranade Road, Dadar.

R. C. GHOSE & SONS.—329-B, Kalbadevi Road, Bombay 2. Phone : 30530. H.O. : Calcutta. Sole Agents for Bausch and Lomb's Ophthalmic Products (U.S.A.).

REMEDIOS OPTICIANS.—Oculists and Opticians. 255, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort, Bombay. Phone : 263336.

Takandas H. Kataria.—Showroom : 323-325, Abdul Rehman Street, Bombay 3.

OVENS (HOT AIR)

KILBURN & CO. LTD.—Gresham Assurance House, Pherozshah Mehta Road, Bombay. Phone : 251908. Grams : "TASCONIUM."

OVERHEAD LINE MATERIALS

EVERGREEN CORPORATION.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 2. Grams : "GREENLEAVE." Electrical Poles, Stay Rods, Wires, High and Low Tension Insulators, Joints.

OXYGEN AND GAS FACTORIES

Bombay Gas Co., Ltd.—Empire House, 214, Dr. Dadabhoy Naoroji Road (Hornby Road).
Chapman & Co., K.—Opp. Marwari Vidyalaya, Sandhurst Road.
Indian Oxygen Ltd., The.—Ghatkopar (Bombay-Agra Road), Bombay. Phone : 67941 (4 lines). Grams : "INDOXCO".
Lightfoot Ice & Cold Storage Co.—Hansraj Lane, Byculla Bridge.
Sirdar Carbolic Gas Co., Ltd.—Connaught Road, Mazagaon.

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PACKING

AFZAL PAPER BOX FACTORY.—43, Foras Road, Bombay 8. Phone : 40046. Manufacturers of High Class Paper Boxes, Carton Punching and Cable Reels speciality.

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.

CLARIDGE, G., & CO., LTD.—Frere Road, Fort, Bombay 1. Phones : 263201 & 263202. Grams : "EGDIRALC." Security Printers, Photo-Offset, Book-Binders, Carton & Packaging Experts.

JAYANT PAPER BOX FACTORY.—Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone : 253145. Grams : "FIBREBOX." Manufacturers of Single face Corrugated Paper Rolls, Double face Corrugated Boards and Containers, Wrappers, Liners, Cartons, round and fancy cosmetic boxes and packing requisites. Factory: Jayant House, Bail Bazar, Agra Road, Kurla. Phone : 67424.

Jaydip & Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

KADRI PAPER BOX FACTORY.—Noor Manzil, Mohamedali Road, Bombay 3. Phone : 27656. Plain and Fancy boxes of every size & description with Printing if required and Cardboard Tubes for Calendars.

LESLIE, E. & CO.—Botawalla Building, 7-10, Horniman Circle, Fort, Bombay. Professional Packers of Household effects, movings, Transporting, warehousing, insurance & custom House Licensed Agents. Phone : 255540. Grams : "RITTA."

MANIAR BROS.—6, Duncan Road Cross Lane, Bombay 8. Phone : 41718. Grams : "RAOOF". Suppliers of paper Shavings (Trimmings) used in packing Wooden or Cardboard Boxes & Cases.

Mansukhlal Jechandbhai & Co.—181/183, Samuel Street (Khoja Galli), Bombay 9.

New Jack Printing Works.—Seksaria Mills Compound, Globe Mills Passage, off DeLisle Road, Bombay 13. Phones : 60042-43. Grams : "NEWJAKPRES."

New Pack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.

Packers (India) Co.—Packing Consultants and Packing Material Suppliers. Manufacturers' Representatives. 34-38, Hamam Street, Fort. Phone : 252019. Tel. Address : "Packwell."

Reliance Trading Co.—25-47, Lohar Street, Bombay 2.

RYLAND PAPER BOX MANUFACTURING CO.—Box Manufacturers and Carton Boxes Manufacturers. Timberware Compounds, near Paradise Talkies, Lady Jamshedji Road, Mahim, Bombay 16. Phone : 26620.

Standard Paper Box Manufacturing Co.—51, Mangaldas Road, Lohar Street, Bombay 2.

Swastik Paper Bag Co.—168/80, Bhimpura, Chinch Bunder Road, Bombay 9.

PACKING CASES

ABBA GANI & CO.—1-2, Victoria Road, Mazagon, Bombay 10. Phone : 40785. Grams : "TEAKTIMBER." Merchants and Contractors, Largest Stockists in Bombay of Burmah and Indian Teak, Jungle and Deal Wood, Bamboos & Scaffolding. Materials on Hire and for Sale ; Owners of Mustafa Saw Mills.

ANAND TIMBER TRADERS.—170, Reay Road, Bombay 10. Phone : Office : 42203. Res. : 60144.

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.

Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.

Godse & Company.—Sitaram Bldg., Palton Road, Bombay 1.

GULAMALLI SUJAUDIN & CO.—Khokawala, 18 26, Sarang Street, Bombay 3. Phone : 28782. Leading Manufacturers of Wooden Boxes.

Indian Commercial Agency.—Regd. Office : Nasir Palace, opp. Dockyard Railway Station, Mazagaon, Bombay 10.

Northern India Timber Corp.—63, Reay Road Bombay 10.

Packers (India) Co.—34-38, Hamam Street, Fort, Bombay.

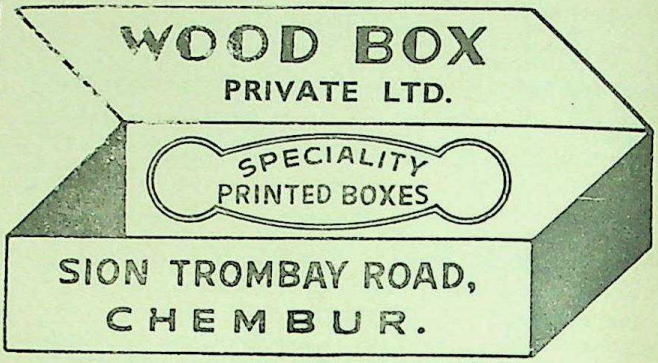
Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Rd., Fort, Bombay.

Podar Saw Mills.—61, Reay Road, Bombay 10.

Processed Timber Products.—104, Ghodbunder Road, Chunabhatti, Santa Cruz (West), Bombay 23.

Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

TRAVANCORE TRADING CORPORATION, THE.—213, Dadar Road, Bombay 14. Phone : 63442.



BOMBAY-71

Grams: "WOODPRINT", Chembur Phone : 67284

PACKINGS AND JOINTINGS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone : 25-2952/25-4103. Grams : "PILOTACE."

Asbestos Packing Mfg. Co.—15/A, Bruce Street, Bombay 1.

Desai Tube & Hardware Mart.—41, Nagdevi Cross Lane, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone : 39545. Grams : "REDJOINT."

R. Mohanlal & Co.—38, Bibijan Street, Bombay 3.

SHALEBHOY TYEBJEE & SONS (Estd. 1840).—12, Bruce Street, Fort, Bombay 1. Phones : 252357 and 252358. Grams : "ROTATOR."

THAKKAR TRADING CO.—57, Sardar V. P. Road, Dongri, Bombay 9. Grams : "TITICO." Phone : 74200.

PAINTING CONTRACTORS

BAKEWELL (INDIA) COMPANY.—"Bakewell House," 384, Cadell Road, Bombay 28. One of the leading painting contractors in India. Phone : 263484. Grams : "BAKEWELL."

COLOUR SCHEME.—Painters & Decorators, 18, Commercial Chambers, Masjid Bunder Road, Bombay 3. Specialists in Oil Painting, Distempering, Whitewashing, Spray Painting, etc. Phone : 39468.

COOPER & CO.—53, Abdul Rehman Street, Bombay 3. Phone : 20708. Grams : "COPPEROIL." Manufacturers of Paints, Enamels, Varnishes, Distempers, Emulsion Paints & Industrial Finishes.

Cooverji Hormusji & Sons, N.,—298, Wadia Bldg., Chira Bazar, Girgaum Road, Bombay 2. Phone : 39919.

DAVAR, N. CO.—Syndicate Bank Building, Sir Phirozshah Mehta Road, Bombay. Phone : 26-1880. Interior Decorators and Painting Contractors. Show Room : Hampton Court, Wodehouse Road, Colaba, Bombay 5.

Fleming John & Co., Private Ltd.—P.B. No. 76, Bombay 1. Phone : 261153.

KAPADIA BROTHERS.—81, Abdul Rehman Street, Bombay 3. Painting Contractors of Buildings, Mills, Factories, Cinemas, Flats, etc. Estimates free on request. Dealers in : Paints Enamels, Distempers, Plastic Emulsion Paints, etc. Chief Stockists of "NOBLE PAINTS." Phone : 29108. Grams : "DECORATORS."

MACFARLANE & CO., LTD.—34, Lamington Road (North), Bombay 8.

MANCHERSHA, S. & CO.—Senior Certified Painting & Decorating Contractors of Messrs. JENSON & NICHOLSON (India) Ltd., Navsari Chambers, Outram Road, Fort, Bombay 1. Phone : 26-2373.

MARKER, S. D., & CO., PRIVATE LTD. (ESTD. 1901).—381, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone : 253236. Grams : "MARKERCOY". Interior Decorators & Painting Contractors.

PALLONJI & CO., PRIVATE LTD., M.—87, Abdul Rehman Street, Bombay 3. Phone : 34150. Painting, Building & General Contractors for Painting of Palaces, Buildings, Flats, Factories, Mills, etc. etc. Dealers and Suppliers of Paint Materials.

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PRAVIN DECORATORS.—Quality Paintings Contractors, Colour Scheme Specialists for Buildings, Flats, Offices, Factories, Mills, etc. Inquiries Invited. Contact 81, C.P. Tank Road, Bombay 4. Phone : C/o 71873.

Properties & Estates Management Private Ltd.—11, Bank Street, Bombay 1.

S. More & Co., (Estd. 1929).—34/38, Hamam Street, Fort, Bombay 1. Phone : 252019. For quality painting of Flats, Bungalows, Factories. Mills, Hotels, Palaces. Also Decorators, Sign Makers, Displays, Shop Fronts, Architectural Models for last 25 years.

Vibgyor (India) Private Ltd.—143, Mahatma Gandhi Road, Fort, Bombay.

WAKEFIELD PAINTS PRIVATE LIMITED.—'Dhan-Nur', 15/16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams : "WAKEPAINT." Phone: 264061.

PAINT RAW MATERIALS

KANTILAL SANGHVI & CO.—Mherwan Building, Sir Phirozshah Mehta Road, Fort. Phones: 253041, 253628 and 255636. Grams : "EXPIM."

PAINT TESTING MACHINERY

Bakubhai Ambalal Private Ltd.—Wittet Road, Bombay 1.

PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1. (Phone : 251882). Also at: Calcutta, New Delhi and Madras.

PAINTS, ENAMELS AND VARNISHES

A. K. PORBANDARWALLA SONS.—Ruby Mansion, 19, Parsee Bazar Street, Bombay 1. Phone : 253829. Grams : "HOME-PAINT." Importers of Hardware and Oil Paints Merchants.

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3.

Abdeali Mohamedali Rangwala.—148 Nagdevi Street, Bombay 3.

Adamally Kikabhai Rangwalla.—309, Shaik Memon Street, Bombay 3.

Addisons Paints & Chemicals Ltd.—Huzur Gardens, Sembiam, Madras 11. Distributors for Bombay, Maharashtra and Saurashtra: Messrs. Amzel Ltd., Lotus House, Marine Lines, Bombay.

Advance Paints Ltd.—125, Medows Street, Fort.

Ahmed Moosa Motiwalla & Sons.—Tank Road, Parel.

Ahmed Oomerbhoy.—Two Tanks, Grant Road.

Akbarally Sharfally Zaveri.—25, Ebrahim Rahimtoola Road, Bombay 3.

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phone : 25-2952/25-4103. Grams : "PILOTACE."

Amritlal & Co., Ltd.—Sprott Road, Ballard Estate, Fort.

AMZEL PRIVATE LTD.—Nusser House, New Queen's Road, Bombay 4. Distributors for Greater Bombay for Spartan Paints manufactured by Addisons Paints & Chemicals Private Ltd., Madras.

ASIAN OIL & PAINT CO. (INDIA) PRIVATE LTD.—Das Chambers, Dalal Street, Fort, Bombay 1. Manufacturers of Quality Paints, Varnishes, Enamels, Brushes, Syn. Resins, etc., etc. Phones: 255671-2-3-4. Grams: "REDLEAD," Bombay.

BAKER BROTHERS.—31, C. P. Tank Road, Bombay 4. Phone: 72621. Grams: "BAKERCOLOR." Paints, Enamels, Varnishes, Plastic & Cellulose Lacquers & Fine Chemicals and their Thinners.

BAKER, M., & CO.—Dealers in Paints, Varnishes, Enamels, Lacquers, Brushes, Paint Spraying Equipment, etc. 35, Nagdevi Street, Bombay 3. Phone: 34212. Grams: "MULTITRADE."

BAKEWELL (INDIA) CO.—Bakewell House, 384, Cadell Road, Bombay 28. Manufacturers of Paints, Enamels, Varnishes and Double Boiled Linseed Oils. Industrial and Commercial Painting Contractors. Phone : 263484. Grams : "BAKEWELL."

Bassein Paint & Varnish Co.—Magazine Street, near Reay Road Station, Mazagaon.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

BHARAT COLOUR TRADING CO.—111, Kika Street, Bombay 4. Phone : 72688; For Quality Painting & Decorating inclusive of repairs of Buildings, Factories, Mills, Offices, Flats, Showrooms, Cinemas, Hotels, etc. at moderate estimates, Steel Cabinet Painting and Furniture polishing also carried out; Inquiries promptly attended; and wholesale suppliers in Bombay and outside in Turpentine, Paints, Limes and Minerals.

BLUNDELL EONITE PAINTS PRIVATE LTD.—Rustom Bldg., Veer Nariman Road, P.O. Box 663, Bombay. Phone : 251246-8, 253986 (4 lines). Grams : "BLUNTRIPP."

BOMBAY PAINTS & ALLIED PRODUCTS LTD.—248, Ripon Road, Bombay 8. Phone : 74069. Grams : "KANGAROO." Manufacturers of 'Kangaroo Brand' Paints and Varnishes, Distempers, Enamels and all kinds of Industrial paints and Hemple Marine Paints on License.

BRIGHT & CO. PRIVATE LTD.—18, Commercial Chambers, Masjid Bunder Road, Bombay 3. Phone : 39468. Factory: Saki-Vihar Road, Kurla, Bombay 3. Phone : 68025. Grams : "PAINTMAKER." Manufacturers of all kinds of Paints, Enamels, Distempers, Varnishes, Lithographic & Paper Varnishes, Linseed oils, etc.

BRITISH PAINTS (INDIA) LTD.—Steelcrete House, Dinsha Vachha Road, Bombay 1. Phone: 245137/9 ; Grams: "APEXIOR."

CHEMIDYE TRADING CO., LTD.—Kamer Bldg., Cawasji Patel Street, Fort, Bombay 1. Phone : 251034.

COOPER & CO.—53, Abdul Rehman Street, Bombay 3. Phone : 20708. Grams : "COOPEROIL". Manufacturers of Paints, Enamels, Varnishes, Distempers, Emulsion Paints & Industrial Finishes.

Corbon Dry Colour Works.—115, Nagdevi Street, Bombay 3.

Dadajee Dhackjee & Co., Ltd.—Shree Pant Bhuwan, Sandhurst Bridge.

D. Walker & Sons.—Prospect House, New Bhatwadi, Sandhurst Road, Bombay 4.

FINLAY, JAMES, & CO. LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Phone Nos. 251255-59. Post Box No. 73.

Fleming, John & Co., Private Ltd.—Sukhadwala Building, 21, Bastion Road, Fort.

Flintrock Products Ltd.—Belvedere Hill Road, Mazagaon. Phone: 40794. Grams : "CLAY".

Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay 1.

Goodlass Nerola Paints Private Ltd.—Forbes Building, Home Street, Fort, Bombay 1.

Goolamally Dawoodbhoy & Co.—23, Mangaldas Road, Princess Street, Bombay No. 2. Phone No. 30423.

Great Eastern Trading Co.—107, Cowasji Patel Street, Fort.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

Holmes & Co., Ltd.—Alice Buildings, Hornby Road, Fort.

Imperial Chemical Industries (India), Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

INDIA HARDWARE & CHEMICAL CO.—11, Bank Street, Fort, Bombay 1. Phone : 254158. Grams : "YARAZZAQ." Sole Agents for "SOLAR" Paints manufactured by the Solar Paint & Varnish Mfg. Co., Calcutta.

Indianite Insulation Co. of India.—139, Medows Street, Fort.

Ishverdas Jugmohandas & Co.—Mubarak Manzil, Apollo Street, Fort.

Jenson & Nicholson (India), Ltd.—Mackinnon Mackenzie Building, Ballard Estate, Bombay.

Kalapi Colour Trading Co.—42, Dadysheth Agiary Lane, near G.T. High School, Bombay 2.

Kanthawala, N., & Co.—77, Medows Street, Fort.

MACFARLANE & CO., LTD.—34, Lamington Road (North), Bombay 8.

MACHINERY PAINTS & CHEMICALS (INDIA) LTD.—221, Dadabhoy Naoroji Road, Bombay 1. Post Box No. 1406. Grams : "MACHPAINTS." Phone : 265151. Works : Mogra, Andheri. Manufacturers of Enamels, Paints, Varnishes, Lacquers, Distempers, Dry Colours, Insulating Materials and Waterproofing Compound, etc.

Mahomedbhoy Abdulhusein & Bros.—Opp. Ram Mandir, Nagdevi Street.

MARVIN & CO. PRIVATE LTD.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone : 40448. Grams : "VINMAR." Stockists of 'Duco', 'Dulux', Necol Paints & Thinners.

MERCURY PAINTS & VARNISHES PRIVATE LTD.—Cadell Road, Agar Bazar, Bombay 28. Phones : 63707 & 63898. Grams: "GUARANTEED," Bombay. Manufacturers of best quality Paints, Varnishes, Enamels, etc., etc., for industry and home "Mercury Brand."

Munshi & Co.—48-A, Abdul Rehman Street, Bombay 3.

Narotamdas & Co.—179-A, Abdul Rehman Street, Bombay 3.

National India Engineering Co., Ltd.—7-10, Elphinstone Circle, Fort.

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Nazarally Mulla Jivaji & Co.—116, Musjid Bunder Road.
Nazarally Samsoodin & Sons.—283, Sheikh Memon Street.
New Era Paint Works.—Opp. Byculla Station, Byculla.
New Mahaluxmi Oil Mills.—37, Frere Road, Bombay 9.

ALWAYS INSIST ON

Phone :
Office : 261153
Factory : 73123/4

NOBLE PAINTS
VARNISHES, ENAMELS & DISTEMPERS
NOBLE PAINT & VARNISH CO. PRIVATE LIMITED
Fergusson Road, Lower Parel, Bombay 13.
Chief Selling Agents :
JOHN FLEMING & CO. PRIVATE LTD.
21, Bastion Road, Fort, Bombay 1.

Pallonji, M., & Co.—87, Abdul Rehman Street.

PAULSON PAINT CELLULOSE WORKS
Phone : 67241
Grams : "EMBOSSED"
25, Union Park, Chembur, Bombay 71.
Manufacturers of :
"WATERLOCK" Cement, Waterproofing Compound, N. C. Lacquers, Enamels, Paints, Varnishes, Oxide Colours for Cement Tiles, "Flora" Synthetic and Stoving Enamels, Distempers, Industrial and Building Paints, etc.

Pioneer Magnesia Works, Ltd., The.—Mahatma Gandhi Road, Fort.

Premier Acid & Chemical Co.—12, Mirza Ally Street, Imamwada Road, near Bhendi Bazar.

RAIMUGIA & CO.—35, Parakh Street, Bombay 4. Phone : 71004. Grams : "SILKOFIN." Lacquers Paints, Thinners—Chemicals. Authorised Stockists for "SPARTAN" and other Products manufactured by Addisons Paints & Chemicals Private Ltd., Madras.

RAJKAMAL SUPPLYING STORES.—295, Abdul Rehman Street, Bombay 3. Grams : "RAJPAINT." Direct Importers and Stockists of Paints, Dry Colours, Brushes and Artist Materials.

Ratanji, H. J., & Co.—Shapur House, 114, Cawasji Patel Street, Fort,

Real Paint & Hardware Mart.—105, C. P. Tank Road, Bombay 4.

SALEHBHOY TYEBBHOY & CO. (Estd. 1865).—Tyebji Building, 93, Nagdevi Street, Bombay 3. Phone : 38555. Grams : "DIPCOWORKS." Manufacturers' Representatives "SPARTANS" Lacquers, Synthetic and High Grade Marine Enamels, Anti-fouling Paints, I.C.I. "DUCO" "DULUX" NECOL Supreme Paints. Grease Cups & "Fevicol" Adhesives.

SARASWATI MILL STORE CO.—56, C.P. Tank Road, Bombay 4. Phone : 72134. Grams : "SHINAGU."

SCARLET COLOUR & CHEMICAL WORKS PRIVATE LTD.—43, Tamarind Lane, Bombay. Phone : 254628. Grams : "SCORETOUSE." Direct Importers & Manufacturers of Nitro Celluose Paints, Synthetic Enamels, Thinners, Black Japan & Accessories.

SHALIMAR PAINT, COLOUR & VARNISH CO. PRIVATE LTD.—Agents : Turner, Morrison & Co. Private Ltd., 16, Bank Street, Fort, Bombay 1. Phone : 251321 (7 Lines).

Shaw Wallace & Co., Ltd.—3, Wittet Road, Ballard Estate.

Shivchand Amritlal & Co., Ltd., B.—Fort Chambers, Hamam Street, Fort.

STAR PAINT & OIL INDUSTRIES.—Crescent Chambers, Tamarind Lane, Bombay 1. Mfrs. of Industrial & Marine Paints & Synthetic Enamels. Specialists in "SILVO" Aluminium Paint : General purpose, Roof-top, High Temperature Heat Resisting upto 1000°F. & Metallic Paint upto 1800°F. & Rubberex Rubber Paint (For Chemical Resisting). Grams : "STARPAINT." Phone No. 253493.

Tyebally Dawoodbhai Rangwalla.—29, Kika Street, Bombay 4.

Turner, Morrison & Co., Ltd.—16, Bank Street.

UNITED COLOUR COMPANY.—(Mfg. Divn. Ramson Paint Mfg. Corp.). Manufacturers of 'RAMSON' Nitrocellulose Lacquers, Synthetic Enamels, Industrial Finishes and Auxiliaries. Kastur Nivas, 26/A, French Road, Bombay 7. Phone : 73862. Grams : 'STEPONIT'. Factory at Thana. Phone : 64/1122, Thana.

WAKEFIELD PAINTS PRIVATE LIMITED.—'Dhan-Nur', 15/16, Sir Phirozshah Mehta Road, Fort, Bombay 1 (India). Grams : "WAKEPAINT". Phone : 264061. Manufacturers of "Synolac" Synthetic Enamels, Plastic Emulsion Paints and Industrial Finishes.

Wallace, P. R., & Sons Ltd.—Elphinstone Building, 10, Churchgate Street, Fort.

WILLIAM JACKS & CO., LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay. Manufacturers of quality Paints, Varnishes, Enamels, Distempers, Cellulose Lacquers and industrial finishes.

ZENITH VARNISH WORKS (Estd. 1927).—Zenith House, Dhobi Street, (Near Zakaria Masjid), Bombay 3. Phone : 30059; Grams : "ZENEKCIDE." Manufacturers of Disinfectants, French Polish, Paint Oil, Double Boiled Linseed Oil, Turpentine, Varnish, Acid & Insecticides & Paints, etc.

PAPER & BOARD MILL MACHINERY MFRS. & SUPPLIERS

GUNVANTRAY & COMPANY.—Crescent Chambers, 1st Floor, Tamarind Lane, Bombay 1. Phone : 254684. Grams : "GUNARAYCO."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

WILLIAMS G. & CO., PRIVATE LTD.—Steelcrete House, 5th Floor, Sir Dinshaw Vachha Road, Backbay Reclamation, Bombay 1. Phone : 245952. Grams : "BLANWIRE".

PAPER BAGS MFRS.

NATIONAL PAPER BAG CO.—168, Bhimpura, Chinch Bunder, Bombay 9. Phone : 73239. Grams : "PAPERBAG." Manufacturers of Paper Bags, Plastic Bags, Carrier Bags, etc. with or without Printing.

PAPER BOX MFRS.

AFZAL PAPER BOX FACTORY.—43, Foras Road, Bombay 8. Phone : 40046. Manufacturers of High Class Paper Boxes, Carton Punching and Cable Reels speciality.

Hindustan Paper Box Mfg. Co.—275-79, Bellasis Road, Bombay 8.

KADRI PAPER BOX FACTORY.—Noor Manzil, Mohamedally Road, Bombay 3. Phone : 27656. Plain and Fancy Boxes of every Size and description with printing if required and Cardboard Tubes for Calendars.

PAPER CONVERTORS

BAKER & CO. PRIVATE LTD.—Oomrigar Building, 1st Floor, Opp. Crawford Market, Bombay 3. Phone : 30544, Grams : "BAKERCO." Factory at 66, Off Haines Road, Worli, Bombay 8. Manufacturers of Paper Plates, Ice Cream and Drinking Cups, Gift Boxes, Fancy Wrapping Paper, Paper doyles. Dealers in Bakery & Confectionery Machinery.

IDEAL WRAPPERS PRIVATE LTD.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay. Phones : Office : 261061/2; Factory : 67209. Grams : "LAMINATED." Manufacturers of "Himalaya" Drinking Straws.

National Cardware Manufacturing Co.—Victoria Mill Compound, Gamdevi, Bombay 7. Phone : 75552.

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PAPER MERCHANTS

Abdullabhai Fidaalli & Co.—18, Princess Street, Bombay 3.

Advani, J. B., & Co., Ltd.—Advani Chambers, Top Floor, Sir Phirozshah Mehta Road, Fort.

Ajit Paper Mart.—65/67, Sutar Chawl, Bombay 2.

Akbarally Abdulhusain & Co.—19, Sutar Chawl, Bombay 2.

Ambalal Dharamchand & Co.—1, Esaji Street, Vadgadi, Bombay 3. Phone No. 32541.

Amritlal, K., & Co.—27-29, Mirza Street, Parsi Galli.

Asiatic Paper Company.—56, Sutar Chawl, Bombay 2.

ASOK BROTHERS PRIVATE LTD.—104, Apollo Street, Fort. Phone: 254329. Grams: "ASOKBROS". Importers of all sorts of Paper and Boards.

Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay 1.

Bansi Dhar Kapoor & Sons.—73-75, Mirza Street, 3rd Floor, Bombay 3.

Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.

Bharat Paper Mart.—51, Sutar Chawl, Bombay 2.

Bhargava & Co., K. C.—P. Box No. 19, Bombay 1.

BILBA PAPER PRIVATE LTD.—Shale Building, Bank Street, Bombay 1. Phone: 252614. Grams: "BILBAPAPER". Importers & Indentors of Paper & Boards. Branch Office: Gillander House, Netaji Subhas Road, Calcutta.

BOMBAY PAPER MARKETING CO., THE.—Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 25-3668. Grams: "PAPERCO."

Bombay Stationery Mart.—7-A, Sir Phirozshah Mehta Road, Fort.

Bombay Trading Co.—"Dhun-Nur," Sir Phirozshah Mehta Road, Fort.

Bombay United Agencies, Ltd.—21, Western India House, Sir Phirozshah Mehta Road Fort.

Cama, Norton & Co.—23, Medows Street, Fort.

Chalasani & Co.—Noble Chambers, Parsi Bazar Street, Fort.

CHAMPAKLAL LALWANI & COMPANY.—Dealers in all kinds of Indian & Foreign Papers. Distributors & Stockists of "ROHTAS" and "WEST COAST" Paper Mills. 31, Mirza Street, Bombay 3. Phone: 22103. Grams: "OREMINES."

CHANDULAL & CO.—100, Dhanji Street, Bombay 3. Phone: 39878. Grams: "PRATAPBOND". Paper Merchants. Res. Phone: 28261.

Chhaganlal Keshavjee.—22-A, Parsi Bazar Street, Fort.

Chimanlal & Co.—38/42, Shamsett Street, Bombay.

CHIMANLAL PAPER COMPANY.—Importers of High Grade Papers, Boards and Mill Representatives. 1st Floor, Macmillan Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams: "SELECTION." Phones: 262041/42 and 88260 (Residence).

Crystal Stationery Mart.—109, Dhanji Street, Bombay 3.

C. T. Mehta Bros.—Noble Chambers, Parsi Bazar Street, Fort, Bombay 1.

D. R. Patodia & Co.—Warden House, Sir Phirozshah Mehta Road, Fort, Bombay.

Deccan Paper Mart.—52, Mirza Street.

Dharia, R., & Co.—Sutar Chawl, Bombay 2.

Dilaj & Co.—20, Hamam Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcuttta, New Delhi.

EAST INDIA PAPER CO.—People's Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phones: 262301 & 264069. Grams: "INDIAPRINT". Importers of all varieties of papers—Sole distributors of the BALLARPUR Paper & Strawboard Mills Ltd., for Bombay, Bengal & Assam and of "WISDOM" Exercise Books for Bombay, Mysore & whole of South India—Distributors for Bombay of the Nepa Mills. Branches at: Calcutta, Ahmedabad & Poona.

Eastern Paper Co., Ltd.—No. 44, Sutar Chawl.

Elof Hansson Agency Ltd.—Adelphi House, 3, Queen's Road, Bombay.

Empire Traders.—Stationers, Printers & Paper Merchants, 18, Hassan Chambers, Parsi Bazar Street, Fort.

Fatehi Bros.—General Paper Merchants, 191, Abdul Rehman Street, Post Box No. 3049, Bombay 3.

Fidahoosein Shamsoodin & Sons.—15-17, Mirza Street, Parsi Gully, Bombay 3.

FINLAY, JAMES & CO., LTD.—Chartered Bank Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Phone Nos. 251255-59. Post Box No. 73.

Friends Paper Stores.—299, Abdul Rehman Street, Opp. Safe Bank Ltd., Bombay 3. Phones: Office: C/o 20343 and Factory: 28078. Grams: "AZADPAPER."

GANDHI, R. & CO.—50/52 Sheriff Devji Street (Chakla), Bombay 3. Phone: 30897. Grams: "VALIATEX." Distributors of Fancy Imitation Paper & Calico.

GANDHI, R. K., & CO. (Estd.: 1930).—Aga Khan Building, Dalal Street, Fort, Bombay. Phone: 255684. Grams: "BOARDPAPER." Agents for Messrs. Storm & Bull Ltd., Oslo, Norway. Indent Orders for all kinds of Paper and Boards invited. Stockists of Indian made Velvet Papers in different Colours.

GEORGE F. HITCHMAN.—Waterloo Mansion, Opp. Regal Cinema, Bombay 1. Phone: 212173. Grams: "INDOPAPER." Manufacturers' Representatives; 1. Parsons & Whittemore Ltd., London; 2. Aktiebolaget Stamina, Stockholm; 3. T. Yamada & Co. Ltd., Kobe, Japan; 4. Foh Lee Co. Ltd., Shanghai, China.

Gotz Bros. & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road.

Haveliwala Paper Mart.—"Zainab House," 34-36, Mirza Street, Bombay 3.

HIMATLAL & CO.—Importers and Manufacturers' Representatives. Representing in India: The Nationalized Paper Industries of German Democratic Republic. Head Office: 26, Noble Chambers, Parsi Bazar Street, Fort. Phone Nos. 255663 and Residence: 61596. Grams: "HIMSHAH." Branches: Calcutta and Madras.

Hoosein & Bros., M. A.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.

India Paper Corporation.—64, Sutar Chawl, Bombay 2.

INDULAL & CO.—Motilal Mansion, 11/45, Tamarind Lane, Bombay. Phone: 255655. Grams: "USHA". Agents for Meerut Strawboards Mills, Meerut. Branch: Kapasia Bazar, Ahmedabad.

International Impex Corporation.—18, Motibai Jamnadas Building, 64, Sutar Chawl, Bombay 2. Phone: 23566. Grams: "INTIMEXCOR."

International Paper Co.—26, People's Building, Sir Phirozshah Mehta Road, Fort.

JAI DAYAL KAPUR.—(Distributors for Shree Gopal Paper Mills Ltd., Jagadhari), 24, Shamshet Street (1st Floor), Bombay 2. Phone: 39567. Grams: "JAIKAPSOW" for all branches. Branches: Chawri Bazar, Delhi 6. Gwyne Road, (Aminabad), Lucknow and No. 2, Anderson Street, Madras 1. (N.B.—Madras and Lucknow Offices are the Distributors for "Ballarpur Paper and Strawboard Mills Ltd., for South India and Lucknow respectively).

JAI DAYAL KAPUR & SONS PRIVATE LTD.—24, Shamshet Street (1st Floor), Bombay 2. Phone: 39567. Grams: "JAIKAPSO," for all branches. Paper Merchants and Stationers. Registered Office: Chawri Bazar, Delhi 6. Branches: No. 2, Anderson Street, Madras 1. Birhana Road, Kanpur. Gwyne Road (Aminabad), Lucknow, and 17, Guru Bazar, Amritsar.

James Finlay & Co., Ltd.—Mahatma Gandhi Road, Bombay 1.

Kanthawala, N., & Co.—77, Medows Street, Fort.

Kikabhoy Chandabhoy.—33-35, Mangaldas Road, Bombay 2. Phone: 24601. Grams: "Creamlaid."

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay.

Kimex (India) Ltd.—47, Tamarind Lane, Fort, Bombay.

KOSMOS PAPER STORES, THE.—87-A, Khadilkar Road, Bombay 4. Phone: 71901. Grams: "KOSMOSPAP." Importers of Paper and Boards.

LAXMI COMMERCIAL CO.—44, Mirza Street, 1st Floor, Bombay 3. Grams: "LAXMIPAPER." Importers & Paper Merchants.

M. A. DESAI & CO.—106, Medows Street, Post Box No. 1119, Fort, Bombay. Phone: 252746 (Office) and 62866 (Res.). Grams: CLIENTELE." Importers of Papers, Boards and Printing Machineries.

MAEVY & COMPANY.—Nawab Building, 4th Floor, 327, Hornby Road, Fort, Bombay. Phone: 253235.

Mahesh Paper Mart.—13, 2nd Agiary Lane, Dhanji Street, Bombay 3. All kinds of Paper, Boards & Printing Trade Accessories. Grams: "MANTHAN." Phone: 27691.

MAHOMEDALLY HEBATBHOY & CO.—15, Mirza Street, Bombay 3. Dealers in all kinds of Indian Papers, Stationery and Strawboard, Printing Inks, etc. Phone: 22324. Grams: "TAHERI."

MAKERS PRIVATE LTD.—59, Forbes Street, Fort, Bombay 1. Phone: 253090. Grams: "LARGEFIELD."

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MANSUKHLAL SUKHLAL & CO. (Estd. 1923)—Ghoga Street, Fort, Bombay. Direct Importers of Papers & Boards. Stockists of Indigenous Papers & Boards and Manufacturers of Envelopes. Phone No. 254247. Grams : "PADDY."

Model Art Printery Ltd.—4, Nanabhai Lane, off Churchgate Street, Fort.

MOHANLAL & CO.—56, Sutar Chawl, Bombay 2. Phone : 27831. Grams : "MILLPAPER." Paper and all sorts of Boards Merchants.

Mohamedali Abdulhusein.—83, Mirza Street, Bombay 3.

MULTANI PAPER MART.—302, Kalbadevi Road, Bombay 2. Shop : 29, Sutar Chawl, Bombay 2. Phones : 34576 & 23705. Grams : "BHASIN."

Natverlal & Bros.—40, Sutar Chawl, Bombay 2.
Navyug Paper Stores.—120, Dhunji Street, Bombay.
New India Stationery Mart.—9, Hummum Street, Fort.
Noble Paper Mart.—Hassan Chambers, Parsee Bazar Street, Fort, Bombay.

NOBLE STATIONERY MART.—Parsi Bazar Street, Fort, Bombay 1. Phone : 254748. Grams : "CELLOTAPE." Importers of all kinds of Stationery and Paper Manufacturers of Files, Envelopes and other paper made stationery. Distributors for Parker Inks, "CEEDA" and "NOSIM" Stationery.

N.V. Kelkar & Co.—1st Floor, Sardar Griha, Bombay 2.
Ochavlal & Bros.—62, Sutar Chawl.

P. CARLTON & CO.—26/A, Sir Phirozshah Mehta Road, Bombay 1. Phone : 261880. Grams : "GRISPROOF."

PARDIWALA PAPER MART.—32A, Parsi Bazar, Fort. Phone : 251444. Grams : "PAPERMART." The Popular House for Paper, Boards, Inks, Printing Materials and Book Binding Cloth. Stockists of Titaghur Mills Paper and Hooghly Printing Inks.

Patel, B. K., & Co.—106, Medows Street, Fort.
Patel Paper Mart.—Kanbai Bhuvan, opp. Hira Baug, Kandewadi.
Pavri Sons & Co.—95-97, Bazar Gate Street, Fort.

P. KIRPALANI & CO.—Bulakidas Building, 11, Vithaldas Road, Bombay 2. Phone : 20497. Grams : "CROMOPAPER." Direct Importers & Stockists of Paper & Boards.

Prabhat Trading Company.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.
Praful Paper Mart.—54, Sutar Chawl, Bombay 2.

PRAHLADRAI DALMIA & SONS.—51, Podar Chambers, Parsee Bazar Street, Fort, Bombay 1. Phone : 253113. Grams : "PANQUICK." Authorised distributors for paper & boards manufactured by Rothas Industries Ltd., Dalmianagar.

PROVINCIAL PAPER CO.—Jawahar Mansion, Thakurdwar Road, Bombay 2. Phone : 28302. Grams "BOTTOMRATE." Importers—Papers, Boards, etc.

Ratilal P. Mehta & Co.—65, Sutar Chawl, Bombay 2.
R. B. Shivdasani & Co.—73, Bombay Mutual Building, Hornby Road, Fort, Bombay 1.
R. Gulambusen & Bros.—41-43, Mirza Street, Parsi Gully.
R. Kantilal & Co.—Zaveri Bhuvan, 2nd Agiary Lane, Parsi Gully, Bombay 3.

ROHITKUMAR & CO.—272, Sheik Memon Street, Hira Bldg., Zaveri Bazar, Bombay 2. Phone : 20365. Grams : "CELLEPHONE." Stockists of Paper, Boards and all kinds of Packing and Printing Papers.

Rowlandson Bros. (Estd. 1927).—Podar Chambers, Parsee Bazar Street, Fort, Bombay.
Royal Paper Stores.—Mapla Bldg., 187-89, Abdul Rehman Street, Bombay 3.
S. Kumar & Co.—People's Buildings, Sir Phirozshah Mehta Road, Fort, Bombay 1.

SAIF & CO.—36, Sutar Chawl, Bombay 2. Phone : 29097. Grams : "PRIMEPAPER," Kalbadevi. Importers & Stockists of all kinds of Papers & Boards.

Sales Corporation.—110/112, Dhanji Street, Bombay 3. Phone: 21589. Grams : "SALESCO."

SCANFENNIA PAPER CO. (BOMBAY) PRIVATE LTD.—53/57, Lakshmi Bldg., Sir Phiroshah Mehta Road, Bombay 1. Phone : 261931. Grams : "FINSCAN".

Shah & Company.—108, New Citizen Bank House, Palton Road, Bombay.
Shambhulal A. Shah & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort.
Shree Trading Co.—259, Girgaum Road, Bombay 4.

SOUTHERN INDIA TRADING CORPORATION.—Himalaya House, Hornby Road, Bombay 1. Phone : 261028. Grams : "SOUTRADES." Dealers in Papers, Boards, Piece-goods and Empty Gunny bags.

Spicers (Export), Ltd.—Imperial Chambers, Wilson Road, Ballard Estate.
Standard Paper Co.—72-74, Sutar Chawl.
Subodh Indent Agency.—44, Kumar Villas, Mangalwadi, Girgaum.

SUDHIR & CO.—Papers, Boards, and Chemical Merchants, 248, Samuel Street, Bombay 3. Phone : 22288.

Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay 3.

SUPERIOR STATIONERY MART PRIVATE LTD.—117, Medows Street, Fort. Phone : 25-2398. Grams : "LOVELINESS." Printers and Paper Merchants.

Swastik Paper Mart.—54, Sutar Chawl, Bombay 2.
United Company.—Peerbhoy Building, 89, Princess Street, Bombay 2.
United Corporation.—National Indian Life Building, 59, Forbes Street, Fort.
Van Reekum Paper, Ltd.—Shale Building, Bank Street, Fort.
Variety Paper Co.—Maher House, 15, Cawasji Patel Street, Fort, Bombay.

VIVID INDUSTRIES.—Office : 17, Gilder Lane, Off Lamington Road, (Ground Floor), Bombay 8. Phone : 72621. Grams : "VIVIDCOLOUR." Works : 24, Rear Dr. Anandrao Nair Road, Bombay 11. Manufacturers of Lacquers, Thinners & Industrial Finishes.

WIGGINS TEAPE & ALEX. PIRIE (EXPORT) LTD.—Agents in Bombay for Charles Morgan & Co., Ltd., Paper Merchants, Kamani Chambers, Nicol Road. Telegrams: "WINCHMORE." Phone No. 26-1622.

PAPER (WASTE)

MANIAR BROS.—6, Duncan Road Cross Lane, Bombay 8. Phone : 41718. Grams : "RAOOF." Dealers in Waste paper, Press cuttings, old Records (Account-Bill books, Letter Files and documents to be destroyed) and all other paper Industry Raw Materials.

P. CARLTON & CO.—26A, Sir Phirozshah Mehta Road, Bombay 1. Phone : Office : 261880. Grams : "GRISPROOF."

V. K. Stevens & Co.—12th Lane, Khetwadi, Bombay 4.

PATENT ATTORNEYS

PURSHOTTAMDAS GOKULDAS.—6th Floor, Peoples Building, Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 265014 & 265172. Consulting Engineers & Patent Attorneys. Inventions, Patents, Design, Trade-marks and Industrial Planning. Ask for Free Brochure on "Patents & Trade-marks."

PEARLS (SIMULATED) MANUFACTURERS

GOLDFILLED MERCANTILE CO.—Premier Manufacturers of Simulated Pearls, Glass Beads and Costume Jewellery. 15, Bastion Road, Fort, Bombay. Phones : Office : 261768 & 265528; Factory : 86279. Grams : "GOLDFILLER."

PERFORATED METAL SHEETS MFRS.

HARISHCHANDRA & CO., JALIWALA.—233, Abdul Rehman Street (opp. Sutar Chawl), Bombay 3. Manufacturers of Perforated Metal Sheets of all kinds, and Stockists of MAXWELD Fabrics, Expanded Metals, Wire Netting of all kinds. On Govt., Railway & Municipal Lists. Grams: "HARIJALI."

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone : 26-3001. Grams : "DUTYBOUND." Wire Netting and Perforated Metals and Stainless Steel Wire Nettings and Monel Metal Wire Nettings ; Importers, Exporters and Merchants.

PERFUMERS & PERFUMERY RAW MATERIALS

A. BOAKE, ROBERTS & CO. (INDIA) PRIVATE LTD.—107, Mahatma Gandhi Road, Bombay 1. Phone : 252877. Grams : "FLABRAC." Suppliers of Quality Perfumes for Agarbathies, Hair Oils, Face Powders, Handkerchiefs, Perfumes and all types of cosmetics, etc. Head Office : Madras. Branch at Calcutta.

Ahmed, D., & Sons.—Teher Mansion, 10-A, Nepean Sea Road, Bombay 26.
Akbarally Ebrahimji Pharmacy & Department Stores.—45/47, Veer Nariman Road, Bombay.

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A. Hami Bros.—3, Commercial Chambers, Masjid Bunder Road, Bombay 3.
Allwyns Private Ltd.—92-94, Ardeshir Dady Street, Vithalbhai Patel Road, Bombay 4.
Anand & Co.—Nanjee Building, 4th Floor, 17, Horniman Circle, Bombay 1.
Anil Trading Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.
AROMATIC PRODUCTS & CHEMICALS PRIVATE LTD.—42, Prospect Chambers Annexe, Dr. Dadabhai Naoroji Road, Fort. Phone : 253151. Grams : "DISCOVERY." Stockists of Imported Perfumery, Raw Materials and Manufacturers of Perfume Compounds.
B. C. Patel & Co.—Devkaran Building, Princess Street, Bombay 2. Stockists of Aromatic Chemicals, Essential Oils & Perfumery Compounds. Phone : 20366. Grams : "Snehalata".
Bhagat & Sons.—21-23, Shamset Street, Bombay 2.
Bhalchandra Upasani.—338, Samuel Street, P.B. No. 3268, Bombay 3.
Bombay Agarbatti Co.—Simplex Building, Pawwalla Street, near Krishna Cinema, Bombay 4.
Bombay Chemicals Private Ltd.—129, Mahatma Gandhi Road, Bombay 1.
Bombay Perfumery Co.—Devkaran Mansion, Princess Street.
CALCUTTA ESSENCE SUPPLY CO.—Mulchand Mansion, 1st Floor, Princess Street, Bombay 2. Grams : "SUPRALUX." Phone : 23623. Dealers & Importers of Essential Oils, Aromatic Chemicals & Perfumery Compounds. Agents for Industrial Perfumes Private Ltd., for Maharashtra State (Except Bombay City) and West Bengal including Calcutta.
Chavannes & Co., Private Ltd.—P.B. No. 552, Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.
Chimanlal Maganlal & Co.—4, Mangaldas Road, Princess Street, Bombay 2.
Chunilal Prabhudas & Co., (Bombay) Private Ltd.—211-12, Himalaya House, Palton Road, Bombay 1.
Colaba Drug Stores.—Namdar Manzil, Colaba Road, Bombay 5.
Coryse-Salome, Paris.—Regal Building, Apollo Bunder.
Dalal Bros.—74, Swadeshi Market, Kalbadevi Road, Bombay 2.
DAVAR, M. C. & CO.—143, Princess Street, Bombay 2. Phone : 39752. Grams : "EMCIDAVAR." Aromatic Chemicals, Essential Oils and perfumery materials. Agents for Esrolko Ltd. (Flora), Switzerland.
D. D. Shah & Co.—Anees Chambers Annexe, Carnac Road, Bombay 1.
Derby & Co.—P. B. Press Building, 299, Frere Road, Fort.
D. G. Gore.—31, Mangaldas Road, Princess Street, Bombay 2.
East Asiatic Co. (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate, Bombay 1.
Eastern Aromatics.—105, Hindu Colony, 4th Road, Dadar, Bombay 14.
Enamdar Trading Co.—Devkaran Mansion, 63, Princess Street, Bombay 2.
Ethical Products (India) Private Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Bombay 1.
Eve Fabrics Private Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay.
Fedco Private Ltd.—Mafatlal House, Backbay Reclamation, Bombay 1.
Foreign Scent Supplying Syndicate.—Santa Cruz, Bombay 23.
F. W. Pollack & Co.—11, Oak Lane, Fort, Bombay 1.
General Import Co. (India).—Keshav Baug, 102, Princess Street, Bombay 2.
Gore, D. G.—31, Mangaldas Road, Bombay 2.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Gujarat Essence Mart.—Keshav Baug, 25, Princess Street, Bombay 2.
Gulab Singh Johrimal.—62-62A, Marwari Bazar, Bombay 2.
G. P. Patel & Co.—Mansoor Building, 98, Princess Street, Bombay 2.
Gupta & Co.—Shroff Mansion, Princess Street, Bombay 2. Manufacturing Perfumers. H. O.: Sadar Bazar, Delhi. Branch : 2-66, Ezra Street, Calcutta 1.
Hami & Co.—Perfumers. Cutlery Market, Jumma Masjid, Bombay 2.
Harrison & Co.—168-170, Cumballa Hill.
Hasanali Kamroodin.—10, Shamset Street, Chippi Chawl, Bombay 2.
Hira, P. H., & Co.—18-20, Princess Street, Bombay 2.
H. K. Dyer, C/o Keshavlal Jamnadas.—Tankshal Bhuvan, 3rd Floor, Kalbadevi Road, Bombay 2.
H. M. Zakaria & Bros.—Perfumers, 299, East Sandhurst Road, Bombay 3.
Ina Trading Co.—35, Vithaldas Road, Princess Street, Bombay 2.
International Import Export Co.—Botawala Building, Elphinstone Circle, Churchgate Street, Bombay 1.
INDUSTRIAL PERFUMES PRIVATE LTD.—Head Office : 3rd Floor, Army & Navy Bldg., Mahatma Gandhi Road, Bombay 1. Phone : 255526/9 Extn. 3 & 4. Factory : Hay Bunder Road (Tata Oil Mills Compound), Sewri, Bombay 15. Phone : 73331. Manufacturers of Aromatic Chemicals and Perfumery Compounds.
Jayantilal & Co., B.—15, Mangaldas Road, Princess Street, Bombay 2.
J. L. Morison Son & Jones (India) Ltd.—Contractor Bldg., Ballard Estate, Bombay.
Kalapi Store.—53-56, Swadeshi Market, Kalbadevi Road, Bombay 2.
Kapadia & Co.—Bell Building, Sir Phirozshah Mehta Road, Bombay 1.
K. H. Dhamdhere.—Devkaran Mansion, 45-47, Princess Street, Bombay 2.
Madon, M. T., & Co.—The "Corner-shop", 346, Abdul Rehman Street.
Madon, Sons & Co.—Madon Mansion, 67, Hughes Road, Bombay 7.
Manek Chemical Company—Bhadaran Nagar, Ghodbunder Road, Malad, Bombay.
Manilal Motichand Kanani & Co.—Dawawalla Building, Princess Street, Bombay 2.
M. B. Thakkar.—105, Princess Street, Bombay 2.
M. D. Patel & Co.—Devkaran Mansion, Princess Street, 1st Floor, Block No. 1, Bombay 2.
Mehta Nariman & Co.—'K' Building, Fort Street, Bombay 1.
Mercantile Essential Oil Co.—5, Mint Road, Fort, Bombay 1.
M. M. Khambatwala, C/o C. Narottam & Co.—Mangaldas Road, Bombay 2.
Mohanlal Roshanlal & Co.—119, Kalbadevi Road, Bombay 2.
MOHINI AGENCY.—Jakaria Building, Masjid Bunder Road, Bombay 3. Manufacturers of Perfume Compounds "OTTO MOHINI," "PHUL-TORA," etc. and long-lasting "INDIA GATE," "MOHINI ROSE," "MISS INDIA," Agarbattis, Exporters and Importers.
M. R. Mody.—Mangaldas Building, Mangaldas Road, Bombay 2.
Mysore Products Ltd.—191, Princess Street, Bombay 2.
Mysore Sugandhi Dhoop Factory.—Post Box No. 3178, Masjid Bunder Road, Bombay 3.
Naarden Chemical Works (India) Private Ltd.—Sevna House, 84, Annie Besant Road, Worli, Bombay 18.
Narendra & Co.—Bansilal Mansion, 11, Bruce Street, Fort.
National Overseas Corporation.—105, Princess Street, 2nd Floor, Bombay 2.
National Trading Co.—190-191, Mangaldas Road, Bombay 2.
N. R. Shah & Company.—Mulchand Mansion, Princess Street, Bombay 2.
New Chemicals Industries, The.—Antio House, Edalji Road, Thana.
New India Aromatic Co.—Devkaran Mansion, No. 3, 45-47, Princess Street, Bombay 2.
Otto Manz.—14, Hamam Street, P.O. Box 1550, Bombay 1.
Patanwala, Ltd.—182-84, Abdul Rehman Street.
P. Chunilal & Co.—Mulchand Mansion, 2nd Floor, Princess Street, Bombay 2.
Pearline (Paris).—Rahman Building, Vir Nariman Street, Fort.
P. Muncherji & Co.—10, Hamam Street, Bombay 1.
Purshottam Laxmichand.—Bulakhidas Building, Princess Street, Bombay 2.
Rayon Industries.—Shree Hari Nivas, 20, Gowalia Tank Road, Bombay 26.
R. H. Mody & Co.—8, Khanderao Wadi, 1st Floor, Kalbadevi Road, Bombay 2.
R. K. Shapurji & Co.—Prospect Chambers, 319, Hornby Road, Bombay 1.
R. Randow.—Kitab Mahal, Hornby Road, Bombay 1.
Sepulchre Brothers (India) Private Ltd.—Import Dept., Taj Building, Hornby Road, Bombay 1.
S. G. Kothari & Co.—88-90, Abdul Rehman Street, Bombay 3.
S. H. KELKAR & CO. PRIVATE LTD.—36, Mangaldas Road, Bombay 2. Phone : 29130. Grams : "SACHEWORKS," Dadar, Bombay. Manufacturers of Essential Oils, Aromatic Chemicals, and 'COBRA' Brand Perfumes.
SIKRI BROTHERS.—79-E, Princess Street, Bombay No. 2. Phone No. 33494. Grams : "OILMAN".
S. Javeri & Co.—Devkaran Mansion, Block No. 3, 3rd Floor, Princess Street, Bombay 2.
S. Parth & Co.—7, Chandra Mahal, Girgaum, Bombay 2.
Synaflor Company.—Sharaf Mansion, 32, Princess Street, Bombay 2.
Trading Co. Late Hegt. & Co., Ltd.—Indu House, Dougall Road, Ballard Estate, Bombay 1.
T. T. Krishnamachari & Co.—Co-operative Insurance Building, 5th Floor, Sir P. M. Road, Bombay 1.
Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Bombay.
V. Harkishandas & Co.—Sharaf Mansion, 32, Princess Street, Bombay 2.
Voltas Limited.—Graham Road, Ballard Estate, Bombay 1.
Vrajlal, B., & Co.—28, Princess Street.
Well Company.—Stadium House, 2nd Floor, Veer Nariman Road, Bombay 1.

PEST CONTROL

PEST CONTROL (INDIA) PRIVATE LTD.—36, Yusuf Bldg., Mahatma Gandhi Road, Fort, Bombay 1. Phone : 252080. Grams : "PESTCIL". Consulting Entomologists, Termite Controls, Disinfection & Fumigation Service. Member, National Pest Control Association Inc. U.S.A. & Entomological Society of India.

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PETROL PUMPS & GARAGE EQUIPMENT

LOOKMANJI MOOSAJI.—138-40, Lohar Chawl, Bombay 2. Phone: 20261. Grams: "CURTAINS." Manufacturers of Swivels for High & Low Pressure assemblies, speed couplers and connectors, check valves, control lever valves for hoists and safety blow-out valves.

TAHIRA INDUSTRIES (INDIA) PRIVATE LTD.—19/21, Manohardas Street, Opp. G.P.O., Bombay 1. Phones: 265256 & 264664. Grams: "TAHIRA." Manufacturers of Tokheim Petrol/Diesel Dispensing Pumps — Tokheim Hand Pumps—Accessories for Petrol Pumps—Petrol Hose—Air Compressors—Car & Truck Lifts—Car Washers—Grease & Oil Pumps—Lubrication Equipment—Meters for Petroleum Products—Pumps & Valves for Acids & Chemicals—Oil Line Pipe—Chains—Wire Rope—Packings & Jointings—Mobile Cranes. Factory: Victoria House, Victoria Road, Byculla, Bombay 27.

PETROLEUM & OIL COMPANIES

Andrew Yule & Co. Ltd.—32, Nicol Road, Ballard Estate, Bombay.

Balmer Lawrie & Co. Ltd.—5, Graham Road, Ballard Estate, Bombay.

Burmah-Shell Oil Storage and Distributing Co. of India Ltd.—Burmah-Shell House, Currimbhoy Road, Ballard Estate, Bombay.

CALTEX (INDIA) LIMITED.—Caltex House, Ballard Road, Ballard Estate.

GULF OIL (INDIA) PRIVATE LIMITED.—Steelcrete House, 3, Dinsha Watcha Road, Bombay 1. Importers and Distributors of High Grade Lubricants.

Indo-Burma Petroleum Co. Ltd.—Allahabad Bank Building, Apollo Street, Fort, Bombay.

Standard-Vacuum Oil Co.—Stanvac Building, 17, Jamshedji Tata Road, Bombay 1.

Wakefield, C. C., & Co. Ltd.—White House, 91, Walkeshwar Road, Bombay 6.

WESTERN INDIA OIL DISTRIBUTING CO., LTD.—Alice Building, Dadabhoy Naoroji Road, Fort. Branch: Madras.

PETROLEUM PRODUCTS

INTERNATIONAL LUBRICANTS PRIVATE LTD.—Court House, Dhobi Talao, Bombay 2. Phone: 29109. Grams: "LUBRICANTS," Bombay and 12-A, Ashutosh Mukerjee Road, Calcutta 20. Grams: "VISCOSITY," Calcutta. Importers of High grade Motor Oils, Lubricating Oils & Petroleum Jellies.

SUDAN TRADING CO.—Dhan-Nur, Phirozshah Mehta Road, Bombay 1. Phone: Office: 262788. Resi.: 62089. Grams: "VANSOBHA."

PETROLEUM PRODUCTS MACHINERY

ASSOCIATED COMMERCIAL & MANUFACTURING ENTERPRISES PRIVATE LTD.—Janmabhoomi Chambers, Fort Street, P.O. Box No. 1895, Bombay 1. Phone: 26-2891. Grams: "ACMELIM." Manufacturers of hand operated Dispensing Pumps, Quick Acting Valves, Pressure Vacuum Valves, Lube Oil Dispensing Pumps, Barrel Decanting Pumps and all types of Fittings for Oil Industry.

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P. O. Box No. 4567, 11, B. E. S. T. Printing Press Bldg., Morland Road, BOMBAY 8.

Phone: 40850. Grams: "BOTTLEHOME".

ABBOTT LABORATORIES (INDIA) PRIVATE LTD.—Manufacturing Pharmaceutical Chemists, Jehangir Building, Mahatma Gandhi Road, Fort. G.P.O. Box No. 1334, Bombay. Phone No. 253637. Grams: "ABBOTTLAB." Madras Depot: Ebrahim Mansion, 3rd Floor, 3, Errabalu Chetty Street, P.O. 1224, Madras 1. Grams: "ABBOTTLAB," Madras. Calcutta Depot: 6/1, Lindsay Street, Calcutta 16. Grams: "ABBOTTLAB." Phone: 233907.

Alembic Chemical Works Co., Ltd., Baroda.—Distributors in Bombay: Alembic Distributors Ltd., Lakshmi Building, Sir Phirozshah Mehta Road, Fort. Phone No. 26605.

AMORTEX AGENCIES PRIVATE LTD.—5th Floor, Warden Court, Gowalia Tank Road, Bombay 26. Grams: "CHINGARI." Manufacturers of Drugs, Medicines, Surgical Dressings, Laboratory & Industrial Chemicals.

AMRUTANJAN LIMITED.—249, Frere Road, Fort, Bombay. Phone: 261673. Grams: "AMRUTANJAN." Head Office: Madras. Other Branches: Calcutta and Delhi. Manufacturers of Amrutanjan Pain Balm, Ring Worm Ointment, Inhalers and Gripe Mixture.

Anglo-Thai Corporation Ltd.—Ewart House, Bruce Street, Bombay 1.

ASEPTICUS COMPANY (Estd. 1925).—Swadeshi Market, Kalbadevi Road, Bombay 2. Phone: 27876. Grams: "TEXELECTRO," Bombay; G.P.O. Box 560, Bombay 1. Manufacturers of "SINDOL" Pain Reliever—Powders, Tablets and Pain Balm.

Asian Drug Corporation.—Podar Chambers, Parsi Bazar Street, Fort.

Asiatic Pharmaceutical and Chemical Corpn.—19, Bank Street, Fort, Bombay.

ATUL DRUG HOUSE.—85, Dr. Annie Besant Road, Worli, Bombay 18. Phone: 76722. Grams: "ATULDRUG." Sole Agents and Manufacturers in India for:—Laboratoires VIFOR S. A., Geneva, Switzerland; Laboratoires HOUDE, Paris, France; Laboratoires RICHTER, Milan; COMTECK Laboratories, Bombay, India.

B-TEX OINTMENT MFG. CO.—24, Bapu Khote Street, Bombay 3. Manufacturers of B-Tex Ointment Remedy for Skin Diseases.

B.A. & Brothers.—98, Princess Street, Bombay 2.

Bhagwandas Chhatrabhuj & Co.—20, Hamam Street, Fort.

Bhukhanvalla & Sons.—Medows House, Medows Street, Fort.

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Bharatkumar & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.

Bharatkumar & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.

Bharat Textile Corporation.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.

Bhau Kashinath.—Building No. 63, Bhandari Street, Bombay 3.

Bhogilal R., & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.

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Bhupatrai & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Bhupendra Rajnikant & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Bipinchandra & Bros.—Chhipi Chawl, Bombay 2.
Bombay Trading Co., Pvt. Ltd.—Bombay Mutual Annexe, 17, Gunbow Street, Bombay 1.
Champaklal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Chandrakant D., & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Chandrakant & Bros.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Chandrakant & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Chandrakant K., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Chandrakant R., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Chandrakant J., & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Chandrakant Tarachand Badani.—Building No. 19, Champa Gulli, Bombay 2.
Chandrakant Vallabhdas & Co.—Mangaldas Market, 7th Gulli, Bombay 2.
Chandarana Brothers.—32, Fofalwadi, Bhuleshwar, Bombay 2.
Chandrakant & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Chandrakant Maganlal & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Chandravadan & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Chandulal Jeshangbhai & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Chandulal Babalal & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Chandulal Navnitlal & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Chandulal Manilal & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Chatrabhuj Bhanji & Co.—Chandra Chowk, 3rd Gulli, Mulji Jetha Market, Bombay 2.
Chatrabhuj Bhaichandbhai & Co.—40, Hasam Building, Vir Nariman Road, Fort, Bombay 1.
Chatrabhuj Gordhandas & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Chatrabhuj Jivandas & Co.—158, Kanji Gokaldas Building, Lohar Chawl, Bombay 2.
Chhaganlal B.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Chhotalal Chhaganlal & Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Chhaganlal Laxmichand & Sons.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Chhaganlal Maganlal.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Chimanlal Umaji & Sons.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Chimanlal & Sons.—Chandra Chowk, 8th Gulli, Mulji Jetha Market, Bombay 2.
Chimanlal Popatlal Shah.—Diamond Building, Luhar Chawl, Bombay 2.
Chinubhai & Bros.—Churchgate House, Fort, Bombay 1.
Choturmal K. A. J., & Co.—Building No. 501, Kalbadevi Road, Bombay 2.
Chunilal & Bros.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Chunilal K., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Chunilal Nagardas & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Cloth Trading Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Damodar Chhaganlal & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
Damodardas Jeramdas & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Daso Textile.—Office Gulli, Mulji Jetha Market, Bombay 2.
Dayaldas Nensi & Co.—Oval Wadi, Bombay 2.
Dayalji J., & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Desai Chhabildas Vallabhdas.—Champa Gulli, Bombay 2.
Desai Pravinchandra Ochhavlal & Bros.—Old Hanuman Gulli, Bombay 2.
Devidas Hirjee & Co.—Building No. 22, Vithalwadi, Bombay 2.
Dev Sharma & Co.—2, Jai Hind Estate, 3rd Floor, Bhuleshwar, Bombay 2.
Dhansukhlal & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Dhanvantrai C., & Co.—Champa Gulli, Bombay 2.
Dharamsi Mathuradas & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Dharamsi Ramji.—Swadeshi Market, Radha Gulli, Bombay 2.
Dharamsi Ranchhoddas & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Dhirajlal Hirjee.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Dhirajlal S. Shah & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Dhirajlal Vrajlal & Co.—Champa Gulli, Bombay 2.
Dilipkumar & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Dineshchandra & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Doctor C., & Co. Ltd.—12, Bruce Street, Fort, Bombay 1.
Doshi A. M., & Co.—Chandra Chowk, 2nd Gulli, Mulji Jetha Market, Bombay 2.
D. P. Bros.—Lakhmidas Market, 1st Gulli, Bombay 2.
Dwarkadas & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Dwarkadas Keshavlal & Co.—86, Sugar Chawl, Bombay 2.
Dwarkadas Meghji (Private) Ltd.—Swadeshi Market, Bombay 2.
Fajalbhai & Tulsidas.—Sheikh Memon Street, Bombay 2.
Farasram Chatrabhuj & Co.—Mangaldas Market, 5th Gulli, Bombay 2.
Fulchand Odhavji & Co.—Chandra Chowk, 5th Gulli, Mulji Jetha Market, Bombay 2.
Ganesh Dyeing & Printing Works.—Bombay Cotton Mill Compound, Kala Chowki, Bombay 12.
Ganesh Gangaram & Sons.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Ganeshshanker & Co.—10/12, Thakersi Building, Old Hanuman Gulli, Bombay 2.
G. H. Bros. & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Ghanshyamdas K., & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Girdharlal Khusaldas & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Girdharlal Navnitlal & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Gobhai M. N., & Co.—Building No. 505, Kalbadevi Road, Bombay 2.
Gokuldas & Co. Ltd.—Building No. 453/457, Kalbadevi Road, Bombay 2.
Gokulesh Cloth Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Gordhan P., & Co.—Sheikh Memon Street, Bombay 2.
Gordhandas Amratlal & Co.—Building No. 28, Champa Gulli, Bombay 2.
Gore & Co.—Fort, Bombay 1.
Govindji & Sons.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Govindram Hasanand & Co.—Chandra Chowk, 3rd Gulli, Mulji Jetha Market, Bombay 2.
Great India Investment Co. Ltd., The.—70/72, Bombay Mutual Building, Fort, Bombay 1.
Gunvantrai Chunilal & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Hajimusa T. S., & Co.—Karim Building, Mahamadali Road, Bombay 3.
Hansraj Tricumdas.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Haridas N., & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Hareshkumar Jamnadas & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Harilal Kantilal & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Harischandra Ratilal & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Harjivan L., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Harjivandas Gordhandas & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Harkishandas Mohanlal & Co.—Vithalwadi, Bombay 2.
Harsukhlal, J., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Hasmukhlal & Bros.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Hasmukhlal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Hasmukhlal & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Himatlal Bapulal & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Himatlal, H., & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
Hind Commercial Co. Ltd., The,—Building No. 72, Champa Gulli, Bombay 2.
Hirachand Gopalji & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Hiralal Ramanlal & Co.—Champa Gulli, Bombay 2.
Hiralal Harakhchand & Co.—129, Bazar Gate Street, Fort, Bombay 1.
H. Valimamad H. Jamal., Noormahamed Sons.—223, Ali Cottage, Chakala Street, Bombay 3.
H. V. & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Ibrahim Haji Eliyas & Sons.—Building No. 65, Chakala Street, Bombay 3.
Inasu, C. L.—Building No. 418, 2nd Floor, Kalbadevi Road, Bombay 2.
Indravadan Chunilal & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Ishwarlal & Co.—9, Amar Nivas, Prarthana Samaj, Vithalbhai Patel Road, Bombay 4.
Jagdish & Co.—Champa Gulli, Bombay 2.
Jagjivan Pragji & Co.—Mangaldas Market, 5th Gulli, Bombay 2.
Jagjivan Uttamchand & Co.—No. 45-47, 1st Floor, Bazar Gate Street, Fort, Bombay 1.
Jamnadas, D., & Co.—Mangaldas Market, New Gulli, Bombay 2.
Jamnadas, R., & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Jamnadas Brothers.—37, Sutar Bazar, Tambakanta, Bombay 3.
Jamnadas Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Jamnadas Narandas Bros.—Parsottam Nivas, 3rd Floor, Block No. 20, Dadysheth Agiary Lane, Kalbadevi, Bombay 2.
Jashvantlal Dhansukhlal & Co.—Champa Gulli, Bombay 2
Javerilal & Bros.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Jawaharsing Shobhasingh & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Jayantilal Haridas.—Lakhmidas Market, 1st Gulli, Bombay 2.
Jayantilal Bros.—Vaghwadi, Kalbadevi Road, Bombay 2.
Jayantilal Chhotalal & Co.—Shyam Bhuvan, 4th Floor, Chira Bazar, Gazder Park, Thakurdwar, Bombay 4.
Jayantilal Nanalal.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Jayantkumar & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Jayant & Co.—Swadeshi Market, Maniar Gulli, Bombay 2.
Jaynarayan & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Jaybharat Mills Cloth Shop.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Jaysinh Morarji & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Jashwantlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Jechand, N., & Co.—Champa Gulli, Bombay 2.
Jesukhlal & Co.—Swadeshi Market, New Gulli, Bombay 2.

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Jethabhai Khatau & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Jethalal V. Dave & Co.—Building No. 295, Masjid Bunder, Bombay 3.
Jitendrakumar & Co.—82, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Jitendra & Co.—Chandra Chowk (4th Gulli), Mulji Jetha Market, Bombay 2.
Jivandas Bhanji & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Jivandas Dayalji & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Jivandas Jamnadas & Co.—Chandra Chowk (3rd Gulli), Mulji Jetha Market, Bombay 2.
Joshi & Mandali.—226, Charni Road, Bombay 4.
Jupiter Mills Cloth Shop.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Kajaria, R., & Co.—Mangaldas Market, New Gulli, Bombay 2.
Kakubhai & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Kanayalal Navnitlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Kantilal & Co.—Chandra Chowk (1st Gulli), Mulji Jetha Market, Bombay 2.
Kantilal Raichand & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Kantilal Vithaldas & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Kapad Traders Co.—Champa Gulli, Bombay 2.
Karasia Textile Trading Co.—Silver Mansion, 2nd Floor, 45, Dhanji Street, Bombay.
Karsandas Premji & Sons.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Kathiawar Textile Mills.—Chhipi Chawl, Bombay 2.
Kavasji Mancherji Kapadia & Sons.—Chhipi Chawl, Bombay 2.
Keshavlal Maganlal & Co.—Madhavji Dayal's Building, Old Hanuman Gulli, Bombay 2.
Keshavlal & Co.—Sheikh Memon Street, Bombay 2.
Kikabhai, J., & Sons.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Kimatrai, J., & Co.—Bomanji Master Road, Princess Street, Bombay 2.
Krashnalal Gordhandas & Co., C/o Messrs. Bhaichand Rugnath & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Krashnakumar Jethabhai & Co.—Champa Gulli, Bombay 2.
Kripaldas & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Krushna, S., & Co.—Building No. 30/32, Champa Gulli, Bombay 2.
Kumarpal, K., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Lakhani & Co.—Building No. 12, Champa Gulli, Bombay 2.
Lalitkumar Mulraj Khatau & Co.—Bhangwadi, Kalbadevi Road, Bombay 2.
Lallubhai, V., & Co.—Champa Gulli, Bombay 2.
Laxminarayan Mansukhlal & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Madhavji, D., & Sons.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Madhavsinh, J., & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Madhavsi Thakersi & Sons.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Madhusudan Gordhandas.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Madhusudan Kalyanji.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Madhukar Upendrakumar Co.—Building No. 98-100, Champa Gulli, Bombay 2.
Maganlal Umaji.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Mahavir Silk Mills.—Chippi Chawl, Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Mahendrakumar, K., & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.
Mahendrakumar Bros. (Private) Ltd.—20, Lawyers Chambers, Lohar Chawl, Bombay 2.
Mahendralal, B.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Mahendralal Mansukhlal.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Mangaldas Jeshangbhai & Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Mangaldas Lallubhai & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Manharlal Kanayalal & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
Manilal Anandji & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Manilal Gordhandas & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Manilal Mulji, D., & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Manilal Keshavji & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Mansukhlal, L., & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Mansukhram, N., & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Mansukhlal, R. M., & Co.—Gordhan Gulli, Mulji Jetha Market, Bombay 2.
Mathuradas Natverlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Mehta, H. P., & Co.—Swadeshi Market, New Gulli, Bombay 2.
Mehta, J. P., & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Mehta Parekh & Co.—Building No. 98-100, Champa Gulli, Bombay 2.
Minis, K. M., & Co.—Jal Chambers, Charni Road, Bombay 4.
Mohanlal & Sons.—Building No. 78-84, Champa Gulli, Bombay 2.
Mohanlal Gokaldas & Co.—Umakant Mansion, Dabholkar Wadi, Kalbadevi Road, Bombay 2.
Mohanlal Maganlal.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
Mohanlal Vallabhdas & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Motilal Kanchanlal & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Morarji & Sons Private Ltd.—Building No. 259, Kalbadevi Road, Bombay 2.
Morarji Vandravan & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Morarji Velji & Sons.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Mukul, R., & Co.—Champa Gulli, Bombay 2.
Mulchand & Co.—Chandra Chowk (3rd Gulli), Mulji Jetha Market, Bombay 2.
Mulchand Hirachand & Sons.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Mulchand Vimalchand & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Mulji Jetha & Co.—Vithalwadi, Bombay 2.
Nagin Bros.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Nagindas, B., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Nagindas, D., & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Naginlal, S., & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nanalal Amarchand,—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Nanchand Mulchand & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Nandlal & Bros.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Nandlal & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nandlal P., & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Nandlal Ladhabhai & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Narandas, H. B., & Co.—Chandra Chowk (5th Gulli), Mulji Jetha Market, Bombay 2.
Narbheram, R., Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Narendra & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Narandas Maneklal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Narottamdas Chimanlal & Co. Ltd.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Narottamdas Nanchand & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Narottam Hansraj.—Swadeshi Market, New Gulli, Bombay 2.
Nasher, D. M., & Co. Ltd.—Manek Chamber, 1st Marine Lines, Bombay 1.
Narsidas, D., & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Nathalal Jamnadas.—Building No. 360, 2nd Floor, Kalbadevi Road, Bombay 2.
Natverlal Chunilal & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nautamlal Zaverchand & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Navalchand, P., & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.
Navinchandra Bipinkumar & Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Navinchandra & Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Navnitlal & Co.—185, Mulji Jetha Building, Princess Street, Bombay 2.
Navnitlal, M., & Co.—Swadeshi Market, Radha Gulli, Bombay 2.
Near East Trading Co. (India), The.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Nemchand, M., & Bros.—Building No. 381E, 1st Floor, Kalbadevi Road, Bombay 2.
New Bombay Dyeing & Printing Works, The.—153/155, C. P. Tank, Vithalbhai Patel Road, Bombay 4.
New Rajpur Mills Co. Ltd., The.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
New Textile Ltd., The.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Niranjan, P., & Co.—Sunder Chowk, Mulji Jetha Market, Bombay 2.
N. M. Bros.—Vithalsayna Building, Luhar Chawl, Bombay 2.
Non, B. C., & Bros.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Nyalchand Ratanji & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Ochhavlal & Sons.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Omkarmal & Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Pendse, L., & Co.—196, Charni Road, Bombay 4.
Parekh Bros.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Parikh, P. J., & Co.—Vithalwadi, Bombay 2.
Parsottam Govindji & Sons—Krashna Chowk, Mulji Jetha Market, Bombay 2.

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Parsottam Jamnadas & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Parsottam Lalji.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Parsottam Surchand & Co.—Mangaldas Road, Bombay 2.
Patel Ghanshyamdas & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Patil Brothers.—Karsandas Mulji Building, Old Hanuman Gulli, Bombay 2.
Pioneer Piecegoods Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Popatlal Juthabhai.—Lakhmidas Market, 3rd Gulli, Bombay 2.
Prabhodhchandra & Co.—Ghadial Gully, Mulji Jetha Market, Bombay 2.
Prabodhchandra Himatlal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Prabhat Patel Depot.—Champa Gulli, Bombay 2.
Prabhat Thread Co.—33, Dukkar Wadi, Chira Bazar, Gazder Park, Thakurdwar, Bombay 4.
Prabhudas Vrajlal.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Prabhulal, P., & Co.—Whiteaway Laidlaw Building, 2nd Floor, Hornby Road, Fort, Bombay 1.
Pragdas Mathuradas Bombay Private Ltd.—28/30, Anantwadi, Bhuleshwar, Bombay 2
Pragji, J., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Pratapsinh Karansinh & Co.—Shop No. 10, Chandra Chowk, Mulji Jetha Market, Bombay 2.
Pratapsinh & Co.—Dwarkesh Gulli, Mulji Jetha Market, Bombay 2.
Pravin Brothers.—145 Kavel Street, Kalbadevi Road, Bombay 2.
Pravinchandra, M., & Co.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Premchand Gomaji Sons & Co.—Vithalwadi, Bombay 2.
Premchand Kachrabhai & Co.—Champa Gulli, Bombay 2.
Premji Khushal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Radheshyam Shambhunath.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
Raghunath & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Raghunath & Co.—Champa Gulli, Bombay 2.
Raghunath Ramchandra Samant & Bros.—Champa Gulli, Bombay 2.
Rajnikant Bros.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Rajiv & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Ramanlal Ratilal & Co.—Chandra Chowk (2nd Gulli), Mulji Jetha Market, Bombay 2.
Ramesh & Co.—Girilila Building, Champa Gulli, Bombay 2.
Rameshchandra & Co.—Vithalwadi, Bombay 2.
Rameshchandra Jamnadas & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Rameshchandra Kantilal & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Rameshkumar & Brothers.—Vithalbhai Patel Road, Bombay 4.
Rameshkumar Dawda & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Ramnarain Morarji & Co.—Building No. 20, Vithalwadi, Bombay 2.
Ramniklal & Bros.—Ghadial Gulli, Mulji Jetha Market. Bombay 2.
Ramniklal Bhikhabhai & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Ramniklal Chhotalal.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Ranchhoddas, B., & Co.—Narayan Chowk, Mulji Jetha Market, Bombay 2.
Ranchhoddas Bhanji & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Ranjitsinh Dharamsi.—Building No. 105/107, Old Hanuman Gulli, Bombay 2.
Rasiklal & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal & Co.—Building No. 30, Ramwadi, Kalbadevi Road, Bombay 2.
Rasiklal Chandrakant & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal & Co.—Office Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal Jethalal & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal Nagindas & Co.—Dadar Gulli, Mulji Jetha Market, Bombay 2.
Rasiklal Manilal & Co.—Chandra Chowk (4th Gulli), Mulji Jetha Market, Bombay 2.
Ratansi Gopalji.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Ratilal Harilal & Co.—Building No. 261, Masjid Bunder, Bombay 3.
Ratilal Kantilal & Co.—63/65, Cathedral Street, Bhuleshwar, Bombay 2.
Ratilal, R., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Sameshwar, V. D., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Sanghvi Bros.—29, Bhangwadi, Kalbadevi Road, Bombay 2.
Sanghvi Mody & Co.—Lentin Chambers, Dalal Street, Fort, Bombay.
Sarabhai, M., & Sons.—Office Gulli, Mulji Jetha Market, Bombay 2
Saralal Laxmichand (Textile).—Sheikh Memon Street, Bombay 2.
Shah & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Shah, N. M., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Shah, N. M., & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Shah, S. B., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Shashikant Jayant & Co.—Navi Gulli, Mulji Jetha Market, Bombay 2.
Shamaldas, N. V., & Co.—Chandra Chowk (8th Gulli), Mulji Jetha Market, Bombay 2.
Shantilal & Co.—Lakhmidas Market, 3rd Gulli, Bombay 2.
Shantilal Chhotalal & Co.—Shyam Bhuvan, 3rd Floor, Chira Bazar, Gazder Park, Thakurdwar, Bombay 4.
Shantilal Kalidas & Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Shantilal Manilal & Co.—Mangaldas Market, 2nd Gulli, Bombay 2.
Shantilal Parshottamdas & Co.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Shantilal Vithaldas & Co.—1st Floor, Lakhmidas Market, 3rd Gulli, Bombay 2.
Shapurji & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.
Shashikant & Brothers (India) Ltd.—Building No. 52, Dadysheth Agiary Lane, Kalbadevi Road, Bombay 2.
Sheth & Co.—Building No. 72, Champa Gulli, Bombay 2.
Sheth Brothers & Co.—165, Dr. Viegas Street, Kalbadevi Road, Bombay 2.
Shreekant Textile.—New Citizen Bank Building, 2nd Floor, Palton Road, Carnac Road, Bombay.
Shree Krashna Agency.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Shree Ram Mills Cloth Shop.—Dharamraj Gulli, Mulji Jetha Market, Bombay 2.
Sunderdas Shreechand.—Building No. 117/119, Old Hanuman Gulli, Bombay 2.
Sunderdas Thakershi & Bros.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Surajmal & Sons Ltd.—Vithalwadi, Bombay 2.
Surat Cotton Spg. & Wvg. Mills Co. Ltd., Govind Gulli, Mulji Jetha Market, Bombay 2.
Suresh & Co.—Champa Gulli, Bombay 2.
Sureshbhai & Co.—Chandra Chowk (8th Gulli), Mulji Jetha Market, Bombay 2.
Surendra Rasiklal & Co.—Krashnaraj Gulli, Mulji Jetha Market, Bombay 2.
Surendra Somalal & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Suryakant Jamnadas.—Champa Gulli, Bombay 2.
Suryakant, K., & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Sushilkumar & Co., C/o Messrs Ramniklal Bhikhabhai & Co.—Govind Chowk, Mulji Jetha Market, Bombay 2.
Tayabmamad Haji Musa & Co.—Karim Building, Mohamadali Road, Bombay 3.
Textile Trading Co.—Great Social Building, Sir P. Mehta Road, Fort, Bombay 1.
Thakersi Mulji & Co.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Thakkar, M. R., & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Thana Stores.—Building No. 72, Champa Gulli, Bombay 2.
Tribhowan Nemchand & Co.—67, Bazar Gate Street, Fort, Bombay 1.
Tulsidas Mohanlal & Co.—Daya Mandir, Masjid Bunder, Bombay 3.
Tulsidas V. Patel.—Swadeshi Market, New Gulli, Bombay 2.
Udhavdas Mulchand.—Krashna Chowk, Mulji Jetha Market, Bombay 2.
Vadilal Limited.—Champa Gulli, Bombay 2.
Vadilal Kashidas Ltd.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Vadilal Vrajlal & Co.—186, Pirbhai Mansion 2, Princess Street, Bombay 2.
Vallabhdas, J., & Co.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Vallabhram, N., & Co.—Lakhmidas Market, 2nd Gulli, Bombay 2.
Vallabhdas Mathuradas & Co.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Vallabhdas Madhavji & Co.—Gaumukh Gulli, Mulji Jetha Market, Bombay 2.
Vallabhdas Mohanlal & Co.—Ghia Building, 1st Floor, Princess Street, Bombay 2.
Varjivandas Padamsi & Co.—Govind Gulli, Mulji Jetha Market, Bombay 2.
Vasani, K., & Co.—Goraj Gulli, Mulji Jetha Market, Bombay 2.
Vasanji & Co. Private Ltd.—Building No. 259, Kalbadevi Road, Bombay 2.
Vasantkumar Natverlal & Co.—Lakhmidas Market, 1st Gulli, Bombay 2.
Vasantrai, N., & Co.—Building No. 30, Champa Gulli, Bombay 2.
Vasantrai Nagji & Co.—Thakarsi Gopalji Building, Old Hanuman Gulli, Bombay 2.
Vasantlal, J., & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Vashanji Lalji & Sons.—Building No. 103, 2nd Floor, Princess Street, Bombay 2.
Vasudev Manilal & Co.—Chandra Chowk, Mulji Jetha Market, Bombay 2.
Vijaykumar & Co.—Ganeshwadi, Mulji Jetha Market, Bombay 2.
Vikas Ltd.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Vinayak Bros.—Sancha Gulli, Mulji Jetha Market, Bombay 2.
Vinaychandra Durlabhdas & Co.—Building No. 67, Tambakanta, Bombay 3.
Vinaychand & Co.—Chhipi Chawl, Bombay 2.
Vinaykant Trading Co.—Madhavrai Gulli, Mulji Jetha Market, Bombay 2.
Vinodrai & Co.—Sir Vithaldas Gulli, Mulji Jetha Market, Bombay 2.

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Vinodchandra & Co.—Pragraj Gulli, Mulji Jetha Market, Bombay 2.
Vishvnath Bhagwanji.—Chandra Chowk (6th Gulli), Mulji Jetha Market, Bombay 2.
Vithaldas, C., & Co.—Parekh Building., Old Hanuman Gulli, Bombay 2.
Vithaldas & Co. Ltd.—No. 16-18, Cross Lane, Champa Gulli, Bombay 2.
Vithaldas Vashanji.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Vithaldas Vishram & Sons.—Ghadial Gulli, Mulji Jetha Market, Bombay 2.
Yarn Trading Co.—95, Tambakanta, Bombay 3.
Zaveri Bhagwanji Premchand.—Chikhal Gulli, Mulji Jetha Market, Bombay 2.
Zaveri Hemchand Zaverchand.—Sancha Gulli, Mulji Jetha Market, Bombay 2.

PIPES AND FITTINGS MERCHANTS

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone : 29990. Grams : "ALERTDEAL."

Abdulhusein Esoofaly Contractor.—91-93, Bapu Khote Street, Bombay 3.

Abdullabhai Faizullabhai Ltd.—Khokha Bazar, Bombay 3.

Adamji Lookmanji & Co.—Rahimtoola House, Homji Street, Fort.

ADVANCE TUBE CO.—99, Nagdevi Street, Bombay 3. Phone : 30522. Grams : "ELBOWS."

A. G. KARIMJI CALCUTTAWALA.—Pipes Fittings and Sanitarywares, 82/84, Gulalwadi, Kika Street, Bombay 4. Phone : 73636. Grams : "SANITARY."

A. Vallabhdas & Sons.—37, Nagdevi Street, Bombay 3.

ALEXANDRA ENGINEERING WORKS PRIVATE LTD.—29, Quay Street, Darukhana, Bombay 10. Phone : 76359. Grams : "ALEXWORKS." Mechanical & Structural Engineers & Contractors. Manufacturers of Pipes, Fittings to all Specifications and "Alex" solder wire for Radio & Electrical uses.

ASGARALI NURUDDIN & CO. (ESTD. 1916.)—75, Nagdevi Street, Bombay 3. Phone : 22609. Res. 88753. Sanitary Engineers, Hardware & Pipe Fittings Merchants.

Baboolal & Brothers.—113, Nagdevi Street, Bombay 3.
Badruddin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Bharatkumar & Co.—Carnac Siding Road, Iron Market, Bombay 9.

BHATHENA, B. N., & CO.—100, Nagdevi Street, Bombay 3. Stockists of Copper, Brass, Galvanized and Steam Pipes and Fittings, Asbestos Goods, Flax Fire Hose, G.M. and C.I. Valves and Cocks, etc. Phone : 23155. Grams : "TEENAZ."

Bombay Burma Hardware Store.—128, Nagdevi Street, Bombay 3.

BOMBAY TUBE AND HARDWARE MART PRIVATE LIMITED, THE.—284, Nagdevi Street, Bombay 3. Phone : 23604. Importers, Stockists and Dealers of Pipes, Tubes and Fittings, Valves, Gauges, Thermometers, Boiler Plants, Pumps, Instruments, Industrial Meters, Steam Traps, Textile and Industrial Machinery, Packing and Jointings. Agents for TRACTA Ball and Roller Bearing Extractors, STANWIN and SHACKLETON Rotary Gear Pumps for Viscous Liquids, Alkali, Acids, Oils, etc. and for U.K. & French Make Pipe Bending Machinery. K.P.M. Textile Moisture Meters, Hydraulic Equipment, Electronic & Boiler House Instruments.

Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

C. CHAMPAKLAL & CO.—205, Nagdevi Street, Bombay 3. Phone : 39373. "Watermeter" G.I. and C.I. Pipes, Fittings & Sanitarywares.

Calcutta Iron & Steel Co. Ltd.—68/D, Mohamedali Road, Bombay 3.
Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
Chhabildas & Co.—78-A, Abdul Rehman Street.

CHHABILDAS & BROS.—Government & Railway Contractors, 163, Narayan Dhuru Street, Bombay 3. Phone : 34860. Grams : "SCREWHOOK."

CRESCENT TRADING CO.—48, Bhajipala Lane, Bombay 3. Phone : 29840. Grams : "WATERMETER." Stockists of pipes, fittings, Acid Resisting Valves, Cocks, C. I. Sluice Valves and Water Meters.

C. R. Contractor & Co.—82, Nagdevi Cross Lane, Bombay 3.

CROWN SANITARY SUPPLIERS.—9, 1st Cooper Street, Bombay 3. Phone : 42884. Grams : "FLUSHPIPE." Largest Stockists of Sanitaryware, Pipe Fittings and Commission Agents.

Daulatram Ratanji & Company.—208, Nagdevi Street, Bombay No. 3.

Doshi Brothers & Co.—77, Medows Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone : 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

EASTERN TUBE & HARDWARE MART.—123, Narayan Dhuru Street, Bombay 3. Phone : 30959. Grams : "WATSTEAM," Bombay 3.

ESUFALLY ADAMJI & CO. (ESTD. 1885).—134, Nagdevi Street, Bombay 3. Phones : 30775; Residence : 36141. Grams : "TRAVELLER." Burmah-Shell Agents for Madhya Pradesh.

Fakhrudin Noorbhai & Co.—105, Kika Street, Bombay 4.

Fidahusein Hasanali.—46, Gulalwadi, Kika Street, Bombay 4.

Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

Garlick & Co. Private Ltd.—Haines Road, Jacob Circle.

General Tube Ltd., The.—142-44, Nagdevi Street, Bombay 3.

Gin Stores Co.—76, Nagdevi Cross Lane, Bombay 3.

Gokaldas Shivlal & Co.—76, Kika Street, Bombay 4.

GOVARDHANDAS, P. A.—144, Nagdevi Street, Bombay 3. Phone : 39812. Grams : "WHEELVALVE". Manufacturers and Suppliers of Brass, Gun-metal, Cast Iron, Valves & Cocks, G.I., W.I., M.S. Pipes and Fittings, Cast Iron Pipes, Specials, Rainwater Fittings Water Meters, Sanitary, Laboratory Fittings, Flushing Cisterns, Bolts & Nuts and Tube Well Accessories etc.

HATIMBHOY GOOLAMHUSEIN & BROS.—(Estd. 1894), 193-A, Nagdevi Street, Bombay 3. Phone : 20752. Grams : "FITTINGS."

Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.

HINDUSTAN TOOLS & ENGINEERING CO.—Post Box No. 2311, 9/13, Pickett Cross Road, Bombay 2. Grams : "GREENLEAVE." Manufacturers of Stainless Steel Bolts, Nuts & Fittings for Chemical Laboratories.

Hindustan Tube Company.—163, Nagdevi Cross Lane, Bombay 3.

Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

Jai Bharat Steel Syndicate.—Iron Jetha, Carnac Bunder, Bombay 9.

Jafferjee Hussanally & Sons.—68, Nagdevi Street, Bombay 3.

Jashwantlal Manecklal & Co.—40, Churchgate Street, Fort.

Jayantilal & Brothers.—38, Bibijan Street, Nagdevi, Bombay 3.

JAYANTILAL GOKALDAS & SONS.—232, Masjid Bunder Road, Bombay 3. Phones : 39895 (Office) and 62650 (Res.). Stockists of Galvanised Pipes & Fittings, Cast Iron Rainwater & Soil Pipes & Fittings, Cast Iron Spigot & Socket Pipes, Special Fittings Brass BIB Cocks and Stop cocks, Sanitarywares and Sanitary Fittings, Gunmetal wheel valves and Gate Valves, Lead Pipes and Lead Traps, Stoneware Pipes & Fittings, Cast Iron Manhole Covers & Gratings.

J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone : 30138. Grams : "SANIPIPES."

Joshi & Co.—207, Kumbharwada 6th Lane, Golpitha, Bombay 4.

K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.

K. S. Parikh & Co.—40, Hararwalla Building, Golpitha, Bombay 4.

KESHAWLAL LALOOBHAI.—87-91, Dhanji Street, Bombay 3. Phone : 22581. Grams : "FLANGES." Largest Stockists of galvanised and black Pipes, Class A.B. & C. in all Sizes, Gal & Black Pipe Fittings, G.M. & C.I. Valves & Cocks are available from large ready stocks.

Kooverji Devshi & Co.—164, Lohar Street.

Kutch Sanitary & Plumbing Works.—Matunga, Bombay 19.

M. K. Palia & Sons Pvt. Ltd.—Palia Bldg., 189, Nagdevi Street, Bombay 3.

Machine Tools & Implements.—24, Nagdevi Cross Lane, Bombay 3.

Mangaldas Ranchhoddas & Co.—Iron Market, Carnac Bunder, Bombay 9. Phone : 29884.

Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3. Phone : 23015. Grams : 'Armpipe' Pipe Fittings, Sanitary Wares & Mill Gin Stores. Specialists in Water Meter.

Mashruwala, C. M., & Co.—172-74, Nagdevi Street, Bombay 3.

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone : 39545. Grams : "REDJOINT."

MERVYN & SPITTAM.—Manufacturers of Pipe-Fittings, 51, Nakhoda Street, Pydhonie, Bombay 3. Phone : 73661. Grams : "MERSPIT." Works : 4, Ghodbunder Road, Malad (West), Bombay. Phone : 84219.

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M. N. PADIA & CO.—70, Kika Street (Gulalwadi), Bombay 4. Phone : 72383.

M. J. PATEL & CO.—177, Nagdevi Street, Bombay 3. Phone : 39183. Grams : "REDTEE". Direct Importers & Stockists. G. I. & Steam Pipes, Boiler Tubes & Valves, C. I. Pipes & Specials. Hydraulic Pressure & Tubes. Manufacturers of Steam Flanges.

Muljibhai Chhotalal & Co.—76-78, Nagdevi Street, Bombay 3.

NAGDEVI TOOL-STEEL MART.—186-88, Nagdevi Street, Bombay 3. Phone : 23058. Grams : "TENDERERS."

NANALAL AMBALAL & CO. (ESTD. 1917).—69, Nagdevi Street, Bombay 3. Phone : 28754. Grams : "VILVALHIRO." Regional Sole Distributors for (1) Stoneware, Glazed Pipes manufactured by the Perfect Pottery Co., Ltd., Jabalpur and (2) Parry's 'EID' brand Sanitaryware. Leading wholesalers of Galvanised Iron, Cast Iron, Asbestos Cement Pipes and Fittings and Sanitaryware.

NAYAK TRADING CO.—151, Sarang Street, Bombay 3. Phone : 23548. Our Specialities : Gun Metal wheel valves with renewable Nickel Seat & Disc for High Pressure Steam & Cast Iron valves of every description. C. I. Pipes a speciality.

NECET TRADING CORPORATION PRIVATE LTD.—94, Nagdevi Street, Bombay 3. Grams : "NECETPIPES." Cast Iron S/S & Double-Flanged Pipes, Specials, Sluice Valves, G.I. Pipes, Fittings and G.M. Valves available in large stock.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

New India Pipes Ltd.—50, Bhajipala Lane, Bombay 3.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone : 27545. Grams : "JEPIBELT." Authorised Distributors of "Dunlop" Beltings, Vee-Belts, Hoses & Trolley Wheels.

Noble Tube Co.—141, Nagdevi Street, Bombay 3.

NOMANBHAI ABDEALLI & COMPANY

96-98, Nagdevi Street - Bombay 3

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Phone : 22620

Grams : "INTEGRITY" (Mandvi), Bombay.

Galvd. Black Pipes, Tubes, Wire Ropes, Gun Metal Fittings, Pipe Fittings, Brass Cocks, Asbestos Goods, etc.

NOWROJI N. VAKIL & CO.—Shahru Castle, Mohamedalli Road, Bombay 3. Phone : 22803. Head Office and Factory at Naroda Road, Ahmedabad. Manufacturers of Stoneware, Drainage Pipes & Fittings, Fire Bricks and Clay & Raschig Rings.

OCHHAVLAL, R. & CO.—86, Nagdevi Street, Bombay 3. Phone : 30114. Grams : "VALVES." Pipe Fittings, Asbestos Goods, Valves & Cocks & Boiler Mountings.

PANALAL MOHANLAL & CO.—89, Nagdevi Street, Bombay 3. Direct Importers of Copper, Brass, Galvanised Black Steam Pipes, Fittings and Gun Metal Fittings & Valves. Phone : 30211.

PATEL BROTHERS & CO.—41, Nagdevi Cross Lane, Bombay 3. Phone : 20606. Grams : 'HASTY'. Importers of Copper, Brass, Galvanised & black steam pipe fittings & Gunmetal fittings & Valves.

RADIANT ELECTRIC & MACHINERY CO.—Vithaldas Chambers, Bruce Street, Bombay 1. Phone : 255297. Cast Iron Pipes & Pipe Fittings, Valves, Water Meters, Laying of Pipes and Hydrant line undertaken to approved specification.

Ranpal & Son.—436, Shradhanand Road, Bombay 19. Sanitary Wares and Pipe Fittings Merchants.

R. Babulal & Co.—163, Nagdevi Cross Lane, Bombay 3.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone : 38621. Grams : "MANILAROPE."

Royal Tube Corporation.—94, Nagdevi Street, Bombay 3.

S. BAXI & BROTHERS.—2/C, Bibijan Street (Nagdevi), Bombay 3. Phone : 20355. Grams : "BABUSHANT." Mill Gin Stores, Hardware, Hosepipes, Rubber Sheets, and Pipe Fitting merchants.

SHAH PATEL & CO.—109-111, Nagdevi Street, Bombay 3. Phones : 20709 and 39977. Grams : "LUCKYCHAP." Water & Steam Pipes and Boiler Tubes, Fittings, Valves & Cocks. Manufacturers of Slip-on-weldable and screwed M.S. Flanges.

SHARMAN SONS (Estd. 1949).—Show Room : 46, Nagdevi Street, Bombay 3. Phone : 20589. Office : 34, Nagdevi Street, Bombay 3. Grams : "SONSHARMAN." Shop : 10, Nagdevi Street, Bombay 3. Phone : 20589. Galvanized Pipes & Pipes Fittings, Gun-Metal, Valves & Boiler Fittings, Plastic Laboratory Pipes, Lead Pipes, Armoured Hoses & Rubber Pipes and all sizes in Water Meters.

Sivramkrishnan, M.—Haji Manzil, 82-86, Abdul Rehman Street, Bombay 3.

S. SEVANTILAL & CO.—246, Masjid Bunder Road, Bombay 3. Phone : 39745. Grams : "SEVANTICO." Mill Gin Stores, Pipe Fittings, Hardware & Engineering Tools Merchants.

STANDARD PIPES & FITTINGS CO.—93-A, Nagdevi Street, Bombay 3. Grams : "STANDPIPES". Phone : 23444. Importers & Stockists of Pipes & Fittings, Sanitary Wares, Hardware & Mill Stores.

Standard Trading Co.—Vithal Sayana Building No. 2, 43-75, Lohar Street, Bombay 2.

Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.

TALIB & CO.—Talib House, 104, Nagdevi Street, Bombay 3. Phone No. 27977. Grams : "TALIBCO." Pipes, Fittings & General Hardware Merchants.

THAKORLAL & CO.—47, Nagdevi Cross Lane, Bombay 3. Phone : 20498. Grams : "PIPEWARE."

TIRATHRAM KASHMIRILAL (INDIA) PRIVATE LTD.—89, Nagdevi Cross Lane, Bombay 3. Phone : 20446 (Office) & 212447 (Res.) Grams : "GIRDERS." Specialists in Casing boring Pipes.

Trivedi, S. G.—90, Nagdevi Street, Bombay 3.

TUBE TOOLS AND HARDWARE MART.—94, Nagdevi Street, Bombay 3. Phone : 39645. Grams : "EVERJOY."

United Tube & Hardware Co.—146, Nagdevi Street.

VASUDEV & COMPANY.—48, Bibijan Street, Bombay 3. Phone : 20677. Grams : "VASU METALS."

Venus Trading Co.—122, Barbhai Moholla, Narayan Dhuru Street, Bombay 3. Phone : 32147.

Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.

Vinubhai Chandulal & Co.—65, Nagdevi Street, Bombay 3.

PLASTIC MACHINERY MFRS.

BRIMCO PLASTIC MACHINERY CORPORATION.—Bombay, Thermoplastic Extruders, Injection moulding machines, etc. Sole Distributors : William Jacks & Co. Ltd., Bharat House, Apollo Street, Fort, Bombay.

PLASTIC (RAW MATERIAL)

ALLIED TRADERS (INDIA).—169, Masjid Bunder Road, Bombay 3. Phone : C/o 38830. Grams : "SEAT PLAST." Whosesale & Retail Dealers of Polystyrene, Polyethylene Acetate and all Plastics Raw Materials.

Imperial Chemical Industries (India) Private Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.

POLYCHEM LIMITED.—Manufacturers of Polystyrene Plastic Moulding Material, 45/47, Apollo Street, Bombay 1. Phones : 254259, 251301. Grams : "POLYCHEMIC."

RAMNIKLAL C. KOTHARI & CO.—16, Apollo Street, Bombay 1. Phone : 251632. Grams : "ASTROGEMS." Celluloid and Plastic Tubes, Sheets, Rods & Moulding Powders.

UNION CARBIDE INDIA LIMITED.—Kasturi Building, Jamshedji Tata Road, Bombay 1. Phone : 245584 & 245775. Grams : "INDUSCHEM." For "UNION CARBIDE." Polyethylene, Plastics, Resins & Compounds.

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PLASTIC SHEETINGS

HINDUSTAN PLASTIC CO.—95, Abdul Rehman Street, Bombay 3. Stockists of P.V.C. Plastic Sheetings & Leather Cloth. Grams : "SUEDE." Phone : 20926.

PLASTIC TUBINGS

AMRATLAL CHHAGANLAL & CO.—143, Nagdevi Street, Bombay 3. Phone : 29008. Grams : "EKADASHI." Dealing in Suction, Delivery, & Fire Hoses; Surgical, Rubber & Plastic Tubings & Sheetings.

RAVIN TRADING COMPANY.—5, Mohatta Market, Phalton Road, P.O. Box 1969, Bombay. Grams : "BEWITCH." Phone : 26-4883. Solo Selling Agents : "TPI" Brand PVC Sleevings & Tubings.

PLASTICS

Abdul Kayam Esufally & Bros.—193, Abdul Rehman Street, Bombay 3.

AMAR PLASTIC INDUSTRIES.—Queen's Mansion, Bastion Road, Bombay 1. Phone : 261402. Grams : "RUMTREE." Manufacturers of Plastic Inflatable Toys & Pillows, Models, Advertising Gifts, Cinema Screens and Industrial items.

Artbangles Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort.

ASHOK BROTHERS.—187, Abdul Rehman Street, Bombay 3. Phone : 34283. Grams : "ASHOKPLAST." Manufacturers of Plastic Advertising Novelties, money purses, writing sets, Diaries, Table Calendars, Key Chains, Key purses, Stationery articles, paper cutters, Blotters, paper weights, auto ink Stands, etc.

Associated Agencies (Bombay).—47, Podar Chambers, Parsee Bazar Street.

Aurora Toys & Novelties.—"Parimal", Keluskar Road South Shivaji Park, Dadar, Bombay 28.

BAKER BROTHERS.—31, C.P. Tank Road, Bombay 4. Phone : 72621. Grams : "BAKERCOLOR." Suppliers of Plastic Lacquer and Chemicals for "FLEXIBLE" and Solid Plastic Products.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Bhagwandas Chhatrabhuj & Co.—20, Hamam Street, Fort.

BLOW PLAST.—Saki Vihar Lake Road, Bombay 70. Manufacturers of Industrial items out of Plastic for various Industries.

BOMBAY AGENCY.—5, Ramnam Mansion, Behind Metro Cinema, Dhobi Talao, Bombay 1. Phone : Office : 242041. Sole Agents for Bombay Plastic Industries. Mfrs. of Plastic Injection Moulding, Blow Moulding Extruding Process, Utility Industrial Packing Stationery articles.

BOMBAY PLASTIC CORPORATION.—Elphinstone Building, 10, Veer Nariman Road, Bombay 1. Phone : 252527. Grams : "BESIEGER." Manufacturers of Plastic Advertising & Complimentary Articles.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams : "BRIBOS." Phones : 77454 & 77455. Mfgs. of quality Plastic Articles for Home, Industry, Office and Gift advertising.

Chimanlal Patel & Co.—174, Hornby Road, Fort.

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Importers and Exporters. 260-64, Abdul Rehman Street, Bombay 3. Phone : 38863.

EMBI DESAI & CO.—Office : Dadyseth House, Cawasji Patel Street, Fort, Post Box 1116, Bombay 1. Phone : 253082 & 253772. Grams : "Ashwinco," Bombay. Depot : 108, Ardeshir Dady Street, Near C. P. Tank, Bombay 4. Phone : 73741. Process Works : 51, Bhandari Street, Near Round Temple, Bombay 4. Factory : Patel Estate, Goregaon (East), Bombay. Phone : 84363. Workshop : 8A, Dhobi Wadi, Sett M. N. Charities Compound, Thakurdwar Road, Bombay 2. Phone : 29827. Ahmedabad Office : Jayabhuvan, Inside Balahanuman, Ahmedabad.

Garware Plastics Pvt. Ltd.—Chawpatty Chambers, Sandhurst Bridge, Bombay 7.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

HIND PLASTIC INDUSTRIES (Estd. 1872).—Props. : Awatram Sons, 264, Jumma Masjid, Bombay 2. Phone : 39320. Grams : "WHOLESALE." Manufacturers of Money Wallets—Brief Cases — Diaries — Calendars — Writing Pads — Advertising Gift Articles, Polythene Bags — Rain Coats & Hats.

Indian Plastics Ltd.—Kandivli, Bombay 67.

Tipcolite Phenolic Type Quality Moulding Powders and Synthetic Resins

Available in various shades for general purpose and improved Grade for Electrical Accessories.

TIPCO

The Industrial Plastics Corp., Ltd.

Rajabahadur Mansion, 14, Hamam St., Fort, Bombay 1

Grams :	Phones :
Office 'PLASTICO', BOMBAY	Office 253035
Factory 'TIPCO', MALAD	Factory 84157

Industrial Plastics & Machinery Co.—Vithal Sayana Building No. 1, Lohar Street, Bombay 2.

Iwacom Private Limited.—204, Dr. Dadabhai Naoroji Road, Fort, Bombay.

JAGDHIR DESAI & CO.—13, Gunbow Street, Fort. Grams : "ALLNOVEL." Phone : 264352. Plastic Dealers and Manufacturers of "Exchequer" Stitchless Products.

JAI HIND PLASTIC & RUBBER INDUSTRIES.—Tardeo Bridge (Lower), Near Diana Cinema, Bombay 7. Grams : "PLASTOPACK." Phone : 71615. Manufacturers of Polythene Sheetings, Tubings, Bags, Liners & Moulded Articles. Also P.V.C. Tubings, Slewings, Beadings, Glazings, etc.

J. J. Jhaveri Ltd.—Sir Vithaldas Chambers, Apollo Street, Fort.

Kapadia & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay 1.

Kisco India.—315, New Charni Road, Bombay 4.

Kosmek Private Ltd.—Cecil Court, Lansdowne Road, Apollo Bunder, Bombay 1.

LOTUS TRADING CO.—Office: 203, Kalbadevi Road, Bombay 2. Phone: 20035. Shop: 7, Satta Galli, Sheikh Memon Street, Bombay 2. Plastic Manufacturers' Representatives and Wholesale dealers, in plastics mainly Combs, household articles such as urea plates, cups, and saucers, kitchen bowl, tumblers, etc. Soap cases, containers, toys, etc. Sole Distributors for the Indian Plastics Ltd. (Bestolite) for Bombay State, Rajasthan & Madhya Pradesh.

Maganlal N. Manir.—63, 3rd Bhoiwada.

MAMAJI & SON (PRIVATE) LTD., Y. A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone : 71262. Grams : "MAMAJISON." Importers & Exporters, P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods and all kinds of Felt.

MARVIN & CO. PRIVATE LTD.—3, Modi Chambers, Kennedy Bridge, Bombay 4. Phone : 40448. Grams : "VINMAR." Mfrs. of Plastic Toys & Utility Articles.

MEKA SALES CORPORATION.—Ismail Building, 2nd Floor, Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 251180. Partners : J. C. Kothari and D. B. Mehta. Products : Gift Articles, Novelties, Die Makers in Plastics, Bakelite & Metal Cutting.

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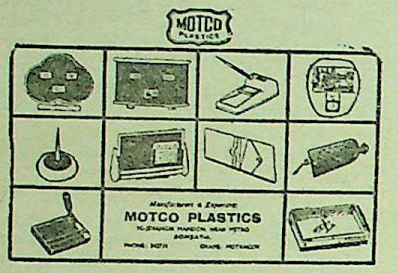
MONSANTO CHEMICALS OF INDIA PRIVATE LTD.—Wakefield House, Sprott Road, Ballard Estate, Bombay 1. Phone: 26-2624. Grams: "MONSANTO," Bombay. Branch Offices: Monsanto Chemicals of India Private Ltd., The Exchange, 5, Mission Row, 2nd Floor, Calcutta 1. (2) Monsanto Chemicals of India Private Ltd., 3/8, Ajmeri Gate Extn. Scheme, Near Turkman Gate, New Delhi.



Advertising Gifts Containers for Pharmaceutical & Cosmetic Industries

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MOTCO PLASTICS

1st Marine Street (near Metro Cinema), Bombay 1.
Phone: 242716 - Grams: "MOTANCOY"
Branches at: DELHI, JAIPUR, JODHPUR, HYDERABAD (Dn.)

NANAVATI PLASTICS CORPORATION.—Manufacturers of plastic goods. Office: Gurukul Chambers, 187/189, Mumbadevi Road, Bombay 2. Phone: 29162. Factory: Tejpal Road, Vile Parle (East), Bombay.

Newpack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.

NOBLE PLASTIC WORKS.—22, Mangesh Senoy Street, Fort, Bombay. Phone: 261172. Grams: "ROLLEDGOLD." Manufacturers of Plastic Umbrella Handles.

Norinco Ltd.—P.O. Box 871, Bombay 1.

Plastic Extruders Private Ltd.—204, Dr. Dadabhai Naoroji Road, Fort.

PODAR PLASTICS PRIVATE LTD.—Podar Chambers, Fort, Bombay 1. Telephone No. 259261. Grams: "ELECTRO." Manufacturers of Jay Buttons, Nylon Combs, Industrial Components in Nylon & other Materials, Electrical Accessories, Advertising, display and decorative items, household articles such as Combs, Bowls, Soap Boxes, Toys, etc. Factory: Suparibaugh Road, Parel T.T., Bombay 12. Phone: 63021.

PLUCK & CO. (Estd. 1902).—Sales Office: 415, Commerce House, Medows Street, Bombay 1. Phone: 251131. Grams: "INTERSEAS." Badges, Advertising Gifts like Key Chains, Paper Weights, Paper Cutters, Table Calendars, everything in soft plastics like wallets, Memo Pads, Files, Diaries, etc.

PREST-O-LITE.—104, Ghodbunder Road, Santa-Cruz, Bombay 54. Phone: 88197. 217, Cutlery Bazar, Janjikar Street, Bombay 3. Manufacturers of Combs, Toys, Utility & Industrial Articles.

RATNA-DEEP INDUSTRIES PRIVATE LTD.—Patel Estate, Goregaon (East), Bombay 62. Manufacturers of quality plastic articles, such as Industrial spares, household articles, etc.

Rubako Industries.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

Selwel Corporation.—Nakhuda Rogbay Market, 8, Nagdevi Street, Bombay 3.

SHAH PRATAP & CO.—Manufacturers of Components from laminated and Moulders of Plastics. 64, Old Customs House Road, Fort, Bombay. Phones: 255615 and 255616. Grams: "VINPRA."

Sonal Rangnow & Co.—41, Hamam Street, Fort.

SRINIVAS BROTHERS PRIVATE LTD.—No. 2, Nanabhai Lane, Fort, Bombay. Phone: 251254 (Office) and 63768 (Res.). Grams: "PLASMOULD." Managing Director: J. N. Iyer. Sole Agents for B.I.P. Chemicals Ltd., London for U. F. Moulding Powders and Resins; East Anglia Plastics Ltd., London for Cellulose Acetate Moulding Powder; Rattanchand Hargas Rai Plastics Private Ltd., 54, Industrial Area, Faridabad for Presrite Urea Formaldehyde Moulding Powder.

Sunder Mehta & Co.—413G, Vasantwadi, Kalbadevi Road, Bombay 2.

Totaldas, T.—Botawala Building, 51, Picket Road, Bombay 2.

Trading Co., L. R.—Navsari Chambers, opp. Lloyds Bank, Fort.

TRINITY PLASTICS.—Manufacturers of Plastic Moulds and Plastic Injection & Compression Moulders. Office: 246, Masjid Bunder Road, Bombay 3. Phones: Office: 39745. Res.: 77759. Grams: "SEVANTICO." Factory: 15/10, Peru Baug, Aarey Road, Goregaon East.

United Corporation.—National Indian Life Building, 59, Forbes Street, Fort.

United Cottage Industries.—Near Central Bank of India Ltd., Abdul Rehman Street, Bombay 3.

Vibha Industries.—Arches 2-3-4 under Mahalaxmi Bridge, opp. Race Course, Bombay 11.

VIJAY BAKELITE TRADING CO.—8 Chakla Street, Bombay 3. Phone: 30145. Grams: "BESTCAP." Manufacturers & Distributors of all kinds of Caps and Stoppers made of Polythene, Polystyrene, Bakelite & Rubber.

ZEPHYR LEATHER WORKS.—1st Floor, Sethna Building, Kitchen Garden Lane, Sheikh Memon Street, Bombay 2. Phone: 23803. Grams: "LOOSELEAF." Manufacturers of Plastic and Leather Goods, Specialists in Pocket Diaries, Wallets, Note Books, Telephone Books, Loose Leaf Files, Tender Files, and all sorts of Ultra-Modern Publicity cum Presentation Novelties. Also made to order according to specification.

PLAYING CARD MANUFACTURERS

LAXMI PLAYING CARDS MFG. CO.—23, Goa Street, Ballard Estate, Bombay 1. Phone: 263147. Grams: "LAXPICPLAY."

METRO PLAYING CARD CO.—Bellasis Road, Byculla Club Compound, Bombay 8. Phone: 75353. Grams: "METROFFSET." Quality playing cards manufacturers.

Pavri Sons & Co.—93-97, Bazargate Street, Fort.

POPULAR FINE ART LITHO WORKS PRIVATE LTD.—133-C, Vakola, Santacruz East, Bombay 55. Phone: 89530. Grams: "GOOLNAR."

Sahu Printers Ltd.—15/A, Elphinstone Circle, Fort, Bombay.

Sharda Paper Box Mfg. Co.—Motisha's Chawl, Gangadas Hall, Sheikh Memon Street, Bombay 2.

PLYWOOD MANUFACTURERS AND DEALERS

Abdoolally Noorbhoy.—122, Abdul Rehman Street, Bombay 3.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

Excel Importers.—89, Princess Street, Bombay 2.

FAKHRUDDIN & CO.—43, Abdul Rehman Street, Post Box No. 3066, Bombay 3. Phone No. 34534. Grams: "EXMETAL."

FINLAY, JAMES & CO. LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Post Box No. 73, Bombay 1. Phone Nos. 251255-59.

Getz (India) Ltd.—Western India House, Sir Phirozshah Mehta Road, Fort.

HINDUSTAN PLYWOOD & METAL DEPOT.—301, Shree Krishna Nivas, Corner of Abdul Rehman Street & Masjid Bunder Road, Bombay 3. Phone: 30041 Ext. 32. Grams: "PLYDEPOT." Wholesale & Retail Dealers in Teak, Walnut & Champ faced Block Board & Plywood, Hard Board, Masonite, Plywood, Teak Plywood, Insulation Soft Board, Folding Chairs, Chair Seats, Cement Sheets, etc.

INDIAN PLYWOOD MANUFACTURING CO. LTD.—9, Wallace Street, Post Box 1175, Fort, Bombay 1.

Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road.

Karimji Ebrahimji Arsiwala.—118-20, Abdul Rehman Street, Bombay 3.

Keshowdas Hassanand Karachiwala.—256, Masjid Bunder Road, Bombay 3.

MEHTA & CO.—35, Abdul Rehman Street, Pydhonie, Bombay 3. Phone: 22394. Grams: "QUALIFIED." Dealers & Stockists of Plywood, Teak Plywood, Block Boards and Decorative Boards, "Jolly" Board, Anil Hardboards, Insulation Board and Tempered Masonite Sheets, etc. Expanded Metal and all sorts of Wire nettings.

MAHOMEDALLY VALIJA ARSIWALA.—76, Abdul Rehman Street, Bombay 3. Phone: 38400. Dealers in all kinds of Plywood, Teakwood, Furniture Wood and also folding chairs.

Mody & Co., R. E.—Reay Road, Tank Bunder, Bombay 10.

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NASH & CO.—103, Abdul Rehman Street, Bombay 3. Govt. & Rly. Contractors and also Dealers in Plywood, Expanded Metal, Galvanised Brass, Copper Wire-nettings, Plain Zinc Sheets, Perforated Brass, Copper Zinc Sheets, Welded Mesh Green Wire-nettings, Asbestos Cement Sheets, Plain Corrugated Veneer Plywood, Masonite, Presswood, Woven Wire Fence and Wire-netting, Decorative Plywood for furniture as a Teak, Mahogany, Walnut in all sizes and thickness. Phone: 34968.

Phoenix Plywood Depot.—Prospect Chambers Annexe, Hornby Road, Fort.

PLYNET TRADERS.—Shahru Castle, Mohamedali Road, Bibijan Street, Bombay 3. Phone: Request 20770. Grams: "NETPLY," Bombay. Stockists & Dealers in Plywood, Hardboard, Insulation Board, Flush Door, Block Board (Commercial & Decorative), Teak Plywood, Cement Sheets (Plain & Roofing), and other allied building materials.

Premier Glass Traders.—74/78, Dhanji Street, Bombay 3.

Shah & Co., Jaliwala.—"Jaynivas." 36. Abdul Rehman Street, near Pydhonie, corner of Sutar Bazar, Bombay 3.

SUNDERLAL & CO.—121, Abdul Rehman Street, Bombay 3. Phone: 38504. Grams: "SUNDERJALI." Direct importers & Stockists of Plywood, Teak Plywood Block Boards, Asbestos Cement Sheets, Hard Boards, Measonite Boards, etc. Folding Chairs & Chairseats our speciality.

Tek Trading Corporation.—139, Abdul Rehman Street, Bombay 3.

Yusufali Goolamhoosen Arsiwalla.—105, Abdul Rehman Street, Bombay 3.

POLYTHENE BAGS & SHEETS

NATIONAL PAPER BAG CO.—168, Bhimpura, Chinch Bunder, Bombay 9. Phone: 73239. Grams: "PAPERBAG." Manufacturers of Paper Bags, Plastic Bags, Carrier Bags etc. with or without Printing.

Newpack Industries.—Lotus House, 33A, Marine Lines, Bombay 1.

POLYMER CORPORATION.—Manufacturers & Printers of 'HIPACK' brand Polyethylene bags and Liners, Tubular Film & Sheeting. The only manufacturers of Treated Polythene film. 70, Kansara Chawl, Kalbadevi Road, Bombay 2. Phones: Office: 76457 & Factory 84131. Grams: "WALKAL."

SELWEL CORPORATION.—Nakhuda Rogbay Market, 8, Nagdevi Street, Bombay 3.

TRIBHOVAN NEMCHAND & CO.—51, Bazargate Street, Fort, Bombay 1. Estd. 1911. Phone: 262261. Grams: "HONEYMOON."

PORCELAINWARE

C. P. Doshi & Co.—Bombay Mutual Building, Hornby Road, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay 1. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

National Scientific Instruments Co.—257, Frere Road, Fort, Bombay 1.

Nowroji N. Vakil & Co.—Branch at Shahru Castle, Mohamedalli Road. Bombay No. 3.

Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.

Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.

United Potteries & Glassware Mart.—Noble Chambers, Parsi Bazar Street, Fort.

POSTAL FRANKING MACHINES

KILBURN & CO. LTD.—Gresham Assurance House, Pherozshah Mehta Road, Bombay. Phone: 251908. Grams: "TASCONIUM."

PRECIOUS METALS REFINERS

NATIONAL REFINERY PRIVATE LTD.—Assay Laboratory & Refinery: 87, Tardeo Road, Bombay 7. Phone: 42795 & 75046. Grams: "ARGOR." Merchants' Bullion Melting & Assayings Division: 28, 1st Agiary Lane, Bombay 2 and 49, Dhanji Street, Bombay 2. Refiners, Melters & Assayers of Gold, Silver, Platinum and Palladium. Manufacturers of their alloys, Wires, Solders, Silver Nitrate and Silver Oxide. Various types of Medals and badges. Smelters & refiners of Goldsmiths' Sweeps & Furnace Drosses. Rerollers of Brass & Copper Sheets.

PRECISION TOOLS

Agarwal Commercial Corporation.—35, Bibijan Street, Nagdevi, Bombay 3.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 23193.

INDIA AUTOMATICS.—Factory: Universal Nut & Bolt Co.'s Compound, Falkland Bridge, Tardeo, Bombay 7. Phone: 241654. Manufacturers of Precision Work on Auto Screw Machines & Capstain Lathes for Aircrafts, Automobiles, Radios, etc.

Industrial Mill Gin Stores.—Industrial House, 51-53, Nagdevi Cross Lane, Bombay 3. Grams: "WIREGOODS."

M. MAHASUKHLAL & CO.—93, Narayan Dhuru Street, Bombay 3. Phone: 20326. Grams: "STEELBALL." Dealers in Engineering Tools, Precision and Measuring Instruments.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Importers & Stockists of Precision & Measuring Tools, Metal Cutting Tools, etc.

Rasiklal Shah & Co.—93, Narayan Dhuru Street, Bombay 3.

SUNDERLAL & SONS.—11, Narayan Dhuru Cross Lane, Bombay 3. Phone: 22847. Grams: "ALLWRENCH." Engineering, Precision & Metal Cutting Tools, Ball Bearings, Hardware & Mill Gin Stores Merchants.

PRESENTATION ARTICLES

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: "BRIBOS." Phone: 77454/55. Specialists in Plastic Gift Advertising Novelties.

CHIMANLAL MANCHAND & CO.—Silverwares, Antiques, Presentation Articles, Engine-turned Silverware. Central Government's Certified Valuers. Show Room:—Opp. Opera House, New Queen's Road. Phone: 30321. Grams: "PLATINUM."

Dattatray Industries Private Ltd.—Sitaram Bldg., Dadabhai Naoroji Road, Fort, Bombay.

EBRAHIM ALLIBHOY AND SONS (ESTD. 1934).—Importers and Exporters, 260-64, Abdul Rehman Street, Bombay 3. Phone: 38863.

Gazdar Ltd.,—Taj Mahal Hotel, Bombay.

Grand Bazar.—25, Colaba Causeway, Bombay 1.

HINDUSTAN HANDICRAFTS.—Shreenivas House, Waudby Road, Fort, Bombay 1. Phone: 263638. Grams: "SHUBHECHHA." Manufacturers and Exporters of Presentation Articles of Ivory, Sandalwood, Marble & Brass, Rosewood & Horn.

Hornby Fountain Pen Depot.—204, Hornby Road, Fort.

Jagatiani, M. K., & Sons.—Moolji Jetha Market, Ganeshwadi, First Floor, Shaik Memon Street.

Jhaveri & Co., Gordhandas K.—Oomrigar Building, opp. Crawford Market.

Jhaveri Bros. & Co. Ltd. (Established 1914).—Novelties and Gift Specialists. Three showrooms in the City. (1) 345, Abdul Rehman Street, Near Crawford Market, (2) Metro Cinema Building, Dhobi Talao, (3) Medows Street, Near Flora Fountain, Phone: 22096 (For all Branches). Grams: "GIFTS".

Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.

Lalit Jewellery Mart.—435, Lamington Road, near Opera House.

L. R. Trading Co.—Navsari Chambers, opp. Lloyds Bank, Outram Road, Fort.

Lund & Blockley Ltd.—150, Mahatma Gandhi Road, Fort, Bombay.

Marine Sports.—101, 1st Marine Street, Dhobi Talao, Bombay 2.

Motilal, M. Shah & Co.—Opp. Crawford Market, Bombay.

NAROTAMDAS BHAU (ESTD. 1864).—Jewellers, Specialists in Presentation and all possible novelty articles. Lamington Road, Bombay No. 4. Phone: 27333. Grams: "DASNAROTAM." Branch at: Sheikh Memon Street, Bombay. Phone: 20565.

Noble Jewellery Mart.—Capitol Cinema Bldg., Bori Bunder, Bombay 1.

Novelties, The.—Hughes Road, Bombay.

PLUCK & CO. (Estd. 1902).—Sales Office: 415, Commerce House, Medows Street, Bombay 1. Phone: 251131. Grams: "INTERSEAS." Badges, Advertising Gifts like Key Chains, Paper Weights, Paper Cutters, Table Calendars, everything in soft plastics like Wallets, Memo Pads, Files, Diaries, etc.

Railship Stores.—39, Medows Street, Fort.

Ruby & Co.—Opera House, Bombay No. 4.

Sharada Novelty House.—96, 3rd Bhoiwada, Bombay 2.

Sharda Stores.—Swadeshi Markets, Kalbadevi Road, Bombay 2.

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Shewakram & Sons (Jewellers).—315-317, Prospect Chambers, Hornby Road, Fort.
Spencer & Co., Ltd.—Forjett Street, Bombay 26.
United Cottage Industries.—Near Central Bank of India Ltd., Abdul Rehman Street, Bombay 3.
Weldon Jewellers Ltd.—Baria Building, opp. Crawford Market, Bombay 3.

ZEPHYR LEATHER WORKS.—1st Floor, Sethna Bldg., Kitchen Garden Lane, Sheikh Memon Street, Bombay 2. Phone: 23803, Grams: "LOOSELEAF." Manufacturers of Plastic and Leather Goods. Specialists in Pocket Diaries, Wallets, Note Books, Telephone Books, Loose Leaf Files, Tender Files, and all sorts of Ultra-Modern Publicity Cum Presentation Novelties. Also made to order according to specifications.

PRESSURE STOVES

Anglo-Oriental Light Co.—Peerbhoy Building, 89, Princess Street, Bombay 2.
Eastern Lights Company.—78, Lohar Chawl, Bombay 2.
Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
K. B. Mehta & Bros.—Lohar Chawl, Shreeji Bhuvan, 2nd Floor, Bombay 2.
L. C. Trading Co.—62, Lohar Chawl, Bombay 2.
Light House.—51, Kitchen Garden Lane, Shrijee Bhuvan, Bombay 2.

POCHEE, C.S., & SON (Estd. 1884).—586, Chira Bazar, Girgaum Road, Bombay 2. Phone: 30415. Grams: "GASMANTLES." Government & Railway Suppliers, Manufacturers of Pochee Incandescent Lanterns, Mantles, Regal Stoves & Blow Lamps & Industrial Heating Appliances.

Racek, F., & Co.—Lohar Street, Bombay 2.
Salemahomed Padamsee & Co.—141, Chakla Street, P.O. Box 3131, Bombay 3.
Shah, H. T., & Co.—Ahmed Building, Golpitha, Bombay 4.

PRINTING AND ANODISING

BIERI PRIVATE LTD.—Printing of Aluminium Sheets and Anodising in different colours. Office: "Cecil Court", Lansdowne Road, Apollo Bunder, Bombay 1. Phone: 212841 (2 lines).

PRINTING INK MANUFACTURERS

RAINBOW INK AND VARNISH MFG. CO. PRIVATE LTD.—133, Vakola, Santa Cruz (East), Bombay 55. Phone Nos. 88101 & 89530. Grams: "RAINBOINK."

PRINTING PRESS MATERIAL & MACHINERY

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VARNISH." Importers & Stockists of Stitching Wires in all Gauges used in Printing Presses.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.

BOMBAY CAST CRAFTERS.—Manufacturers of Printing Types on Monotype Machines, 40, Bank Street, Opp. Old Customs House, Bombay 1.

Bombay Letter Foundry Ltd.—7/A, Nikadwary Lane, Kandewadi Girgaum.

CAMA, NORTON & CO.—Cama Chambers, 23, Medows Street, Fort. Phone: 255354. Grams: "CAMANORTON."

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Sole Agents for Northern, Southern and Central India for Original Heidelberg Printing Machinery, Shreenivas House, Waudby Road, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Bangalore, Secunderabad and New Delhi.

Gujarat Trading Syndicate.—India House (Opp. G.P.O.), Fort Street, Fort, Bombay 1. Phone: 261248. Grams: "GUTRASY."
Gujarati Type Foundry.—196-B, Gaiwadi, Girgaum, Bombay 4.

GUNVANTRAY & COMPANY.—Crescent Chambers, 1st Floor, Room No. 2, Tamarind Lane, Fort, Bombay 1. Phone: 254684. Grams: "GUNARAYCO." Importers and Dealers in Letter Press, Litho, Offset, Process & Box Making Machineries, Materials, Spare Parts and Rubber Rollers suppliers.

Home Industries Corporation.—38-42, Shamset Street, Bombay 2.

INDO-EUROPEAN MACHINERY CO. PRIVATE LTD.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 263097. Grams: "PRINTSTOCK." Offices at Delhi, Calcutta and Madras.

J. B. A. Printing Inks Private Ltd.—Bombay-Agra Road, Bhandup, Bombay 78.

MANUBHAI, SONS & CO.—Manu Mansion, 16, Custom House Road, Fort, Bombay 1. Phones: 254551 & 254568. Grams: "SUNFLAMES."

METALLICA WORKS PRIVATE LTD.—11, Worli Road, Bombay 18. Phones: 75432, 75433, 75434. Makers of Non-Ferrous Metals, Castings, Machinings, Anodes, Lead Linings of Acid Resisting Containers.

Printing Materials Store.—89, Princess Street, Bombay 2.

Phone: 254455 **Grams: "INKOPRINT"**

RAJ & COMPANY

Savla Chambers, 40, Cawasji Patel Street, Fort, Bombay 1

Direct Importers of

Printing Machinery, Types, Inks, Roller Composition; *Latest requisites for Printing Presses:* "Cornerstone Quoins", "Lemm system Quoins", "Bacher Utensils", Lightweight Metal Furniture, Eyeletting, Hand & Automatic Machines, Punching Hand & Treadle

Agents for:

"Elephant" Brand Indian Paper Cutting Machines made in 26, 32 & 36 sizes. Power & Hand-drive arrangements

Rawlandson Bros. (Estd. 1927).—Parsee Bazar Street, Fort.
Subodh Indent Agency.—44, Kumarvillas, Mangalwadi, Girgaum.
Voltas Ltd.—19, Graham Road, Ballard Estate.
Yeshanand & Co.—Podar Chambers, Parsi Bazar Street, Fort.

PRINTING PRESSES

AHURA PRINTING PRESS

(ESTABLISHED 1920)

COMMERCIAL PRINTERS

(On Government approved List)

LENTIN CHAMBERS - DALAL STREET

BOMBAY 1

Telephone: 253422

Ahura Printing Press.—Lentin Chambers, Dalal Street, Fort.
Ajmal Printing Press.—Princess Building, J. J. Hospital.
Albert Printing Works.—Podar Chambers, Parsi Bazar Street, Fort.
Alliance Art Printing Works.—17, Benham Hall Lane.
Amrut Sagar Press.—54-58, Sheikh Memon Street.

APPEAL PRINTING PRESS.—129, Medows Street, Bombay 1. Phone: 252639. Specialists in printing Memorandum and Articles of Associations and Appeal Paper Books.

ASHOK PRINTING WORKS.—(Commercial Printers), 22/A, Parsee Bazar Street, Fort, Bombay 1. Phone: 255347.

ASIART PRINTERS.—1076, Haines Road, Worli, Bombay 18. For Cartons, Labels, Colour Folders, Designs. Tricolour Printing a Speciality.

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BOMBAY STATIONERY DEPOT PRINTING WORKS (FORT BOMBAY STATIONERY DEPOT).—Podar Chambers, Parsi Bazar Street, Bombay 1. Qualified Printers of Invitation Cards, Letterheads, etc. and Manufacturers of A/C Books, Rubber Stamps, etc. Book-Binding, Die and Copperplate Printing. Phone No. 252439.

Bombay Chronicle Press.—Red House, Parsi Bazar Street, Elphinstone Circle.

Bombay Letter Foundry Ltd.—7-A, Nickadwary Lane, Kandewadi, Bombay 4.

Bombay Press.—15 Store Lane, Homji Street, Opp. French Bank, Fort, Bombay.

Bombay Printing Works.—Podar Chambers, Parsi Bazar Street, Fort.

Bombay Samachar Press.—Parsi Bazar Street, Elphinstone Circle.

Bowen Press.—Sambava Chambers, 2nd Floor, Sir Phirozshah Mehta Road, Fort.

Caslon Printing Works.—Grahams Building, 74, Homji Street, Fort.

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Commercial Printing Press Private Ltd.—34/38, Bank Street, Bombay 1.

COMMERCIAL STATIONERY & PRINTING MART, THE.—18-20, Cawasji Patel Street, Fort. Phone: 253175. Grams: "NOSHIR," Bombay.

Competition Press.—Dwarkadas Building, Benham Hall Lane.

CROWN ELECTRIC PRINTING WORKS.—111-A, Mahatma Gandhi Road, Fort, Bombay 1. Phone: 251437. Fine Art Printers, Calendar and Diary Manufacturers.

Crystal Stationery Mart.—109, Dhanji Street, Bombay 3.

Evergreen Syndicate.—19, Hamam Street, Fort.

Examiner Press.—Medows Street, Fort.

Fezisons.—Quality Printers, Rahimtoola House, Homji Street, Fort, Bombay.

Fort Office Printing Press.—94, Mint Road, Fort.

G.B.C. PRINTING WORKS.—Dossa House, Gunbow Street, Fort, Bombay.

Gangadhar Printing Press.—Haroon Rangari Chawl, near Western Rly. Station, Dadar.

Gem Printing Works.—Marine Chambers, Marine Lines.

Government Central Press.—Gardens, Charni Road.

Gutenberg Printing & Commercial Co., Ltd.—Raja Bahadur Bansilal Motilal Mansion, Apollo Street, Fort.

Hind Printing Works.—Opposite Kandewadi B.E.S.T. Sub-station, Girgaum.

IDEAL PRINTERS PRIVATE LIMITED, THE.—Office: Bell Building, Sir Phirozshah Mehta Road, Bombay. Phone: 253626. Works Unit No. 2, Asok Press, Zandu Pharmacy Compound, Gokhale Road, South, Bombay 28. Phone: 61976.

India Printing Works.—9, Bakehouse Lane, Fort.

Industrial Press.—9, Bastion Road, Fort.

Ismalli Printing Press.—Bhimpura, Dongri Street.

Jaiprakash Printing Press.—191-93, Samuel Street, Khoja Gully, Bombay 9.

Jam-e-Jamshed Printing Press.—Ballard House, Mangalore Street, Fort.

Jawahir Printing Press.—12, Kesowji Naik Road, Bombay 9.

Jawahir Printing Press.—234-36, Narsi Natha Street.

Kagzi Electric Printing Works.—Pydhonie Road, Khadak.

Kaiser-i-Hind Printing Press.—Old Sassoon Building, Elphinstone Circle, Fort.

Karnatak Art Printing Works.—Prospect Chambers Annexe, Hornby Road, Fort.

Karnatak Printing Press.—Karnatak House, Chira Bazar, Bombay 2.

Kothari Printing Press.—67, Apollo Street, Fort.

Lal Printing Press.—302, Kalbadevi Road.

Lalit Printing Press.—Shantinath Jain Temple Building, Pydhownie, Bombay 3.

Leaders' Press Private Ltd.—108, Love Lane, Mazagon, Bombay 10.

Lotus Art Printery.—7, Prospect Chambers, Hornby Road, Fort.

Marzban, J. B., & Co., Ltd.—Ballard House, Fort.

Mebasser Printing Works.—Laxmi Building, Ballard Road.

Mehta Printing Press.—73-77, Medows Street, Fort.

Mekda Corporation.—407, Kalbadevi Road, Bombay 2.

METRO PRINTING & LITHO WORKS.—275-279, Bellasis Road, Omar Jamal's Compound, Bombay 8. Phone: 75353. Grams: "METROFFSET." Quality Printers & Lithographers.

Metro Printing Press.—East & West Building, 49, Apollo Street.

Minerva Printing Press.—31, British Hotel Lane, Fort.

MODEL ART PRINTERY PRIVATE LTD.—Quality Printers. 4, Nanabhai Lane, Fort, Bombay. Phone: 252725.

MODERN STATIONERY & PRINTING WORKS (ESTD. 1941).—Sole Proprietor: Nazerhusein Kaderbhai, Bombay Mutual Annexe, 1st Floor, 17, Gunbow Street, Fort. Phone: 261986.

Motee Printing Works.—6, Lal Chimney, Lamington Road (North), Bombay 11.

Multiprint.—242-244, Bellasis Road, Byculla, Bombay.

Navyug Printing Press.—Portuguese Church Street, Dadar.

Nesbit Printing Works.—6-A, Nesbit Road (East), Bombay 10.

New Anand Sagar Printing Press.—204, Samuel Street, Vadgadi.

New Apollo Printing Works.—129, Medows Street, Fort.

New Era Printing Press.—7, Chowpatty Road.

NEW MANOHAR PRESS.—Designers, Printers and Boxmakers, Angrewadi, Vithalbhai Patel Road, Bombay 4. Tel.: 27754. Proprietor: Shri A. S. Shirodkar.

Nirnaya Sagar Press & Jawaji Dadaji Type Foundry.—26-28, Kolbhat Street, Bombay 2.

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PARAMOUNT PRINTING PRESS.—Lentin Chambers, Dalal Street, Fort, Bombay 1. Telephone No. 252731.

PHILPRESS.—Printers, Printing House, 28/D, Police Court Lane, Fort, Bombay 1. Phone: 261775. Grams: "PRINTMORE."

Phoenix Printing Works.—Great Western Building, Apollo Street, Fort. Phone: 23568.

Prakash Printing Press.—73, Apollo Street, Fort.

Premier Offset Works.—Swadeshi Mills Property, Charni Road, Girgaum.

Rafidain Printing Works.—3, Lalgir Chambers, Tamarind Lane, Fort.

Ramkrishna Printing Press.—Judex Building, Tribhuvan Road, Girgaum.

RELIANCE AGENCY PRIVATE LTD.—(Printing Dept.), Jupiter Printing Works, Raja Bahadur Compound, 24-B, Hamam Street, Bombay 1. Phone: 252187.

RISHON PRINTING WORKS.—21-23-25, Kumpta Street, Ballard Estate, Bombay 1. Phone: 262507. Grams: "GATEWAY." Commercial and Art Printers.

Rising Sun Printing Press.—6, Bodke Building, Dadar, Bombay 14.

Rowlandson Bros. (Estd. 1927).—Parsee Bazar Street, Fort.

Sadbhakti Prakash Printing Press Ltd.—12, Homji Street, Fort.

Sadu Ruling Press.—57, Sutar Chawl, Bombay 2.

Saeed Fine Art Printing Press.—Mahomedali Building, Mahomedali Road, Bombay 3.

Sanap Printing Press.—Sidharud Prasad, 362, Girgaum Road, near P.O., Thakurdwar.

Sanjvartman Press.—Peraj Building, British Hotel Lane, Fort.

Sarap Printing Press.—365, Girgaum Road, near Thakurdwar Post Office.

Sarya Ltd.—Prospect Chambers, Hornby Road, P.O. Box No. 439, Bombay 1.

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Satguru Printers Limited.—Podar Chambers, Parsi Bazar Street, Fort, Bombay. Commercial Printers.

Saxon Press.—43, Fort Street, near G.P.O., Bombay 1.

SHASHI ART PRINTING WORKS.—16, Ruby Mansion, Store Lane, Parsi Bazar St., Bombay 1. Phone: 26-4255.

Shree Laxmi Narayan Press.—364, Thakurdwar, Bombay 2.

Shreeram & Co.—Podar Chambers, 109, Parsee Bazar Street, Fort.

Shri Venkateshwar Steam Press.—7th Khetwadi, Bombay 4.

Standard Printing Works.—Rahimtoolla House, Homji Street.

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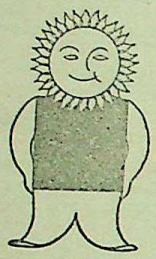

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TIMES OF INDIA PRESS, THE.—Times Building, Dr. Dadabhoy Naoroji Road, Fort.

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Vakil & Sons.—Narandas Building, Ballard Estate. Phone No. 23168. Grams: "Blade".

Victoria Press.—142-144, Victoria Road, Byculla.

Vijaya Art Printing Bureau.—Podar Chambers, 109, Parsi Bazar Street, Fort.

Vora Bros.—218, Princess Street, Bombay 2.

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Atlantic Stores.—Western Breeze Building, Colaba Causeway.

Bill & Co.—Empire Mahal, Tram Terminus, Dadar.

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Herbertsons, Ltd.—11-13, Elphinstone Road, Fort.

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J. L. Morison Son & Jones Co., Ltd.—Contractor Building, Ballard Estate, Bombay 1.

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Simms & Co., Ltd., P.—Sitaram Building, near Crawford Market.

Spencer & Co. Ltd.—Spencer's Building, Forjett Street, Bombay 26.

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Yazdani & Co., Ltd.—Sitaram Building, D. Naoroji Road.

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Bhogilal & Company, R.—261/263, D. Naoroji Road, Fort.

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British Engineering Co.—105, Apollo Street, Fort, Bombay 1.

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Audio Waves.—P.O. Box 480, G.P.O., Bombay 1.
Automobile Co., Ltd.—41, Queen's Road, Bombay 2.
Bell Radio & Electric Co.—Swadeshi Mills Estate, Tata Road, Girgaum.
Bharat Electric Supply Traders.—542, Sandhurst Bridge, Chowpatty, Bombay 7.
Bharat Radio Corporation.—404, Waghwadi, Kalbadevi, Bombay No. 2.

BIERE PRIVATE LTD.—Manufacturers of Radio decorative parts and precision articles. Office: "Cecil Court," Lansdowne Road, Apollo Bunder, Bombay 1. Phone: 212841 (2 lines).

Bombay Motors & Radios Ltd.—33, New Queen's Road.
Bombay Phono & General Agency.—520-22, Kalbadevi Road.
Bombay Radio Service.—First Floor, Prospect Chambers, Hornby Road, Fort.
British Radio & Electric Co.—Prospect Chambers, Hornby Road, Fort, Bombay.
Choice Radio.—Opp. Royal Opera House, Bombay 4.
Chopra Radio Electric Co.—Imperial Cinema Building, Lamington Road, Bombay 4.
Cinefones.—Opp. Opera House, 3, New Queen's Road.
City Radio Co.—Malabar Mansion, opp. Cusrow Baug, 37, Garden Road, Colaba.
Dominion Radios.—15, New Queen's Road, Bombay 4.
Eastern Electric & Engineering Co.—127, Mahatma Gandhi Road, Bombay 1.
Eastern Radio Corporation.—99A-2, Jenabai Building, Main Road, Dadar.
Eastern Radio & Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort, Bombay.

ELECTRONIC RADIO & SOUND CORPORATION.—394-B, Lamington Road, Lamington Chambers, Bombay 4. Phone: 72056. Grams: "TRANSOCEAN." Direct Importers in Radio Spare parts and other Accessories.

Economic Electric Co., Ltd., The.—Jail Road (East), Dongri Bombay 9.
Gehi Radio & Electric Corporation.—59-E, Gani Building, Mahomedally Road, opp. Musjid Bunder Road.
General Radio & Appliances Private Ltd. (Formerly Fazalbhoy Ltd.)—Opera House, Bombay 4. Phone: 26204.
Gramophone Co., Ltd.—Sir Phirozshah Mehta Road, Fort.
Impex Trading Co.—Kothari Mansion, opp. G.P.O.
Indian Electric Equipment Co.—220, Khetwadi Main Road, Tara Mansion, Bombay 4.
Indo-American Radio & Electronic Corporation.—Allana Compound Opp. Agripada Police Station, Lamington Road (North), Bombay 11.

J. V. MEHTA & CO.—Opera House, Bombay 4. Phone: 27065/66. Prop. Res. 74178. Grams: "JEVIMEHTA."

Lakhanpal Private Ltd.—29, New Queen's Road, Bombay 4.

LALWANI RADIO CORPORATION.—Office: 11, Tinwala Bldg., Tribhuwan Road, Bombay 4. Phone: 76324. Grams: "LALRADIO." Showroom Address: 390/A, Lamington Road, Opp. Swastik Cinema, Bombay 4. Branches: Calcutta 13, Madras 2, Bangalore 2, Delhi 6. Factory: Advance Industries, 11 Tinwala Building, Bombay 4.

LAXMIDAS & DWARKADAS (Estd. 1914).—466, Sardar V. P. Road, Bombay 4. Phone: 40692. Grams: "THYMOL." Makers of "Omega" Radios & Electronic Products.

MAXINE RADIOS.—8, Sakina Manzil, New Queen's Road, Bombay 4. Phone: 22900. Grams: "HEADPHONE." Manufacturers & exporters of Transformers, Amplifiers & other Electronic Equipment.

METRO MUSICS.—545, Kalbadevi Road, Bombay 2. Phone: 23775. Grams: "METMUSICS." Sole Manufacturing Concessionaires for METZ (German) Radios & Distributors "TRIOTRON" Radio parts & Valves.

Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.
Monitor Radios.—24, New Queen's Road, Opp. Roxy Talkies, Bombay 4.
Motwane (Private) Ltd., Incorporating Chicago Telephone & Radio Co. Private Ltd. (Estd. 1909).—127, Mahatma Gandhi Road, P. B. No. 1312, Fort, Bombay.

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Murphy Radio of India Ltd.—Dr. Shirodkar Road, off Hospital Avenue, Parel, Bombay.

NATIONAL EKCO RADIO & ENGINEERING CO. LTD.—Ewart House, Bruce Street, Fort, Bombay 1. Phone : 253015.

Paradise Radio Electric & Engineering Co.—Opp. Swimming Bath, 39, Seaface, Chowpatty, Bombay.

Parakh & Sons.—483, Kalbadevi Road, Bombay 2.

PARSRAM & CO.—65, Podar Chambers, Parsee Bazar Street, Fort, Bombay. Phone : 254289. Grams : "REKAM."

Precious Electric Co.—Yusuf Building, Churchgate Street, Fort.

Radio Services.—417-21, Lamington Road, next to Powells Ltd., Bombay No. 4.

RADIOCRAFTERS, THE.—Radio and Sound Engineers, Laud Mansion, opp. Charni Road Station, 21-C-D, Queen's Road. Phone No. 23006.

Ragavji & Co.—427, Kalbadevi Road, Bombay 2.

RAJA RADIO CO.—379/81, Lamington Road, Bombay 7. Estd. 1935. Phone : 70568. Importers & Mfrs. of Radio & Radio Spare Parts. H/o Bombay Clearing Agency. Prop.: Dwarkadas & Co., Clearing Agents : 384-M, Dabholkar Wadi, Kalbadevi Road, Bombay 2. Estd. 1920.

RAMESH TRADING CORPORATION.—419, Lamington Road, Bombay 4. Grams : "AMPLIFIER."

Rex Radio Amplifier & Cinema Service.—23, Kennedy Bridge, near Opera House.

Rhythm House Private Ltd.—40, Rampart Row, Bombay.

SHAH PRATAP & CO.—Manufacturers of Components from Laminated and moulders of Plastics. 64, Old Custom House Road, Fort, Bombay. Phones : 255615 and 255616. Grams : "VINPRA."

STANDARD RADIO CO., THE.—26, New Queen's Road, Opp. Roxy Talkies, Bombay. Phone : 30791. Grams : "STANRAD-CO." Sole Distributors : "Jhankar Radios" for the States of Maharashtra & M.P. Special Dealers for Philips Radios.

Star Radio Service.—Bhivandivala House, Gowalia Tank.

Star Radio & Engineers Ltd.—Parekh House, New Queen's Road, Bombay.

Sundarlal, C., & Co.—Manhar Building, 189, Lohar Chawl, Bombay 2.

Super Simplex Radio Co.—16, Harinivas, Lady Jamshedji Road, Bombay 28.

Supreme Electrical Engineering Co., Ltd.—Lady Jamshedji Road, Mahim, Bombay 16.

Surendra Trading Corporation.—159-2, Khetwadi Back Road, Bombay 4.

Talati, A. M., & Co.—Esmail Building, Hornby Road.

TELEFLUTE RADIO AGENCY.—Homji Street, off Sir Phirozshah Mehta Road, Fort, Bombay. Phone : 253358.

Unique Trading Corporation.—Mustafa Building, Sir Phirozshah Mehta Road, Fort.

United Engineering Corporation.—Datoobhoy Building, 5, New Queen's Road.

UNITED RADIO AGENCIES.—5, Sukhsagar, Sandhurst Bridge, Hughes Road, Bombay 4. Grams : "YOUAREY." Stockist of all Types of Valves, American & European and other parts for Radios, Radiograms, P.A. Equipments, Car Aerials, Suppressors & German Base Tapes, Sole Distributors for India for United Aerial Wires insulated and indoor and Simplex Solder Wire, H.O. 1681/5, Jogdhian Building, Delhi 6.

United Radio Service.—Padhy de Wadi, Bhawani Shanker Road, Dadar.

Universal Radio Co.—6, Ranee Building, Prarthana Samaj, Bombay 4.

WACO RADIO ELECTRONIC INDUSTRIES.—Office : 421, Lamington Road, Bombay 4. Phone : 71051. Factory : Ulhasnagar 4, Opp. Vithalwadi, C. Rly. St., Maharashtra State. Manufacturers of Sanyo Transistor Radios, Waco Radios, Amplifiers, Intercom equipments, Hi-Fi amplifiers, Ampligrams, Radiograms, Transformers, Chokes, Ballasts for Lamps and Wooden radio cabinets.

West End Radio.—385, Kalbadevi Road.

WESTERN AGENCIES' CO.—421, Lamington Road, Bombay 4, Phone : 71051, Grams : "WESTCOY". Branch : Bangalore. Engineers, Importers & Wholesalers of Radio Components, P. A. Equipment, Electric Appliances, Telecommunication Equipment, 'WACO' Radios, Amplifiers, Intercoms, Tape Recorders, Transformers, Chokes and Radio Cabinets.

RADIO COMPONENT & PARTS DEALERS

DOMINION RADIOS.—15, New Queen's Road, Bombay 4. Phone : 20993. Grams : "DOMIRA." Importers and distributors of all makes of Radios, Components and P.A. Equipments.

MULCHANDANI ELECTRICAL & RADIO INDUSTRIES LTD.—Manufacturers of Bush Radios, Celestion Speakers and Hunts capacitors, Sukh Sagar, Sandhurst Bridge, Hughes Road, Bombay 7. Phone : 74546. Grams : "MULRAIN."

MURPHY RADIO OF INDIA LTD.—Dr. Shirodkar Road, Parel, Bombay 12. Phone : 40074. Grams : "RADMURPHY." Mfrs. of Murphy Radio Receivers and Component parts.

Todi & Co.—Vishwa Mahal, C Road, Churchgate Reclamation, Bombay 1.

RAILWAY SIGNALLING EQUIPMENT

SEAGRAND & CO.—19, Arab Lane, Corner of Grant Road, Bombay 8. Phone : 78252. Grams : "RAILAMP." Manufacturers of Railway Signalling Equipment and Lamps, Marine Navigation Lamps (Kerosine & Electric), i.e. Ship Lamps, Stockists of Railway and Road Traffic Signalling Lenses, Roundles & other glasses.

RATING SURVEYORS

ARAS & ARAS.—Rating Surveyors and Municipal Tax Consultants, 24, Dalal Street, Bombay 1.

RAYON (RAW MATERIALS)

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate : Bangalore.

RAYON MACHINERY SUPPLIERS

DOBSON & BARLOW (RAYON PLANTS) PRIVATE LTD.—3rd Floor, Stadium House, Veer Nariman Road, Bombay 1. Phone : 245878. Suppliers of complete plants for the production of Continuous Filament Viscose Rayon, Staple Fibre and Transparent Paper.

READYMADE CLOTHES

Cawnpore Mills Depot.—"Churchgate House", Churchgate Street, Fort. Bombay.

Karnatak Concerns Ltd.—197, Shivaji Park. Bombay 28.

"Nanjis."—206-208, Carnac Road, Bombay 2.

Railship Stores.—39, Medows Street, Fort, Bombay.

WEAR (INDIA) PRIVATE LTD.—4th Floor, Nanabhay Mansion, Sir Phirozshah Mehta Road, Fort, Bombay 1. Grams : "READYWEAR." Phone : 265213. Sole Distributors (Bombay) for Samsons Dresses.

Weldon Shop.—Oomrigar Building, opp. Crawford Market, Bombay 3.

RECTIFIERS

HIND RECTIFIERS PRIVATE LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 265493. Grams : "HIRECT." Licenses of Westinghouse, Brake & Signal Co., Ltd., London, for Manufacture of Rectifiers, Battery Chargers, Electroplating Sets, Silicon Power Plants. Selling Agents : Kaycee Industries Ltd., Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone : 264030. Grams : "KAYCE."

REFRACTORIES

ALEXANDER & RAYMOND (BOMBAY).—43, Tamarind Lane, Fort, Post Box No. 1046, Bombay 1. Phone : Res. 87040, Office 253002. Grams : "REFRACTORY."

DATSON RAVIRAJ & CO. (PRIVATE) LTD.—43, Tamarind Lane, Fort. Phone : 254433. Grams : "DATNARE."

JONES, J. D., & CO. (BOMBAY) PRIVATE LTD.—Rustom Building, Veer Nariman Street, Fort, Bombay. Phone : 253520. Grams : "MICA."

REFRIGERATORS (DOMESTIC)

Blue Star Engineering Co.—Kasturi Building, J. Tata Road, Bombay 1.

Bombay Gas Co., Ltd.—214, Hornby Road, Fort.

Bombay Refrigerator Industries Private Ltd.—Opp. Charni Road Station, 21, Queen's Road, Bombay 4.

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Eastern Electric & Refrigeration Co.—14, Hamam Street, Fort.
Eastern Radio and Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort.
Economic Electric Co. Ltd.—Jail Road (East), Dongri, Bombay 9.

FREEZALL.—Air Conditioning, Refrigeration, Electrical & Mechanical Engineers, Tribhuvan Road, Bombay 4. Phone: 70815. Grams: "FREEZALL."

Gramophone Co., Ltd.—Universal Fire & General Insurance Co.'s Building, Sir Phirozshah Mehta Road, Fort.
Mangharam & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Modern Traders.—Post Box No. 1344, Bombay.

RADIOCRAFTERS, THE.—Refrigeration Engineers, Laud Mansion, opp. Charni Road Station, 21-C-D, Queen's Road, Bombay. Phone: 23006.

Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay. Phone No. 242577. Grams: "REFRIANCES".
Rhythm House Ltd.—40, Rampart Row, Fort, Bombay 1.

SPENCER & CO. LTD.—Spencers Building, Forjett Street, Bombay 26. Phone: 73261-62-63. Grams: "TORPEDOS." Sole Distributors throughout India for Kalvinator, Refrigerators & Air Conditioners, Sales and Service.

STAR FREEZ INDUSTRIES.—95, Marine Drive, Bombay 2. Phone: 241332. Manufacturing 5 and 8 cu. ft. "Graha-Ratna" Refrigerators, Water Cooling Plants, Cold Storages, Milk Coolers, Ice-Cream Freezers, etc. and undertakes Repairings of Refrigeration and Air-Conditioning Units & Plants with guarantees, anywhere in India.

REPRESENTATIVES (MANUFACTURERS)

Advani, G. V., & Co.—Prospect Chambers, Hornby Road, Fort.
Advani & Co., Ltd., J. B.—Advani Chambers, Top Floor, Sir Phirozshah Mehta Road, Fort.
Akbarally Ebrahimji.—38/C, Cowasji Patel Street, Fort, Bombay. Grams: "Tussibar."
Associated Agencies (Bombay).—47, Podar Chambers, Parsi Bazar Street, Fort.
Associated Corporation of Industries (India) Ltd.—Commerce House, Currimbhoy Road, Ballard Estate.
Bakshi Ram & Co.—129, Modi Street, Fort.
Batliboi, C. J., & Co.—319, Hornby Road, Fort.
Beardsell, W. A., & Co., Ltd.—Dhan-Nur Building, Sir Phirozshah Mehta Road, Fort.
Bhogilal & Company, R.—261/263, Hornby Road, Fort.
Birkmyre Brothers Ltd.—12, Rampart Row, Fort.
Bock, F., & Co.—Shale Building, Bank Street, Fort, Bombay.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
British Engineering Co.—105, Apollo Street, Fort.
Byramji, T., & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.
Chavannes & Co., Ltd.—Mercantile Chambers, Graham Road, Ballard Estate.
Chimanlal Desai & Co.—Gool Mansion, Homji Street, Fort.
Choksi, H., & Co.—106, Medows Street, Fort.
Chotani Electric & Engineering Co. Ltd.—57, Apollo Street, Fort, Bombay.
Corn Products Co. (India), Ltd.—Shreenivas House, Waudby Road, Fort.
Craftsman Electronic Corporation Ltd.—Alice Building, Hornby Road, Bombay.
Dali B. Shroff & Co.—361, Dr. Dadabhai Naoroji Road. Phone: 21465.
Deeth & Co., W. H.—P. O. Box 320, Bombay 1.
Denis Malcolm & Co., Ltd.—Kumud House, 267, Dr. Dadabhai Naoroji Road, Fort, Bombay.
Dodsal Limited.—Mafatlal House, Backbay Reclamation, Bombay 1.
Drewet Chowna & Co.—Lentin Chambers, Medows Street, Fort.
Dubash Freres & Co.—Victoria Building, Parsee Bazar Street, Fort.
Duncan Stratton & Co., Ltd.—5, Bank Street, Fort.
Dwarkadas & Sons Ltd.—Mehta House, 89, Apollo Street, Fort, Bombay.
Engineer, Eruch D., & Co.—Crossby House, Apollo Street, Fort, Bombay.
Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Fazalbhoy Ltd.—16, New Queen's Road, Bombay 4.
Feil, K. M. (Successors to L. A. Bund).—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.
Fereshaw, L., & Co.—Shirin Mansion, Sleater Road, Bombay 7.
Fleming Shaw & Co., Ltd.—Sorab House, 235, Hornby Road, Fort.
Forbes, Forbes, Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort.
Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort, Bombay.
Gaytee and Company.—Janmabhoomi Chambers, Fort Street, Fort. Grams: "IMPENG."
Gillanders Arbuthnot & Co., Ltd.—16, Queen's Road Estate, Bombay.
Gladwyn & Co.—Powvala Building, 251, Hornby Road, Fort.
Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.
Heatley and Gresham Ltd.—9, Forbes Street, Fort.
Jayems Engineering Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Keshavlal Talakchand.—India House, opp. G.P.O., Fort, Bombay. Phone: 32363. Grams: "CHANDRODAY."
Khatau Valabhdas & Co.—Indian Globe Chambers, Fort Street, Bombay 1.

LATHAM ABERCROMBIE & CO. PRIVATE LTD.—Forbes Bldg., Home Street, Fort, Bombay. Phone: 268081, Grams: "LATHAMS."

Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder.
Marshall Sons & Co. (India) Ltd.—Marshall Building, Ballard Estate, Fort.
Muller & Phipps (India) Ltd.—Queen's Mansions, Bastion Road, Fort.
Narvo.—IC-Hooseini Chambers, 4th Floor, Nanabhai Lane, Fort.
Ormerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P.O. Box No. 410.
Paramount (India) Ltd.—Kermani Building, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Parry & Co., Ltd.—United India Building, Sir Phirozshah Mehta Road, Fort.
Pioneer Consolidated Co. of India, Ltd.—Botawalla Building, 11-13, Elphinstone Circle, Fort.
Prince, H. L., & Sons.—9, Lily Court, Churchgate Reclamation, Bombay. Phone: 37441. Cable: "BRUNSVIGA."
Ratansi Morarji Ltd.—Prospect Chambers, 317-21, Hornby Road, Fort.
Refrigeration & Appliances Co. Private Ltd.—Pravin Court, 95, Queen's Road, Bombay 1.
Roberts McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Hornby Road, Fort.
Sethisons Ltd.—12, Rampart Row, Fort.
Somani & Company Ltd.—Mehta Building, Medows Street, Fort, Bombay.
Stoessel, W. R., & Co.—63, New Marine Lines, Fort. Grams: "ENTIRENESS."
Turner Hoare & Co. Ltd.—Gateway Building, Apollo Bunder, Fort, Bombay.
Vikram Padamsey & Co.—Rustom Building, 29, Veer Nariman Road, Fort.
Volkart Brothers.—19, Graham Road, Ballard Estate, Bombay.
Ward, Thos. W. (India) Ltd.—Marshall Building, Ballard Road, Fort.
Western India Engineering Corp. Ltd.—Cama Chambers, 23, Medows Street, Fort.
William Jacks & Co., Ltd.—Hamilton House, Ballard Estate, Fort.
Williams, G., & Co. Private Ltd.—Steelcrete House, Backbay Reclamation, Bombay 1.
Y. M. Pathare & Company.—Post Box 1428, 41, Medows Street, Bombay 1.
Yeshanand & Co.—Podar Chambers, Parsee Bazar Street, Fort.

RESPIRATORS (DUST PROTECTION) MFRS.

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phones: 264555 and 263795. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 345693. Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

RICE MERCHANTS

Abdul Sakur Umar Sahigara & Co.—Haji Habib Building, Koliwada Mandvi, Bombay 3.
A. H. Bhiwandiwalla & Co.—93-95, Kazi Syed Street, Bombay 3.
Anandji Bhojraj & Co.—116, New Chinch Bunder Road, Bombay 9.
Atul Krishna Dutt.—1, Russel Street, Bombay 9.
Baldeoram Saligram Private Ltd.—307-309, Kalbadevi Road, Bombay 2.
Bhailal Hargovind & Co.—256, Bhat Bazar.
Bhawanji Murji & Co.—220, Narsi Natha Street, Bombay 9.
Bhpatray Chandulal & Co.—75, Javeri Bazar, Bombay 2.
Bhpatray Kalidas & Co.—195, Samuel Street, Bombay 9.
Canji Dwarkadas.—45-47, Modi Street, Bombay 1.
Chhaganlal Tribhuwandas & Co.—104-14, Frere Road, Bombay 9.
Chandulal Kantilal.—725, Cotton Exchange Building, Bombay 2.
Chandulal Mohanlal.—3, Kumbhar Tukda, Ram Building, Bombay 4.
Chaterbhoj Naranji.—108, New Chinch Bunder Road, Bombay 9.
Chunilal Ambalal Patel.—116, Keshavji Naik Road, Bombay 9.

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D. H. Bharmal & Co.—27, Chinch Bunder Road, Bombay 9.
Damji Champshi & Co.—Bhat Bazar, Bombay 9.
Damji Devraj & Co.—246, Bhat Bazar, Bombay 9.
Damji Ramji & Co.—116, New Chinch Bunder Road, Bombay 9.
Damji Shamji & Co.—Ardeshir Mansion, Bhat Bazar, Bombay 9.
Devchand Gulabchand.—195, Khoja Galli Naka, Bombay 3.
Devji Khetsey & Co.—116, New Chinch Bunder, Bombay 9.
Devji Murji.—New Chinch Bunder Road, Bombay 9.
Devji Tokersey & Co.—30, Manordas Street, Bombay 1.
Devidayal Tulshiram.—Tulshiram Gupta Mill, Reay Road, Bombay 10.
Devji Dharamshi & Co.—116, New Chinch Bunder, Bombay 9.
Dharamshi Lalji.—305, Kharek Bazar, Bombay 3.
Doongersi Ganpat & Co.—229-231, Bhat Bazar, Bombay 9.
Dwarkadas & Co. Ltd.—Rajmahal, Bhuleshwar, Bombay 2.
Excellent Mercantile Bureau.—27 Chinch Bunder, Bombay 9.
Galla Warehousing & Co.—29, Bhat Bazar, Bombay 9.
Girish M. Katira.—118, Kalbadevi, Bombay 2.
Govindji Bharmal & Co.—77 Clive Road, Dana Bunder, Bombay 9.
Hasham Premji.—5, Ghoga Street, Bombay 1.
Harakhchand Vishanji & Co.—246, Bhat Bazar, Bombay 9.
Hareesh & Co.—116, New Chinch Bunder, Bombay 3.
Hathibhai Bulakhidas.—86, Masjid Bunder, Bombay 3.
Hemchand Premji & Co.—7, Keshavji Naik Road, Bombay 9.
Hirji Gelabhai & Bros.—Gaya Building, Masjid Bunder, Bombay 3.
Hirjee Ladhabhai & Co.—116, New Chinch Bunder, Bombay 9.
Ibrahim Yusuf Zainal Alireza.—Sitaram Building, 'D' Block, 3rd Floor, Bombay 1.
Indo-Asiatic Export & Import Corp.—468, Kalbadevi, Bombay 2.
J. Nagindas & Co.—36, Kazi Syed Street, Bombay 2.
J. Prabhudas & Co.—25, Dabda Galli, Masjid Bunder Road, Bombay 3.
Jamnadas Jivram & Co.—229, Kariyana Bazar, 1st Floor, Bombay 3.
Jayantilal Hansraj & Co.—220, Bhat Bazat, Bombay 9.
Jayantilal Vishanji & Co.—19, Chinch Bunder, Bombay 9.
Jiwanlal Lalubhai & Co.—Jakeria Building, Sherif Dewaji Street, Bombay 3.
Kancharla Mohanrao & Bros.—43, Princess Street, Bombay 2.
Kanji Morarji Thacker.—285-87, Narsi Natha Street, Bombay 9.
Kanji Velji.—74-76, Khand Bazar, Bombay 3.
Khetshi Chaterbhuj & Co.—9, Chinch Bunder Road, Bombay 9.
Khimji Poonja & Co.—19-21, Dalal Street, Bombay 1.
Khimji Ranchhoddas.—Chandra Bhuvan, Narsi Natha Street, Bombay 9.
Kishorchandra & Co.—34, Shri Ram Market, Bombay 3.
Kurpal Harsey & Co.—116, New Chinch Bunder, Bombay 9.
Kusumchandra Kirtikumar.—118, New Chinch Bunder, Bombay 9.
Lalji Devji & Co.—254, Bhat Bazar, Bombay 9.
Lalji Poonshi & Co.—3, Chinch Bunder, Bombay 9.
Manohar & Co.— 229-31, Bhat Bazar, Bombay 9.
Manordas Himatlal.—104-114, Sugar Market, Bombay 9.
Mansukhlal Bhavanji & Co.—278, Narsi Natha Street, Bombay 9.
Murji Devshi & Co.—116, New Chinch Bunder, Bombay 9.
Nagindas Mulji & Co.—35, Esaji Street, Bombay 3.
Nanji Hirji & Co.—112, New Chinch Bunder, Bombay 9.
Nanji Shamji & Co.—116, New Chinch Bunder, Bombay 9.
Odhavji Shivji Joshi.—233-35, Bhat Bazar, Bombay 9.
Parekh & Co.—104-40, Sugar Market, Bombay 9.
Parasram Parumal & Co.—104-114, Frere Road, Bombay 9.
Pasu Anand & Co.—4, Chinch Bunder, Bombay 9.
Poonja Thakersey & Co.—116, New Chinch Bunder, Bombay 9.
Popatlal Dalpatlal & Co.—28, Moodi Bazar, Bombay 3.
Premji Haridas & Co.—168, Argyle Road, Bansali Chamber, Bombay 9.
Premji Karabhai Thaker.—72, Kalyan Street, Bombay 9.
Premji Pragji Dharamshi.—263, Samuel Street, Vadgadi, Bombay 3.
Purushottam Surchand.—126-34, Argyle Road, Bombay 9.
Ranchhoddas Jethabhai & Co.—262-270, Narsi Natha Street, Bombay 9.
Rashiklal Chunilal & Co.—195, Samuel Street, Bombay 3.
Ratanshi Murji.—3, Chinch Bunder Road, Bombay 9.
Ravjibhai Dahyabhai & Co.—109A, Old Hanuman Galli, Princess Street, Bombay 2.
Ravji Javerchand & Co.—75, Javeri Bazar, Bombay 2.
Rawji Dhanji & Co.—21, Chinch Bunder Road, Bombay 9.
Saurashtra Trading Co.—137-141, Samuel Street, 2nd Floor, Bombay 9.
Shamji Rawji & Co.—116, New Chinch Bunder Road, Bombay 9.
Shamji Velji & Co.—228, Narsi Natha Street, Bombay 9.
Shantilal Bros.—77, Clive Road, Dana Bunder, Bombay 9.
Shantilal Hirji & Co.—110, Chinch Bunder Road, Bombay 9.
Shantilal Karamshi & Co.—69, Frere Road, Sugar Market, Bombay 9.
Shantilal Khimji.—Gaya Building, Bombay 3.
Shankerlal Rasiklal.—Diamond Building, Lohar Chawl, Bombay 2.
Shivlal Deshai & Sons.—70, New Stock Exchange Building, Bombay 1.
Talakshi Ramji & Co.—229-31, Bhat Bazar, Bombay 9.
Tarachand Doongershi & Co.—224, Bhat Bazar, Bombay 9.
The Motipur Sugar Factory Ltd.—164-66, Kambekar Street, Bombay 3.
Umiashanker Ramji & Co.—Rayan Grain Market, 'K' Galli, Bombay 9.
Valabdas Jeram & Co.—285, Narshi Natha Street, Bombay 9.
Vasantlal Govindji & Co.—384, Kalbadevi Road, Bombay 2.
Vasantkumar Virji & Co.—21, Keshavji Naik Road, Bombay 9.
Velji Lakhamshi & Co.—83, Clive Road, Dana Bunder, Bombay 9.
Velji Rawji & Co.—12-14, Kazi Syed Street, Bombay 3.
Virji Dahya & Co.—116, New Chinch Bunder Road, Bombay 9.
Virji Devji & Co.—168, Dongri Street, Bombay 9.
Vishanji Ladhabhai.—113, New Chinch Bunder, Bombay 9.
Vradhichand Shamji & Co.—Dana Bunder, 'E' Galli, Bombay 9.

ROAD ASPHALTING ACCESSORIES

EVERGREEN CORPORATION.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 2. Grams : "GREENLEAVE." Aprons, Gloves, Helmets, Road Boilers Spray Buckets, Ghamellas, Hammers.

ROAD BUILDING CONTRACTORS

Shah Construction Co. Ltd.—198, Jamshedji Tata Road, Bombay 1. Phone : 245044 (3 lines) Grams : "SUPERTRADE."

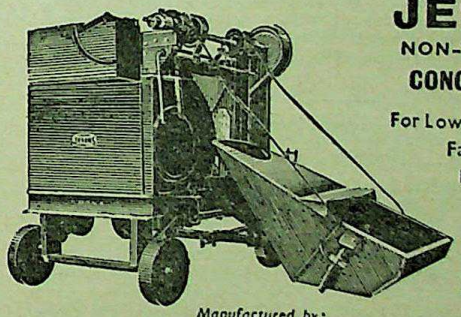
ROAD BUILDING & CONSTRUCTION MACHINERY

ORIENTAL ENGINEERING CO.—25, Forbes Street, Fort, Bombay 1. Phone : 253057. Grams : "ADIVISHNU." Dealers in Second-hand Road Rollers, Stone Crushers, Air-compressors, Concrete & Pan Mixers.

ROAD BUILDING MACHINERY

Associated Machine & Tool Co.—130, Medows Street, Fort.
Balmer Lawrie & Co., Ltd.—Ballard Estate, Bombay 1.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Jacks, William & Co. Ltd.—Hamilton House, Graham Road, Ballard Estate, Fort.

JOHN FOWLER (INDIA) LTD.—Marshalls Building, Ballard Road, Bombay 1. Phone : 263059. Grams : "TRACTION." Road Building & Construction Machinery Merchants.



JESONS
NON-TILTING TYPE
CONCRETE MIXER
For Lower Maintenance
Fast Mixing cycle
Better concrete
Easy to handle
Longer life
GEAR & CHAIN
SYSTEM OF DRIVE
Approx. output
280 c. ft. per hour

Manufactured by:
JAIRAMDAS & SONS
7937, Ranigunj, Secundrabad · Bombay · Bangalore · Delhi · Madras

Killick, Nixon & Co., Ltd.—Home Street, Fort, Bombay 1.
Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
Lusob Trading Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.

MILLARS' TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 27.

NATIONAL ASPHALT PRODUCTS & CONSTRUCTION CO.—Hill View, Mahul Road, Chembur, Bombay 71. Dealers in Construction Equipment, Dozers, Graders, Rollers, Mixers, etc. Phone : 63037. Grams : "NASHASFALT."

Tropical Engineering Co.—27, Forbes St., Fort, Bombay 1. Grams : "TROPENCO." Importers of and Stockists in Electric Motors, Generating Sets, Turbines, Locomotives, Stone Crushers, Road Rollers etc.
Voltas Limited.—19, Graham Road, Ballard Estate.
Ward, Thos., W. (India) Ltd.—Marshall's Building, Ballard Road, Fort.

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ROLLING SHUTTERS MANUFACTURERS

BOMBAY ROLLING SHUTTERS AND ENGINEERING WORKS.—Manufacturers of Rolling Shutters, Steel Windows, Grills, etc. Mansukh Nivas, 2nd Floor, 188, Khetwadi Back Road, Bombay 4. Phone : 76389. Grams : "STEELFRAME." Factory : Vihar Road, Saki Naka, Kurla, Bombay 37. Phone : 86921.

Hercules Rolling Shutters Private Ltd.—250, Argyle Road, Bombay 9.

National Engineering Works.—Khed Gully, Bombay 28.

PLYNET TRADERS.—Shahru Castle, Mohamedali Road, Bibijan Street, Bombay 3. Phone : Request 20770. Grams : "NETPLY." Manufacturers of "RAKSHAK" Rolling Shutters, Rolling Grill, Collapsible Gate, Ornamental Grill, and all kinds of fencings.

Shaparia Dock & Steel Co., Ltd.—Sewri Fort Road, Bombay 15.

Standard Rolling Shutters & Engineering Works.—37, A.B.E. Parel Road Cross Lane, Bombay 12.

SENTINEL ROLLING SHUTTERS & ENGINEERING CO.—96, Bora Bazar Street, Fort, Bombay 1. Phone : 262019. Grams: "DARWAJA." Manufacturers of Rolling Shutters, Collapsible Gates. Fire-Proof Doors & Steel Windows, etc.

SHUBHDWAR ROLLING SHUTTERS & ENGINEERING CO.—15, Bank Street, Fort, Bombay. Phone : 254185. Grams : "SHUBHROLL." Manufacturers of Steel and Aluminium Rolling Shutters, Window grills, Collapsible gates and all types of steel fabrication Works, Silver tipped electrical Contacts and Dealers in machinery.

SWASTIK ROLLING SHUTTERS & ENGINEERING WORKS.—Opp. C. Rly. Station, Parel, Bombay 12. Phone : 62041. Grams : "SWASTIKROL."

ROOF WATERPROOFING

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. Phone : 251517 8. Grams : "DERAC." Waterproofing Specialists. Manufacturers of the dual-purpose Thermocole which insulates as it waterproofs.

GLADSTONE LYALL & CO., LTD.—21, Lansdowne Road, Apollo Bunder, Bombay 1. Grams : "GLADSWYLL." Bombay Manager : Cmdr. J. B. Simmons, Regd. Office : 4, Fairlie Place, Calcutta.

SHALIMAR TAR PRODUCTS (1935) LTD.—16, Bank Street, Fort, Bombay 1. Phone : 252185. Grams : "TARSTIL." Specialists in Roof Waterproofing, Damp-proofing, Flooring, Decking, Canal Linings, etc. Contracts executed under guarantee.

ROPERIES

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

ADAMJI KADERBHOY.—Post Box No. 5046, 337, Katha Bazar, Bombay 9. Tel. No. 39085. Grams : "RAJKOTWALA." Manufacturers and Stockists of Cordage, Manila Coir, Hemp & Cotton Ropes. Approved Contractors to Govt., Rlys. and Steamship Companies. Exporters of Coir Products. Selling Agents for : The Ganges Rope Co., Ltd., Calcutta.

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

CHANDULAL & CO., KATHAWALLA.—11, Kazi Sayed Street, Bombay 9. Grams : "CORDCOIR". Phone : 71298.

Fatabhai, K. S., & Co.—129, Nagdevi Street, Bombay 3.

G. J. RASSIWALLA ROPE FACTORY.—Factory : 44, Clare Road, Bombay 8. Shop : 6-7, Maskati House, Mohamedali Road, Bombay 3. Phones : 40481, 22153. Telegraphic Address : "ROPETAPE," Byculla, Bombay.

GOVINDJI PADAMSHI KATHAWALA (Katha Dept. Estd. 1931).—371-73, Katha Bazar, Bombay 9. Phone : 27718. Grams : "KATHAWALA." Dealers in Coir Yarn, Fibre, Ropes, Bamboo Mats, Khajuri Mats, Coir Mats & Strings, etc.

Mohamedbhoy, H., & Co.—114-116, Bhajipala Lane, Bombay 3.

Premji Haridas & Co.—Bhanusali Chambers, 168, Argyle Road, Bombay 9.

RASIWALLA & CO., M. M. A.—17, Janjikar Street, Huseinbhai Building, Mandvi, Bombay 3. Phone : 29550. Grams : "TWIST." Manufacturers of Cotton Ropes, Thread and Twine, and Dealing in Fish Hooks and Hemp Twine, Plastic Fishing Lines and Sail Needles.

Star Rope Works, The.—87, Sun Mill Road, Lower Parel, Bombay 13.

Talib & Co.—Talib House, 104, Nagdevi Street, Bombay 3.

THANA TEXTILE ROPE WORKS.—"Sun Brand" Pink Ply Cotton Rope Manufacturers and Merchants. Crescent Chambers, Tamarind Lane, Fort, Bombay 1. Grams : "ROPEDRIVE." Works : Bombay-Agra Road, Thana (C.R.).

Thanawala, B., & Sons, Ltd.—47, Tamarind Lane, Fort.

TODI & CO.—Vishwa Mahal, C Road, Backbay Reclamation, Bombay 1. Phone : 241654. Grams : "OFFER." Manufacturers of Driving Cotton Ropes, Bandings, Cordages, Twines, Spindle Tapes, Webbings, Cotton Tape, Wicks, Tubular & Bundle Bandings, Braidings and Art Silk Tapes. Nylon Radio Dial Cord, Dawn Nylon Dental Engine Cord and Braiding Tinner Copper.

ROSIN AND TURPENTINE

BOMBAY ROSIN & TURPENTINE CO.—76, Podar Chambers, Parsi Bazar Street, G.P.O. Box 1512, Bombay 1. Grams : "RAJGANGA." Phone : 253587. Manufacturers Agents, Suppliers & Exporters of Rosin, Oils, Varnishes, Shellac, Glues, Disinfectants and all Chemicals to Mills & Factories. Agents & Distributors : Haward Rosin Chemicals, Nepal ; National Rosin & Turpentine Factory, Punjab. Local Sales Office : Meghji Building Compound, Near Wallace Flour Mill, Mazgaon, Bombay.

Bombay Rosin Corporation.—181, Samuel Street, Mandvi, Bombay 9.

Phone : 34418. Grams : "THREESTARS"

H. P. TULSIDAS & CO. | **HEM INDUSTRIES**

332, Katha Bazar, Bombay 9.

Dealers in :

COAL TAR, COALPITCH,
HEAVY AND LIGHT CREOSOTE OIL,
NAPHTHALENE BALLS,
ROSIN, TURPENTINE, VARNISH,
RED LEAD AND CHEMICALS.

Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.

PRABHAT GENERAL AGENCIES.—195, Kalbadevi Road, Bombay 2. Phone : 20359. Grams : "EXPANSION."

UNIVERSAL TRADERS.—Himalaya House, Phalton Road, Bombay 1. Phone : 265426. Grams : "UNICHEMS." Direct Importers and Stockists of all grades of Rosin, Turpentine and Industrial Chemicals. Branch at Surat.

RUBBER GOODS MANUFACTURERS

Apex Traders.—Advani Chambers, Sir Pherozshah Mehta Road, Fort.

Arco Agencies.—Bam House, Gunbow Street, Fort, Bombay 1.

ASSOCIATED RUBBER INDUSTRIES LTD.—Union Bank Bldg., 4th Floor, Apollo Street, Bombay 1. Phone : 254627. Grams : "RUBBERWORK." Manufacturers of Rubber Products for automobile assemblers, Rubber & Ebonite parts, Moulded, Extruded Rubber goods, Rubber Soled Canvas Footwear and Dipped Latex goods such as Surgeon Gloves, etc.

Cosmos India Rubber Works, Ltd.—7, Homji Street, Fort.

DIAL RUBBER WORKS.—Factory : Goregaon East, Bombay S.D., Sales Office : 12/14, Champa Galli, Zaveri Bazar, Bombay 2. Manufacturers of Acid & Alkali Proof Rubber Hand Gloves, Post Mortem Gloves, Surgeon's Gloves, Canvassed lined gloves and Rubber Aprons. Grams : "QUOTATION." Phone : 38891.

DIAMOND RUBBER WORKS (PRIVATE) LTD.—276, Nagdevi Street, Bombay 3. Phone : 20719. Grams : "COMRADE." Manufacturers of Electrical Wires & Cables, Rubber Hose pipes; suction delivery, armoured suction & delivery, Heel & Soles, rubber Tubings.

Dunlop Rubber Co. (India) Ltd.—Dunlop House, Hughes Road.

EASTERN STORES & TRADING CO. PRIVATE LTD.—115, Nagdevi Street, Bombay 3. Phones : 30065 and 30066. Grams : "ENERGY."

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EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Importers and Exporters. 260-64, Abdul Rehman Street, Bombay 3. Phone : 38863.

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

Ghia, B. L.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

Great Eastern Trading Co.—107, Cawasji Patel Street, Fort.

Harivadan S. Dholabhai.—21A, West View, 10th Khetwadi, Bombay 4. Suppliers of Rubber Stamps, Blocks, Cinema Slides and Embossing Dyes.

HIND RUBBER INDUSTRIES PRIVATE LTD.—Suryodaya Mills Compound, Tardeo, Bombay 7. Phone : 41509. Grams : "HINDRUBBER." Manufacturers of Moulded and extruded rubber goods such as Bicycle Pedal Rubbers, Brake Rubbers, Seat Covers, Reflectors; Solid Tyres and Rubber Accessories for Tricycles & Perambulators; Solid Tyres for Trollies, Complete Trolley Wheels and various industrial rubber goods required by Railways, Mills, Power Houses, etc. Managing Director : Shri Shankarlal G. Jhunjhunwalla.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.

International Rubber & General Industries Private Ltd.—24, Argyle Road, Wadi Bunder, Bombay 9.

Jai Hind Rubber Products, Ltd.—391F, Grant Road, Bombay 7.

KAMAL RUBBER WORKS PRIVATE LTD.—71, New Citizen Bank House, Palton Road, Bombay 1. Phone : 262775. Grams : "GUBBARA." Factory : Mahul Road, Chembur. Manufacturers of Highclass rubber balloons, toys etc.

Kapadia Brothers.—Kalan Building No. 3, Kandewadi, Bombay 4.

Kishore Rubber Industries.—Suryodaya Mills Compound, Tardeo, Bombay 7.

KORULA RUBBER CO. PRIVATE LTD.—Manufacturers of Latex Foam Cushions, Telecord Cables, Automobile parts, Rubber Lined Tanks, Industrial Rubber Goods, Gloves & Pharmaceutical Rubber Goods. 249, Worli, Bombay 18. Phone : 41950. Grams : "ZIRCON," Bombay.

PHONE : 29740 GRAMS : "YOUTH"

MERCHANT BROTHERS

151, NAGDEVI STREET, BOMBAY 3

Importers & Manufacturers' Representatives

Rubber Hose, Beltings, V-Belts, Trolley Wheels, Fire-fighting Equipment, Mechanical handling Equipment, Rubber Sheets, Insertions, Rubber Gloves, Gum-Boots, Plastic Pipes & Fittings, Oil Resistant Neoprene Sheet & Other Moulded Parts, etc.

TRADE INQUIRIES INVITED

MODAK RUBBER PRODUCTS PRIVATE LTD.—Managing Directors : Shri K. V. Modak & Dr. K. N. Modak. Registered Office & Factory : Verma's Building, Golanjee Hill Road, Sewree, Bombay 15. Phone : 62139. Grams : "MODRUB." Manufacturers of all types of Industrial & Pharmaceutical moulded and extruded Rubber goods to specification in natural & Synthetic Rubber. Also manufacturers of Automobile and Railway requirements.

ORIENTAL RUBBER INDUSTRIES PRIVATE LTD.—United Bank of India Bldg., 6th Floor, Sir Phirozshah Mehta Road, Bombay 1. Phone : Office : 254028. Grams : "ORIENRUBER." Manufacturers of "Oriental", "LIBRA" & "RITTA" Rubber Beltings, Suction, Delivery, Pneumatic & Vacuum Hoses, Rubber Sheetings and all kinds of Mech. & Moulded Rubber Goods & Cycle Tyres & Tubes. Managing Director : Shri Jaichand. Phone : No. 251227.

Paradise Trading Corporation.—73/75, Tamarind Lane, Fort, Bombay 1.

PREMIER RUBBER & CABLE INDUSTRIES.—Jamal Building, 211, Nagdevi Street, Bombay 3. Phone : 38551. Grams : "RUBERGOODS." Manufacturers of quality Rubber Goods such as 'PREMIER' Cycle and Rickshaw Tyres and "PREMEX" Tubes, Rubber Hose Pipes (Delivery & Suction), Petrol and Oil resisting Hose Pipes, Rubberised Texture Cloth, Rubber Beltings, Moulded and extruded articles.

ROYAL HARDWARE MART.—108, Nagdevi Street, Bombay 3. Phone : 38821. Grams : "MANILAROPE."

RUBBER INDUSTRIES (INDIA).—Works at Kurla Road, Andheri. Phone : 86214. Office : 243, Abdul Rehman Street, Bombay 3. Grams : "RUBINTEX," Bombay. Phones : 39096 and 38517.

Sandow Traders.—117, Medows Street, Fort, Bombay.

SANITARY RUBBER MANUFACTURING CO.—17/G, Cawasji Patel Street, Fort, Bombay 1. Grams : "RUBBERFLO." Manufacturers of quality Latex products such as Contraceptives, surgical gloves, balloons, teats, nipples and rubber thread. Phone : (Res.) 80163.

SORABJI D. DARUWALLA.—Round Building, Kalbadevi Road. Sole Agents : East India Rubber Works Ltd., Calcutta. Manufacturers of all kinds of Rubber Goods, Ebonite Sheets and Rods, Moulded Rubber goods. Direct Importers of Surgical, Mechanical and Technical Rubber Goods. Phone : 30348. Grams : "REDCROWN."

Standard Rubber Corporation, The.—81, Esplanade Mansion, Mahatma Gandhi Road, Fort, Bombay.

Supreme Industries Ltd.—Sewree Cross Road, Wadala, Bombay.

THE HINDUSTAN TYRES PRIVATE LTD.—Manufacturers of all kinds of Rubber and Ebonite Goods and Retreaders of Tyres, Lamington Road (North), opp. Agripada Police Station, Bombay 11. Phone : 42821. Grams : "TYRES."

VITHAL MAHADEO & CO. (ESTD. 1923).—109, Nagdevi Street, Bombay 3. Suppliers to Mills & Factories. Manufacturers of Industrial Rubber, Fibre, Ebonite & Leather goods. Specialists in Boiler Asbestos Rings, Leather-Ram Rings & Leather Buckets.

WALL GROCER & CO.—Rajbahadur Mansion Comp., 24-B, Hamam Street, Bombay 1. Phone : 254590. Sole Selling Agents : Manu : Asha Rubber Industries, Bombay. Manufacturers of Acid & Alkali Proof Industrial, Post-mortem, Domestic & Surgeon Rubber Gloves.

West India Company.—Behramji Mansion, Sir Phirozshah Mehta Road, Fort.

RUBBER (RAW MATERIALS)

T. ROBERTS (INDIA) PRIVATE LTD.—160, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone : 265216. Grams : "TEEROBERTS." Dealers & Stockists of Raw Rubber, Reclaimed Rubber, Chemicals, Colours, Factice, etc.

RUBBER STAMP MAKERS

Ghaisas, G. J., & Co.—Ramchandra Building, Tram Terminus, Girgaum.

Goonanath, P.—Nana Shankar Seth's Wadi, Girgaum Road, Thakurdwar.

Kotkar, M. B., Bros.—373, Girgaum Road, Thakurdwar.

MANKAME BROTHERS.—Rubber Stamp Manufacturers, Engravers and Die-Sinkers, 406, Kalbadevi Road, Bombay 2. Phone : 23960. Grams : "SCULPSIT."

Masani & Co.—91, Medows Street, Fort.

Stewarts Laboratories.—327, Hornby Road, Fort.

Thacker & Co. Ltd.—18-20, Rampart Row, Fort.

Young India Stationery Mart.—43, Ghoga Street, Fort.

SADDLERS AND HARNESS MAKERS

Elgin Leatherwares, Ltd.—Nawab Building, 327, Hornby Road, opp. Thos. Cook & Son, Fort, Bombay.

Kamrudin Adamjee & Co.—135, Bhendi Bazar.

MAMAJI & SON (PRIVATE) LTD., Y.A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone : 71262. Grams : "MAMAJISON." Importers & Exporters; P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness goods & all kinds of Felt.

SAFETY WEAR FOR INDUSTRIAL WORKERS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phones : 264555 and 263795. Grams : "VIBHACO." Branch : G.P.O. Box 2628, Calcutta 1. Phone : 345693. Mfrs. of Industrial Safety Equipments, such as Goggles, Gloves, Dust Masks, Gas Protection Respirators, Aprons, etc.

SAFETY MATCHES

Western India Match Co., Ltd.—Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay.

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SAFFRON MERCHANTS

KHOSLA KESERWALA.—70, Masjid Bunder Road, Mandvi, Bombay 3. Grams: "KHOSLABROS." Phone: 73532. Sole Importers of "Ramain" Brand 100 per cent pure and best selected Saffron from Spain having largest nett sales in India. Wholesale and Retail merchants.

SALT MERCHANTS

BHIWANDIWALLA & CO., H. M. D. H.—583, Chira Bazar, Bombay No. 2.

ORIENTAL SALT TRADING CO.—207, Samuel Street, Bombay 3. Manufacturers and Suppliers of Common Salt to Industrial Concerns and Retail and Wholesale Dealers. Phone: 29106.

PRABHULAL L. PANDYA & CO.—26, Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 251794. Grams: "PRAPANDYA." Salt Merchants, Freight & Chartering Brokers, Steamship Agents, Stevedores & Dubashes.

SAND, STONE AND CHUNAM MERCHANTS

Atmaram Bros.—Thakurdwar Mortar Mill, 340, Girgaum Road and Duncan Road.
Fazluddin Ibrahim Chunawala.—Near Water Pipe, Chinch Bunder.
Haji Adam Haji Abba & Co.—Reti Bunder, Mazagaon.
Haji Umer Haji Musa.—Near Police Station, Pydhownie.
Harilal Tribhovandas & Bros.—161, Panjrapole Road.
Hasham Joosab.—291-A, Duncan Road.
Industrial Minerals & Chemical Co.—125, Narayan Dhuru Street, Bombay 3.
Laxmi Mortar Mills.—Portuguese Church Street, Dadar.
Mohanlal Jamnadas & Sons.—Opp. Mohan Building, Girgaum.

NENSHI MONJI.—123, Mahatma Gandhi Road, Bombay 1. Contractors, Sand and Stone Suppliers, Phone: Office: 251054 and 255480. Bhoiwada quarry: 61150; Sand Depot: 40186.

Pavri, Kavasjee Bhicaji.—10, Transvaal Terrace, Falkland Road.
Stone Supplying Co. Private Ltd.—494, Duncan Road, Bombay 14.
Taiyabi Mortar Mills.—10, Underia Street, Chokey Moholla.
Tansukhlal Ratilal & Co.—15, 2nd Sutar Gali, Null Bazar.
Wagle & Sons.—Opp. Congress House, Girgaum Back Road.
Yusuf Dada Chunawalla & Co.—34, Bapu Khote Street, Bombay 3.

SANDALWOOD MERCHANTS

Bharucha, A. K., & Co.—202, Bora Bazar Street, Fort.
Edulji Rustomji Sukhadwala.—266, Thakurdwar, Bombay 2.
Mysore Products, Ltd.—191, Princess Street.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort.
Sukhadwalla, Manecksha Hormasji.—Opp. Wadia's Fire Temple, 607, Girgaum Road.
Wardens (Mysore) Ltd.—378, Karanjia Building, Grant Road.

SANITARY ENGINEERS

Advance Tube Co.—99, Nagdevi Street, Bombay 3.
A. G. Karimji Calcuttawalla.—82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."

AQUA SANITATION CO.—56, Mint Road, Fort, Bombay. Phones: 263614 and 211385.

Badrudin Hasanali & Co.—43, Gulalwadi, Kika Street.
Balsara & Co.—41-45, Medows Street, Fort.

B. BAMBOAT & CO. PRIVATE LTD.—56, Gowalia Tank Road, Bombay 26. Phone: 41917. Grams: "PILLARTAP." Coppersmiths, Plumbers, Gasfitters and Sanitary Engineers.

Bhathena & Co.—Patel's Bungalow, 187, opp. Grant Road Railway Station (Up).
Bhathena, B. N., & Co.—100, Nagdevi Street, Bombay 3.
Bhole & Co.—Near Fire Temple, Junction of Queen's Road & Thakurdwar Road.
Burjor Framji & Co.—Marine Mansion, Marine Lines, Off Queen's Road.

CHANDULAL VORA & CO.—(Licensed Plumbers), 61, Kika Street, Gulalwadi, Bombay 4. Phone: 72381.

CHIMANLAL VADILAL & CO.—Sanitary Engineers & Building Contractors, 473, Falkland Road, opp. 2nd Carpenter Lane, Bombay 4. Phone: 42671.

Chunilal Parikh & Co.—478, Duncan Road, Bombay 4.

COOVERJI HORMUSJI & SONS, N.—(Estd. 1895), 598, Wadia Building, Chira Bazar, Girgaum Road, Bombay 2. Phone: 39919. Building Contractors, Plumbers & Sanitary Engineers. Specialists in Domestic Hot & Cold Water and Gas installations, Plumbing Works, Drainage Works, Sewage Disposal Building Repairs, Building Constructions, Painting Works and Monsoon Dammering Works.

Dhamankar, W., & Co.—196A, Girgaum Road, Bombay 4.
Esoofally Dawoodbhoy.—18, Doctor Street, Dhanwadi Moholla.
Esufally Adamji & Co.—134, Nagdevi Street.
Fidaali Rajabali.—165, Hill Road, Bandra.

FIDAHUSEIN HASANALI.—(Licensed Plumber and Building Contractors), 48, Kika Street, Gulalwadi, Bombay 4. Phone: 72385.

Gagrat & Co.—160, Nagdevi Street.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
Godbole Bros.—101-103, Mugbhat Street, Girgaum.

J. THAKORLAL & CO.—69, Dadyseth Agiary Lane, Bombay 2. Phone: 29801. Licensed Plumbers, Sanitary Engineers & Building Contractors, Undertaking New Installation & Repairs. Hot & Cold Water Specialists.

JAFFERJEE HUSSONALLY & SONS.—(Licensed Plumbers), 68, Nagdevi Street, Bombay 3. Phone: 20459.

Jashwantlal Manecklal & Co.—40, Vir Nariman Street, Fort.
Keshavlal Laloobhai.—87-89, Parsi Gali, Dhanji Street.
Khambati, G. L.—Hararwalla Building, 5, Ardeshir Dady Street, Sandhurst Road, Bombay 4.

MARKER, S. D., & CO. PRIVATE LTD. (ESTD. 1901).—381, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 253236. Grams: "MARKERCOY." Branches at: New Delhi, Chandigarh and Srinagar. Sanitary Engineers & Contractors. Specialists in Domestic Plumbing, Hot & Cold Water supply, Drainage & Sewage disposal.

Mavani, B., & Co.—187, opp. Grant Road Station (East), Bombay 7.
Minoo Cawasji Press, L. S. E.—Sanitary Engineer, Hamal Wadi, Dhobi Talao.
Mistry, P. M., & Co.—43, Tamba Kanta, Pydhonie.
Mohomedbhoy Esoofally Nulwalla.—78, Bapu Khote Street, Jambli Moholla, Null Bazar, Bombay 3.
Nanalal Ambalal & Co.—69, Nagdevi Street, Bombay 3.
Nanalal Pandya & Co.—302, Angrewada, Kalbadevi Road.
National Engineering Co.—103, Nagdevi Street.

NEW INDIA SANITATION COMPANY.—Central Bank Building, 3rd Floor, Bruce Street, Fort, Bombay. Phone: 254122. Grams: "NISC." Sanitary Engineers, Licensed Plumbers, Contractors and Hot Water Specialists.

Patankar, R. A., & Co.—Madhav Wadi, Naigaum Cross Road, Dadar.
Pawar, B., & Co.—Near Madhav Baug, 102, Ardeshir Dady Street.
Press Cowasji Dinshaw.—Hamal Wadi, Dhobi Talao, Bombay 2.

R. MOOLCHAND & CO.—44, Nagdevi Cross Lane, Bombay 3. Direct Importers, Sanitary Wares, Tiles, Bath Tubs, Fancy Bath-Room Fittings. Grams: "POTTERY." Phone: 34207.

Ratilal & Co.—Madhavji Thakersey Building, Picket Cross Road.
Richardson & Cruddas.—Byculla Ironworks, Byculla.
Simpson, D. R., & Co.—33, Gamdevi Road, Grant Road, Bombay 7.
United Tube & Hardware Co.—146, Nagdevi Street, Bombay 3.
Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Vidya Sanitary Works.—16-24, Lohar Chawl, Bombay 2.

SANITARY WARES, PIPES & FITTINGS

Abdulhusein Esoofally Contractor.—91-93, Bapu Khote Street, Bombay 3.
Advance Tube Co.—99, Nagdevi Street, Bombay 3.

A. G. KARIMJI CALCUTTAWALLA.—Pipes, Fittings and Sanitarywares, 82/84, Gulalwadi, Kika Street, Bombay 4. Phone: 73636. Grams: "SANITARY."

Armstrong Smith Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Bombay 1.

ASGARALI NURUDDIN & CO. (ESTD. 1916).—95, Nagdevi Street, Bombay 3. Phones: 22609; Res. 88753. Sanitary Engineers, Hardware & Pipe Fittings Merchants.

Badruddin Hasanali & Co.—43, Gulalwadi, Kika Street, Bombay 4.

BALSARA & CO. PRIVATE LTD.—43, Medows Street, Bombay 1. Phone: 252481. Grams: "JALOORUSCO."

Batliboi, C. J., & Co.—319, Hornby Road, Fort.
Bharucha & Co.—129, Esplanade Mansions, Mahatma Gandhi Road, Bombay.

BOMBAY BUILDING MATERIALS TRADING CO.—Importers of Sanitarywares & Bath Room Fittings, 73, Medows Street, Fort, Bombay 1. Phone: 253042. Grams: "BILMAT."

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Bombay Potteries & Tiles Ltd.—Pipe Road, Kurla, Bombay.
Bombay Sanitaryware Association.—Jeroo Building, 1st floor, 137, Mahatma Gandhi Road, Bombay 1.
Calcutta Iron and Steel Co. Private Ltd.—68/D, Mohamedally Road, Bombay 3.

C. BHOGILAL & CO.—Hanuman Building, behind Reserve Bank, Horniman Circle, Fort, Bombay 1.

C. CHAMPAKLAL & CO.—205, Nagdevi Street, Bombay 3. Phone: 39373. "WATERMETER," G.I., and C.I. Pipes, Fittings & Sanitarywares.

Clubwala & Co.—27-29, Hamam Street, Fort.

CROWN SANITARY SUPPLIERS.—9, 1st Cooper Street, Bombay 3. Phone: 42884. Grams: "FLUSHPIPE". Largest Stockists of Sanitaryware, Pipe Fittings & Commission Agents.

Domestic Appliances Co., Ltd.—Forbes Building, Home Street, Bombay 1.
Esufally Adamji & Co.—134, Nagdevi Street, Bombay 3.
Fleming John & Co., Private Ltd.—P. B. No. 76, Bombay 1. Phone: 261153.
F. J. Rehmani & Co.—5, Bank Street, Bombay 1.
Garlick & Co.—Haines Road, Jacob Circle.
Geo. Service & Co.—Byculla Iron Works, Parel Road, Bombay 8.
Gigabhai, K., & Sons.—8-10, Green Street, Fort, Bombay.
Gokaldas Shivalal & Co.—76, Kika Street, Bombay 4.
Gopal Chand Puri & Brothers.—70, Mohamadalli Road, Bombay 3.
Gupta, D. P., & Co.—181, Nagdevi Street, Bombay 3.
Hindustan Tube Company.—163, Nagdevi Street, Bombay 3.
India House.—Prop.: Rajabali Gulamali, 85, Nagdevi Street, Bombay 3.
J. Champaklal & Co.—44, Nagdevi Cross Lane, Bombay 3.

JAYANTILAL GOKALDAS & SONS.—232, Masjid Bunder Road, Bombay 3. Phones: 39895 (Office), 62650 (Res.). Stockists of galvanised Pipes & Fittings, Cast Iron Rainwater & Soil Pipes & Fittings, Cast Iron Spigot & Socket Pipes, Special Fittings, Brass BIB Cocks & Stop Cocks; Sanitarywares and Sanitary Fittings, Gunmetal wheel valves & Gate Valves; Lead Pipes & Lead traps, Stoneware Pipes & Fittings, Cast Iron Manhole Covers & Gratings.

JEWANLAL & SONS.—P.O. Box 3587, Bombay 4. Dealers in Marble, Tiles & Sanitarywares, Mosaic Tiles, etc., Merchants & Contractors.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

K. Chimanlal & Co.—107-A, Nagdevi Street, Bombay 3.

M. N. PADIA & CO.—70, Kika Street (Gulalwadi), Bombay 4. Phone: 72363.

Maganlal Pranlal & Sons.—105, Nagdevi Street, Bombay 3. Phone: 23015. Grams: "ARMPIPE". Pipe Fittings, Sanitarywares & Mill Gin Stores. Specialist in Water Meter.
Marker, S. D. & Co., Ltd.—381, Hornby Road, Fort.

MOHANLAL & CO.—491, Duncan Road, Bombay 4. Dealers in Marble, Tiles, Sanitarywares, Shahbad and Tandur Stones, Colours, White Cement, etc., Builders & Contractors.

NANALAL AMBALAL & CO. (Estd. 1917).—69, Nagdevi Street, Bombay 3. Phone: 28754. Grams: "VILVALHIRO." Regional Sole Distributors for (1) Parry's 'EID' brand superior Indian Sanitaryware; (2) Stone Ware pipes of Messrs. Perfect Pottery Co. Ltd., Jabalpur. Large Stockists of all kind of pipes, Fittings & Sanitaryware.

NATIONAL METAL INDUSTRIES.—15/A, Parel Village Road, Parel, Bombay 12. Phone: 62400. Grams: "MANMULL." Manufacturers of Metallic Wash Basins, and Sanitarywares.

NOOROODIN SHAIKADAM & CO.—159, Nagdevi Street, Bombay 3. Phone: 23894.

P. S. Parekh & Co.—108, Nagdevi Street, Bombay 3.
Raval & Co.—21, Bank Street, Bombay 1.
Richardson & Cruddas Ltd.—Byculla Iron Works, Parel Road, Bombay 8.

R. MOOLCHAND & CO.—44, Nagdevi Cross Lane, Bombay 3. Direct Importers, Sanitarywares, Tiles, Bath Tubs, Fancy Bathroom Fittings. Grams: "POTTERY." Phone: 34207.

Saify Sanitary Stores.—109/114, Nagdevi Street, Bombay 3.
Sajan & Co.—18, Custom House Road, Fort, Bombay.
Shah, A. H., & Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
Shapurji & Co., R. K.—310, Hornby Road, P.B. 1065, Fort.
Sharman Sons (Estd. 1949).—34, Nagdevi Street, Bombay 3.
Universal Sanitary Engineering Co.—Kitab Mahal, 190/192, Hornby Road, Fort.
Vadilal & Co.—435, Duncan Road, Bombay 4.
Vaseem & Co.—72/74, Nagdevi Street, Bombay 3.
Victoria Sanitary Stores.—54, 3rd Bhoiwada, Bhuleshwar, Bombay 2.
Vinubhai Chandulal & Co.—63, Nagdevi Street, Bombay 3.
Virba & Co.—Ash Lane, Medows Street, Fort.
V. Pech & Co.—Aludin Building, Dhobi Talao, Bombay.
W. H. Deeth & Co.—Stronach House, Ballard Estate, Bombay 1.

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ANAND TIMBER TRADERS.—170, Reay Road, Bombay 10. Phone: Office: 42203. Res.: 60144.

Bombay Saw Mills Co.—Connaught Cross Lane, Ghorupdeo.
Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.
Gilder Saw Mills.—40, Victoria Road, Mazagaon, Bombay 10.
Grand Woodworks & Saw Mills.—Connaught Cross Road, Ghorupdeo.
McKenzies, Ltd.—Sewri.
Meherally Saw Mill & Timber Works.—Ghorupdeo, Connaught Road, Bombay 10.
Millar's Timber & Trading Co., Ltd.—Victoria House, Victoria Road, Mazagaon.
Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.
Timber Private Ltd.—Quay Street, Mazagaon, Bombay 10. Phone: 42810.
Western Australia State Saw Mills, Perth.—Agents: Killick, Nixon & Co., Home Street, Fort.

WOOD BOX PRIVATE LTD.—Sion Trombay Road, Chembur, Bombay 71. Phone: 67284. Sole Manufacturers in India of Multi Colour Printed Wooden packing cases; Stockists of Fir & Pine Wood.

SCIENTIFIC INSTRUMENTS

Adair Dutt & Co. (India) Ltd.—Syndicate Bank Building, Sir Phirozshah Mehta Road, Fort, Bombay.

ANDHRA SCIENTIFIC CO., LTD.—Janmabhoomi Chambers, Fort St., Bombay 1. Phone: 261540. Grams: "SCIENTIST." Head Office & Works: Masulipatam (Andhra Pradesh).

ASHA SCIENTIFIC COMPANY.—Lotlikar Mansion, 503, Girgaum Road, Bombay 2. Grams: "ASHACOM." Phone: 22855.

Associated Instrument Manufacturers (India) Private Ltd.—India House, Fort Street, Bombay 1.

BAJAJ ELECTRICALS LTD. (Formerly Radio Lamp Works Ltd.).—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone: 253841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha and Gauhati.

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.

CENTRAL SCIENTIFIC SYNDICATE.—355 59, Sheikh Memon Street, 1st Floor, Opp. Mangaldas Market, Bombay 2. Phone: 22945. Grams: "MAXSERVE." Dealers in Scientific and Laboratory requirements, suppliers of Physics and Biology Instruments.

DAHYABHAI & CO., D.—79, Princess Street, Devkaran Mansion, Bombay 2. Phone: 29504. Grams: "ERKA." Dealers in Surgical, Scientific, Laboratory and Hospital Equipments.

Eastern Electric & Engineering Co.—127, Mahatma Gandhi Road, Bombay 1.
Gordhandas, Desai Private Ltd.—Kermani Bldg., Sir P. M. Road. Grams: "MICROSCOPY." Branches: Calcutta and Madras.
Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

INDIA SCIENTIFIC TRADERS.—Peerbhoy Mansion, 460, Sardar Vallabhbhai Patel Road, Bombay 4. Phone: 76336. Grams: "ESVIJACK."

Jagtiani, J. T.—National House, 6, Tulloch Road, Bombay 1.
Kanchanlal Magaulal & Co.—Bode Chawl, Princess Street, P.B. No. 2029, Bombay 2.
Larsen & Toubro Ltd.—I. C. House, Dougall Road, Ballard Estate, Fort.
Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.

MARTIN & HARRIS (PRIVATE) LTD.—Savoy Chambers, Wallace Street, Bombay 1. Phone: Office 263473-4, Stores: 261270. Grams: "ROWLETTE."

NATIONAL SCIENTIFIC INSTRUMENTS CO.—19, Bank Street, Fort, Bombay. Phone: 252198. Grams: "TELESCOPE." Importers & Manufacturers of Scientific and Medical Apparatus. Sole Agents for world renown "W. GREIFELDD" Wetzlar, German Microscopes, "REO" German Rheostats; Optiscope & Epidioscope, Optelma's Ltd., Switzerland. Theodolytes, Sextants and various Surveying & Navigation Instruments; Photo Electric Colorimeters, East Germany.

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PIONEER EQUIPMENT CO. PRIVATE LTD.—139, Medows Street, P.O. Box 1909, Bombay 1 (Phone: 251882). Also at Calcutta, New Delhi and Madras. Agents in India for Messrs. Cooke, Troughton & Simms Ltd., U.K. for Microscopes and other Optical Equipment. Messrs. Evershed & Vignoles Ltd., U.K. for Tinsley Polarographs. Messrs. Harry W. Dietert Inc., U.S.A. and Ridsdale Co., Ltd., U.K. for Sand Testing & Control Equipment. Strohlein & Co., Germany for Chemical Analysis Apparatus. Pyrometers, Recorders, Controllers, Muffle Furnaces, Calorimeters and other items for Industrial and Research Laboratories. Messrs. Solus Schall Ltd., U.K., for X-Ray, Non-Destructive Testing Equipment.

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RAJ-DER-KAR & CO.—Sadhana Rayon House, Dr. Dadabhai Naoroji Road, Fort, Bombay. Phone: 262304 (P.B.X.—4 lines). Grams: "TECHLAB." For Research & Industries.

REMEDIOS & SONS.—255, Dr. Dadabhoy Naoroji Road (Hornby Road), opp. Lloyds Bank Ltd., Fort. Scientific and Surveying Instrument Manufacturers.

Rohit Industries.—203, Himalaya House, Phalton Road, Bombay 1.
Scientific Apparatus & Chemical Works Ltd.—27, Hamam Street, Fort.
Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.
Scientific Instrument Co., Ltd.—Navsari Building, 240, Dr. Dadabhoy Naoroji Road (Hornby Road), Fort.
Shah, M., & Co.—Kanji Mansion, Sandhurst Road, Bombay 4.
Sonal Rangnow & Co.—41, Hamam Street, Fort, Bombay.

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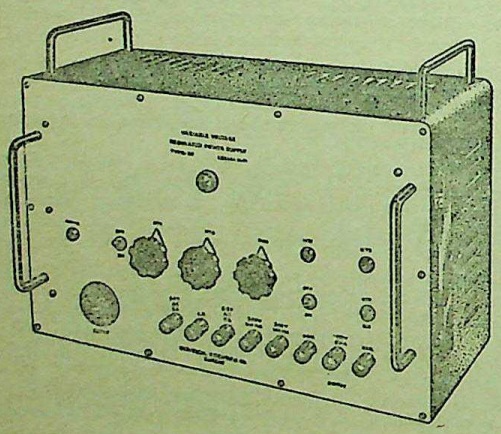
Thermo-Electric Equipment Co.—59, Commercial Chambers, Masjid Bunder Road, Bombay 3. Factory: Tripunithura, Kerala State.

UNIQUE TRADING CORPORATION.—221, Sheriff Devji Street, Bombay 3. Grams: "UNILLAB." Phone: 30011.



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Gaytee & Co.—Janmabhoomi Chambers, Fort Street, Bombay 1.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
Hardcastle Waud & Co. Private Ltd.—Alice Bldg., Dr. D. Naoroji Road, Bombay 1.
Voltas Ltd.—Ballard Estate, Bombay 1.

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JINDAL BROTHERS.—3rd Lane, Dharukhana, Bombay 10. Grams: "JINDALSHIP." Dealers in Iron, Steel, Re-rolling and other Scraps of all kinds.

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DAWN AGENCIES.—22, Gowalia Tank Road, Bombay 2. Black Insulating Adhesive Tapes, Waterproof Adhesive Tapes, Transparent Self-Adhesive Tapes, etc.

SHANTILAL CHHAGANLAL & CO.—397, Sheikh Memon Street, Bombay 2. Phone: 28188. Grams: "VASURAS." Stockists of Self Adhesive Tapes, Cellulose Transparent Tapes, Crepe Paper Tapes, Cloth Tapes and "Jason" Brand Gummed (Kraft Paper) Tapes.

SEEDS (DEALERS, EXPORTERS & IMPORTERS)

Chimanlal Patel & Co.—174, Hornby Road, Fort.
Laxmi Commercial Agency.—16, Apollo Street, Fort.
Poonjiajee, J. M. Jehangir.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay.
Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.
Tavaria Bros.—Dhun Nur, Sir Phirozshah Mehta Road, Fort.

SEWING MACHINE DEALERS

Bell & Co., Ltd.—6, Sir Phirozshah Mehta Road, Fort.
Imperial Sewing Machine Co.—Dhutpapeshwar Building, Mangalwadi, Girgaum.

JAYANTILAL KESHAVLAL & BROS.—Lehri Bldg., 282, Sardar Vallabhbhai Patel Road, Bombay 4. Grams: "GORDIA." Importers and Exporters. Progressive manufacturers of "JUPITER" Brand Sewing Machines and "JK" Brand Sewing Machines Parts. Pioneers in Sewing Machines Parts for every model since 1920. Branch at Ahmedabad.

Khurya Co. Ltd.—Head Office: Beaumon Chamber, 27/33, Medows Street, Fort.
Lalchand, R., & Co.—93, Princess Street, Bombay 2.
Mehta Bros. & Co.—Krishna Building, 306, Sandhurst Road, Bombay 4.
Pedneker & Co.—172, Girgaum Road, Bombay 4.
Shah & Co.—Opp. Prarthana Samaj, 161, Charni Road, Bombay 4.

SINGER SEWING MACHINE CO.—Singer Building, 207, Dr. Dadabhoy Naoroji Road, Fort, P.O. Box No. 441, Bombay 1. Phone: 26-3187 (3 Lines). Grams: "SISMACO."

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Ahmed, H., & Co.—139, Nagdevi Street.
Allied Exporters.—Kumud House, 267, Dr. Dadabhoy Naoroji Road, Fort, Bombay.
Amratlal & Co.—Sutarwala, 10, Mirza Street (Parsi Gally), Bombay 3.
Coats, (India) Private Ltd., J. & P.—81, Palton Road, Fort.
Fakhri Thread House.—72, Bhajipala Lane, Bombay 3.
Gulam Rasul Allahbux.—1-B, Bachooali House, Nowroji Hill Road No. 1, Bombay 9.
Kshitiskumar Das.—94, Swadeshi Market, Kalbadevi Road, Bombay 2.
Kulin Industries.—12-13, Swadeshi Market, Kalbadevi.
Lalchand, R., & Co.—93, Princess Street, Bombay 2.
Lukmanji Musaji Sutarwala.—41, Nagdevi Street, Bombay 3.
Narottamdas Bhagwandas & Sons.—32-36, Nagdevi Street, Bombay.

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Pralhabhai Nagarbhai.—386, Linking Road, Khar, Bombay 21.
Purshotam Bechar & Bros.—108-9, Swadeshi Market, Bombay 2.
Tolaram Ramdass & Co.—647, Girgaum Road, near Dhobi Talao, Bombay 2.
Vishram Bhagwandas & Co.—31, Sutar Chawl, Bombay 2.

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Acme Thread Company Private Ltd., The—Atlas Mills, Reay Road, Mazagon, Bombay 10.

C. NAROTAMDAS & CO.—185, Upper Duncan Road, Bombay 8. Phone: 40142. Grams: "BHUJWALA." Specialised in polished Threads and winding it on wooden spools (reels). Trade Mark: "TRIPPLE STAG."

HARI THREAD WORKS.—405, Duncan Road, Bombay 4. Grams: "TUBEROLLS." Leading manufacturers of all kinds of Sewing Thread and Embroidery goods.

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Jumna Thread Mills Ltd.—81, Palton Road, Bombay 1.

LAKHANI INDUSTRIES.—3-5, Syed Mukri Street, Katha Bazar, Bombay 9. Grams: "SIMPLEMEN." Manufacturers of "Jai Somnath Brand" Thread tubes specially made for all machines.

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AJMERA BROTHERS.—192/A, Panjrapole Road, Near Madhav Baugh Post Office, Bombay 4. Phone: 42628. Grams: "PULLEYBELT." Importers & Stockists of M. S. Bright Drawn Shaftings Round, Square & Hexagonal.

DHIRAJLAL & CO.—31, Sindhi Lane, Nanubhai Desai Road, Bombay 4. Phone: 72592. Grams: "WILDERNESS." Importers & Stockists of M. S. Bright Drawn Shaftings—Round, Square & Hexagonals.

R. SAVAILAL & CO.—39, Sindhi Lane, Khetwadi Main Road, Bombay 4. Grams: "GLUEACID." Phone: 72211. Direct Importers of M. S. Bright Bars Shaftings Round, Hexagons and Squares.

SHELLAC

East Asiatic Co. (India) Private Ltd.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 262711. Offices at Madras, Calcutta, New Delhi.
Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.
South Indian Shellac Mfg. Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

SHIP BROKERS

Shalebhoy Tyebjee & Sons—12, Bruce Street, Bombay 1.

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AFCO PRIVATE LTD.—(A wholly owned Subsidiary of the Bombay Burmah Trading Corporation Ltd.). Builders of Power and Sailing Craft, Naval Architects, Surveyors, Marine Engineers, Metal Sprayers. Office & Factory at 16, Sleater Road, near Grant Road Post Office, Bombay. Phone: (Office & Factory): 41955. Grams: "FEDACRETE", Bombay. Boat Building Yard at Erangal, Madh Island, Bombay.

Alcock, Ashdown & Co. Ltd.—16, Bank Street, Bombay.
Chinese Engineering Works.—Sewri Fort Road, Sewri, Bombay 15.

E. H. MARINE TRANSPORT CO.—Boat Hard Road, Coal Bunder, Darukhana, Bombay 10. Phones: 76445 & 263427. Grams: "KHICHADI" Bombay. Ship owners, Boat Builders & Repairers.

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SHAPARIA DOCK & STEEL CO. PRIVATE LTD.—Bombay. Shipbuilders, Engineers & Contractors—Suppliers to D.G.S. & D., Railways, P.W.D., Port Trusts, Municipalities etc., specialising, Steel Cargo & Passenger Vessels, Tugs, Barges, Launches, Life Boats (Ordinary & Motor), Row Boats, Dinghies, Life Saving Appliances, Buoyant Apparatus, Mooring Buoys etc., also Lighterage Contractors to Mineral Ore Exporters—Shipyard: Sewree Fort Road, Bombay 15. Grams: "SHAPARIA" Sewree, Bombay. Phone: 60071/72.

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Abbas, A., & Brothers.—127, Nagdevi Street, Bombay 3.

ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

ABDULHUSEIN PEERBHAI & SONS.—66-68-A, Peerbhai Bldg., Bhandari Street, Bombay 3. Phone: 23956. Grams: "STUDCHAIN." Stockists of Marine Stores, Chains, Wire Ropes, Chain Pulley Block, Ship Tackles, etc.

ADAMJI KADERBHOY.—P. B. No. 5046, 337, Katha Bazar, Bombay 9. Phone: 39085. Grams: "RAJKOTWALA."

AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Building, 2nd Floor, Bank Street, Fort, Bombay 1. Phones: 252952 and 254103. Grams: "PILOTACE."

Associated Machine & Tool Co.—130, Medows Street, Fort.
Baker, A. M., & Co.—218, Nagdevi Street.
Bombay Shipchandlery & Engineering Mart.—Shipchandlers, Contractors and General Merchants, Mogul House, 377, Delisle Road, Bombay 11.
Calcutta Iron and Steel Co.—68/D, Mahomedally Road, Bombay 3.
Central Engineering Co.—125, Nagdevi Street.
Chadha, B. M., & Co.—Jan Mansion, Sir Phirozshah Mehta Road, Fort, P. O. Box 671, Bombay.
Chandulal & Co.—Kathawalla, 11, Kazi Sayed Street, Bombay 9.
Chatrabhuj & Co.—Lohar Chawl.
Darukhanawalla, F. E., & Co.—244, Nagdevi Street.
Dawoodi H. Vasi & Co.—164, Nagdevi Street.
Doriwalla & Co.—Katha Bazar, next to Union Bank, Bombay 9.
Eastern Stores & Trading Co., Ltd.—115A, Nagdevi Street.
Edgar Handley & Co.—Saksaria Chambers, 139, Medows Street, Fort.

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Haiderbhoy Esmailji & Co.—168, Nagdevi Street, Bombay 3.
Hatimbhoy Goolamhusein & Bros.—193, Nagdevi Street.
Heptoola Noorudin & Co.—152-54, Nagdevi Street, Bombay 3.

HIRALAL MAGANLAL & CO.—Violin Market, Sheikh Memon Street, Bombay 2. Phones: 20933, 20486. Grams: "WALNUT." Shipchandlers, Deck & Engine Stores Suppliers, Shipwright Contractors and Ship repairers.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

K. Chimanlal & Co.—107/A, Nagdevi Street, Bombay 3.
Kurwa & Kajiji.—142-44, Abdul Rehman Street.
Machine Tools & Implements.—24, Nagdevi Cross Lane, Bombay 3

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M. K. PALIA & SONS PRIVATE LTD.—Palia Building, 189, Nagdevi Street, Bombay 3. Phones : 39722 & 29761. Grams : "MANASNI." Shipchandlers, Government & Railway Contractors, Metal, Hardware, Pipes, Boiler tubes and Marine Stores Suppliers.

Mackenzies Limited.—Sewri, Bombay.
Mashruwala, C. M., & Co.—172-74, Nagdevi Street, Bombay 3.
Mohsinbhai Dawoodbhai.—171-73, Nagdevi Street, Bombay 3.
Moloobhoy, & Sons.—281, Nagdevi Street, Bombay 3.
New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.
Nomanbhoy Abdeally & Co.—96-98, Nagdevi Street.

NOOROODIN SHAIKADAM & CO.—159, Nagdevi Street, Bombay 3. Phone : 23894.

Ochhavlal, R., & Co.—86, Nagdevi Street, Bombay 3.
Reliance Trading Co.—25/47, Lohar Street, Bombay 3.
Saify, T. A., & Brothers (India).—20, Sarang Street, Bombay 3.

SALEHBHOY TYEBBHOY & CO. (Estd. 1865).—Tyebji Building, 93, Nagdevi Street, Bombay 3. Phone : 38555. Grams : "DIPCOWORKS." Shipchandlers, Paints and Hardware Merchants and Naval Stores Suppliers. Grease Cups & "Fevicol" Adhesives.

SHALEBHOY TYEBJEE & SONS.—(Estd. 1840), 12, Bruce St., Fort, Bombay 1. Phones : 252357 and 252358. Grams : "ROTATOR."

TALIB & CO.—Talib House, 104, Nagdevi Street, Bombay 3. Phone : 27977. Grams : "TALIBCO." Pipes, Fittings & General Hardware Merchants.

Textile Store & Hardware Mart.—32, Bibijan Lane, Nagdevi Street.
Vasi, Shums & Co., Ltd.—Vasi Building, 165-67, Nagdevi Street.
Vishwa Bharati Trading Co.—14, Kumpta Street, Ballard Estate, Bombay 1.
Zaveri, C. A., & Co.—44, Abdul Rehman Street.

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ABRAHAM, D., & SONS PRIVATE LTD.—Hague Building, Sprott Road, Ballard Estate, Fort.

Chinubhai Kalidass & Bros.—19/21, Hamam St., Fort, Bombay.

DEWAN, L., & SON.—Nanabhai Mansion, Sir Phirozshah Mehta Road, Fort. Phones: 261341, 263469 and 265405. Cable : "RAILCUMSEA."

EXPRESS TRANSPORT PRIVATE LTD.—Western India House, Sir Phirozshah Mehta Road, Bombay 1. Phone : 253864-5. Grams : "MOVEFAST." Clearing, Forwarding & Shipping Agents.

FINLAY JAMES & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1. Phone Nos. 251255-59. Post Box No. 73.

Forbes, Forbes Campbell & Co. Private Ltd.—Forbes Bldg., Home Street, Bombay 1.

KANJI JADHAVJI & CO.—Musjid Bridge, Mandvi, Bombay 9. Phone : 30097 & 22081. Grams : "GITA."

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Lionel Edwards Ltd.—Nicol Road, Ballard Estate, Bombay.
M. Dharamdas & Co.—Mehta House, Calicut Street, Ballard Estate, Bombay. Phone: 33225. Clearing, Forwarding & Shipping Agents.
Manilal Patel & Co.—Kamer Building, 38, Cawasji Patel Street, Bombay.
Marine Transport Co. Private Ltd.—Sprott Road, Ballard Estate, Bombay.
Narottam & Pereira Ltd.—Scindia House, Dougall Road, Ballard Estate, Bombay.
New Dholera Shipping & Trading Co. Ltd.—Bombay Mutual Building, 293, Hornby Road, Bombay 1.

SHROFF & CO.—Alice Bldg., Dr. Dadabhoy Naoroji Road, Bombay 1. Phone : 253254. Grams : "BONSECKS." Shipping, Clearing, Forwarding, & Insurance Agents.

Turner Morrison & Co. Ltd.—16, Bank Street, Bombay 1.
Volkart Brothers—Graham Road, Ballard Estate, Bombay 1.
Wallem & Co. (India) Ltd.—India House, Fort Street, Fort, Bombay 1.

SHOE MAKING MACHINERY AND MATERIALS

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Grams : "SISTACHAR." Stockists of Hardware, Screws, Bolts, Nuts, Shoe Materials, Woodworking & Metal Cutting Saws, Engineering Stores & Saw Files.

ELLIS INTERNATIONAL TRADING CO.—Sales Dept., 73, Bhaji Pala Lane, Bombay 3. Phone : 30907. Grams : "IRONPROOF." Largest Importers and Stockists of all kinds of Hardware, Nails and Shoe Materials namely Bifurcated Rivets, Tingles, Tacks, Hobnails, Protector Studs, Panel Pins, etc.

E. PEERBHOY & SONS.—Prop.: Indian Durries Emporium, Shahru Castle, 64, Mohamedali Road, Bombay 3. Phone: 23806. Grams : "INDIAWEAVE".

SHOE TACK MACHINES

CAPRI ENGINEERING CO.—Examiner Press Building, 111, Medows Street, Bombay 1. Phone : 251925. Grams : "CAPRIENG."

SIGNBOARD PAINTERS

Abhavia, N. A. (Estd. 1921).—Lamington Chambers, Lamington Road, opp. West End Cinema, Bombay 4.
Gawade Art Service.—233, Bazargate Street, Fort.
Goonanath, P.—Nana Shankar Seth's Wadi, Girgaum Road, Thakurdwar.
Kotkar, M. B., Brothers.—373, Girgaum Road, Thakurdwar.
More, S. & Co.—34-38, Hamam Street, Fort.
Nagool Bros.—100, Mint Road, Fort.
Pioneer Trading Co., The.—Kanti Bhuvan, Parel, Bombay 12.

SILK & ART SILK MILLS AND FACTORIES

A. A. Patel Wvg. Factory.—Bhiwandi (Dist. Thana).
Abdul Samad Haji Lal Muhamed Wvg. Factory—Bhiwandi (Dist. Thana).
Adarsh Textile Industries Private Ltd.—Agra Road, Bhiwandi (Dist. Thana).
Aleli & Co., Private Ltd.—Agra Road, Vikhroli, Bombay 40.
Alliance Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
Allied Silk Mills.—C/o Hassamal Dalamal, New Silk Bazar, P.O. Box 2236, Bombay 2.
Amar Silk Mills.—New Islam Mills Compound, Currey Road, Bombay 3.
Amarchand Silk Mills.—6 A, Bruce Street, Sir Vithaldas Chambers, Fort, Bombay 1.
Amar Jyoti Silk Mills.—Nizampura, Bhiwandi (Dist. Thana).

AMBIKA SILK MILLS CO. LTD., THE.—11-12, Haines Road, Mahalaxmi, Bombay 13. Mg. Agents : Maganlal Bhagwandas & Co., Mills at Haines Road, Mahalaxmi, Bombay 13. Office on Mill premises. Phone : 76291-2-3 (Office). Grams : "QUALITYFAB." Manufacturers of Rayon and Nylon Piece goods.

Amrit Silk Mills, Shroff Wadi, Mount Road, Mazagon, Bombay 10.
Anil Textile Mills Private Ltd.—22, Lamington Road (North), Lal Chimney, Bombay 11.
Anis Silk Mills.—Saudagar Moholla, Bhiwandi (Dist. Thana).
Arun Silk Mills.—Umakant Mansion, 2nd Floor, 384, Kalbadevi Road, Bombay 2.
Asha Silk Mills Private Ltd.—Agra Road, Vikhroli, Bombay.
Ashar Silk Mills.—Sonari Road, Vile Parle (East), Bombay 24.
Ashok Silk Mills.—144, Dharavi Road, Sion, Bombay 17.
Asian Rayon Mills.—New Islam Mills Compound, Curry Road, Bombay 13.
B. M. K. Industries Private Ltd.—Kalina Road, Old Kurla, Bombay 37.
Bajaj Textile Mills Private Ltd.—39, Champagalli, New Silk Market, Bombay 2.
Balgopal Silk Mills.—13-D, Dhaku Parbhu Wadi, Gorupdeo, Mazagaon, Bombay 10.
Bharat Silk Mills Private Ltd.—Opp. Kurmuri Village, Agra Road, Kurla, Bombay.
Bharat Textiles.—480, Kalbadevi Road, P.O. Box 2320, Bombay 2.
Bhimanath Silk Mills.—64, Chikal Galli, M. J. Market, Bombay 2.
Bhiwandi Textile Works.—Samad Mills Compound, Kumbharwada, Bhiwandi (Dist. Thana).
Bipin Silk Mills Co., Private Ltd.—12, Dadar Road, Kasturchand Mills Compound, Dadar, Bombay 14.
Bishen Silk Mills.—Agra Road, Bhandup (Central Rly.).
Bombay Silk Mills Ltd.—Industrial Estate, Lalbaug, Bombay 12.
Bombay Textile Mills.—Survodaya Mills Compound, Tardeo Road, Bombay 7.
Bradbury Mills Ltd.—C/o Messrs. Ramnarayan Sons Ltd., Imperial Bank Bldg., Bank Street, Fort, Bombay 1.
Cadell Wvg. Mills Co., Private Ltd.—400, Cadell Road, Bombay 28.
Calico Industrial Engineers.—Sone Baug, Chakala, Andheri (B.S.D.).
Central Wvg. & Mfg. Co.—Swastik Mills Compound, Fergusson Road, Lower Parel, Bombay 13.
Champaklal & Bros.—Sayee Bhuvan, 143, Princess Street, Bombay 2.

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Choitram's Silk Mills.—Gandhi Mansion, New Silk Market, Bombay 2.
Chokshi Silk Mills.—61-63, Shamset Road, 1st Floor, Chhipi Chawl, Zaveri Bazar, Bombay 2.
C. & J. Silk Mills.—Nehru Road, Vile Parle, Bombay. Phone: 26783. Manufacturers of Georgette and Ninon.
D. V. Industries.—Bhau Saheb Desai Wadi, Bhavani Shankar Road, Dadar, Bombay 28.
Dinesh Silk Industries Private Ltd.—Bombay-Agra Road, Bhandup (C.R.) (Dist. Thana).
Eldee Velvet & Silk Mills, Private Ltd.—Opp. Bawala Mosque, DeLisle Road, Parel, Bombay 13.
Essardas Silk Mills.—Agra Road, Bhandup (C. Rly.), (Dist. Thana).
Ganga Silk Mills.—C/o Satish Trading Co., Old Hanuman Lane, Parekh Building, 2nd Floor, Bombay 2.
Gauttam Silk Mills.—Ishwarbhai Patel's Estate, Goregaon, Bombay.
Harichand Textile Mills Private Ltd.—Agra Road, Vikhroli, Bombay 40.
Hazari Silk Mills.—Kasara-Basin Road, Darukhana, Mazagaon, Bombay 10.
Hidayatullah Textile Works.—Samad Mills Compound, Khumbharwada, Bhiwandi (Dist. Thana).
Hind Silk Mills Private Ltd.—1st Floor, Dahanukar Building, Kalbadevi, Bombay 2.
Indianese Silk Mill Co., The.—Sewri Cross Road, Wadala, Bombay 15.
Ismail Khashal Wvg. Factory.—Thana Road, Bhiwandi (Dist. Thana).
J. L. Gokani Mills.—Opp. Dak Bungalow, Bhiwandi (Dist. Thana).
Jagdamba Fabrics Wvg. Works.—Perubaug, Goregaon (East), Bombay.
Jagmohan Silk Mills Private Ltd.—9, Silk House, 1st Floor, Hamalwadi, Bombay 2.
Jaijabs Rayon.—Jai Hind Silk Mills, Opp. Hatterslay Mills, Agra Road, Ghatkopar.
Jalem Wvg. Mills.—Village Road, Kurla.
Jasmine Mills Private Ltd.—Mahim, Bombay 16.
Jyoti Silk Mills.—C/o Vanmalidas Zaverchand, 418, Kalbadavi Road, Bombay 2.
Kala Silk Factory.—Ganesh Wadi, Ganesh Building, Bombay 2.
Kamala Mills Ltd.—45-47, Apollo Street, Fort, Bombay 1.
Kapoor Wvg. Works.—Jambulwadi, Kalbadevi Road, Bombay 2.
Kathiawar Textile Mills.—C/o Hasmukh & Co., 58, Chhipi Chawl, Bombay 2.
Khaitan Silk Mills Private Ltd.—St. Mary's Road, Mazagaon, Bombay 10.
Khetan Industries Ltd.—Khetan Bhuvan, 198, Jamsedji Tata Road, Churchgate Reclamation, Bombay 1.
Khetani Textile Industries, Private Ltd.—105/107, Bazar Ward, Old Kurla, Bombay.
Kiran Silk Mills Private Ltd.—Kasturchand Mills Compound, Dadar, Bombay 14.
Kothari Silk Mills.—Atlas Mill Compound, Reay Road, Bombay 10.
Kum Kum Silk Mills.—60, Chhipi Chawl, Shamset Street, Zaveri Bazar, Bombay 2.
Lahoti Wvg. Mills.—Kalyan Road, Bhiwandi (Dist. Thana).
Lajya Silk Mills.—Khatav Nivas, Jambulwadi, Kalbadevi, Bombay 2.
Liberty Silk Mills Private Ltd.—106/107, Bazar Ward, Kurla.
Lotus Silk Mills.—Kumbharwada, Bhiwandi (Dist. Thana).
M. K. Gupta Wvg. Mills.—Behind Electric Power House, Bhiwandi (Dist. Thana).
Madan Mohan Dyeing, Printing & Silk Mills.—419D, Joshi Wadi, Kalbadevi Road, Bombay 2.
Mahajan Silk Mills.—3A, Dadaji Dhakjee Bldg., Dr. Annie Besant Road, Worli, Bombay 18.
Maharaj Silk Mills.—Gazdar House, Dhobi Talao, Bombay 2.
Mahavir Silk Mills.—64, Chhipi Chawl, Opp. M. J. Market, Bombay 2.
Manhar Mills Private Ltd.—Framji Petit Mills Compound, Reay Road, Bombay 10.
Model Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.
Modern Textile Mills.—Opp. 155, D. D. Chawl, Worli, Bombay 18.
Mohanlal Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
Moon Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.
Mukund Silk Mills.—Bombay Cotton Mills Compound, Kalachowki Road, Parel, Bombay 12.
Narayan Silk Mills Ltd.—34, Nesbit Road, Mazagoan, Bombay 10.
Narendra Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
NATIONAL ART SILK MILLS PRIVATE LTD., THE.—Old Kasturchand Mills Compound, Dadar, Bombay 28. Phones: 60440 & 65530. Manufacturers of High Class Rayon Fabrics.
National Industrial Works.—Palonji's Chawl, Sussex Road, Bombay 27.
National Rayon Mills.—Mogro, Off Nagardas Road, Andheri (East).
Nehru Silk Mills.—Mathuradas Mills Compound, Lower Parel, Bombay 13.
New Era Fabrics, Private Ltd.—Mogal Lane, Tulsi Pipe Road, Bombay 16.
New Hindustan Silk Mills.—Narayan Nagar, Agra Road, Ghatkopar, Bombay.
New India Rayon Mills Co., Private Ltd.—Mathuradas Mills Compound, Lower Parel, Bombay 13.
New India Textiles.—Block No. 12, Suryodaya Mills Compound, Tardeo, Bombay 7.
New Kaiser-i-Hind Spg. & Wvg. Co., Ltd.—J. K. Building, Dougall Road, Ballard Estate, Bombay 1.
New Mahalaxmi Silk Mills Private Ltd.—Mathuradas Mills Compound, Lower Parel, Bombay 13.
New Oriental Silk Mills Private Ltd.—2nd Floor, New Silk Market, Bombay 2.
New Parbhat Silk Mills.—C/o Messrs. Valiram Sons, New Silk Bazar, Kalbadevi Road, Bombay 2.
New Santosh Silk Mills.—Mahakali Chawl, 2nd Floor, Pydhoni, Bombay 3.
New Shah Silk Mills Private Ltd.—88, Khed Gully, Gokhale Road (South), Dadar, Bombay 28.
New Sun Mills Co., Private Ltd.—Sun Mills Road, Lower Parel, Bombay 13.
New Vinod Silk Mills Private Ltd.—12, Dadar Road, Dadar, Bombay 14.
Nitin Silk Mills.—67, Tambakanta 2nd Floor, Bombay 3.
Novelty Silk Mills.—Ghodbunder Road, Dahisar (W. Rly.), Bombay.
Nutan Silk Mills.—379, Arthur Road, Bombay 11.
Orkay Industries Private Ltd.—(Subhash Silk Mills Dept.), 40, Central Bldg., Bomanji Master Road, Bombay 2.
Panalal Silk Mills Private Ltd.—Atlas Mills Compound, Reay Road, Bombay 10.
Panalal Silk Mills Private Ltd. No. 2.—Bombay Cotton Mills Compound, Kalachowki Road, Parel, Bombay 12.
Paragon Textile Mills.—Opp. Century Mills, Off Globe Mills' Passage, Worli, Bombay 13.
Parekh Silk Mills.—Paranjape Scheme Plot B, Sonari Road, Vile Parle (East), Bombay 24.
Parsharam Karwa Mills.—Hafsan Ali, Bhiwandi (Dist. Thana).
Paru Silk Mills.—73-75, Sutar Chawl, Bombay 2.
Phoenix Mills Ltd.—C/o Ramnarain Sons Ltd., Imperial Bank Building, Bank Street, Fort, Bombay 1.
Pratap Silk Mills.—C/o Lallubhai Pittamber, New Silk Market, Bombay 2.
Raghuvanshi Mills Ltd.—11-12, Haines Road, Mahalaxmi, Bombay 13.
Rahath Silk Mills.—Worli, Bombay 13.
Raja Industries Private Ltd.—Parsee Panchayat Road, Andheri (East), (B.S.D.), Bombay.
Rajkamal Silk Mills.—34-42, Nesbit Road, Mazagaon, Bombay 10.
Rajaratna Silk Mills.—20, Navroji Seth Street, Thakurdwar, Bombay 2.
Ramkrishna Silk Mills.—529, Kalbadevi Road, Bombay 2.
Ramlal Silk Mills.—Plot No. 106, Sion Road, Near Koliwada Rly. Station, Bombay 22.
Ramzan Naboo Wvg. Factory Bengalpura.—Bhiwandi (Dist. Thana).
Raval Textiles.—Nagardas Road, Andheri (East), Bombay.
Ravi Industries Ltd.—68, Chhipi Chawl, 1st Floor, Zaveri Bazar, Bombay 2.
Rayon Textile Mfg. Co.—771, Mogul Lane, Matunga, Bombay 16.
Rayon Wvg. Works.—Block 7-A, Suryodaya Mills' Compound, Tardeo, Bombay 7.
Resham Textile Mills Private Ltd.—61, Government Gate Road, Lower Parel, Bombay 12.
Sadhana Textile Mills Private Ltd.—Off Globe Mills Passage, Worli, Bombay 18.
Samarth Eng. & Wvg. Co., Ltd.—Gandhi Mansion, New Silk Market, Bombay 2.
Samraat Silk Mills.—Agra Road, Vikhroli, P.O. Bhandup, Bombay.
Saraswati Silk Mills.—1-5, Mount Road, Mazagaon, Bombay 10.
Saroj Silk Mills.—Atlas Mills Compound, Reay Road, Bombay 10.
Sarvodaya Silk Mills.—Agra Road, Old Kurla, Bombay.
Sassoon & Alliance Silk Mills, Co., Ltd.—Podar Chambers, Parsee Bazar St., Fort, Bombay.
Saudagar Textile Works.—Saudagar Mohala, Bhiwandi (Dist. Thana).
Saurashtra Silk Mills.—C/o Kantilal Manilal Kamdar, 36, Bhangwadi F Block, 1st Floor, Room No. 17, Kalbadevi, Bombay 2.
Secunder Sari Mills Bhiwandi.—(Dist. Thana).
Seksari Silk Mills.—C/o Seksaria Cotton Mills Ltd., Seksaria Chambers, 139, Medows Street, Fort Bombay 1.
Shakuntala Silk Mills Private Ltd.—Bombay Cotton Mills Estate, Kalachowki Road, Lalbaug, Bombay 12.
Shanghai Mills Private Ltd.—Great Social Bldg., 3rd Floor, Sir P.M. Road, Bombay 1.
Shanti Rayon Mills.—Tokershi Jivraj Road, Bombay 15.
Sharada Silk Mills Private Ltd.—Dahanukar Bldg., 2nd Floor, New Silk Market, Bombay 2.
Shree Ambika Tape Mfg. Co.—2nd Floor, Hanuman Bldg., Tambakanta, Pydhoni, Bombay 3.
Shree Central Silk Mills.—Premji Bhimji, Sir Vithaldas Gally, M. J. Market, Bombay 2.
Shree Hanuman Silk Mills.—Near Powai Cross Road, Agra Road, Vikhroli, Bombay.

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Shree Laxmi Silk Mills.—12, Dadar Road, Dadar, Bombay 14.
Shree Mohan Dyeing, Ptg. & Wvg. Mills.—Gandhi Mansion, New Silk Bazar, Bombay 2.
Shree Navyug Wvg. & Ptg. Mills.—C/o Popatlal, Mulchand & Co., Dharamraj Galli, M. J. Market, Bombay 2.
Shree Samrath Textile Industries.—Furgusson Road, Lower Parel, Bombay 13.
Shree Shakti Mills Ltd.—Podar Chambers, Parsee Bazar Street, Fort, Bombay 1.
Shree Shakti Mills Ltd. No. 2.—Podar Chambers, Parsee Bazar Street, Fort, Bombay 1.
Shree Shanti Silk Mills.—Lal Chimney Compound, 32F, Lamington Road (North), Bombay.
Shree Shanti Textile Mills Private Ltd.—Agra Road, Ghatkopar, Bombay 39.
Siddharth Silk Mills.—Sunder Baug, Agra Road, Near Kurmuri Road, Kurla, Bombay.
Simplex Silk Mills.—Agra Road, Kurla.
Standard Mills Co., Ltd.—29, Churchgate Street, Fort, Bombay 1.
Suryakant Textile Mills.—Building No. 15, Bhuleshwar, Doka Galli, Bombay 2.
Swan Textiles.—Bhiwandi (Dist. Thana).
Tarun Silk Mills.—Yakub Road, Bhiwandi (Dist. Thana).
United Rayon Mills, Private Ltd.—Near Elphinstone Bridge, Parel Tank Road, Parel, Bombay.
V. R. Textile Industries.—New Chawl Street, Bhiwandi (Dist. Thana).
Venus Silk Mills.—Suryodaya Mills Compound, Tardeo, Bombay 7.
Vijay Silk Mills.—Atlas Mills Compound, Reay Road, Mazagaon.
Vikram Industries.—Bhau Saheb Desai's Wadi, Bhavani Shankar Road, Dadar, Bombay 28.
Vinod Silk Mills.—Kasturchand Mills Estate, Tulsi Pipe Road, Dadar.
Vipul Silk Mills.—Ganesh Godown No. 15, Tank Bunder Road, Reay Road, Bombay 10.
Vishnu Silk Mills Private Ltd.—49-55, Apollo Street, Fort, Bombay.
Zaveri Rayon & Silk Mills Ltd.—Darabshaw House, Ballard Road, Bombay 1.

SILK MILL MACHINERY & STORES SUPPLIERS

JAYANT MEHTA & CO.—19/21, Hamam Street, Fort, Bombay 1. Phone: 252063. Grams: "ROHIT". Branch at Bazarpeth, Bhiwandi, Dist. Thana. Textile Mill Stores and Machinery Specialists. Importers and Manufacturers of Textile Mill Machinery and Stores.

R. R. JINDE & CO.—14, Mohan Nivas, Chandavarkar Road, Bombay 19. Grams: "GOLDENHILL."

SIZING MATERIALS

Adarsha Trading Corporation.—Ismail Building, 2nd Floor, Room No. 9-H, 381, Hornby Road, Fort, Bombay.

AMRUTLAL BHURABHAI & CO.—P.O. Box No. 2379, Anand Bhuwan, Princess Street, Bombay 2. Phones: 27034 & 27035. Grams: "CHEMDRUGS." Direct Importers and Dealers of all kinds of Chemicals, Drugs and Sizing materials.

Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.

ASSOCIATED ENTERPRISES.—Suppliers of Sizing Materials to majority of leading rayon Mills. 7, Kailash Kutir, Behind Mysore Chemicals, Scheme No. 6, Road No. 4, Sion East, Bombay 22.

Bhogilal & Co.—7-10, Elphinstone Circle, Botawalla Building, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

C. M. VORA & CO.—160, Dr. Dadabhoy Naoroji Road, Fort, Bombay 1. Phone: 261609. Grams: "CHHOMOUORA." Importers & Dealers in Sizing Materials and Dyeing Chemicals.

Dandekar Company.—Bombay Mutual Annexe, 17, Gunbow Street, Fort, Bombay 1.
Daver, B. F., & Co.—Appa Baug Building, 41, Queen's Road.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.
General Industrial Chemicals.—Beaumon Chambers, 27/33, Medows Street, Fort.
General Textile Stores Ltd.—Beaumon Chambers, 27/33, Medows Street, Fort.
Hardcastle, Waud & Co. Private Ltd.—Alice Building, Hornby Road, Fort.
Imperial Chemical Industries (India), Ltd.—Imperial Chemical House, Dougall Road, Ballard Estate.
Indo-British Chemical Co.—Raja Bahadur Mansion, 11, Tamarind Lane, Fort.
Industrial Minerals and Chemical Co.—25, Narayan Dhuru Street, Bombay 3.
Industrial Trading Agency.—Tamarind House, Tamarind Lane, Fort, Bombay. Phone: 31782. (Healds, Reeds, Wire healds and Shuttles).
Javeri Traders.—Lakhmi Building, 34, Cawasji Patel Street, Fort, Bombay.
Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."
Kirtikumar Chandulal & Co.—313, Samuel Street, Vadgadi, Bombay.
Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.
Latham Abercrombie & Co., Private Ltd.—Forbes Building, Home Street, Fort.

MAIZE STARCH PRODUCTS CORPORATION.—32, Apollo Street, Fort. Dealers in Sizing Materials and Industrial Chemicals. Phone: 252715. Grams: "MAZSTARCH."

Mehta, J. H., & Co.—106-8, Bazargate Street, Fort.
Mehta, Sanghvi & Co.—303, Samuel Street, Vadgadi, Bombay 3.
Nanavati & Co., Ltd.—16, Apollo Street, Fort.

NATIONAL TRADING COMPANY, THE.—Manufacturers, Importers & Distributors of Sizing & Finishing Materials and Allied Auxiliaries. 263, Dr. Dadabhai Naoroji Road, P.O. Box 158, Bombay 1. Phone: 265050. Grams: "BHARAT." Branches: Ahmedabad, Calcutta, Coimbatore and Delhi.

Poonjiajee, Jehangir J. M.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.
Rasiklal & Co., Ltd.—60-62, Princess Street, P. B. No. 2228, Bombay.
Sheth, S. C., & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.
Shree Krishna Trading Co., Ltd.—11, Alli Chambers, Tamarind Lane, Fort.
Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.
Standard Pulverising Co.—Atlas Mills Compound, Reay Road, Bombay 10.
Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.

SOAP FACTORIES

Allwyns Ltd.—92-94, Ardeshir Dady Street.
Auxitex.—177-179, Lamington Cross Roads and Calcutta National Bank Buildings, Sir Phirozshah Mehta Road, Fort.

BOMBAY SOAP FACTORY.—10, Ripon Road Cross Lane, P. B. No. 4508, Bombay 8. India's Premier Oil Millers, Soap Manufacturers & Perfumers. Phone: 77221 and 77222. Grams: "BOSFA."

Chemical Engineering Corporation.—22, Apollo Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Empire Industrial Works.—Warden House, Sir Phirozshah Mehta Road, Fort.

INA Soap Powder

1. A SOAP POWDER
For Economy, Efficiency, Ease! Washes 200 Clothes per Kg.
2. INA LAUNDRY STARCH
Only perfumed starch on market.
3. INA KLIN
Efficient Triple Action Cleanser, Powerful Grease Remover.
INDIA LABORATORY PRODUCTS CO.
Agakhan Bldg., 9, Dalal Street, BOMBAY 1
Phone: 253551.

Lachhmandas & Co.—21, Chinch Bunder, Bombay 9.
Mehta Soap Works.—118-D, Valpakhadi, Mazagaon Road, Bombay 9.
Mira Chemical Works.—Chinchpokli Cross Lane, Parel.
Patang Brand Soap Factory.—380, Shankarset Bungalow, Girgaum Road.
Patanwala, Ltd.—182-84, Abdul Rehman Street.
Saraf Oil Mills Co., Ltd.—325, Kalbadevi Road, Bombay 2.
Swastik Oil Mills Ltd.— Saltpan Road, Wadala, Bombay 31.
Scientific Soap Works.—Hargovind Desai's Wadi, Bhuleshwar.
Simplex Chemical Co.—103-C, Chhaktewadi, Tardeo.

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Tata Oil Mills Co., Ltd.—Bombay House, Bruce Street, Fort.

TOOBA PRODUCTS.—91, Bhajipala Street, Bombay 3. Phone: 34716. Grams: "TOOBA." Soap Manufacturers & Fine Perfumers. Manufacturers of "TOOBA" Brand Hair Tonic. Helps Falling Hair with two Bottles. Also Manufacturers of Liquid Soaps, Agarbatti, Attars & Perfumers.

SOLDERING & BRAZING EQUIPMENTS

VISHWA BHARATI TRADING CO.—14, Kumpta Street, Ballard Estate, Post Box No. 1052, Bombay 1. Phones: 264555 and 263795. Grams: "VIBHACO." Branch: G.P.O. Box 2628, Calcutta 1. Phone: 345693. Manufacturers of all kinds of Metals, Welding, Brazing & Soldering requirements.

SOLDERING IRONS

BAJAJ ELECTRICALS LTD. (Formerly Radio Lamp Works Ltd.)—45-47, Veer Nariman Road, Bombay 1. Electrical Engineers, Manufacturers and Contractors. Phone: 25-3841. Grams: "SOFTLITE." Branches at Bombay, Calcutta, Delhi, Madras, Kanpur, Patna, Indore, Wardha & Gauhati.

SOLVENTS ORGANIC

CHEMISOL INDUSTRIES.—Devkaran Mansion, 41, Princess Street, Bombay 2. Phone: 29086. Grams: "BAYCITY."

COMMERCIAL SOLVENTS CORPORATION.—Indian Globe Chambers, 4th Floor, Fort Street, Bombay 1. Phone: 265446. Grams: "SOLVO."

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone: 251748. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur—Chemicals—Solvents, Fertilizers, Minerals—Lime—Jute—Products.

SOLVENTS (INDUSTRIAL)

CHEMISOL INDUSTRIES.—Devkaran Mansion, 41, Princess Street, Bombay 2. Phone: 29086. Grams: "BAYCITY."

PRAVIN BROTHERS & CO.—501, Commerce House, Medows Street, Bombay 1. Phone: 251748. Grams: "WIDESCOPE." Importers, Exporters and Agents: Sulphur—Chemicals—Solvents, Fertilizers, Minerals—Lime—Jute—Products.

SIMSON & CO.—Karim Chambers, 42, Hamam St., Bombay 1. Phone: Office—254941; Factory—84314. Grams: "CHEMPAINT." Manufacturers of Ethyl Acetate Thinners & Industrial Solvents.

SOUND RECORDING EQUIPMENT

Ama Private Ltd.—Hornby Road, Fort, Bombay.
Chicago Radio & Telephone Co. Ltd.—127, Mahatma Gandhi Road, Fort.
General Radio and Appliances Ltd.—16, New Queen's Road, Bombay 4.
Modern Electric Corporation.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort.
National Education and Information Films Ltd.—National House, Tulloch Road, Apollo Bunder, Bombay. Grams: "Edufilms."
Patel (India) Ltd —Kitab Mahal, Hornby Road, Fort, Bombay.
Western Agencies' Co.—421, Lamington Road, Bombay 4.

SPICES AND ASAFOETIDA

Asher & Company.—Vadgadi, Bombay 3.
Bhanushali Brothers Ltd.—Bhanushali Chambers, 168, Argyle Road, Bombay 9.
Bombay Hing Supply Co.—Hansraj Karamsi Building, 66, Musjid Bunder Road.
Bombay Trading Co.—Dhun-Nur, Sir Phirozshah Mehta Road, Fort.
Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.
Damji Mavji & Co.—177, Khoja Gulli, Mandvi, Bombay 9.
Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavel House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Ebrahim Manji & Co.—49, Pydhownie Road, Khadak, Bombay 9.
Fruit Farm Products Co.—Byramji Mansion, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 262120.
Gandhi Sons Ltd.—232, Samuel Street, Vadgadi, Bombay 3.
Gopaljee & Co.—218, Samuel Street, Vadgadi.
Gorakhram Gokalchand (Estd. 1891).—Choksi Chambers, Zaveri Bazar, Bombay 2.
Govindji Padamshi.—317, Narsi Natha Street, Kharek Bazar, Mandvi, Bombay 9.
Govindji Ratanji.—84, Mirchi Street, Vadgadi.
Gulabchand Nathalal & Co.—45, Mirchi Lane, Bombay 3.
Hashambhoy Aloo Mahomed & Son.—Dostmahomed Building, Nishanpada Road, Khadak, Bombay 9.
Hemani Bros.—Wassiamull Building, Grant Road.
Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Mohalla, Bombay 9.
Jehangir C. Masalawalla.—C. P. Tank Bus Stand, Vithalbhai Patel Road.
Jehangir J. M. Poonjiajee.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort.
Kanji Morarji.—285-87, Narsi Natha Street, Bombay 9.
Kikabhai Gulamhusen.—210, Samuel Street, Vadgadi, Mandvi.
Lakhmichand Vasanji & Co.—229, Samuel Street, Vadgadi.
Laljee Godhu & Co.—213, Samuel Street, Vadgadi.
Merwanjee Poonjiajee & Sons.—Prince's Dock, Frere Road.
M. Dialdas & Sons.—190, Princess Street.
Narandas Kesurdas & Sons.—222-24, Vadgadi.
Narotamdas Harivallabhdas.—80, Khand Bazar, Mandvi.
New India Hing Supplying Co.—215-217, Samuel Street.
Pavri, J. K.—10, Karim Chambers, Hamam Street, Fort.
Premji Haridas & Co.—Bhanusali Building, 168, Argyle Road, Bombay 9.
Ratanshi Assaria & Co.—240-42, Narsi Natha Street, Katha Bazar, Bombay 9.
Shah & Co.—108, New Citizen Bank House, Palton Road, Bombay 1.
Somnath Motiram.—306, Kharek Bazar, Bombay 9.
Sudan Trading Co.—Dhun-Nur, Sir Phirozshah Mehta Road, Fort.
Valabhdas Tejpal.—219, Vadgadi, Bombay 3.
Varijiwandas Hirjee & Co.—240, Samuel Street, Vadgadi.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi, Bombay 3.
Velji Kalidas & Son.—90-92, Khand Bazar, Mandvi, Bombay 3.
Vikaram Padamsey & Co.—Rustom Building, Veer Nariman Street, Fort.
Waghji Lakhmidas & Co.—206, Samuel Street, Vadgadi.
Y. K. Sampat & Co.—382-84, Katha Bazar, Bombay 9.

SPORTS GOODS MANUFACTURERS AND DEALERS

ALFA SPORTS.—Metro House, Dhobi Talao, Bombay 1. Phone: 242549. Grams: "ALFASPORTS." Metro House, Bombay 1. Specialists in Sports and Games, Presentation Articles, Swimwear and Athletics.

Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.
Austin Sports Co.—Byculla Bridge, Bombay.

BOMBAY SPORTS.—Dhobi Talao, Bombay 2. Phone: 38645. Dealers in Sport and Educational Toys. Stockists of Elastic Knee Caps, Anklets, Abdominal Belts & Stockings.

Bombay Sports Depot.—Jer Mahal Estate, Dhobi Talao.

D. D. SHARMA & CO.—Dhobi Talao Junction, Fort, Bombay 1. Grams: "INDOORGAME." Phone: 241623. Manufacturers, Importers and Exporters of High Class Sporting Goods. Bankers: State Bank of Mysore. Sole Distributors for "Sunder" Ping Pong Bats and Tables, Special "Test" Cricket Balls, Sharma's "TOURNAMENT" and "DE LUXE." Shuttlecocks. By appointment to General K. M. Cariappa, ex-C.-in-C., Indian Army. Sole Prop.: D. N. Mehta, Captain T. A.

EBRAHIM ALLIBHOY & SONS (ESTD. 1934).—Importers & Exporters, 260-64, Abdul Rehman Street, Bombay 3. Phone: 38863.

I.C.I. (India) Private Ltd.—Crescent House, Ballard Estate, Bombay 1.
J. L. Morison Son & Jones (India) Ltd.—Ballard Estate, Bombay 1.
Jhaveri Bros. & Co. (Estd. 1914)—345, Abdul Rehman Street, near Crawford Market.
Jhaveri Sports & Gifts.—Jer Mahal, Dhobi Talao, Bombay 2.

K. L. MALHOTRA BROTHERS.—S/62-63, Industrial Area, Jullundur City. Grams: "MALBRO." Branch Office: Mohatta Market, 5th Floor, Phalton Road, Bombay 1. Manufacturers & Exporters of sports Goods, Specialists in Tennis, Squash & Badminton Rackets, Hockey Sticks, Footballs, Hockey and Cricket Balls & Shuttlecocks.

Kapur, A. N., & Co.—Court House, Dhobi Talao, Bombay 2.
Mahomedally Noorbhoy.—244-246, Abdul Rehman Street.
Nadkarni & Co.—Ava Chambers, next to Metro Cinema, Dhobi Talao.

PIONEER SPORTS (INDIA) PRIVATE LTD.—Dhobi Talao, Bombay 2. Phone: 39287. Grams: "SPORTSMAN." Manufacturers, Exporters and Dealers in all Sports goods. Factories at Jullundur. Branches at New Delhi, Calcutta, Madras & Secunderabad and Hyderabad.

United Importers Corporation.—Mistry Estate, 15/2, Palton Road, Bombay 1.

WAGLE & CO.—Opp. St. Xavier's High School, 290, Carnac Road, Bombay 2. Phone: 23177. Grams: "CRICKET."

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SPRAY GUNS

BAKER, M., & CO.—35, Nagdevi Street, Bombay 3. Phone: 34212. Grams: "MULTITRADE." Suppliers of Paint Spray Guns.

SPRING MANUFACTURERS

INDUSTRIAL SPRINGS MANUFACTURING CO.—21, Forbes Street, 1st Floor, Fort, Bombay. Phone: 254470. Grams: "AUTOCATCH." Manufacturers of all kinds of Springs.

KEMEN MANUFACTURING CO.—7/10, Horniman Circle, Fort, Bombay. Phone: 251104. Grams: "KEMENGIN." Manufacturers of all kinds of springs, specially for upholstery and Industrial type.

SPRINGS
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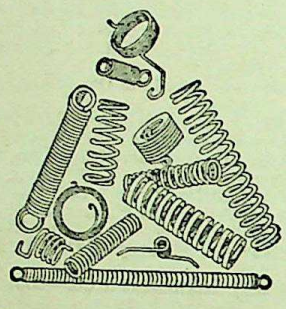
MILAN SPRING WORKS
MANUFACTURERS OF AUTOMOBILE, TEXTILE, PRECISION SPRINGS. ALSO SPRINGS FOR USE IN ALL INDUSTRIES



43, Khandia Street (Near Two Tanks), BOMBAY 8.
Telephone: 76900

STAINLESS STEEL

EAGLE CORPORATION.—Himalaya House, 79, Phalton Road, Bombay 1. Phones: Office: 265538, 263267 & 78020. Res.: 78020. Grams: "EXIMPORT." Importers, Exporters and Indentors of Iron, Steel & Stainless Steel.

VITHALDAS P. MEHTA.—71/73, Old Hanuman Street, Bombay 2. Phone: 28475. Grams: "BAVISHI." Importers & Exporters of Iron and Steel. Specialized in Stainless Steel.

STAINLESS STEEL UTENSILS MANUFACTURERS & DEALERS

AGGARWAL METAL CORPORATION.—203, Kika Street, Gulalwadi, Bombay 2. Phone: 72025. Grams: "EVERYMETAL." Merchants & Manufacturers of Stainless Steel Utensils.

Agrawal Metal Works Private Ltd.—207, Kalbadevi Road, Bombay 2.

ANIL METAL MART.—Mulji Nivas, 166, C.P. Tank Road, Bombay 4. Specialists in the Manufacture and Dealers of Varieties of Stainless Steel Spoons and Utensils.

Bombay Steel Corporation.—241, Kumbharwada, opp. 2nd Sutar Lane, Bombay 4.

BOMBAY BRASS & METAL WORKS.—2nd Panjrapole Street, Bombay 4. Phone: 72072. Grams: "COPPERPOTS." Manufacturers of and Specialists in all kinds of Non-Ferrous Metal-wares.

DEVIDAYAL STAINLESS STEEL INDUSTRIES PRIVATE LTD.—Gupta Mills Estate, Reay Road, Bombay 10. Local Sales Office: 39, 2nd Bhoiwada, Bombay 2. Phone Nos.: 73586/73695. Grams: "DEVISTEEL." Manufacturers of a wide range of Kitchen utensils, Tableware, Electric Kettles, Pocket-Tiffin Carrier, Fabricated Steel Tanks for Food & Chemical Industries, Wash Basins and Hospital Equipments and Railway Fittings and Stampings for Motors, Generators and Transformers.

G. K. KANSARA.—118, Kansara Chawl, 1st Floor, Kalbadevi Road, Bombay 2. Phone: 22825. Manufacturers of Stainless Steel Utensils & Medical Apparatus.

Great Western Engineering Works.—Sea View, 1st Pasta Lane, Colaba, Bombay 5.

LALLUBHAI AMICHAND PRIVATE LTD.—Proprietors: Dun Aluminium Factory, 225/27, Tardeo Road, Bombay 7. Manufacturers of "CYCLE" Brand Aluminium wares & "QUEEN" Brand Brasswares & other non-ferrous metal-ware. Phones: 41618 and 73220. Grams: "CYCLEBRAND."

METRO INDUSTRIAL AND MANUFACTURING CO.—253, Hari Har Nivas, Sandhurst Road, Bombay 4. Phone: 70603. Manufacturers of 'METRO' brand Stainless Steel Utensils.

M. JAGJIVANDAS & CO., LTD.—Sarvodaya Nagar, Panjrapole Road, Bombay 4. Grams: "JIVANJAG." Manufacturers of Stainless Steel, Spoonsware and Cutlery.

MULCHAND NAROTAMDAS.—Mulchand Nivas, Haines Road, Bombay 18. Phone: 76139. Grams: "KANSARA." Manufacturers of Stainless Steel Utensils & Specialists in Ferrous & non-Ferrous Metal pressing.

NATIONAL METAL INDUSTRIES.—15/A, Parel Village Road, Parel, Bombay 12. Phone: 62400. Grams: "MANMUL." Office: 26/A, Behind Mumbadevi Post Office, Bombay 2. Phone: 71534. Specialists in Stainless Steel & Brass Utensils, Hospital wares, etc.

Oriental Metal Pressing Works.—131, Worli, Bombay 18.

PEARL METAL WORKS

Premier Manufacturers of "Pearl" Brand Quality Stainless Steel, Kitchen, Hospital, Canteen Wares, Cutlery, Etc.

TRADE MARK

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Mazagaon, Bombay-10
Phone: 73880

★

Factory No. 2
771, Moghul Lane
Bombay-16
Phone: 63857

PITAMBERDAS LALLUBHAI & CO.—86, Kansara Chawl, Kalbadevi Road, Bombay 2. Phones: 20916 (Office), 75381 (Factory). Grams: "KATORIWALA." Manufacturers of all non-Ferrous Metal Wares.

PUNJAB METALS.—20, Wadi Bunder Road, Mazagaon, Bombay 10. Phone: 41135. Manufacturers of "PM" Brand Stainless Steel Utensils.

TARKAR, B. A.—50, Kansara Chawl, Kalbadevi, Bombay 2. (Prof. A. B. Tarkar Metal Factory & Tarkar Products). Phone: 73698 Office; 39035 Factory. Manufacturers of Copper & Brassware, Non-Ferrous & Stainless Steelwares.

STAINLESS STEEL WIRE NETTINGS

S. MEHTA & CO.—Anees Chambers, Carnac Road, Bombay 1. Phone: 263001. Grams: "DUTYBOUND." Wire Netting and Perforated Metals and Stainless Steel Wire Nettings and Monel Metal Wire Nettings. Importers, Exporters & Merchants.

STAMP DEALERS

COOPER, JAL, F.R.G.S.—Standard Building, Hornby Road, Fort. Tel. 252117. Dealers in Indian & States' Stamps, Philatelic Auctioneer and Valuer. Editor and Publisher, "India's Stamp Journal."

Federal Stamp Co.—42, Churchgate Street, Fort, Bombay 1.
Imperial Stamp Mart.—C/o Wahid Watch Co., Abubaker Mansion, Causeway.
Liberty Stamp Depot.—166, Dr. Naoroji Road, Bombay 1.
Oriental Collectors' Club.—42, Churchgate Street, Fort.

STARCH

Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.
Maize Starch Products Corporation.—20, Apollo Street, Bombay 1.
Narendra Starch Products Ltd.—Das Chambers, 25, Dalal Street, Bombay 1.

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CHIMANLAL MANCHAND & CO.—Leading State Jewellers, under Special Appointment to Baroda, Jaipur, Jodhpur, Cooch-Behar, Palanpur, Jubbal and Indore States. Central Government's Certified Valuers. Show Room:—Opp. Opera House, New Queen's Road, Fort. Phone: 30321. Grams: "PLATINUM."

Jhaveri Bros. & Co. (Estd. 1914).—345, Abdul Rehman Street, near Crawford Market, Bombay.
Nanubhai Jewellers.—115, Mahatma Gandhi Road, Fort.
Narotamdas Bhau (Estd. 1864).—Lamington Road.

STATIONERY (MFRS. & DEALERS)

A. A. MORBIWALA & CO.—109/111, Abdul Rehman Street, Bombay 3. Phone: 23280. Grams: "VARNISH." Importers & Stockists of Stitching Wires in all gauges used in manufacturing Stationery.

Akbarally Ebrahimji.—38C, Cowasji Patel Street, Fort, Bombay 1.
Artytoys.—Sir Ratan Tata Road, Tardeo, Bombay 7.
Bharat (Sales) Limited.—People's Building, Sir Phirozshah Mehta Road, Fort.

BHARAT TRADING CO.—9/A, Nadirsha Sukhia Street, Fort, Bombay. Phone: 255232. Grams: "MAMUBHANJA." Stationers and Paper Merchants. Also Dealers in Drawing Materials; Government & Railway Contractors & Suppliers.

Bombay Book Depot.—217, Charni Road, P. O. Girgaum, Bombay 4.
Bombay Importing Agency.—75, Sarang Street, Bombay 3.

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38, Cawasji Patel Street, Fort,
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Phone: 25-2751 ● Grams: "POLESTAR"

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7A, Sir Phirozshah Mehta Road, Fort. Phone: 253897.
Tel. Address: "PAPERWALA" - - - - Estd. 1873.
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PAPER, STATIONERY, ARTIST, DRAWING, ENGINEERING AND SURVEYING MATERIALS AND GIFT NOVELTIES
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Bombay Stationery Stores.—213-217, Abdul Rehman Street, Bombay 3.
Bombay Tape Distributors, 35, Vithaldas Road, Princess Street, Bombay 2.

BRIGHT BROS. PRIVATE LTD.—156-A, Tardeo Road, Bombay 7. Grams: "BRIBOS." Phones: 77454 & 77455. Plastic Stationery Articles like Desk Calendars, Memo Pads, Calendars, Novelties, etc.

Cama, Norton & Co.—23, Medows Street, Fort.
Camlin Limited.—210, Ram Baug, Lady Jamshetji Road, Bombay 28.
Central Stationery Mart.—15, Bruce Street, Fort.
Chalasani & Co.—8, Noble Chambers, Parsi Bazar Street, Fort.
Champaklal & Co.—195-7, Abdul Rehman Street, Bombay 3.

CHHAGANLAL KESHAVJEE (Estd. 1913).—Stationers and Printers, 22A, Parsee Bazar Street, Fort. Phone: 253008. Grams: "STAPRI."

City Stationery Stores.—Gool Mansion, Store Lane, Parsi Bazar Street, Fort, Bombay.

COMMERCIAL STATIONERY & PRINTING MART, THE.—18-20, Cawasji Patel Street, Fort. Phone: 253175. Grams: "NOSHIR".

CRYSTAL STATIONERY MART.—Manufacturing Stationers, 146, Abdul Rehman Street, Bombay 3.

Deelip Stationery Mart.—299, Abdul Rehman Street, Bombay 3.
D. Jagjivandas & Co.—177, Abdul Rehman Street, Bombay 3.
Empire Traders.—Stationers, Printers & Paper Suppliers, 18, Hassan Chambers, Parsi Bazar Street, Fort.
Enayatali & Co.—262-64, Abdul Rehman Street, Bombay 3.

EVERGREEN SYNDICATE.—19/21, Hamam Street, Fort, Bombay 1. Phone: 252641. Grams: "TAPEKING." Stationers & Printers. Importers & Stockists of all kinds of Office Stationery. Chief Stockists of Cellulose Self adhesive Tape & Brown Kraft Gummed tape.

Grams: "WADIFAL." Phone: 263472.

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421, Himalaya House,
Palton Road, Bombay 1.
Sole Distributors for India:
SIGMAN & CO.
302, Himalaya House,
Palton Road, Bombay 1.

EXCELSIOR STATIONERY MART.—Tamarind House, Tamarind Lane, Bombay 1. Phone: 252763. Manufacturers of Envelopes, Invitation & Visiting Cards.

EXPRESS STATIONERY SERVICE.—12-A, Gunbow Street, Fort, Bombay 1. Phone: 263987. Direct Importers, Stationers, Printers & Envelopes Manufacturers.

FIDVI PRINTING PRESS.—179, Abdul Rehman Street, Bombay 3. Manufacturers of Accounts & Exercise Books, Office Files, New Year Diaries, Calendar and Refills and other advertising Novelties. Phone: 22415. Grams: "FIDVI-PRESS."

FORT BOMBAY STATIONERY DEPOT (B.S.D. PTG. WORKS).—Podar Chambers, Parsi Bazar Street, Bombay 1. Stationers & Printers, All Office Requisites, Typewriter Accessories, A/C Books, Ledgers, Envelopes, etc. Book-binding, Die & Copper Plate Printing. Phone: 252439.

Gandalal & Co.—170, Abdul Rehman Street, Bombay 3.

GANDHI STATIONERY MART.—62, Bazargate Street, Dwarkadas Lane, Bombay 1. Mfrs.: Comet Visiting, Invitation, Greeting, Wedding Cards, Inland Air Letters.

General Equipment Merchants, Ltd.—People's Building, Sir Phirozshah Mehta Road, Fort.
General Stationery Mart.—36, Dhanji Street, Bombay 3.
Godbole & Co., S. K.—74, Khetwadi 10th Lane, Bombay 4.
Gujarat Stationery Mart.—198, Abdul Rehman Street, Bombay 3.
Halderison & Bros.—154, Bora Bazar Street, Fort.
Himalaya Stationery Mart.—Himalaya House, Palton Road and Hornby Road Junction, Bombay 1.

HINDUSTAN PENCILS PRIVATE LTD.—111/112, Himalaya House, Palton Road, Bombay 1. Phone: 261972. Grams: "WRITESFINE."

H. M. Shah & Co.—181, Abdul Rehman Street, Bombay 3.
Hornby Fountain Pen Depot.—204, Hornby Road, Fort.

IMPERIAL STATIONERY CO., THE.—Alli Chambers, 35, Medows Street, Fort. Stationers and Printers.

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Indo-Stationery Mart.—Rahimtoola House, Homji Street, Fort.

International Stationery Stores.—Victoria Building, Parsee Bazar Street, Fort.

JAGJIVANDAS NANDLAL & CO.—237, Abdul Rehman Street, Bombay 3. Phone: 22873. Grams: "SWANHOUSE." Sole Distributors for ELECTRIC PEN-PENCIL and TYPEWRITING CARBON PAPERS.

Jawahar & Company.—133, Princess Street, Bombay 2.

Jawahar & Co.—Court House, Carnac Road, Bombay 2.

Jivabhoy Latifjee.—Podar Chambers, Parsi Bazar Street.

Kashyap & Sons, G. S.—40, Prospect Chambers Annexe, Hornby Road, Fort.

Kantilal Chhotalal & Co.—22, Babu Genu Road, Princess Street, Bombay 2. Phone: 39650. Grams: "COMETBAG". Manufacturers of "COMET" brand Rubber Erasers for Pencil & Ink.

Kilburn & Co. Private Ltd.—Gresham Assurance House, Sir Phirozshah Mehta Road, Fort, Bombay.

KORES (INDIA) LTD.—Plot No. 10, off Haines Road, Worli, Bombay 18. Manufacturers of Ink Tablets, Stamp Pad and Numbering Inks, Duplicating Inks, etc. Phone: 73454 (Three lines). Grams: "KORESCARBO."

KSA INK & CHEMICAL FACTORY.—Manufacturers of "KSA" Special Inks, Gums, Paste, etc. Mherwan Bldg., Sir Phirozshah Mehta Road, Bombay 1. Phone: 251637. Grams: "PENINK" Bombay.

Kulkarni Bros.—388-94, Sheikh Memon Street, Bombay.

KUMAR STATIONERY STORES.—9/A, Nadirsha Sukhia Street, Fort, Bombay. Phone: 255232. Grams: "KUMARSTORE." Manufacturers of all kinds of Stationery and Dealers in Stationery, Paper and Drawing Materials.

KUMAR STATIONERY MART (Estd. 1942).—Podar Chambers, Store Lane, 109, Parsi Bazar Street, Fort. Importers, Stationers, Paper Merchants and Government and Railway Contractors. Sole Distributors of "Daylight" Brand gem clips and pins and "Telephone" Brand Ferro and Ammonia Paper Rolls, and "Projecto" Brand Indian Tracing Cloth. Phone: 55303. Grams: "TRADEMOTO."

Lalwani Printing Press.—35, Mirza Street, Bombay 3.

Lion Pencils Private Ltd.—Pencil Manufacturers, 95, Marine Drive, Bombay 2.

Longmans, Green & Co., Ltd.—Vulcan House, 53, Nicol Road, Ballard Estate.

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STAPLES
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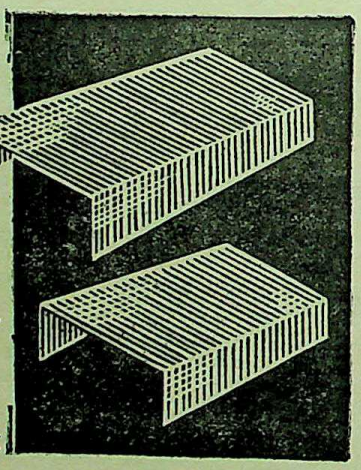
Manufacturers:
M. SOMNATH & CO.
94, Lohar Chawl,
Bombay 2.
Phone: 20375



M. SOMNATH & CO.—94, Lohar Chawl, Bombay 2. Phone: 20375. Grams: "SAMARTHYA." Manufacturers of Everready Staples. A quality product made of imported special type of Wire.

Mahomedally Hebatbhoy & Co.—15, Mirza Street, Parsi Gully, Bombay.

Mazda Printers.—Next to Bharat Tiles Ltd., 32, Apollo Street, Fort.

Mazumdar & Co.—Opp. Krishna Cinema, Tribhuvan Road, Bombay 4.

Minerwa Stationery Mart.—32, Apollo Street, opp. Allahabad Bank, Fort.

Model Art Printery Private Ltd.—4, Nanabhai Lane, Fort, Bombay.

Model Stationery Mart.—All Kinds of Stationery Goods and Paper Merchants. 44, Cawasji Patel Street, Fort, Bombay.

MODERN STATIONERY & PRINTING WORKS (ESTD. 1941).—Sole Proprietor: Nazerhusein Kaderbhai, Bombay Mutual Annexe, 1st Floor, 17, Gunbow Street, Fort. Phone: 261986.

Mohamedali Abdulhusein.—83, Mirza Street, Bombay 3.

NATIONAL STATIONERY STORES.—Stationers, Printers and Government Contractors, Podar Chambers, 12/A, Store Lane, Fort, Bombay. Godown: 23, Parsee Bazar Street, Fort. Phone: 253416. Grams: "SERVYUTRUE."

Navalakhi & Co., J. V.—Kalbadevi Road, Bombay 2.

New Book Co., Ltd.—Kitab Mahal, 188-190, Hornby Road, Fort.

New India Stationery Mart.—9, Hummum Street, Fort.

New Popular Book Shop.—Nana's Chowk, Gowalia Tank Road, P.O. Grant Road, Bombay 7.

NOBLE STATIONERY MART.—Parsee Bazar Street, Fort, Bombay 1. Phone: 254748. Grams: "CELLOTAPE." Importers of all kinds of Stationery and Paper. Manufacturers of Files, Envelopes and other paper made stationery. Distributors for Parker Inks, "CEEDA" and "NASIM" Stationery.

OFFICE EQUIPMENT CO. OF INDIA.—Bombay Mutual Building, 3rd Floor, Sir Phirozshah Mehta Road, P.O. Box No. 712, Bombay 1. Phone: 263424. Grams: "BROWNMAN." Manufacturers of Loose-leaf books, Filing system & Steel equipment.

OFIPIN PRIVATE LTD.—397, Sheikh Memon Street, Bombay 2. Phone: 28188. Grams: "VASURAS." Manufacturers of "OFIPIN" Brand quality mild steel, Brass & Nickel Electroplated Pins and M. S. Gem Clips in various shapes & sizes.

Paradise Agency.—75, Abdul Rehman Street, Bombay 3.

Pioneer Stationery Mart.—106-108, Cowasji Patel Street, Fort.

Popular Book Depot.—Aabid House, Lamington Road.

Regal Stationery Stores.—Lentin Chambers, Dalal Street, Fort, Bombay 1.

Regent Stationery Stores.—Khodram House, New Parsi Bazar, Fort.

RELIABLE STATIONERY MART, THE.—23/D, Sir Phirozshah Mehta Road, Fort, Bombay. Phone: 252850. Highclass printers & dealers in stationery.

Reliance Agency, Ltd.—Raja Bahadur Motilal Compound, behind P.O., Apollo Street.

Renown Stationery Stores.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort.

ROWLANDSON BROS. (Estd. 1927).—Parsee Bazar Street, Fort, Bombay 1. Stationers, Printers, Paper Merchants, Dealers in Drawing Materials and Surveying Instruments. Account Book Manufacturers, Engravers, Relief Stampers. Rubber Stamp makers, State and Railway Contractors and General Order Suppliers. Phones: 251107 (Office), 264861 (Res.). Grams: "TELLTRUE."

S. M. SONI & BROTHERS (Regd.).—54, Abdul Rehman Street, Bombay 3. Phone: 27633. Grams: "DURALONPEN." Wholesale Stationers, Paper Merchants, Direct Importers, Government Contractors, Commercial Printers, Office Requisites, Typewriter and Duplicator Accessories, Drawing, Surveying and Engineering Materials Suppliers; Mfrs. of Writing Pads, Files, Envelopes, Punching Machines, Account Books, Rubber Stamp, etc. of all sorts.

S. R. Brothers.—406 & 412/A, "Commerce House," Medows Street, Fort, Bombay 1.

Salebhoy, E., & Co.—19, Mangaldas Road, Princess Street.

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RUB IT QUICK. RUB IT NEAT
Available in many varieties Pencil Erasers, Ink Erasers, Combined Ink & Pencil Erasers, Typewriter Erasers, Tracing Erasers Etc.
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Sanghani & Co.—178-80, Abdul Rehman Street.
Sayer & Sanghavi.—Kalam Kutir, 211-19, Frere Road, Fort, Bombay.
Shreeman & Co.—Podar Chambers, 109, Parsi Bazar Street, Fort.

SOCIAL STATIONERY MART.—Victoria Building, 27-H, Parsee Bazar Street, Fort, Bombay 1. Phone: 251466. Specialists in "SOCIAL" Files, Typewriters & Pencil Carbon Papers. Account Books & Office Requisites.

Sorabji Nowroji & Co.—Horniman Circle, Fort.
Standard Stationery Mart.—Rahimtoola House, Homji Street, Fort.
Stela Equipments.—327, Nawab Building, Hornby Road, Fort.

SUPERIOR STATIONERY MART PRIVATE LTD.—117, Medows Street, Fort, Bombay 1. Phone: 25-2398. Grams: "LOVELINES". Stationers, Printers and Paper Merchants.

SURESH STATIONERY MART.—285, Abdul Rehman Street, Post Box No. 3056, Bombay 3. Phone: 23397. Grams: "SURESHBOOK." Manufacturers of "JOCKEY BRAND" Exercise-Books, Letter Books, Duplicate Books, Examination Papers, Etc.

Swastik Traders.—282, Pannalal Terraces, Lamington Road, Grant Road.
Taraporevala, D. B., Sons & Co.—210, Hornby Road, Fort.
Taraporevala, Phiroze & Kaikhushru, F. D. B.—Kitab Mahal, 188-190, Hornby Road, Fort.
Thacker & Co., Ltd.—Rampart Row, Fort.
Union Printing Works.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.
United Commercial Co.—48, Mangaldas Building, 1, Princess Street.
Universal Stationery Mart.—Podar Chambers, Parsi Bazar Street, Fort.
Universal Stationery Mart.—Graham Building, 109, Parsi Bazar Street, Fort.
Universal Trading Corporation, The.—Usuf Building, Mahatma Gandhi Road, Fort.
Venus Stationery Co.—Hassan Chambers, Fort.
V. Prabha & Co.—476, Sandhurst Road, Bombay 4.
Young India Stationery Mart.—43, Ghoga Street, Fort.

STEAM TRAPS AND VALVES

BOMBAY METAL & ALLOYS MFG. CO. PRIVATE LTD.—Manufacturers of "G. G." Brand Steam, Gate and Wheel Valves, Non-Ferrous Alloys and Castings, Pressure and Gravity Die Castings. Off Magazine Street, P.O. Box 6210, Bombay 10. Phones: 76104, 76105 and 76106. Grams: "BOMALLOY."

CRESCENT TRADING CO.—48, Bhajipala Lane (Nagdevi), Bombay 3. Phone: 29840. Grams: "WATERMETER." Stockists of Acid Resisting Valves, Cocks for Water, Steam & Air, C. I. Sluice Valves, Water Meters, etc.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

KILBURN & CO. LTD.—Gresham Assurance House, Pherozshah Mehta Road, Fort, Bombay 1. Phone: 251908. Grams: "TASCONIUM."

MEHTA NANAVATI & CO.—96, Narayan Dhuru Street, Bombay 3. Phone: 39545. Grams: "REDJOINT."

STEAMSHIP AGENTS

PRABHULAL L. PANDYA & CO.—26, Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 251794. Grams: "PRAPANDYA." Salt Merchants, Freight & Chartering Brokers, Steamship Agents & Stevedores and Dubashes.

STEAMSHIP COMPANIES

Ambica Steam Navigation Co. Ltd.—Prospect Chambers, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Anchor Line Ltd.—Wakefield House, Sprott Road, Ballard Estate.
Bharat Line Ltd.—Bharat House, Apollo Street, Fort, Bombay 1.
Bombay Steam Navigation Co. (1953) Private Ltd.—100, Frere Road, Bombay.
Great Eastern Shipping Co. Ltd.—60, Mahatma Gandhi Road, Fort.
Kamal Shipping Co. (Private) Ltd.—Scindia House, Ballard Estate, Bombay.
Killick, Nixon & Co. Private Ltd.—Killick House, Home Street, Fort.
Mackinnon Mackenzie & Co.—Ballard Road, Ballard Estate.
Malabar Steamship Co. Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Merchant Steam Navigation Co. (Private) Ltd.—Gaumikh Bhuvan, Masjid Bridge, Bombay 9.
National Steamship Co. Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
New Dholera Steamships Ltd.—Bombay Mutual Building, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.
Scindia Steam Navigation Co. Ltd.—Scindia House, Ballard Estate, Bombay 1.

SOUTH EAST ASIA SHIPPING CO. (PRIVATE) LTD.—Himalaya House, Dadabhoy Naoroji Road, Fort, Bombay 1. Phone: 262682-3. Grams: "SOEASIA." Ship Owners, Regular Cargo Service—Indian Coasts.—Also Karachi, Ceylon, Burma.

STEEL

Alsales Ltd.—9, Wallace Street, Bombay 1.

ASSOCIATED STEEL & TOOL CORPORATION, THE.—116, Nagdevi Street, Bombay 3. Phone: 39686. Grams: "STEELART." Importers & suppliers of High Speed Steel, Hot Die Steel, High Carbon and High Chrome Steel, Oil Hardening and Non-Shrinking Steel, Carbon Tool Steel, Nickel Chrome Steel, Stainless Steel Rods and Sheets, Bright Drawn Bars, Round, Square, Flat, Hexagon and Octagon.

F. Bock & Co., Ltd.—Shale Building, Bank Street, Bombay 1.
Guest, Keen, Williams Ltd.—Ballard Estate, Bombay 1.
Richardson & Cruddas Ltd.—Byculla, Bombay 8.

STAHLUNION COMPANY LIMITED, THE.—India House, 4th Floor, Fort Street, Bombay 1. Telegraphic Address: "MARCASTEEL," Bombay. Steel Materials and Engineering Products of all kinds. Branch Office: Calcutta.

United Steel Co. (India) Private Ltd.—Himalaya House, Palton Road, Bombay 1.

STEEL CASTINGS MACHINE

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

STEEL DOORS & WINDOWS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Bombay.

METALS PRIVATE LTD.—269, Dr. Dadabhai Naoroji Road, Bombay 1. Grams: "TRUMETAL."

Richardson & Cruddas Ltd.—Byculla Iron Works, Parel Road, Bombay 8.

STEEL FILES

SHAH & BROTHERS.—234, Nagdevi Street, Bombay 3. Phone: 38797. Grams: "STEELGRIPS." Authorised Distributors for JK Sunflower brand files.

STEEL FURNITURE

ART STEEL PRODUCTS.—263, Kalbadevi Road, Bombay 2. Phone: 34669. Grams: "GOVINSAFE." Manufacturers of Steel Cabinets, Safes, Steel Furniture, Padlocks and Specialists in Sofa-cum-Bed.

BOMBAY SAFE MANUFACTURING CO.—307-9, Kalbadevi Road, Bombay 2. Phones: 22367 (Office & Showroom), 71589 (Factory). Manufacturers and Dealers of Steel Furniture, Hospital Equipment, etc.

CHANDAN METAL PRODUCTS PRIVATE LTD.—Manufacturers of Steel Furnitures & Equipment for Offices, Homes, Hospitals, Canteens, Libraries, etc., 43, Tulsi Nivas, D-Road, Churchgate, Bombay 1. Executive Office & Works, Industrial Area, Gorwa Road, Baroda 3. Regd. Office: 13, Koregaon Park, Poona 1.

E. PEERBHOY & SONS.—Prop. Indian Durries Emporium. 64, Shahru Castle, Mohamedali Road, Bombay 3. Phone: 23806. Grams: "INDIAWEAVE."

Govin's Safe Manufacturing Co.—266/68, Kalbadevi Road, Bombay 2.

HINDUSTAN FABRICS & STORES PRIVATE LTD.—Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phones: 27636 & 27358.

JANAK MANUFACTURING WORKS.—Antop Hill, Wadala, Bombay 31. Manufacturers of Steel Furniture and Hospital Equipments.

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KHIRA STEEL WORKS PRIVATE LTD.—Executive Office & Factory: Ghodbunder Road, Santa Cruz, Bombay 54. Grams: "STEELCASE." Phones: 88002 & 89569. Regd. Office: Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phones: 27638 and 27636. Show-room: Fulchand Nivas, Chowpatty Sea Face, Bombay 7 and also at Khira Bhavan, Sandhurst Bridge, Bombay 7. Grams: "SWAKALA." Phone: 27108.

NATIONAL STEEL EQUIPMENT CO.—Naigaum Road, Dadar, Bombay 14. Phone: 61755. Grams: "BEDLOCKER," Bombay-Dadar. Makers of Hospital Furniture and Stainless Steel Canteen Equipment.

RONEO LIMITED.—39, Bastion Road, Fort, Bombay 1. Phone: 262140. Grams: "RONEOINDIA." Manufacturers of Steel Equipment, Visible Records, "NEOPAST" Postal & Insurance Franking Machine. Sole Dealers in India for Allwyn Steel Equipment & Furniture.

STEEL CRAFTS.—Bakewell House, 384, Cadell Road, Bombay, 28. Grams: "FURNITURE." Manufacturers of all types of Steel Furniture and Spray Painters. Pioneers of Steel Storage Racks. Showrooms: 2/12, Dadyseth Agiary Lane, Kalbadevi Road, Bombay 2 and at Dada Manzil, 67/A, Mahomedalli Road, Bombay 3.

Steelmade.—Dr. Annie Besant Road, Worli, Bombay 18.

Sudarshan & Co.—209, Masjid Bunder Road (opp. State Bank), Bombay 3.

STEEL TUBULAR POLES (MFRS.)

BOMBAY TUBES & POLES CO.—Manufacturers of Electric Tubular Poles (on Government & Municipal Lists). Darukhana, Mazagon, Bombay 10. Phone: 40300. Grams: "TUBESPOLES."

INDIA ELECTRIC POLES MFG., CO.—Farida Villa, 108, Waterfield Road, Bandra, Bombay 50. Phone: 73560. On Government and Municipal Lists.

STEEL (SHAFTINGS)

AJMERA BROTHERS.—192/A, Panjrapole Road, Near Madhav Baug Post Office, Bombay 4. Phone: 42628. Grams: "PULLEYBELT." Importers & Stockists of M. S. Bright Drawn Shaftings, Round, Square and Hexagonal.

DHIRAJLAL & CO.—31, Sindhi Lane, Nanubhai Desai Road, Bombay 4. Phone: 72592. Grams: "WILDERNESS." Importers & Stockists of M. S. Bright Drawn Shaftings—Round, Square & Hexagonal.

R. SAVAILAL & CO.—39, Sindhi Lane, Khetwadi Main Road, Bombay 4. Grams: "GLUEACID." Phone: 72211. Direct Importers of M. S. Bright Bars Shaftings—Round, Hexagonal and Square.

STEVEDORES AND DUBASHES

Adamally Sons Ltd.—277, Nagdevi Street, Bombay 3.

ARDESHIR B. CURSETJEE & SONS (PRIVATE) LTD.—6, Rampart Row, Fort. Phones: 254223, 252543 & 254077. Grams: "GREYHOUND." Stevedores & Dubashes, Clearing & Forwarding Agents.

BOMANJI DHUNJIBHOY PRIVATE LIMITED (Established 1867).—17, Murzban Road, Fort, Bombay. Dubashes, Landing & Shipping Contractors for B.I.S.N. Co. Ltd., work of every description pertaining to vessels undertaken, Shipping Contracts for Refrigerated Cargoes, Supply of Skilled & Unskilled Labour & Painting of Vessels in both the Graving Docks Undertaken. Stockists of Ships Bottom Compositions & Various Ready Mixed Paints. Importers of International Bottom Paints & Compositions, London and American & Canadian Lumber & Lignum Vitae and Cork Standard Life Jacket. Exporters of General Goods. Grams: "SHIPWRIGHT." Phones: 26-3417 & 26-3418 (Head Office); 40887 (Mazagon Dock) (Stores); 40927 (Mazagon Dock) (Labour); 263767 (Crawford Market); 41026 (Sakerwadi Godown).

CASSINATH M. B. EDULJEE SONS.—17, Bastion Road, Fort. Phone: 261657.

Cawasji Behramji & Co.—City Ice Building, 298, Bazargate Street, Fort. Bombay.

Cowasjee Eduljee's Sons.—Elphinstone Circle, Fort.

Darashaw B. Cursetjee's Sons.—Darabshaw House, Ballard Road.

Eastern Bunkerers, Ltd.—Scindia House, Dougall Road, Ballard Estate.

Ferns Ships Supply Company.—Post Box No. 1508, Wakefield House, Ballard Estate, Bombay 1.

Hill, Son & Dinshaw Ltd.—Marshall's Bldg., Ballard Road, Bombay 1.

HIRALAL MAGANLAL & CO.—Voilin Market, Sheikh Memon Street, Bombay 2. Phones: 20933 & 20486. Grams: "WALNUT." Shipchandlers, Deck & Engine Store Suppliers, Shipwright Contractors & Ship Repairers.

Kanji Jadhavji & Co.—Masjid Bridge, Mandvi.

Maneckji & Jamshedji Company.—Ahmed Building, Gunpowder Road, Mazagaon Tram Terminus, Bombay 10.

New Dholera Shipping & Trading Co. Ltd.—293, Dr. Dadabhoy Naoroji Road, Bombay 1.

Narottam & Pereira Private Ltd.—Scindia House, Dougall Road, Ballard Estate. Phone: 26-2461. Grams: "JALATHARG."

NOWROJEE JAMSETJEE DUBASH & CO. (ESTD. 1862).—321, Frere Road, Fort, Bombay. Phone: 262068. Grams: "ROYALASTIC," Bombay.

Patel, D. C., & Co.—268, Bazar Gate Street, Fort.

PRABHULAL L. PANDYA & CO.—26, Podar Chambers, Parsi Bazar Street, Fort, Bombay 1. Phone: 251794. Grams: "PRAPANDYA." Salt Merchants, Freight & Chartering Brokers, Steamships Agents, Stevedores and Dubashes.

Purshotamdas Madhavani & Co. Ltd.—Regd. Office: Botawalla Building, 8, Horniman Circle P.O. Box No. 274, Bombay.

Ruttonjee Bomanjee & Co.—60, Forbes Street.

Shalebhoy Tyebjee & Sons.—12, Bruce Street, Bombay 1.

Sorabji Pestonji & Co.—105, Apollo Street, Fort.

Tookaram Hariba & Sons, R. H.—Sadguru Sadan, 15, Babulnath Road, Bombay 7.

STRAW-BOARDS

Abdullabhai Fidally & Co.—24, Sutar Chawl, Bombay 2.

Advani, J. B., & Co. Ltd.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.

Ambalal Dharamchand & Co.—1, Esaji Street, Vadgadi, Bombay 3.

Ashok Brothers Private Ltd.—Mubarak Manzil, 104, Apollo Street, Fort.

Bombay Paper Marketing Co.—Podar Chambers, Parsi Bazar Street, Fort.

CARDBOARD SUPPLIERS.—6, Tank Street, Surti Mohalla, Bombay 8. Phone: 41718. Grams: "RAOOF." Dealers in Gray Boards Manufactured by Western India Paper and Board Mills Private Ltd., Vikhroli.

Hardcastle, Waud & Co., Ltd.—Alice Building, Hornby Road, Fort.

India Paper Corporation.—64, Sutar Chawl, Bombay 2.

International Paper Co.—26, People's Bldg., Sir Phirozshah Mehta Road, Fort.

Jayantilal J. Gandhi & Co.—45, Mint Road, near G. P. O., Fort.

Kanthawala, N., & Co.—77, Medows Street, Fort.

Kikabhoy Chandabhoy.—33-35, Mangaldas Road, Bombay 2.

Mansukhlal Sukhlal & Co.—Ghoga Street. Fort.

Mahomedally Hebatbhoy & Co.—15, Mirza Street, Bombay 3.

Mohanlal & Co.—56, Sutar Chawl, Bombay 2.

Pardiwala Paper Mart.—32/A, Parsi Bazar Street, Fort, Bombay.

Patel, B. K., & Co.—106, Medows Street, Fort.

Prabhat Trading Company.—Vithal Sayana Building No. 2, Lohar Chawl, Bombay 2.

Shantilal Shah & Co.—Bombay Mutual Annexe, 17, Gunbow Street, Fort.

Siddho Mal & Sons.—49, Sutar Chawl, Bombay 2.

Sivramakrishnan, M.—Hazi Manzil, 82-86, Abdul Rehman Street, Bombay 3.

United Import Co., The.—67-69, Mahomedalli Road.

Universal Trading Corporation, The.—43, Mahatma Gandhi Road, Fort.

STRUCTURAL ENGINEERS & CONTRACTORS

ALCOCK, ASHDOWN & CO., LTD.—Marine, Mechanical, Structural and Electrical Engineers. Defence Works—Mazagon, Bombay 10. Phones: 77211-13 (Works); 251321-27 (Office). Grams: "MORRISONS." Ramasar Works Bhavnagar. Phone: 415. Grams: "ALCOCKS." Managing Agents: Turner, Morrison & Co. Private Ltd. 16, Bank Street, Fort, Bombay.

ARUNODAYA ENGINEERING CORPORATION.—Electrical & Mechanical Engineers. Specialised in erection of Heavy Industries such as Electric Power Generating Stations, Steel Plants, Heavy Storage Tanks, Electric Sub-Stations, Transmission Lines, Cable laying, etc. Navsari Chambers, Outram Road, Fort, Bombay 1. Phone: 265382. Grams: "ARUNENGCOR."

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BHARAT TANK & STEEL CO., THE.—64, Podar Chambers, Parsi Bazar Street, Fort, Bombay. Phone: 251471. Grams: "GREND." Steel and Stainless Steel Fabrication of Industrial Equipment for Chemical, Sugar, Cement, Oil, Dyes and Dairy Industries and Structural Work.

Bombay Rolling Shutters.—Mansukh Nivas, 2nd floor, 188, Khetwadi Back Road, Bombay 4.

BRIJLAL & HARGOVIND.—Iron & Brass Founders & Contractors. W. I. Split Pulley Manufacturers, 253, Duncan Road (Near BEST Power House), Bombay 8. Phone: 40668. Grams: "PULLEYS," Byculla.

GREAT WESTERN ENGINEERING WORKS.—Sea View, 1st Pasta Lane, Colaba, Bombay 5. Phone: 212016. Grams: "GRENWENWORK." Structural & Mechanical Engineers & Contractors. Tank and Railway Equipment Mfrs. & Suppliers.

Gupta Manufacturing Works.—Works: Cotton Green, Bombay.

INTERNATIONAL STRUCTURAL ENGINEERING WORKS LTD.—Mansukh Nivas, 2nd Floor, 188, Khetwadi Back Road, Bombay 4. Phone: 76389. Grams: "STEELFRAME." Factory: Vihar Road, Saki Naka, Kurla, Bombay 37. Phone: 86921. Manufacturers of Storage Tanks, Rolling Shutters, Steel Windows, Doors & Grills, Steel Chimneys, etc., etc.

Mapara Engineering Co.—381, Dadabhoy Naoroji Road, Bombay 1. Phone: 25-3398. Manufacturers of Mild Steel and Stainless Steel, Chemical and Pressure Vessels, Storage Tanks and all kinds of Sheet-metal and Structural works.

MAXFIELD ENGINEERING CO.—Mechanical & Structural Engineering Workshop, Old Nagardas Road, Near Dhobi Ghat, Andheri (East), Bombay 58. Phone: 70603.

Metals Private Ltd.—269, Dr. Dadabhai Naoroji Road, Bombay 1.

Richardson & Cruddas Ltd.—Byculla, Bombay 8.

SAIF WELDING & ENGINEERING WORKS.—Structural & Mechanical Engineers & Iron Founders. 130, Suklaji Street, Bombay 8. Phone: 73749. Grams: "STEELTANK." Specialists in Manufacturing Chemical & Industrial Plants, Storage tanks for oil, water, chemicals & electroplating plants, Chimneys and pressure vessels. Conservancy equipment for Municipalities. Wheel barrows and material handling equipment. Structural Jobs—Light & Heavy. Ornamental Grilles, Gates & Fencings in Stainless Steel, Monel and Non-Ferrous. Flat Springs for Automobiles.

SHUBHDWAR ROLLING SHUTTERS & ENGINEERING CO.—15, Bank Street, Fort, Bombay 1. Phone: 254185. Grams: "SHUBHROLL." Manufacturers of Steel and Aluminium Rolling Shutters, Window grilles, Collapsible gates and all types of Steel Fabrication Works, Silver tipped electrical contacts and Dealers in Machinery.

Steel Industries of Hindustan Ltd.—Magazine Street, Darukhana, Bombay 10.

STEEL STRUCTURES PRIVATE LTD.—Sewri Bunder Road, Bombay 15. Phone: 62692. Grams: "ARCWELD." Fabricators of Mild Steel and Stainless Steel Tanks & Structural Works.

STRUCTURAL ENGINEERING WORKS LTD.—Managing Agents: Bhagat & Sons Private Ltd. Registered Office: Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay 1. Grams: "BHAGATSON." Phones: 255601-2-3. Chairman: Mr. A. D. Shroff. Managing Director: Mr. N. B. Bhagat. Specialists in the Design and Fabrication of Water Pipes, Oil Pipes, Penstocks, Pressure Vessels, Transmission Towers, Industrial Buildings, Cranes, etc., etc. Complete Mechanised Automatic Welding.

Swastik Rolling Shutters & Engineering Works.—Parel Station Road, Bombay 12.

Testeels Limited.—Prospect Chambers, Dr. Dadabhoy Naoroji Road, Bombay 1.

Western India Engineering Co., The.—Signal Hill Avenue, Sewri, Bombay 15.

STRUCTURAL WATERPROOFING

GLADSTONE LYALL & CO., LTD.—21, Lansdowne Road, Apollo Bunder, Bombay 1. Grams: "GLADSWYLL." Bombay Manager: Cmdr. J. B. Simmons. Regd. Office: 4, Fairlie Place, Calcutta.

SUGAR MERCHANTS

A. H. Bhiwandiwalla & Co. (Bombay) Private Limited.—93-95, Kazi Saiyed Street, Bombay 3.

Abdul Satar Mahmad.—Rehmat Bldg., 4th Floor, Koliwada, Bombay 3.

Abdul Shakur Umar.—Sahigara & Co.—Haji Habib Bldg., Koliwada, Bombay 3.

Amratlal Mohanlal & Co.—104-114, Frere Road, Bombay 9.

Arvindkumar Satischandra, C/o Jayantilal Jagjivandas & Co.—104-114, Frere Road, Bombay 9.

Arunkumar Khimji & Co.—311, Kharek Bazar, Bombay 9.

African Trading Co. Ltd. The.—81, Kazi Saiyed Street, Bombay 3.

Asiatic Electric Trading Co.—46-48, Lohar Chawl, Bombay 2.

Bhajanlal Lachmandas Menda.—104-114, Frere Road, Bombay 9.

Bharti Trading Co.—90-92, Kazi Saiyed Street, Bombay 3.

Bhupatrai Kalidas & Co.—195, Samuel Street, Bombay 9.

Bharat Soft Sugar Co.—120, Kazi Saiyed Street, Bombay 3.

Bhairamal Prahladrai.—226, Kalbadevi Road, Bombay 2.

Bhivraj Devichand.—331, Kalbadevi Road, 3rd Floor, Bombay 2.

Bombay Sugar Trading Co.—104-114, Frere Road, Bombay 9.

Chhaganlal Tribhovandas & Co.—104-114, Frere Road, Bombay 9.

Chhanalal Vadilal.—44, Vithalbhai Patel Road, Bombay 4.

Chandulal Kanjibhai.—86, Dontad Street, Masjid Bunder Road, Bombay 3.

Chandulal Mohanlal.—Ram Bldg., 2nd Floor, Bhuleshwar, Kumbhar Wada, Bombay 4.

Chandulal Kantilal.—722, Cotton Exchange Bldg., Kalbadevi, Bombay 2.

Chandulal Rameshwardas.—Mani Mahal, 4th Floor, 353, Kalbadevi Road, Bombay 2.

Chimanlal Punjalal.—29, 3rd Bhoiwada, Bhuleshwar, Bombay 2.

Chinubhai Ambalal & Co.—104-114, Frere Road, Bombay 9.

Chunilal Bhagwandas & Co.—28, Mudi Bazar, Mandvi, Bombay 3.

Deoji Gokaldas & Co.—Gaya Bldg., Musjid Bunder Road, Bombay 3.

Dhirajlal Amratlal.—104-114, Frere Road, Bombay 9.

Dhirajlal Manilal.—104-114, Frere Road, Bombay 9.

Dinesh Amratlal.—Anand Mahal, Babulnath Road, Bombay 7.

E. H. Kathawala & Co.—262-270, Bhat Bazar, Bombay 9.

Girijashanker Revashanker & Co.—104-114, Frere Road, Bombay 9.

Gokalchand Shetty.—54, Brahmanwada Road, Matunga (G.I.P.), Bombay 19.

Gopalshai Motiram.—326, Swadeshi Market, 1st Floor, Bombay 2.

Gordhandas Kirchand & Co.—194, Zaveri Bazar, Bombay 2.

Gordhandas Ranchhoddas.—Shakti Nivas, 287-289, Samuel Street, Bombay 9

Gulabray Nathoobhai, C/o Manordas Himatlal.—104-114, Frere Road, Bombay 9.

Haji Adamji Sons.—91, Mohamedalli Road, Rangoonwalla Bldg., 2nd Floor, Bombay 3.

Haji Esmail Nurmahomed Co.—Dada Manzil, 3rd Floor, 67-69, Mohamedalli Road, Bombay 3.

Haji Shakur Haji Jamal Nurmohamed.—Noor Palace, 1st Floor, 101, Mohamedalli Road, Bombay 3.

Haji Siddik Haji Karim Jiya.—104-114, Frere Road, Bombay 9.

Hansraj Hariram & Co.—Fazalbhoy Bldg., Opp. Flora Fountain, Mahatma Gandhi Road, Bombay 1.

Haridas Vishram & Co.—91, Kazi Saiyed Street, Bombay 3.

Harilal Manmohandas Parekh.—104-114, Frere Road, Bombay 9.

Hariram Velji & Co.—65-67, Damar Galli, Bombay 9.

Hemchand Mohanlal & Co.—Javeri, 20, Dhanji Street, Bombay 3.

Himatlal Dhirajlal & Co.—Laxmi Bldg., 1st Floor, 43, Nagdevi Cross Lane, Bombay 3.

Himatlal Parshotamdas Parekh.—104-114, Frere Road, Bombay 9.

Hindustan Sugar Mills, Ltd.—Jehangir Wadia Building, 51, Mahatma Gandhi Road, Fort.

Hirji Keshavji Kesarwala.—303, Kharek Bazar, Mandvi, Bombay 9.

Hollaram Bikhchand & Sons.—387-89, Narshi Natha Street, Katha Bazar, Bombay 9.

Hussenbhai Jeewanjee.—Currimjee Bldg., Koliwada, Bombay 3.

Indian Sugar Depot.—Shop No. 4, Mapla Masjid, Khand Bazar, Bombay 3.

Jagdeoshanker Sharma.—Hamat Building, New Parbhadevi Road.

Jamnadas Juthabhai & Co.—217, Samuel Street, Bombay 3.

Jayantilal Jagjivandas & Co.—104-114, Frere Road, Bombay 9.

Jayantilal & Co.—335, Samuel Street, Vadgadi, Bombay 3.

Jethabhai Bhanji & Co.—5, Garibdas Street, Vadgadi, Bombay 3.

Jethabhai Gopalji & Co.—361, Duncan Road, Bombay 4.

Jhamandas Thakurdas.—104-114, Frere Road, Bombay 9.

Jitendrakumar & Co.—232, Vadgadi, Bombay 3.

Jivanlal Lallubhai.—805, Cotton Exchange Bldg., Kalbadevi Road, Bombay 2.

Kalidas Harjivan.—195, Khoja Galli, Bombay 9.

Kanji Velji.—74-76, Kazi Saiyed Street, Bombay 3.

Kantilal Dahyabhai.—104-114, Frere Road, Bombay 9.

Kantilal Chhaganlal Zaveri.—Gay Bldg., R. No. 52, 4th Floor, Musjid Bunder Road, Bombay 3.

Kantilal Maganlal Jhaveri.—192, Zaveri Bazar, Bombay 2.

Kantilal Vishnudas.—63-65, Cathedral Street, Bombay 2.

Kassim Haji Tayeb & Co. Ltd.—Karimji Bldg., Katha Bazar, Bombay 9.

Keshavlal Parsram.—104-114, Frere Road, Bombay 9.

Keshavji Dhanji & Co.—Bhailal Bhuvan, 1st Floor, 118, New Chinch Bunder Road, Bombay 9.

Kesar Sugar Works Ltd., The.—104-114, Frere Road, Bombay 9.

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Kikabhai Gulamhusen.—210, Samuel Street, Vadgadi.
Kilachand Devchand & Co., Ltd.—45-47, Apollo Street, Fort.
Kolhapur Sugar Mills Ltd., The.—The United Agencies Ltd. Agents, Imperial Bank Bldg. Annexe, Apollo Street, Bombay 1.
Kumarpal Ratanpal, C/o Ratanji Virpal & Co.—104-114, Frere Road, Bombay 9.
Laxmichand Dahyabhai & Co.—32, Kazi Saiyed Street, Bombay 3.
Louis Dreyfus & Co.—Nicol Road, Ballard Estate.
Madhavji Harjibhai & Co.—Station Road, Kalyan.
Madhukar & Co.—311, Narsi Natha Street, Bombay 9.
Maganlal Bhagwandas & Co.—104-114, Frere Road, Bombay 9.
Mahadev Rameshwarlal.—12-14, Parsi Galli, Dhanji Street, Bombay 3.
Mahendrakumar Sevantilal & Co.—378-80, Narsi Natha Street, Katha Bazar, Bombay 9.
Mahipatrai Jadavji & Co.—79, Masjid Bunder Road, Bombay 3.
Manharlal Mohanlal Suratwala.—Patel Bldg., 20, Dady Seth Agiari Lane, P.O. Box No. 2482, Bombay 2.
Manordas Himatlal.—104-114, Frere Road, Bombay 9.
Manordas Parshotamdas Parekh.—104-114, Frere Road, Bombay 9.
Manoharlal Shersinghdas.—Jai Hind Estate No. 2, Bhuleshwar, Bombay 2.
Mansukhlal Hathising & Co.—31, Abdul Raheman Street, Bombay 3.
Motipur Sugar Factory Ltd., The.—164-166, Kambekar Street, Bombay 3.
Mohanlal Chhaganlal.—Suraj Bhuvan, 2nd Floor, 30, 2nd Bhoiwada, Bombay 2.
Mulji Ratanshi & Co.—334, Narsi Natha Street, Bombay 9.
Nagindas Harjivandas Shah, C/o Harjivandas Dipchand.—Dana Pith, Bhavnagar (Saurashtra).
Nanji Shamji & Co.—Ganpat Napu Bldg., 116, New Chinch Bunder Road, Bombay 9.
Nathalal Bahechardas & Co.—809, Cotton Exchange Bldg., 8th Floor, R. No. 809, Bombay 2.
National Confectionery Mfg. Co.—263, Samuel Street, Bombay 3.
Natvarlal Mohanlal & Co.—318, Kharek Bazar, Bombay 9.
Navnitrai Harivallabhdas, C/o Manordas Himatlal.—104-114, Frere Road, Bombay 9.
Navinchandra Nagardas & Co.—67, Essaji Street, Bombay 3.
Navinchandra Tulsidas, C/o Narottamdas Harivallabhdas.—80, Kazi Saiyed Street, Bombay 3.
Paira Singh Balkishen.—79, Kazi Saiyed Street, Bombay 3.
Parekh & Co.—York Building, Hornby Road, Fort.
Parikh Vrajlal Narandas.—80-84, Moti Bhuvan, Cathedral Street, Bhuleshwar. Bombay 2.
Parsram Parumal & Co.—Talreja, 104-114, Frere Road, Bombay 9.
Parsram Ramchand.—Nafees Chambers Annexe, Carnac Road, Bombay 1.
Patel Bros.—531, Cheera Bazar.
Pavri Sons & Co.—93-97, Bazar Gate Street, Fort.
Popatlal Dalpatlal & Co.—28, Mudi Bazar, Mandvi, Bombay 3.
Prabhodhan Bhujangilal & Co.—94, Kazi Saiyed Street, Bombay 3.
Punamchand Motilal.—104-114, Frere Road, Bombay 9.
Ranchhoddas Meghji.—288, Bhat Bazar, Bombay 9.
R. B. Jessaram Fatechand.—104-114, Frere Road, Bombay 9.
R. Shantilal.—15, Navi Wadi, 4th Floor, Dady Seth Agiari Lane, Bombay 2.
Rameschandra Prabhudas & Co.—104-114, Frere Road. Bombay 9.
Ramgopal Nandikishore.—Bhuleshwar, Jai Hind Bldg. No. 1, Bombay 2.
Ramniklal Vadilal & Co.—9, Chinch Bunder Road, 1st Floor, Bombay 9.
Rasiklal Himatlal.—104-114, Frere Road, Bombay 9
Ratanshi Assaria & Co.—99-103, Kazi Saiyed Street. Bombay 3.
Ratanji Virpal & Co.—104-114, Frere Road, Bombay 9.
Ratilal Bhavan & Co.—136, Kazi Saiyed Street, Bombay 3.
Ratilal Madanji.—104-114, Frere Road, Bombay 9.
Rugnath Tricumdas.—324, Kharek Bazar, Bombay 9.
Sankalchand G. Shah & Co. Ltd.—Hanuman Bldg., Tamba Kanta, Pydhonie, Bombay 2.
Sha. Harkisondas Jagjivandas.—Mukund Mansion, 105, Vithalbhai Patel Road, Bombay 4.
Shah Govindji Padamshi.—317, Kharek Bazar, Bombay 9.
Shah Kantilal Chunilal & Co.—327, Kharek Bazar, Bombay 9.
Shah Mohanlal Natvarlal Bardoliwalla.—77-79, Vithalwadi, Bombay 2.
Shah Nagindas Jechand.—118-122, Kazi Saiyed Street, Bombay 3.
Shah Pravinchandra Bhikhabhai.—Sai Bhuvan. 143, Princess Street, Bombay 2.
Shah Sevantilal Chunilal & Co.—104-114, Frere Road, Bombay 9.
Shah Sevantilal Chunilal & Co.—71-73, Essaji Street, Bombay 3.
Shankerlal Rasiklal.—Diamond Bldg., Lohar Chawl, Bombay 2.
Shantilal K. Shah & Co.—116, Narayan Dhuru Street, 1st Floor, Bombay 3.
Shantilal Maganlal Nadiadwala.—Laxmidas Chandaramji Bldg., 229-231, Kariana Bazar, Bombay 3.
Sheodialmal Surajbhan.—11-13, Malharrao Wadi, Kalbadevi Road, Bombay 2.
Shivdanmal Agarwal.—336, Kalbadevi Road, Bombay 2.
Shivlal Bhaichand Co.—45-51, Essaji Street, Bombay 3.
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Sobhachand Ramnarayan Khatod.—Gresham Building, Mahatma Gandhi Road, Fort.
Sobhagyachand & Co.—29, Bhat Bazar, Bombay 9.
Sugar Shippers & Buyers' Association.—General Assurance Co. Building, Hornby Road, Fort.
Surajmal Chandrabhan Dakle.—Anand Mahal, Babulnath Road, Bombay 7.
Swasti Produce Co. Ltd., The.—74-76, Kazi Saiyed Street, Bombay 3.
Swastik Confectionery Works, The.—108, Kazi Saiyed Street, Bombay 3.
Teckchand Lakhmichand.—179, Samuel Street, 2nd Floor, Bombay 9.
Tha. Jagjivandas Tulsidas Co.—Santokchand Bldg., 4th Floor, 318, Vadgadi, Bombay 3.
Tha. Jamnadas Haridas.—45, Mudi Bazar, Bombay 3.
Tha. Premji Pragji Dharamshi.—263, Samuel Street, Bombay 3.
Thakurdas Girdharidas.—382-384, Katha Bazar, Bombay 9.
Tricumdas & Co.—R. No. 406, East India Cotton Assen. Ltd., 4th Floor, Kalbadevi Road, Bombay 2.
Vachhraj Premchand, Bhulani & Co.—72, Marine Drive, Bombay 1.
Vashdev Dabrai.—104-114, Frere Road, Bombay 9.
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.
Waghji Lakhmidas & Co.—82, Kazi Saiyed Street, Bombay 3.
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Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1.

P. Ratilal & Co.—43, Dhanji Street, Bombay 3.

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Belwandi Sugar Farm Ltd.—Industrial Assurance Building, Churchgate, Fort, Bombay 1.

Brady, W. H., & Co. Ltd.—Royal Assurance Building, Churchgate Street, Fort.

GODAVARI SUGAR MILLS LTD., THE.—Fazalbhoy Building, Mahatma Gandhi Road, Fort, Bombay. Phone : 255337-8.

Hindustan Sugar Mills Ltd.—51, Mahatma Gandhi Road, Fort.

Kolhapur Sugar Mills Ltd.—Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1.

Kopargaon Sahakari Sakhar Karkhana Ltd.—Fazalbhoy Building, Mahatma Gandhi Road, Bombay 1.

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Maharashtra Sugar Mills Ltd.—Industrial Assurance Building, Churchgate, Fort, Bombay 1.

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Sepulchre Brothers (India) Ltd.—Taj Building, 210, Hornby Road.

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SURGICAL INSTRUMENTS & APPLIANCES

Adair Dutt & Co., Ltd.—Calcutta National Bank Building, Sir Phirozshah Mehta Road, Fort.

Alliance Medical Co.—Dwarkadas Building, 457, Sandhurst Road, Bombay 4.

Bombay Surgical Co.—New Charni Road, Bombay No. 4.

B. PAREKH & CO.—Head Office : 383, Kalbadevi Road, Bombay. Phone : 34563. Branch : 8A, Peerbhoy Building, Princess Street, Bombay. Phone : 20608. Grams : "GUMMIWORKS." (On Government Approved List). Direct Importers and Wholesale Dealers in Surgical Rubber Goods, Instruments, Apparatus and Appliances. Sole Distributors in India for : Continental Gummi Werke, Hanover, and Nova Pressameters and Stethoscopes, Germany. Representatives for India for "PHOENIX" Surgeon and Post Mortem Gloves Manufactured at Bhavnagar.

CHAPMAN & CO., K.—462, Sandhurst Road, Bombay 4. Phone: 70448. Grams : "TRUSSWORKS." Manufacturers of Hernia Trusses, Abdomen Belts, Deformity Appliances, and Artificial Limbs.

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DAWAWALA BROTHERS.—102, Girgaum Road, Bombay 4. Grams : "VAKRANGI." Dealers in Surgical, Scientific, Laboratory & Hospital Equipments.

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Jadavjee Goverdhandas & Co.—58-60, Princess Street, Bombay 2.

Jagjivandas & Co.—Princess Street, Bombay.

Jagtiani, J. T.—National House, 6, Tulloch Road, Apollo Bunder, Bombay 1.

J. L. Morison Son & Jones (India) Ltd.—Ballard Estate, Bombay 1.

Kanchanlal Maganlal & Co.—Bode Chawl, Princess Street, Bombay 2.

Kantilal Chhotalal & Co.—22, Babu Genu Road, Princess Street, Bombay 2.

Mahomed Husain & Bros.—106, Kansara Chawl, Kalbadevi, Bombay 2.

Malgham Bros.—26, Old Custom House Road, Fort.

Martin & Harris Ltd.—Savoy Chambers, Wallace Street, Fort.

Modern Traders.—Dwarkadas Mansion (Entrance Benham Hall Lane), 457, Sandhurst Road, Bombay 4.

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Patravali, N. P., & Co.—Fort Chambers, Hamam Street, Fort.

Phillips & Co.—Waterloo Mansion, Mayo Road, Chemists and Opticians.

Rajni Industrial Corporation.—Kitab Mahal, 192, Hornby Road, Fort.

Reliance Electric & Hardware Stores.—55, Krishna Bhuvan, Lohar Chawl.

Scientific Apparatus & Chemical Works Ltd.—Krishna Building, Bori Bunder.

Scientific & Industrial Supplies Corporation.—Princess Street, Bombay 2.

Scientific Instrument Co., Ltd., The.—Navsari Building, 240, Hornby Road.

Shah, M., & Co.—Kanji Mansion, Sandhurst Road, Bombay 4.

Thomson & Taylor.—119, Mahatma Gandhi Road.

Universal Supply and Trading Co.—Ismail Building, 381, Hornby Road, Fort.

Valab & Co., M.—Podar Chambers, Parsee Bazar Street, Fort.

Visso Trading Co.—462, Sandhurst Road.

Whitten, F. C., & Co.—Commissariat Building, 227, Hornby Road, Fort.

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Zill & Co.—Princess Street, Bombay 2.

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Lawrence & Mayo (India) Ltd.—274, Hornby Road, Fort.

Mercantile Stationery Mart.—261, Abdul Rehman Street, Bombay 3.

Norton & Gregory Ltd. (London).—Office of the Rep., India and Pakistan, "Commerce House," Currimbhoy Road, Ballard Estate, Bombay.

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REMEDIOS & SONS.—255, Dr. Dadabhoy Naoroji Road, Opp. Lloyds Bank Ltd., Fort, Bombay. Scientific & Surveying Instruments Manufacturers.

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Bhatt, T. R., Co.—G. S. Mhaskar Ltd., Lady Jamshedji Road, Dadar, Bombay 14.

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Charagh Din & Bros.—Hyder Building, 64, Wodehouse Road.

Charagh Din & Son.—Linden House, Apollo Bunder.

Dean & Sons.—Kulsum Terrace, opp. Cusrow Baug, Colaba.

Dias, A. R., & Bros.—105, Mahatma Gandhi Road, Fort.

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Dias & Bros., J.—173, Princess Street.
Dias & Co., A. S.—Commissariat Building, Hornby Road, Fort.
Esquire Limited.—141, Mahatma Gandhi Road, Bombay 1.
Excelsior Drapers, Ltd.—Neptune Building, 170, Hornby Road, Fort.
Gonsalves & Victor.—"Hampton Court", 125, Wodehouse Road, Bombay 5.
Laffans (India) Ltd.—Rustom Building, Churchgate Street, Fort.
Lal & Co.—Lansdowne Road, Apollo Bunder.
Narain & Company.—Opp. Churchgate Station.
New Lord & Co.—Royal Terrace, 58, Wodehouse Road, Colaba, Bombay 5.
Oxford Tailors.—Majestic Hotel, Colaba Causeway, Fort.
S. V. Rao & Sons.—Parel, Bombay 12.
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UPPALS & COMPANY.—Tailors, Indian Merchants' Chamber Building, Churchgate Street Extension, Fort. Phone: 241378. Grams: "UPPALMAK."
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Apex Traders.—Advani Chambers, Sir Phirozshah Mehta Road, Fort.
EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.
Firoz Trading Co., Private Ltd.—Kamar Bldg., Cowasji Patel Street, Bombay 1.
General Textile Stores, Ltd.—Beaumon Chambers, 27/33, Medows Street, Fort.
Seth, S. C. & Co., Ltd.—Raja Bahadur Mansion, 14, Hamam Street, Fort.

TANK MANUFACTURERS

Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
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Herman & Mohatta Ltd., B. R.—People's Building, Sir Phirozshah Mehta Road, Fort.
Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.
Mapara Engineering Co.—381, Dadabhoy Naoroji Road, Bombay 1. Phone: 25-3398. Manufacturers Mild Steel and Stainless Steel, of Chemical and Pressure Vessels, Storage Tanks and all kinds of Sheet-metal and Structural works.
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Fakirmohamed Janmohamed.—Madina Building, Palton Road.
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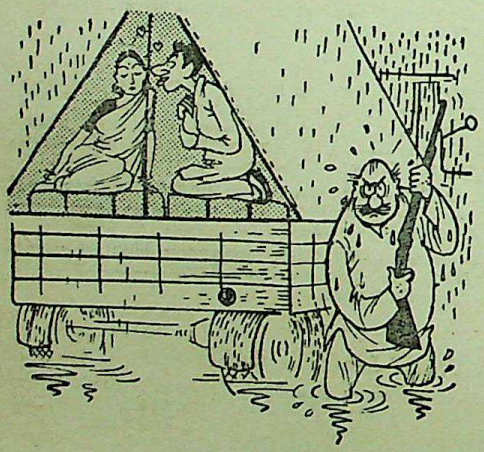

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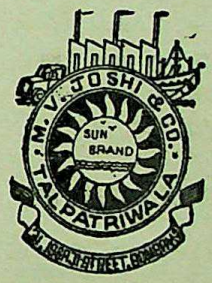

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AMBER TIPS PRIVATE LTD. (Estd. 1922).—75, New Bardan Lane, Mandvi, Bombay 3. Phone : 34684. Grams : "AMBERTIPS." Tea Blenders, Suppliers to Mill Stores, Canteens and Factories. Inquiries for Gift Parcels to U.K. solicited.

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BHANKHARIA BROS.—73, Bazargate Street, P.O. Box 10110, Bombay 1. Phone : 26-2755. Grams : "BHAKHRIACO." Exporters of Quality teas ; Local Branches : (1) 233, Kalbadevi Road, (2) 158, Bazargate Street, Fort, (3) 70, New Bardan Lane. Principal Distributors for Mudis Tea.

Bombay Burmah Trading Corpn. Ltd.—9, Wallace Street, Fort.

BROOKE BOND INDIA, PRIVATE LTD.—Gresham Assurance House, Sir Phirozshah Mehta Road, P.O. Box 271, Bombay 1. Phone : 253527. Grams : "BLENDERS."

Champaklal Morarji & Co.—193, Samuel Street, Vadgadi, Bombay 9.
Desai Dalal & Co.—Duncan Road, Null Bazar.
Dwarkadas Siramdas & Co.—233, Jumma Musjid.
Great Western Stores.—Standard Building, Hornby Road.
Himatlal Jamnadas Dani.—Mandvi, New Bardan Gully, Bombay 3.
Hiralal Raichand & Co.—85, New Bardan Gully.

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Impa Tea Corporation.—176, Dongri Street, Bhat Bazar, Bombay 9.
J. E. Mody & Sons Coffee Specialists.—164, Hornby Road.

K. R. TAVAKKULI & SONS.—Hararwala Bldg., Golpitha, Bombay 4. Grams: "TAVAKKULI." Phone: 40345. Branch: 86, Medows Street, Fort, Bombay. Phone: 254963.

Lipton Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Mehta & Co., F. D.—Standard Building, Hornby Road, Fort.

MODY & COMPANY.—313, Sandhurst Road, Bombay No. 4. Wholesale Tea Merchants and Exporters. Phone No. 70983. Grams: "SAUGAND."

Nathubhai Hirji & Co.—68, New Bardan Lane, Mandvi.
Oomrigar & Sons.—80-90, Lohar Chawl Street.
Paradise Tea Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort, Bombay.
Phillips & Co.—Waterloo Mansion, Mayo Road.
Polson Ltd.—Jn. of Belvedere & Dockyard Roads, Bombay 10.
Prabodhan Bhujangilal.—Khimjee Meghji House, Essaji Street, Vadgadi.

SALDANA'S TEA & COFFEE.—26-B, Gunbow Street, Bombay 1. Tel. 26-2087.

Shah Narotamdas Harjivandas Co. (Estd. 1880).—480, Kalbadevi Road, Bombay 2.
Somnath Motiram.—306, Kharek Bazar, Bombay 9.
Spencer & Co. Ltd.—Spencer's Buildings, Forjett Street, Bombay 26.
Titus George & Co.—45, Poisar Market, Kandivli, Bombay (S.D.).
Vasantlal Vadilal & Co.—215-17, Samuel Street, Vadgadi.

TELEPHONE ENGINEERS AND CONTRACTORS

British Radio & Electric Co.—Prospect Chambers, Hornby Road, Fort, Bombay.
Eastern Radio & Refrigeration Co.—8, Beaumon Chambers, Medows Street, Fort.
Hind Industrial & Mercantile Corp. Ltd.—27, New Queen's Road, Bombay 4.
Super Services (India).—Parekh Building, 18, New Queen's Road, Bombay.
Western Agencies' Co.—421, Lamington Road, Bombay 4.

TEXTILE AUXILIARIES MANUFACTURERS AND DEALERS

AHURA CHEMICAL PRODUCTS PRIVATE LTD.—84, Sion Road, Bombay 22. Manufacturers of all Textile Auxiliaries Surface—active Agents, Turkey Red Oil Synthetic Anionic Detergents and Wetting Agents, Non-ionic Emulsifiers for various industries cationic germicides and softeners cosmetic Raw Materials and other General Chemical Products. Managing Director: S. M. Mistry. Phone: 61294. Grams: "AHURACHEM." Bombay-Sion.

Amritlal & Co., Private Ltd.—Sprott Road, Ballard Estate, Fort.
Anvar Textile Mills Ltd.—Bundeally Building, Sandhurst Road East, Dongri, Bombay 9.

ASSOCIATED ENTERPRISES.—Suppliers of the most popular Rayon Sizing Materials. 7, Kailash Kutir, Behind Mysore Chemicals, Sion, Bombay 22. Phone: 63895.

Auxitex.—177-179, Lamington Cross Road and Calcutta National Bank Building, Sir Phirozshah Mehta Road, Fort.
Bakubhai Ambalal Private Ltd.—Wittet Road, Bombay 1.
Bhogilal & Company, R.—261/263, Hornby Road, Fort.
Bhukhanwala & Sons.—Medows House, Medows Street, Fort.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.

CHEMIDYE TRADING CO., LTD.—Kamer Building, Cawasji Patel Street, Fort, Bombay 1. Phone: 251034.

CIBA OF INDIA PRIVATE LTD.—Royal Insurance Bldg., 14, Churchgate Reclamation, Bombay 1. Phones: 246084-7. Post Box 479.

Durga Laboratories.—71, Bhandari Street, Vadgadi, Bombay 3.

EDGAR HANDLEY & CO. PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones: 253548 and 252934. Grams: "TROJAN."

Firoz Trading Co. Ltd.—Kamar Building, Cawasji Patel Street, Fort.
General Industrial Chemicals.—Beaumon Chambers, 27/33, Medows Street, Fort.
Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay.
Havero Chemical Industries.—78, Keny Road, P. O. Box 6016, Bombay 12. Stockists of "SWAN" brand Cloth Stamping Paste.

HOOSEINBHOY A. LALLJEE SONS & CO.—Navsari Bldg., Dadabhoy Naoroji Road, Bombay 1. Phone: 262052. Grams: "FLOWERMEAD." Sole Agents in India for China National Import and Export Corporation, Tientsin, China.

I.C.I. (India) Private Ltd.—P. B. No. 310, Bombay 1.
Indo-Bobbins & Textile Co., Ltd.—Jan Mansion, Sir Phirozshah Mehta Road, Fort.

INDOKEM PRIVATE LTD.—221, Dadabhoy Naoroji Road, Fort, Bombay. Phone: 265151/5.

Kamat & Co., G. Y.—Lamington Chambers, Lamington Road, Bombay 4.

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KILBURN & CO., LTD.—Gresham Assurance House, Pherozshah Mehta Road, Fort, Bombay. Phone: 251908. Grams: "TASCONIUM."

Kirtikumar & Co.—80, Bhandari Street, Mandvi, Bombay 3. Phone: 20583. Grams: "LALITKIRTI."
Lalitkumar & Co.—86, Kazi Sayed Street, Bombay 3.

NATIONAL TRADING COMPANY, THE.—Manufacturers, Importers & Distributors of Sizing & Finishing Materials and Allied Auxiliaries. 263, Dr. Dadabhai Naoroji Road, P.O. Box 158, Bombay 1. Phone: 265050. Grams: "BHARAT." Branches: Ahmedabad, Calcutta, Coimbatore and Delhi.

New Hind Engineering Co.—63, Nagdevi Cross Lane, Bombay 3.

ORIENTAL MILL SUPPLY CO. PRIVATE LTD.—29A, Alli Chambers, Dean Lane, Fort. Phone: 252428. Grams: "OMILLCO."

Phiroz N. Motabhoy & Co. Ltd.—Motabhoy Building, Corner of Medows and Forbes Streets, Fort, Bombay.
Pioneer Textilaties Corporation Ltd.—Lentin Chambers, Dalal Street, Fort.
Sardesai & Company.—14, Murzban Road, opp. New Empire Cinema, Fort.
Sugar Textiles Service.—Third Floor, Bombay Mutual Building, Sir Phirozshah Mehta Road, Bombay 1.
Suppliers & Trading (India) Ltd.—79, Medows Street, Fort.
Textile Machinery Corporation, Ltd.—Annie Besant Road, Bombay 18.
Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.

TEXTILE ENGINEERS AND MACHINERY IMPORTERS

Altex Limited.—147, Esplanade Road, Fort, Bombay 1. Phone: 251082. Grams: "BETEX".
Apollo Engineering Company.—84, Apollo Street, Fort.
Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Autogenous Welding & Repair Co. Private Ltd.—63, Ferguson Road, Bombay 13.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.
Bharat Electric & Engineering Corporation.—Dalal Street, Bombay 1.
Bracewell Private Ltd.—50/56, Custom House Road, Fort, Bombay.
Brady, W. H., & Co., Ltd.—Royal Insurance Building, Churchgate Street, Fort.
Collinson & Co., Ltd.—Standard Building, Hornby Road, Fort.
Diarvi Trading Co.—64, Old Custom House Road, Fort, Bombay.

DUESBERG-BOSSON FILS PRIVATE LTD.—Eruchshaw Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone: 263010. Grams: "DUBOSS."

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.
Engineering & Agencies Ltd.—Karim Chambers, Hamam Street, Fort.
Gannon, Dunkerley & Co., Ltd.—Chartered Bank Building, Mahatma Gandhi Road, Fort.

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Greentose Corporation (India).—24, Dalal Street, Fort, Bombay.
Gujarat Trading Syndicate.—41, Medows Street, Fort, Bombay 1. Grams: "GUTRASY."

INDIA RAW PRODUCTS SUPPLY CO.—65, Alli Chambers, Tamarind Lane, Fort, Bombay 1. Textile Machinery & Equipment. Phones: 254645 (Office) and 65178 (Res.). Grams: "KATANKUM."

Indian Commercial Agency.—Regd. Office: Rahimtoola House, 7, Homji Street, Fort.
Industrial Equipment Mfg. Co.—Kasturchand Mills Estate, Bhavani Shankar Road, Dadar, Bombay 28.
Industrial Engineering Co.—45-47, Apollo Street, Fort.

JAYANT MEHTA & CO.—19/21, Hamam Street, Bombay 1. Phone: 252063. Grams: "ROHIT." Branch at Bazarpeth, Bhiwandi, Dist. Thana; Silk Mill Stores & Machinery Specialists, Importers and Manufacturers of Textile Mill Machinery & Stores.

KOTAK & CO.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams: "KOTAKANDEO." Phone Nos. 263331 (3 Lines).

Laxminarayan Mill Supply Co.—Noble Chambers, 116, Parsi Bazar Street, Fort.
Mahendra & Co.—Chatrabhuj Nivas, 70, Vadgadi, Bombay 3.
Mahindra & Mahindra Ltd.—Gateway Building, Apollo Bunder, Fort.
Mangaldas Jesingbhai & Co.—49, Tamarind Lane, Fort.

MEENA TEXTILE PRODUCTS CO.—22, Apollo Street, P.O. Box No. 1616, Bombay 1. Phones: 251148/254039. Grams: "MEENATEX." Importers and Manufacturers' Representatives of Textile Machinery and Spare parts, Leather Goods, Bobbins, etc.

Mehta & Co., P. N.—Cook's Bldg., 324, Hornby Road, Fort.
Mehta Parikh & Co.—45-47, Apollo Street, Fort.
Narotamdas Chunilal & Co.—51, Tamarind Lane, Fort, Bombay.
Ormerods (India) Ltd.—Bank of Baroda Building, Apollo Street, Fort, P. O. Box No. 410, Bombay.
Paramount Textile Agency.—45/47, Apollo Street, Fort, Bombay.
Paramount Traders.—Noble Chambers, 1st Floor, Parsee Bazar Street, Fort, Bombay.
Parekh Bros.—Sangli Bank Building, 296, Bazargate Street, Fort, Bombay.

R. R. JINDE & CO.—14, Mohan Nivas, Chandavarkar Road, Bombay 19. Grams: "GOLDENHILL."

Roberts, McLean & Co. Private Ltd.—Haco House, Sir Phirozshah Mehta Road, Fort.
Shree Vijay Trading Corporation.—71/73, Apollo Street, Fort.

STANDARD TRADING AGENCY PRIVATE LTD.—139, Medows Street, Fort, Bombay 1. Importers & Manufacturers of Textile Machinery and Stores; Exporters of Machinery, Piece-goods and Yarns. Phone: 251449. Grams: "KUBER."

STAR TRADING CO. PRIVATE LTD., THE.—Bank of Baroda Building, 12, Apollo Street, Fort, Bombay 1. Phones: 253480 & 251357. Grams: "STARTRADE." Importers of Textile Machinery. Textile Engineers and Merchants.

Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.

T. M. DESAI & CO.—Post Box No. 617, Commerce House, 4th Floor, 140, Medows Street, Fort, Bombay 1. Grams: "TIMDESAI." Phone: 262633.

Techno Industrial Co.—107, Sir Vithaldas Chambers, 16, Apollo Street, Fort.
Texind Corporation Ltd.—Kermani Bldg., Sir P. M. Road, Bombay.

TEXSPIN PRIVATE LTD.—110, Medows Street, Fort, Bombay 1. Phones: 255701, 255702; (Res.) 89097. Grams: "MAXSPIN."

TEXTILE SUPPLIES SYNDICATE (INDIA) PRIVATE LTD.—India House, 1st Floor, Opp. G.P.O., Bombay. Phone: 26-3564. Grams: "GOODBELT."

Textile Works Ltd.—49-55, Apollo Street, Fort.

VITHAL PURSHOTUM & SONS PRIVATE LTD.—2nd Khetwadi Lane, Bombay 4. Phone: 75744. Precision major spares for Sugar Mills including special pumps for Massicuitte and Molasses. Also Manufacturers of any spares for Major Industries.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.
Wallace, J. P., & Co.—Shale Building, 28-32, Bank Street, Fort.
Y. M. Pathare and Company.—Post Box 1428, 41, Medows Street, Bombay 1.
Zenith Textile Engineering Co.—250, Ripon Road, Bombay 8.

TEXTILE MACHINERY MANUFACTURERS & DEALERS

ASAVE MEHTA & CO.—24/B, Raja Bahadur Compound, Hamam Street, Fort, Bombay. Phone: 253473. Grams: "ASAMEC." Mill Machineries & Accessories Suppliers. Specialists in Winding Machines & Spares.

BIPINCHANDRA & CO.—43, Tamarind Lane, 2nd Floor, Fort, Bombay 1. Winding Machinery & Spares.

Bombay Textile Machinery Manufacturers.—12/14, Trimbak Parasram Street, Bombay 4.

BRIJLAL & HARGOVIND.—Iron & Brass Founders & Contractors. W. I. Split Pulley Manufacturers. 253, Duncan Road (Near BEST Power House), Bombay 8. Phone: 40668. Grams: "PULLEYS", Byculla.

ESSENTIAL ENGINEERING CO.—11, Botawala Building, Elphinstone Circle, Fort. Grams: "ESSENCE". Phone: 252940. Importers, Exporters, Commission Agents and Manufacturers' Representatives.

GENERAL ENGINEERING CO.—Manufacturers of Flour Mill, Spinning, Weaving machinery spare parts. Workshop: 47, Kumbharwada, 5th Lane, Golpitha, Bombay 4. Phone: 70618. Grams: "WORKSMITH." Show Room: Krishna Building, 6th Lane, Kumbharwada, Golpitha, Bombay 4.

G. Y. KAMAT & CO.—Lamington Chambers, 394, Lamington Road, Bombay 4. Phone: 71642. Grams: "CAMOTIM." Sole Distributors for "KULCO" Textile Machinery Parts, Specialised in Yarn Winding Machines, Cone, Cheese and Pirn Winding Machines of all makes and spare parts.

JOHN T. HARDAKER (INDIA) PRIVATE LTD.—Head Office: 65, Apollo Street, Fort, Bombay 1. Phone: 253376. Works: Ferguson Road, Lower Parel, Bombay 13. Phone: 40269. Engineers, Ironfounders, makers of all types of Jacquard Machines for power & Hand Looms. Jacquard Harness Builders, Pattern Cutting Machine Makers, Designers and Card Cutters and Truck Builders. Grams: "JACQUARDS," Bombay. P.O. Box No. 742, Bombay 1.

KUMUDCHANDRA & CO.—29, Dalal Street, Fort, Bombay 1. Phones: Office: 253214, Godown: 264437. Grams: "VERYGOOD." Importers of replacement parts for Textile Winding Materials and Drafting.

MATHER & PLATT LTD.—Hamilton House, Graham Road, Ballard Estate, Bombay 1. Phone: 263555 (2 lines). Grams: "SPRINKLER." Manufacturers of "Vortex" Humidifiers, Bleaching, Dyeing, Printing & Finishing Machinery, etc.

RAVI INDUSTRIES PRIVATE LTD.—Founders, Engineers, Textile Machinery and Machine Tool Manufacturers. Office: 68, Shamset Street, Zaveri Bazar Road, Bombay 2. Works: Bombay Agra Road, Thana (C. Rly.). Phones: Office: 39845. Works: 64-1084. Grams: "ROWEMOTORS."

Star Textile Engineering Works Private Ltd.—12, Apollo Street, Bombay 1.

ZENITH TEXTILE ENGINEERING CO.—250, Ripon Road, Bombay 8. Phone: 42784. Grams: "ZENTEX." Textile Engineers and manufacturers of spare parts of Cotton Spinning and Weaving Machinery. Specialists in Manufacture of Roller Bearing Spindles and Conversion Materials and Drafting.

TEXTILE, PRINTING & FILTRATION TRADERS

WILLIAMS G. & CO., PRIVATE LTD.—Steelcrete House, 5th Floor, Sir Dinshaw Vachha Road, Backbay Reclamation, Bombay 1. Phone: 245952. Grams: "BLANWIRE."

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Aadarsh Vastralaya.—7/8, Sham Gali, Swadeshi Market, Kalbadevi, Bombay 2.
Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
Askay & Co., Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort, Bombay.
Babubhai Choonilal & Bros.—Next to Swadeshi Market, Kalbadevi Road.
Bagoomal, R.—57, Churchgate Street, Fort, Bombay.
Bajaj Brothers Ltd.—Round Building, Kalbadevi Road.
Batliboi, C. J., & Co.—319, Hornby Road, Fort.
Bhagwandas Chatrabhuj & Co.—20, Hamam Street, Fort.
Bhathena & Co., Pirojshah Burjorji.—4-5, Edrus Building, New Charni Road.
Bheroomall Ghanoomall.—Dahanukar Building, Kalbadevi Road, Bombay 2.
Bombay Co., Ltd.—9, Wallace Street, Fort.
Bombay Swadeshi Co-operative Stores Co., Ltd.—Western India House, Sir Phirozshah Mehta Road.
Bulchand Co., L.—Moos Building, 510, Kalbadevi Road, Bombay 2.
Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.
Chotirmall & Co., K. A. J.—Krishna Nivas, New Silk Bazar, Bombay 2.
Chinoobhai & Bros., Ltd.—Churchgate House, Churchgate Street, Fort.
Chunilal Mulchand & Co.—Waterloo Mansions, Mayo Road, Fort.
Commercial Traders.—23-25, Old Hanuman Lane, Bombay 2.
David Sassoon, J., & Co., Ltd.—143, Mahatma Gandhi Road.
D. Patel & Co. (Estd. 1916).—Gaumukh Gully, Mulji Jetha Market, Bombay No. 2.
Dubash Freres & Co.—Victoria Building, Parsi Bazar Street, Fort.
Dulabhdas Manilal & Co.—New Silk Bazar, Kalbadevi.
Durlabhji & Co., B.—Shri Krishna Nivas, Kalbadevi Road.
Ebrahim Manji & Co.—49, Pydhownie Road, Khadak, Bombay 9.
Essardas & Sons.—74, Carnac Road, Bombay 2.
FINLAY, JAMES, & CO., LTD.—Chartered Bank Building, Mahatma Gandhi Road, Fort, Bombay 1. Phone Nos. 251255-59. Post Box No. 73.
Forbes Forbes Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort, Bombay.
Framji Ardaseer Davur & Sons.—Navsari Chambers, Outram Road, Fort.
Gaganmal Ramchand.—P. O. Box No. 2133, New Silk Bazar, Bombay 2.
Gobhai, M. N., & Co.—501, Kalbadevi Road.
Gorakhram Gokalchand (Estd. 1891).—Choksi Chambers, Zaveri Bazar, Bombay 2.
Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Haji Janmohamed Moosa.—27-29, Zakaria Bazar, Sheriff Devji Street.
Hasanali Saleh Mahomed & Co.—Bundeally Building, Sandhurst Road East, Dongri, Bombay 9.
Hassamal Bros.—538, Kalbadevi Road, P. O. Box No. 2236, Bombay 2.
Hassaram & Co., K.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Hazrat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.
Holland-Bombay Trading Co., Ltd.—E. D. Sassoon Building, Dougall Road, Ballard Estate.
Hoosein, M. A., & Bros.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Hotchand Motumal.—331, Hornby Road, Fort, Bombay.
Hukamchand Chanderbhan.—1st Floor, Hira Building, opp. Crawford Market, Carnac Road.
Husein Ebrahim.—75, Mahomedally Road, Bombay 3.
H. V. M. Moosa Motiwalla & Sons, Ltd.—91, Mahomedalli Road, Bombay 3.
India Corporation Ltd.—Indian Globe Chambers, Fort Street, Fort, Bombay.
INDIAN ART MUSEUM PRIVATE LTD.—(Textile Museum), Carnac Bridge, Bombay 3. Authorised Dealers of Mafatlal Group Mills. Phone : 20726. Grams : "INARTMUSE."
Italindia Cotton Co. Ltd.—Indian Globe Chambers, Fort Street, Bombay.
Jamnadas, B.—Mulji Jetha Market, Gaumukh Gully, Bombay 3.
Jamnadas Nanjee Mangrolwalla.—83-85, Bazar Gate Street, Fort, Bombay.
Jassawalla, R. M., & Co.—105, Apollo Street, Fort.
J. A. Thadani & Co.—People's Building, Sir Phirozshah Mehta Road, Fort.
Jeramdas Naumal.—371, Hornby Road, Fort, Bombay.
Jewan Bukhsh Mohammed Jan.—99, Chakla Street, Bombay 3.
Jivandas Bhanaji & Co. (Estd. 1925).—Dwarkesh Gully, Mulji Jetha Market, Bombay 2.
Kala Niketan.—Pravin Court, Queen's Road, Bombay.
Kanshi Ram Kidar Nath.—Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.
Kantilal Sanghvi & Co.—Mherwan Building, Sir Phirozshah Mehta Road Fort.
Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.
Kapur & Sons, Ltd.—Chandra Chowk, 8th Lane, Muljee Jetha Market.
Karanjia & Co., Ltd.—Sukhadwala Buildings, 172, Hornby Road, Fort.
Kashmir Govt. Arts Emporium.—Sir P. M. Road, Bombay 1.
Kavarana Muncherji Heerjibhoy.—New Silk Bazar, opp. Kalbadevi P.O., Kalbadevi.
Kavarana, R. S., & Co.—635, Mistry Building, Girgaum Road, Dhobi Talao.
Kedarnath Singhee & Co.—233-34, Sheikh Memon Street, Bombay 2.
Keshavlal Talakchand (Private) Ltd.—Post Box No. 1472, India House, opp. G.P.O., Bombay. Phone No. 261982. Grams : "CHANDRODAY".
Kewalram & Bulchand.—Shree Krishna Nivas, Kalbadevi Road, Bombay 2.
Kidarnath Kishanchand.—106, Medows Street, Fort, Bombay.
Kimatrai, J., & Co.—Mistry Building, Bomanji Master Road.
Kishinchand Chellaram.—Guzdar House, Dhobi Talao.
Kishinchand & Co. (India).—138, Hornby Road, Fort.
K. Metharam.—491-3, Kalbadevi Road.
KOTAK & CO.—Navsari Building, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Grams : "KOTAKANDCO." Phone No. 263331 (3 lines).
Kroz & Co.—Podar Chambers, Parsi Bazar Street, Fort.
Kundanmal Ramlal.—78/80, New Hanuman Lane, Bombay 2.
Ladhabhai Ravji & Bros.—41, Advani Chambers, Sir Phirozshah Mehta Road, Fort.
L. N. Mehta & Sons.—Laxmi Building, Sir Phirozshah Mehta Road, Fort.
Madhavdas Ragnathdas & Co.—172, Hornby Road.
Madhusudan Gordhandas & Co.—Ganeswadi, Mulji Jetha Market, P.O. Box No. 2110, Bombay 2.
Mahendrakumar & Co.—Central Bank Building, Mahatma Gandhi Road, Fort.
MAHENDRALAL, B.—Dwarkesh Lane, Muljee Jetha Market, Bombay 2. Phone : 34235. Grams : "SELFHELP". Direct Importers of Woollen & Art Silk & Cotton piece-goods.
Mansukhlal Kantilal & Co.—185, Mulji Jetha Building, Princess Street.
Mohanlal & Co.—Chhotalal Bhuvan, 3rd Floor, Kalbadevi Road, Bombay 2.
Mohanlal, D., & Co.—Bomanji Master Lane, near Kalbadevi P.O., Bombay 2.
Mohanlal Goculdas.—Lalsingh Building, opp. Crawford Market.
Moosa Shariff Sons (Estd. 1933).—77, Mohamedali Road, Bombay 3.
Morarji Velji & Sons.—7, Kolbhat Street, Post Box No. 2001, Bombay 2.
MUSRY, G. N., PRIVATE LTD.—Canada Building, Home Street, Fort. Phone : 26-1435. Grams : "DANDELION." Importers and Exporters.
Mysore Silk Depot.—112, Swadeshi Market, Kalbadevi Road, Bombay 2.
Narandas Girdhardas.—Chandra Chawk Lane, Mulji Jetha Market.
Navnitlal Dayalal.—68, Swadeshi Market, Kalbadevi Road.
N. M. Brothers Co.—Shreeji Bhuvan, Lohar Chawl, Post Box No. 2163, Bombay.
Noormohamed Haji Mohamed Mukatey.—Wassiamull Building, 184, Musjid Bunder Road, Bombay 3.
Panalal Silk Mills Ltd.—Atlas Mills Compound, Reay Road, Mazagaon, Bombay 10.
Pavri Sons & Co.—93/97, Bazargate Street, Fort.
Popatlal Ghelabhai & Co.—104, Chuckla Street, Bombay 3.
Pragjee Vandrawan & Co.—Pragraj Lane, Mulji Jetha Market.
Premchand Trading Ltd.—7, Dhanji Street, Bombay 3.
P. R. Patell & Co. Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Purshotam Govindjee & Co.—Mulji Jetha Market.
Rajsi Bros.—Opp. B.E.S.T. & Co., Colaba Causeway.
Ralli Brothers, Ltd.—21, Ravelin Street.
Ramchandra Gopal & Co.—Parsi Galli, Dhanji Street.
Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.
Ramkishen & Sons.—Opp. Post Office, Kalbadevi.
Rangoonwala, H. N.—Rangoonwalla Building, 91, Mohamedalli Road.
Rasiklal Nagindas & Co.—Dadar Galli, 4th Shop, M. J. Market.
Roop Kala.—Queen's Chambers, Queen's Road, opp. Marine Bridge.
Roshanali D. Nasser & Co.—68/72, Champa Gully, Mulji Jetha Market.

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Rowe & Rowe.—38, Hornby Road, Fort.
Ruby Trading Co.—Sambava Chambers, Sir Phirozshah Mehta Road, Fort.
Rylands & Sons (Overseas) Ltd.—Cook's Building, Hornby Road.
Saleem Hafiz & Brothers.—94, Modi Street, Fort.
Sassoon, E. D., & Co., Ltd.—E. D. Sassoon Building, Ballard Estate.
Shah Chhaganlal Sevachand.—504, Kalbadevi Road, New Silk Bazar.
Shah, L. P., & Sons.—Central Building No. 2, New Silk Bazar, opp. Kalbadevi P.O., Bombay 2.
Shri Laxmi Cloth Trading Co.—135, Zaveri Bazar, Bombay 2.
Spinner, E., & Co.—8, Tamarind Lane, Fort.
Sorabji Nowroji & Co.—16, Horniman Circle, Fort, Bombay.
Subodhchandra Popatlal (Estd. 1915).—Exporters & Importers, 223-25, Sheikh Memon Street, Bombay 2.
Tirathdas Sons.—New Silk Bazar, Kalbadevi Road, Bombay 2.
Tulsidas V. Patel.—Morarji Goculdas Road, Bombay 2; Kalbadevi Road, Bombay 2.
Unimen Industrial Corporation.—5, Parker Building, 10, Cawasji Patel Street, P.B. No. 1179, Bombay 1.
Utoomal & Assudamal Co.—Bombay Mutual Annexe, Gunbow Street, Fort.
Vadilal Vrajlal & Co.—Peerbhoy Building No. 2, 89, Princess Street.
Valia & Co.—Harganga Mahal, Tram Terminus, Dadar, Bombay 14.
Valibhai Kamruddin.—101, Abdul Rehman Street, Bombay 3.
Valiram Sons.—Patel Building, Bomanji Master Road, Kalbadevi.
Vasi Bros. & Co.—Topiwalla Mansion, Mahomedalli Road.
Vasudev Girdharlal.—Central Building No. 2, New Silk Bazar, opp. Kalbadevi P.O., Bombay 2.
Vaswani, D. W.—11, Bharat Bhuwan, New Silk Bazar, 468, Kalbadevi Road, Bombay 2.
Vaswani, K. D., & Co.—New Silk Bazar, 499, Kalbadevi Road, Bombay 2.
Volkart Brothers.—19, Graham Road, Ballard Estate.
Windmere (India) Ltd.—Exporters of Indian Cotton Piecegoods and Yarn, 110, Sir Vithaldas Chambers, 16, Apollo Street, Fort, Bombay. Tel. Address: "WINDNERE."
Yacoob Ahmed Brothers.—Topiwalla Mansion, Mahomedalli Road.

TEXTILES (HANDLOOM)

INDIAN TEXTILES CO., PRIVATE LTD., THE.—Manufacturers & Exporters of Handwoven Sarees, Brocades, Silks, Cottons, Prints, Woollens, Embroideries, etc. Bombay Office: Taj Mahal Hotel, Bombay 1. Phone: 211771. Grams: "HANDICRAFT." Head Office: Varanasi (U.P.), Phone: 1087. Branches: Great Eastern Hotel, Calcutta, Phone: 231543 and Grand Hotel, Calcutta; 13-N, Connaught Circus, New Delhi, Phone: 46418 and Ambassador Hotel, New Delhi, Phone: 45121/10. Grams: "HANDWOVEN".

THERMAL INSULATION ENGINEERS

GLADSTONE LYALL & CO., LTD.—21, Lansdowne Road, Apollo Bunder, Bombay 1. Grams: "GLADSWYLL." Bombay Manager: Cmdr. J. B. Simmons. Regd. Office: 4, Fairlie Place, Calcutta.

THERMOS FLASK DEALERS

EAGLE VACUUM BOTTLE MFG. CO. PRIVATE LTD.

Manufacturers of
EAGLE BRAND
VACUUM FLASKS
AND REFILLS

Regd. Office
144-146, Sheriff
Devji (Chakla)
Street, Bombay 3.
Tele: 38150
Management
Tele: 23636
Sales & Accounts
Grams:
REGISTERED TRADE MARK "EAGLEFLASK"

THREAD CUTTING TOOLS

EVERGREEN CORPORATION.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 2. Grams: "GREENLEAVE." U.S.A. & English make B.S.W., B.S.F., M/M & B.A. Taps and Dies, Twist Drills, Reamers, Cutters and other Thread Cutting Tools.

TIMBER MERCHANTS

ABBA GANI & CO.—1-2, Victoria Road, Mazagaon, Bombay 10. Phone: 40785. Grams: "TEAKTIMBER." Merchants and Contractors; Largest Stockists in Bombay of Burma and Indian Teak, Jungle & Deal wood, Bamboos & Scaffolding Materials on hire and for sale; Owners of Mustafa Saw Mills.

Abbaskhan Mahamood Khan & Co.—Ghodbunder Road, Andheri.
Abdul Gani Abdul Latif.—99, Kolliwada, Sewri.
Abdulhusain Allibhai.—Tank Bunder, opp. Reay Road Station, Mazagaon.
Aboobakar Mohamed Chhapra & Co.—Islami Bazar, 7, Victoria Road, Byculla.
Alimohammed Ahmed & Co.—55, Dontad Street, Khadak, Bombay 9.

AMRATLAL & CO.—69, Victoria Road, Bombay 10. Phone: 40037 (Office); 71702. (Res.). Dealers in all kinds of Timber, Suppliers to Automobile Companies, Textile Mills, Building Contractors and Furniture Makers.

Amratlal, M., & Co.—Tank Bunder, Reay Road.

ANAND TIMBER TRADERS.—170, Reay Road, Bombay 10. Phone: Office: 42203; Res. 60144.

Andheri Saw Mill & Timber Works.—Ghodbunder Road, Andheri, Bombay. Timber Merchants and Government Contractors. Phone: 86437.
Barodawalla, A. S., & Co.—Altamont Road, Cumballa Hill.
Bejanji Kerbadji & Sons.—Victoria Road, Tank Bunder.
Bharat Timber Mart.—Jambli Moholla, Panjrapole.
Bombay-Burma Trading Corporation, Ltd.—9, Wallace Street.
Bombay Saw Mills Co.—Connaught Cross Lane, Ghorupdeo.
Bombay Timber Importing & Landing Co.—148, Middle Colaba.
Brijmohan Banwarilal.—61, Reay Road, Mazagaon, Bombay 10.
Chunilal Maganlal.—Reay Road, Tank Bunder, Bombay 10.

D. P. CAWASJI & CO.—Connaught Saw Mill Compound, Dhaku Prabhuwadi, Ghorupdeo, Bombay 10. Tel. Address: "JUNGLEWOOD." Timber Merchants.

DARVESH TIMBER MART.—83, Victoria Road, Mustafa Bazar, Mazagaon, Bombay 10. Phone: 71129. Grams: "TIMPLANK." Largest Stockists of Poonwood, Vellapine, Hard jungle wood, White-cedar, Silver-oak, C.P. Teak and also dealers in Burma Teak and Dealwood.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

ESMAIL ESSAK & CO.—87/89, Masjid Street, Kazi Mohalla, Bombay 3. Phone: 72347. Timber Merchants—General Contractors.

Famous Ladders Mfg. Co.—13, Khadak, Dontad Street, Bombay 9.
Faramroze & Co.—Reay Road, Bombay 10.
Fateh Saw Mill & Timber Works.—51, Ismail Curtay Road, Bombay 3.
Fatemahomed Osman Parekh & Co.—77, Victoria Road, Byculla.

GENERAL TIMBER MART.—83, Ismail Curtay Road, Bombay 3. Phone: 41029. Grams: "TIMMART." Timber Merchants, Government & Railway Contractors. Largest Stockists in Burma, Dandelli and C. P. Teak Woods. Leading Dealers in hard Jungle Wood, Vellapine and Poon Wood. Pioneers in Packing Wood.

Gilder, S. D. D., & Co.—40, Victoria Road, Byculla.
Grand Wood Works & Saw Mill.—Connaught Cross Road, Ghorupdeo.
Gulam Husein Meherally & Co.—Ghorupdeo, Connaught Road, Bombay 10.

HAJI EBRAHIM HAJI OOMER & CO.—65/67, Kazi Street, Bombay 3. Phone: 72560. Grams: "GOODTIMBER." General Contractors, Commission Agents, Importers and Exporters. Dealers in all sorts of Timber. Mark of quality H.E.H.O.

Haji Ebrahim Haji Suleman Darwesh & Co.—8, Islami Bazar, Victoria Road.
Haji Ebrahim Karim Mohamed & Sons.—64, New Kazi Street.
Haji Janmahomed, H. A., & Co.—Tank Bunder, Reay Road, Bombay 10.
Hargovindas Shivlal & Co.—Opp. Reay Road Station, Tank Bunder, Bombay 10.

IMPERIAL TIMBER TRADING CORPORATION.—91, Victoria Road, Mustafa Bazar, Bombay 10. Phone: 40232.

J. HARILAL & CO.—Tank Bunder, Reay Road, Bombay 10. Phone: 42834. Grams: "FIRWOOD." Stockists of Teak Wood, Fir, Pine, Deal Wood, Chil Pine and jungle wood.

Janmohamed Habib.—Mustafa Bazar, Victoria Road, Byculla.
Janmahomed Haji Moosa.—Victoria Road, Byculla.
Janmahomed Moledina.—50, Dontad Street, Khadak.
Kanti Wood Works.—Office, Saw Mills, Factory: Quay Street, Darukhana, Bombay 10.
Kantilal Bhaichand & Co.—Opp. Silk Mill, 63, Victoria Road.

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Kantilal Ramanlal & Co.—Reay Road, Tank Bunder.
Kassam Abdulla & Co.—Victoria Road, Mustafa Bazar, Byculla.
Kazi, Ebrahim Dawood.—59, Victoria Road.
Khan Bahadur S. R. Mody.—No. 24, Colaba Chambers, Colaba Road.
Khar Timber Mart.—132, Ghodbunder Road, Old Khar, Bombay 21; Timber and Bamboo Merchants; Dealers in Timber, Bamboos and Bamboo Mats; Scaffolding materials like Bamboos, Planks, Ladders Mundas and Bullies etc. can be had on hire.
Kohinoor Timber Mart.—Reay Road, Tank Bunder, Bombay 10.
Lalji Dewji Mehta.—Victoria Road, Byculla.
Lumber Industries Limited.—Victoria Road, Byculla.

MADHORAM & SONS.—Forest Contractors, 136, Tank Bunder, Reay Road, Bombay 10. Stockists: Chil Pine, Fir Pine, Shisham Wood, Teak Wood, Jungle Wood, etc.

MAKLAI TIMBER MART (ESTD. 1932).—79, Ghogari Mohalla, Bombay 3. Phone: 72342. Grams: "BURMAHWOOD." Timber Merchants, Dealers in all sorts of timber such as Burma Teak, C. P. Teak, White Cedar, Jungle Wood, Deal Wood, etc., etc. Regd. Trade Mark "M.T.M."

Maganlal Nagardas & Co.—126-B, Victoria Road.
Mahomed Janmahomed.—68, Pydhoni Road, Khadak, Bombay 9. Call on 70663. Scaffolding materials as Bamboos, Bullies, folding ladders, wooden planks, etc. can be had on hire & sale.
Malabar Timber Supplying Co.—Opp. Masina Hospital, Victoria Road, Byculla.
McKenzies, Ltd.—Sewri.
Meherally Saw Mill & Timber Works.—Connaught Road, Ghorupdeo.

MERWANJI KOLLABHAI & SONS.—Victoria Road, Bombay 10.

MILLARS' TIMBER & TRADING CO., LTD.—Victoria House, Victoria Road, Bombay 27.

MODY, R. E., & CO.— Timber Merchants, Saw Millars, Railway Contractors and General Commission Agents, Reay Road, Bombay 10. Phone: 41186. Grams: "TIMBERS."

Noormahomed Oosman.—New Kazi Street.
Northern India Timber Corp.—63, Reay Road, Bombay 10.

PAREKH & CO.—Timber Merchants, Direct Importers & Exporters. Sole Distributors for Bombay for Phonopoy in Rosewood Revolving Telephone Stands. 77, Victoria Road, Mustafa Bazar, Bombay 10. Phones: 40782 (Office), 71632 (Res.). Grams: "KAMALKING."

PATEL & CO.—99, Victoria Road, Mustafa Bazar, Bombay 10. Phone: 72936. Head Office: Ghorupdeo Road, Bombay 10. Dealers & Stockists of C.P. Teak and Indian Teak Wood in any Length and Size and Round Logs. Also Poon Wood, Rose Wood, etc.

Patell, P. R., & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Pestonji Jamasji & Co.—Reay Road, Tank Bunder.
Podar Saw Mills.—61, Reay Road, Bombay 10.
Popatlal Parbhudas.—Near Reay Road Station, Tank Bunder.
Potia, Fidaalli Mohamedally & Bros.—51, Husseiny Lakda Bazar, Bellasis Road.
Quality Timber Trading Co.—The Bombay Timber Market Ltd., Shop No. 78, Signal Hill Avenue, Reay Road, Bombay 10.
Ravishanker P. Acharya.—Reay Road, Tank Bunder.
S. D. D. Gilder & Co.—40, Victoria Road, Mazagaon, Bombay 10. Grams: "TREETOP."
Simplez Timber Mart.—66, Pydhonie Road, Khadak, Bombay 9.
Standard Timber Trading Co.—Islami Bazar, Victoria Road, Byculla.
Sunderdas Saw Mills.—Opp. Reay Road Station, Bombay 10.

SUPREME TIMBER TRADERS.—27, Dontad Street, Khadak, Bombay 9. Phone: 77659. Grams: "MYOFFICE," Bombay 9. Stockists & Dealers in Teakwood, Junglewood, Dealwood, Bullies, Wooden Ladders, Furniture, Scaffolding Materials, etc.

TEXTILE & TIMBER TRADERS.—Medows House, Medows Street, Fort. Phones: 252666 and 78319 (Lakri Bunder Depot).

Timber Trading Corporation.—Tank Bunder, Reay Road, Bombay 10.
Timber Wood Syndicate.—All kinds of Timber, Bullies, Mundas, Rafters, Bamboos, etc., available in Big Stock. Ghodbunder Road, Andheri, Bombay 41.

TRAVANCORE TRADING CORPORATION, THE.—213, Dadar Road, Bombay 14. Phone: 63442.

Trinity Timber Syndicate.—57, Dontad Street, Khadak.
Vaid & Co.—26, New Kazi Street, Null Bazar.

VALIMOHAMED HAJI AHMED & CO.—146, Victoria Road, Byculla, P.O. Box 6953, Bombay 27. Stockists of Burma & C.P. Teak, Poon & Jungle Wood of all Species & Deal Wood. Phone: 42586. Grams: "WOODPECKER."

Vishnoo Ballal & Co.—Opp. Reay Road Station, Bombay 10.

WADIA, B. F., & SONS.—Reay Road, Bombay 10. Phone: 40234. Grams: "TIMBERSALE."

Wallace & Co.—9, Wallace Street.
West Coast Timber & Plywoods.—57, Victoria Road, Mazagaon.
Western Australia State Saw Mills, Perth.—Agents: Killick, Nixon & Co., Home Street, Fort.

WOOD BOX PRIVATE LTD.—Sion Trombay Road, Chembur, Bombay 71. Phone: 67284. Sole Manufacturers in India of Multi Colour Printed Wooden Packing Cases; Stockists of Fir & Pine Wood.

Zakriya & Dawood Co.—37, Dontad Street, Khadak, Bombay 9.

TIN BOX MANUFACTURERS

THE METAL BOX COMPANY OF INDIA LTD.—249, Worli Road, Bombay 18. (For details of Products Manufactured see West Bengal Classified Trades Section.)

TIN PRINTERS & BOX (CONTAINERS) MANUFACTURERS

BOMBAY TIN PRINTERS.—221-223, Thakurdwar Road, Bombay 2. Grams: "LITHOPRINT." Phone: 34587. Manufacturers of Printed Decorative Tin Boxes, Containers (Readymade & made to order), Metal Signs, Seals; Tins made of Joints only.

INDIAN METAL CAN MFRS. PRIVATE LTD.—13, Noble Chambers, 116, Parsee Bazar Street, Bombay. Phone: 251603. Grams: "MYRABOLANS." Manufacturers of Tin Containers.

KIV TRADING CO.—17, 1st Parsiwada, Khetwadi, Bombay 4. Phone: 72180. Grams: "KIVGROUP." Manufacturers of Tin Containers, Screw Caps, Aluminium Seals, Pilfer Proof Caps, Anodised Novelties, Presentation Articles, Tin Seaming & Vial Closing Machines.

Kotecha & Co.—231, Dr. Dadabhoy Naoroji Road, Bombay 1.

POYSHA INDUSTRIAL CO. PRIVATE LTD.—Manufacturers of open Top Cans for Processed Foodstuffs, Lithographed and Plain Tin Containers, Crown Corks, Closures, etc., Messent Road, Sewri, Bombay 15. Phone: 72863. Grams: "SANCANS." Branch Factories: New Delhi & Baroda.

Grams: "METALPRINT"
Phone: Office: 254416 / Factory: 87056

THE METAL PRINTERS COMPANY

Office:
Aga Khan Bldg.,
9, Dalal Street,
P. B. No. 411, Bombay 1

Factory:
Marol Naka,
Andheri-Kurla Road,
Bombay 59

Manufacturers of:
Multicolour Metal Containers, Showcards, Posters, Display Materials, Screwcaps, Trays and Strips in all Shapes and Descriptions

SAIFY TIN FACTORY.—Manufacturers of Tin Containers. Upper Duncan Road, Bombay 8. Phone: 42398. Grams: "SAFETINS", Byculla.

THE ORIENTAL CAN MANUFACTURING CO.—1076, Haines Road, Worli, Bombay 18. Phone: 41185. Manufacturers of Lithographed Tin Containers and Packing Materials.

ZENITH TIN WORKS PRIVATE LTD.—Opp. 1st Enclosure, Race Course, Clerk Road, Mahalaxmi, Bombay 11. Phones: 70375 & 70376. Grams: "ZENITHTINS." Manufacturers of Plain & Lithographed Tin Containers and Collapsible Tubes.

TOBACCO DEALERS AND MANUFACTURERS

Behram Bros.—Oomrigar Building, opp. Crawford Market.
BYRAM & CO.—Wakefield House, 11, Sprott Road, Ballard Estate, Bombay.
Dilaj & Co.—20, Hamam Street, Fort.
Godfrey Phillips (India) Ltd.—Kurla Road, Chakala, Andheri, Greater Bombay
Golden Tobacco Co.—Tobacco House, Ghodbunder Road, Vile Parle.
Hiralal Panachand Shah.—Office: Jai Hind Estate No. 1, Cathedral Street, Bhuleshwar, Bombay 2.

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Imperial Tobacco Company of India, Ltd., The.—Factory: P.O. Box No. 6002, Parel, Bombay 12.
Khodadad Sheriar & Co.—No. 2, Crawford Market.
Macropolo, D., & Co., Ltd.—Kermani Building, Hornby Road, Fort.
Mooljee Sicka & Co.—Patel Road, Bombay 4. Branches at Gondia (M.P.), Darjeeling, Champa (M.P.), Aurangabad (Murshidabad), Lucknow, Kanpur, Ambala. Head Office: 51, Ezra Street, Calcutta.
Olympia Cigarette Co. & General Stores.—Metro House, Dhobi Talao.
Phillips & Co.—Waterloo Mansion, Mayo Road, Fort.
Pioneer Industrial Tobacco Works.—Imamwada Road, Bombay 9.
Spencer & Co., Ltd.—Spencer's Building, Forjett Street, Bombay 26.
Star Beedi Works.—Keshav Bhuwan, 1st Sutar Gully, Bombay 4.

TOILETRIES

A.V.R.A. & CO.—Lalsing Building, 6, Lohar Chawl, Bombay 2. Phone: 29021. Grams: "AVRA." Manufacturers & Distributors of "REMY" Brand Toiletries such as Snow, Powder, Brilliantine, Hair Oil, Soap, Tooth Powder, Tooth Paste, etc. Branch: Thambu Chetty Street, Madras 1.
Abdulla A. Baker & Co.—89, Bhajipala Street, Bombay 3.
Akbarally Ebrahimji.—38/C, Cawasji Patel Street, Fort, Bombay. Grams: "Tussibar."
Allmohamed Husein & Co.—229, Jumma Masjid, Bombay 4.
Budroodin Mahomedally & Sons.—238, Nagdevi Street, Bombay 3.
Chesebrough—Pond's Inc.—(Incorporated in U.S.A. with Limited Liability), 13, Gunbow Street, Fort, Bombay 1.
Colgate Palmolive (India) Private Ltd.—Steelcrete House, 3, Dinshaw Vacha Road, Bombay 1.
Ebrahim Allibhoy & Sons.—260-64, Abdul Rehman Street, Bombay 3.
Hebertsons Ltd.—Ewart House, Bruce Street, Fort.
Hindustan Lever Ltd.—Scindia House, Ballard Estate.
I.C.I. (India) Private Ltd.—P.B. No. 310, Bombay 1.
Komal Manufacturing Chemists, Ltd.—23-36, Imperial Chambers, Ballard Estate, Fort.
Madon, M. T., & Co.—The "Corner-Shop", 346, Abdul Rehman Street, Bombay 3.
Modi Gandevia & Co.—Western India House, Sir Phirozshah Mehta Road, Fort.
Muhammed Ahmed & Bros.—22, Cutlery Bazar, Bombay 3.
New India General Stores.—33, Medows Street, Fort, Bombay.
Pearline (Paris).—Rehman Building, Churchgate Street, Fort.
Phillips & Co.—Waterloo Mansions, Mayo Road, Fort.
Sultanali Mohamadali (Estd. 1895).—148, Sarang Street, Bombay 3.
Swastik Oil Mills Ltd.—Saltpan Road, Wadala, Bombay 31.
Tata Oil Mills Company Ltd.—Bombay House, Bruce Street, Fort, Bombay.
Tooba Products.—91, Bhajipala Street, Bombay 3.
Universal Perfumery Works, The.—95, Kambekar Street, Bombay 3.

TOOL MANUFACTURERS AND MERCHANTS

Abdeally, B. M., & Co.—127, Sarang Street, Bombay 3. Phone: 31790.
Abdool Hoosein Jiwajee & Co., 241, Nagdevi Street.
Abdullabhai Faizullabhai Ltd.—Khoka Bazar, Bombay 3.
Adamally Gulamhusein.—191, Khoka Bazar, Sarang Street, Bombay 3.

AGARWAL COMMERCIAL CORPORATION.—35, Bibijan Street, Bombay 3. Phone: 30041 Ext. 11. Grams: "HACKSAW." Dealers in Hardware, Hand Tools, Precision & Measuring Tools, Metal Working Tools, Portable Electric Tools, Garage Tools, Machine Tools, Lathes, Drilling Machines, Dog Chucks & Hacksaw Blades, Vices, Files, Saws, Chain Pulley Blocks, Reamers, Taps & Dies, etc.

A. H. SHIRAJ & CO.—99, Nagdevi Cross Lane, Bombay 3. Phone: 20614 Extn. to Res. Grams: "PUNJATHAN," Mandvi. Direct Importers & Dealers in Twist Drills, Hand Taps, Dies, Coventry & Landies Chasers, Reamers & Precision Tools, etc.

Akbarally & Co., F. H.—58, Bhajipala Lane, Bombay 3.
Akbarally Mohamedally & Co.—316, Abdul Rehman Street, Bombay 3.
Alfred Herbert (India) Ltd.—Kaiser-i-Hind Building, Sprott Road, Ballard Estate, Bombay 1.

A. MOHAMMED & CO.—213, Abdul Rehman Street, Bombay 3. Head Office: 26, Netaji Subhas Road, Calcutta 1. Phone: 222406 Cal. Grams: "POLISHER," Calcutta. General Hardware & Tools Merchants and Order Suppliers.

Asian Textile Engineering Corporation.—Kermani Building, Sir Phirozshah Mehta Road, Fort.

ASIAN TOOLS & HARDWARE STORES.—33, Pathakwadi Lohar Chawl, Bombay 2. Phone: 20067. Grams: "ASIAN-TOOLS," Kalbadevi, Stockists in Tools for Carpentry, Smithy, Foundry Fittings, Precision, etc., Suppliers to Navy, Engineering Colleges, Polytechnic Institutes and Industrial Training Institutes.

Asiatic Engineers.—Mehta House, Medows Street, Fort.
Automotive Hardware Corp.—93, Narayan Dhuru Street, Bombay 3.
Baboolal Kela & Co.—General Assurance Building, Hornby Road, Fort.
Bashimal Kanahyalal.—124, Narayan Dhuru Street, Bombay 3.
Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.

BHARAT ENGINEERING STORES.—113, Nagdevi Street, Bombay 3. Grams: "UNIONTOOLS." Phone: 23193.

Bhogilal & Co., R.—261/263, Hornby Road, Fort, Bombay.

BOMBAY MACHINE TOOLS & HARDWARE CORP.—103, Narayan Dhuru Street, Bombay 3. Phone: 22702. Grams: "WIREGRIP." Importers & Stockists of Crucibles, Engineering small tools, Electrodes and electric portable drills, grinders, etc.

Bombay Steel Corporation.—241, Kumbharwada, opp. 2nd Sutar Lane, Bombay 4.

BOMBAY TOOLS SUPPLYING AGENCY.—50, Nagdevi Cross Lane, Bombay 3. Phone: 20326. Grams: "TERRA-TOOLS."

Cambata Industries Private Ltd.—Cambata Building, 42, Queen's Road, Bombay 1.
C. Bole & Co.—Narayan Dhuru Street, Bombay 3.
Central Machine Tools Agency.—43, Nagdevi Cross Lane, Bombay 3.
Central Tool & Equipment Co.—32, Sarang Street, Bombay 3.
Chasman & Co.—Bell Building, Sir Phirozshah Mehta Road, Fort.
Choksi, H., & Co.—106, Medows Street, Fort.
Cooper Engineering Ltd.—Construction House, Ballard Estate, Bombay.

CRESCENT AGENCIES (PRIVATE) LTD.—Beauman Chambers, 27/33, Medows Street, Fort, Bombay. Phone: 252558. Grams: "WELSEL," Bombay & Delhi.

C. Vadilal & Co.—40, Nagdevi Cross Lane, Bombay 3.

ROCKWELL OR BRINELL
METAL HARDNESS TESTERS (Portable Bench Type) for FERROUS and NON-FERROUS METALS
● Dial vernier calipers
● Tachometers
● Precision measuring and testing tools
Contact:
P. DALAL & COMPANY
357, Nagindas Building, opp. Family Planning Centre, Sardar Vallabhbhai Patel Road, BOMBAY 4.
Phone: 70674.

Desai, M. S. & Co.—77, Nagdevi Cross Lane, Bombay 3.
Desai Tube & Hardware Mart.—41, Nagdevi Cross Lane, Bombay 3.

DEWAN CHAND NIKKA MALL & CO.—126, Narayan Dhuru Street, Bombay 3. Phone: 20102. Grams: "DHAMICHAIN." Stockists of Hardware, Tools, Workshop & Agricultural Machinery.

Duncan Stratton & Co., Ltd.—5, Bank Street, Bombay 1.
Eastern Machinery Trading Co.—Wilson Road, Ballard Estate, Bombay 1.
Eastern Trading Co.—Mahakali Chawl, Pydhonie, Bombay 3.
Electro Technics & Engineering Co.—P. O. Box No. 1356, Fort.
Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.
Francis Klein & Co. (Bombay) Ltd.—Shale Building, Bank Street, Fort.
General Engineering Corporation—249, Frere Road, Fort.
General Tubes Ltd.—142-144, Nagdevi Street, Bombay 3.
Gin Store Co.—76, Nagdevi Cross Lane, Bombay 3.
Greaves Cotton & Co., Ltd.—Forbes Street, Bombay 1.
Guest, Keen, Williams, Ltd.—Ballard Estate, Bombay 1.
Harjimal Kidernath & Co.—87, Nagdevi Cross Lane, Bombay 3.
Heatly & Gresham Ltd.—9, Forbes Street, Fort.

HEMANT TOOLS TRADING CO.—33, Bibijan Street (Barbhai Mohalla), Bombay 3. Grams: "LACING." Phone: 20974. Importers & Stockists of Chain Pulley Blocks, Garage Tools, Fibre Sheets, Rods, etc.

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Hind Hardware Stores.—Pirbhoy Building No. 1, Lohar Chawl, Bombay 2.
Hindustan Engineering Co. (Machinery Dept.).—25, Ropewalk Street, Rampart Row, Fort.
Hiralal Gokaldas Dalal & Co.—45, Nagdevi Cross Lane, Bombay 3.
India General Engineering Co. Private Ltd.—Manu Mansion, 3rd Floor, 16, Old Custom House Road, Fort, Bombay.

INDIA TAP & DIE CO. PRIVATE LTD.—Regd. Office : 8/IV, Central Bank Building, Flora Fountain, Bombay 1. Factories : Bombay and Jhansi (U.P.). Grams : "INDTAP." Phones : Office 251953 & 251212; Factory 89952; Managing Director's Res. 212786; Sales Depot 39686. Manufacturers of Indian, British and American Standard Taps, Dies, Die Stocks, Collet for Dies, Tap Wrenches, Die Boxes, etc.

INDIAN TOOL MANUFACTURERS LTD., THE.—101, Sion Road, Bombay 22. Phone : 62473/74. Grams : "ITOOLS", Bombay, Sion. Manufacturers of High Speed and Carbon Steel Small Tools, particularly Drills, Reamers, Cutters and Taps and Carbide Tipped Tools.

Industrial and Agricultural Equipment Co.—29, Hamam Street, Fort, Bombay.
Industrial Machine & Tools Co.—347, Lamington Road, Bombay 7.
Industrial Machinery & Tools Corpn.—Indira Nivas, 1st Floor, New Bhatwadi Street, Bombay 4.

INTERNATIONAL TOOLS & HARDWARE STORES.—84, Kika Street, Bombay 4. Phone : 73636. Grams : "SANITARY."

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NICOLLS & CO.—Typewriter Experts, Typewriter Sales, Service & Repairs, Carbon and Ribbons. Kermani Building, Sir Phirozshah Mehta Road (above Macropolo's), Fort, Bombay. Phone: 253523.

Office Appliance Corporation.—Hassan Chambers, Parsee Bazar Street, Fort

Oliver Typewriter Agency.—Hassan Chambers, Parsee Bazar Street, Fort.

Premier Typewriter Co.—235, Hornby Road, above Kemp & Co., Fort.

REMINGTON RAND OF INDIA LIMITED.—Manufacturers of Ramington Rand Business Equipment. Thackersey House, Graham Road, Ballard Estate, Bombay. Phones: 265591-92-93. Grams: "REMINGTONS."

Roneo, Ltd.—Navsari Chambers, 39, Bastion Road, Fort.

Sind Typewriting Co.—242, Abdul Rehman Street.

Standard Typewriting Co.—Cama Building, 257, Hornby Road, Fort.

SUNBEAM CO.—29, Ismail Bldg., 381, Hornby Road, Bombay 1. Phone: 251673. Grams: "TYPEWRITER". Typewriters Bought, Sold, Repaired, Given on Hire. Also parts.

UNIVERSAL TYPEWRITER CO.—31, Nawab Bldg., 327, Hornby Road, Bombay 1. Phone: 251949. Grams: "REFMANSALE," Bombay. Branch: 253, Kamala Market, Asafali Road, New Delhi. Direct Importers of Spare Parts for all makes of Typewriters. Dealers in Rebuilt Typewriters, Accessories and Spare parts. Specialists in Repairs and maintenance of all makes of Typewriters.

Voltas Limited.—19, Graham Road, Ballard Estate, Fort.

Western India Typewriter Co.—General Assurance Building, Hornby Road, Fort.

TYRE MANUFACTURERS AND DISTRIBUTORS

Bombay Garage Ltd.—Meher Building, Chowpatty, Bombay 7.

Ceat Tyres of India Ltd.—198, J. Tata Road, Bombay 1.

Dunlop Rubber Co. (India) Ltd.—Dunlop House, Hughes Road.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Firestone Tyre and Rubber Co. of India Ltd.—Hay Bunder Road, Sewree, Bombay.

Goodyear Tyre & Rubber Co. of India Ltd.—7-9, Mathew Road.

India Tyre & Rubber Co. (India) Ltd.—Spencer's Building, Forjett Street, Cumballa Hill, Bombay 26.

Mehta Motor Stores.—Banji Nivas, Sandhurst Road.

New Eastern Traders (India) Private Ltd.—16, Avantikabai Gokhale Street, Bombay 4.

TYRESOLES CONCESSIONAIRES PRIVATE LTD.—Sayani Road, Bombay 28. Tel.: 60377. H.O. Ewart House, Bruce Street, Bombay 1. Phone: 252261. Retreading and repairs of tyres of all sizes.

Universal Service Corporation Ltd.—457-9, Sandhurst Road, Bombay.

UMBRELLAS, UMBRELLA PARTS MANUFACTURERS & MERCHANTS

Akbarally Ebrahimji.—38/c, Cowasji Patel Street, Fort, Bombay. Gram: "Tussibar."

Ashok Overseas Trading Co.—543, Kalbadevi Road, Bombay 2.

Asiatic Umbrella Manufacturing Co.—Dev Karan Mansion, 22, Mangaldas Road, Bombay 2.

BHARAT UMBRELLA MFG. CO.—65, New Hanuman Lane, Bombay 2. Grams: "DHARUV." Exporters, Specialists in "Umbrella" Cloth. Phone: 34519.

Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.

EBRAHIM CURRIM & SONS.—Rahim Building, Princess Street. Umbrella Merchants & Manufacturers of "STAG" Brand Umbrellas. Tel. No. 22238. Grams: "CANOPY."

HIND UMBRELLA MFG. CO. (ESTD. 1872).—(Prop.: Awatram Sons), 264, Jumma Masjid, Bombay 2. Phone: 39320. Grams: "WHOLESALE." Manufacturers of "Bell Brand" Umbrellas.

Iwacom Private Ltd.—204, Dr. Dadabhai Naoroji Road, Fort, Bombay.

J. K. & SONS.—55-A, New Hanuman Lane (Babu Genu Road), Bombay 2. Phone: 22823. Grams: "BRAVERY." Manufacturers of "CHUKKER" Brand quality Umbrellas; Sole Agents for "MMM" Brand Umbrellas & Ribs; Wholesale Dealers & Exporters of Umbrellas and other Accessories.

Maharashtra Leather Works.—Opp. Dadar Station (Western Rly.), Bombay 14.

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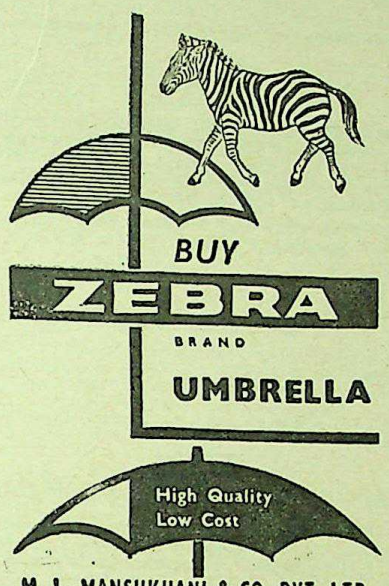


NOBLE PLASTIC WORKS.—22, Mangesh Senoy Street, Fort, Bombay 1. Phone : 261172. Grams : "ROLLED GOLD". Manufacturers of Plastic Umbrella Handles.

RAJASTHAN TRADING CO.—419-C, Joshi Wadi, Kalbadevi, Bombay 2. Manufacturers and Dealers in Umbrellas and Parts. Exporters and Importers. Grams : "REPUTATION." Phone : 39653.

Ramniklal Harilal & Co.—86-90, Sutar Chawl, Bombay 2.

SAIT NAGJEE PURUSHOTHAM & CO., PRIVATE LTD.—94/96, Princess Street, Bombay 2. Phone : 34668. Grams : "LIMDA". Umbrellas, Textiles, Soaps, Glycerine & Plastic.

Senaji Sobhaji & Co.—65, New Hanuman Lane, Bombay 2.
Somani & Company Private Ltd.—Industrial Estate, Lal Baug, Bombay 12. Phone : 70592.
Suleman Nasir.—Souter Street, Bombay 11.

UNDERTAKERS AND MONUMENTAL SCULPTORS

Annunciation William & Co.—425-425A, Girgaum Road, opp. Dukerwadi Lane.
Douglas James & Co.—7, Clare Road, Byculla.
Frank Binks.—Opp. Alexandra Cinema, 246, Bellasis Road, Byculla.
George F. Baptista.—165, Hill Road, Bandra.
Jones Edwards.—Clare Road, Byculla, Bombay 8.

UPHOLSTERY MATERIAL MFRS.

CHEMISOL INDUSTRIES.—Devkaran Mansion, 41, Princess Street, Bombay 2. Phone : 29086. Grams : "BAYCITY." Manufacturers of "BESTIC" Brand adhesives used for Motor Body and upholstery fittings.

DHARAMPUR LEATHER CLOTH CO. PVT. LTD.—Manufacturers of heavy upholstery materials. 10, Chowpatty Seaface, Bombay 7. Phone : 40517. Grams : "PUNEM."

Gandhi, R. & Co.—Chakla Street, Bombay 3.
I.C.I. (India) Private Ltd.—Crescent House, Ballard Estate, Bombay 1.
Jafferbhai & Co.—106, Bhendi Bazar, P.O. Box No. 3055, Bombay 3. Phone : 70524.
Leather Cloth Processors & Printers.—Moghul Lane, Matunga, Bombay 16.

MAMAJI & SON (PRIVATE) LTD., Y. A.—136-38, Sir Ebrahim Rahimtulla Road, Bombay 3. Phone : 71262. Grams : "MAMAJISON." Importers & Exporters of P.V.C. Leather Cloth, Motor & Carriage Upholstery Materials, Saddlery & Harness Goods and all kinds of Felt.

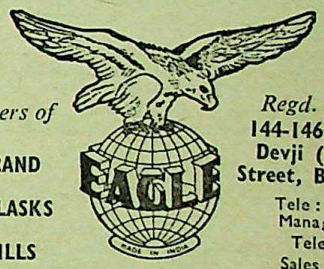
P. L. GUPTA & CO.—130, Bhendi Bazar, Bombay 3. Phone : 73309. Direct Importers of Upholstery Materials, P.V.C. Leather Cloth, Motor & Bus Body Fittings, Book Binding Cloth, Celluloid & Plastic Sheets, etc.

VACUUM CLEANING MACHINERY

Batliboi & Co.—Engineers & Machinery Importers. Head Office : Forbes Street, Fort, Bombay. Phone No. 255451-55 (4 lines). Grams : "BATLIBOICO". Branches : Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayawada. Associate : Bangalore.
General Radio & Appliances Private Ltd.—16, New Queen's Road, Bombay 4.

VACUUM FLASKS & BOTTLES

EAGLE VACUUM BOTTLE MFG. CO. PRIVATE LTD.



Manufacturers of
EAGLE BRAND
VACUUM FLASKS
AND REFILLS

Regd. Office :
144-146, Sherrif
Devji (Chakla)
Street, Bombay 3.
Tele : 38150
Management
Tele : 23636
Sales & Accounts
Grams :
"EAGLEFLASK"

REGISTERED TRADE MARK

"SUN"
KEEPS
HOT
★
"SUN"
KEEPS
COLD

SUN
VACUUM FLASKS

VICTORY FLASK CO. (PRIVATE), LTD.,
KACHWADI, GOVANDI, (CHEMBUR) BOMBAY 71

OFFICE :
208, Lady Jamshedji Road
BOMBAY 16
Phone : 67380 Grams: "VICTOFLASK"

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VALUERS (MACHINERY, BUILDING & LANDS)

DINSHAW, M.H., & CO.—105, Apollo Street, Fort, P.O. Box 448, Bombay. Gram: "AHOORAT." Phone: 251458. Managing Director: H. Dinshaw Dungor, M.I.S.E., M.M.E.A. (Ind.), A.S.E. (Lond.); Managing Partner: Dinshaw H. Dungor, A.M.I.E.T. (Lond.), Residence, Victory Villa, Turner Road, Bandra.

VALVES

CALCUTTA IRON & STEEL CO., PRIVATE LTD.—68/D, Mohamedally Road, Bombay 3. Grams: 'RIVETBOLT' Bombay, Mandvi. Phone: 22182.

VEE-BELTS

AUTO SPARES (INDIA).—Opp. Opera House, Bombay 4. Phone: 76920.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55, Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayawada. Associate: Bangalore.
Bharat Engineering Stores.—113, Nagdevi Street, Bombay 3.
Diarvi Trading Co.—64, Old Custom House Road, Fort.
Diwan Bros.—51, Nagdevi Street, Bombay 3.

EDGAR HANDLEY & CO. PRIVATE LTD.—135, Medows Street, Fort, Bombay. Phones: 253548 and 252934. Grams: "TROJAN."

Greentose Corporation (India).—24-26, Dalal Street, Fort, Bombay.
James Tools & Hardware Co.—109-11, Nagdevi Street, Bombay 3.
Jhala, R. T., & Co.—9, Forbes Street, Fort, Bombay 1.

N. MOHANLAL & CO.—124, Nagdevi Street, Bombay 3. Phone: 27545. Grams: "JEPIBELT." Authorised Distributors of "Dunlop" Beltings, Vee-Belts, Hoses & Trolley Wheels.

PARADISE TRADING CORPORATION.—73/75, Tamarind Lane, Fort, Bombay 1. Phone: 252668. Grams: "VEE-DRIVES."

Paramount Textile Agency.—45/47, Apollo Street, Fort, Bombay.

PAREKH TRADING CO.—48, Nagdevi Cross Lane, Bombay 3. Phone: 34723. Grams: "DIGNITY." Stockists of all kinds of V-Belts, Textile Beltings etc.

P. RATILAL & CO.—43, Dhanji Street, Moti Mahal, Bombay 3. Phone: 39100. Grams: "ETERNAL."

R. B. ISHWARDAS & CO.—79, Nagdevi Cross Lane, Bombay 3. Phone: 29015. Grams: "STOREWALA". Mill Gin Stores and Hardware Suppliers, everything in rubber, moulding goods, Industrial Vee-Belts, Vee pulleys and Link belts.

V. S. & Company.—Commerce House, Block 302, 140, Medows Street, Bombay 1.
Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

VEE ROPES

Arvinda Trading Co. Private Ltd.—105, Apollo Street, Fort.
Associated Machine & Tool Co.—130, Medows Street, Fort.
Balmer Lawrie & Co., Ltd.—5, Graham Road, Ballard Estate, Fort.
Batliboi & Company.—49, Forbes Street, Fort.

EDGAR HANDLEY AND COMPANY PRIVATE LIMITED.—135, Medows Street, Fort, Bombay. Phones: 253548 & 252934. Grams: "TROJAN."

Greaves Cotton & Crompton Parkinson Private Ltd.—Forbes Street, Bombay 1.
Greentose Corporation (India).—24-26, Dalal Street, Fort.
Roberts, McLean & Co. Private Ltd.—Ilaco House, Sir Phirozshah Mehta Road, Fort.
Sizing Materials Co., Ltd.—Jeroo Building, 137, Mahatma Gandhi Road, Fort.

VEGETABLE PRODUCTS (GHEE)

Amrit Banaspati Co. Ltd, Ghaziabad (U.P.).—19, Amrit, East & West Building, Apollo Street, Bombay 1.

EAST ASIATIC CO. (INDIA) PRIVATE LTD., THE.—Wavell House, Graham Road, Ballard Estate, Bombay. Phone: 26-2711 (8 lines). Offices at Madras, Calcutta, New Delhi.

Hindustan Lever Ltd.—Office: Scindia House, Ballard Estate. Factory at Sewri.
Palanpur Vegetable Products Ltd.—Forbes Building, Home Street.
Tata Oil Mills Co. Ltd.—Bombay House, Bruce Street, Bombay 1.
Vegetable Vitamin Foods Co.—Plot No. 109, Sion, Bombay 22.
Western India Vegetable Products Ltd.—5, Ghoga Street, Fort.

VENTILATION

INDUSTRIAL AIR CONTROL (INDIA) PRIVATE LTD.—Karimjee House, 2nd Floor, 59, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 262475. Grams: "COOLAIR." Specialists in all Air Handling Equipments, Textile Dust and Fume Removal and Oil Spraying.

LUSOB TRADING CO.—Bell Building, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 252612. Grams: "LUSOB-TRACO."

VISUAL EDUCATION

Film Club.—National House, Tulloch Road, Apollo Bunder, Bombay.
National Education & Information Films, Ltd.—National House, Tulloch Road, Apollo Bunder. Grams: "Edufilms."
Ondez (India).—144, Mody Street, Fort, Bombay.
Photo, Cine & Sound Private Ltd.—12, Rampart Row, Bombay 1.

VETERINARY INSTRUMENTS & APPLIANCES

CIRUGIA DE LUX PRIVATE LTD.—Bombay Mutual Annexe, 4th Floor, 17, Gunbow Street, Fort, Bombay 1. Phone: 263802. Grams: "SURGIQUIP." Veterinary Instruments and Appliances, Livestock Artificial Insemination and sterility Equipment, Poultry Incubators & Srooders.

WASHING AND DYEING COMPANIES

Band-Box.—145, Mahatma Gandhi Road, Bombay 1.
Comet Cleaners.—Park House, 81, Wodehouse Road, Colaba.
Diamond Jubilee Washing Company.—Hamam Street, Fort.

GARMENT CLEANING WORKS.—The largest Power Laundry in India. 32, Branches in the City. Laundry Contractors to all leading Shipping Companies, Railways & Hotels. Head Office: 36, Gowalia Tank Road, Bombay 26. Phone: Head Office: 74187, Malabar Hill Factory: 74110. Worli Factory: 72790.

Leach & Weborney.—34, Hamam Street, Fort, Bombay 1.
Royal Laundry Co.—25, Hamam Street, Fort.
Vacuum Dry Cleaning Co.—Elysium Mansion, Colaba Causeway.
Vasudev Dyeing Works.—318, Dr. Cowasji Hormusji Street, opp. Sonapur Church, near Marine Lines Railway Station, Bombay 2.

WASTE PAPER

MANIAR BROS.—6, Duncan Road Cross Lane, Bombay 8. Phone: 41718. Grams: 'RAOOF'. Dealers in Waste paper, Press cuttings, old Records (Account, Bill books, Letter Files and Documents to be destroyed) and all other Paper Industry Raw Materials.

WATCH AND CLOCK IMPORTERS AND DEALERS

Bhagat & Company, L.—Abdul Rehman Street, Bombay 3.

BULLION WATCH CO.—215-17, Kalbadevi Road, Bombay 2. Dealers in Watches, Clocks, Timepieces and Fancy Straps (Repairing Specialists).

CHOONILAL CHHAGANLAL (East India Watch Co.).—119, Abdul Rehman Street, Bombay 3. Phone: 23631. Grams: "POSTCARDS." An oldest Importers, Wholesalers and Retail Dealers in Watches, Clocks, Timepieces and Watch Bands. Agents for "Wyler" and "Record" High Grade Swiss Watches.

Columbia Watch Co.—26, Prospect Chambers Annexe, P. Box No. 780, Fort, Bombay.
Crown Watch Co.—Nanavati Building, 16/18, Abdul Rehman Street, Bombay 3, near Pydhownie.
D. P. Pundole & Co.—44, Nagdevi Street, Bombay 3.

D. R. PUNDOLE & SONS.—369-371, Dr. Dadabhai Naoroji Road, Fort, Bombay. Sole Manufacturers of "Beaumont" Watches and Clocks and also Agents for 'Cyma' Watches and "Chemould" Picture Frames.

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EASTERN WATCH.—231-3, Hornby Road, Fort. Clocks and Watches, Electric Clocks Specialists. P. O. Box 263. Phone: 261962.

E. M. M. GHADIALI & SONS (REGD.) ESTD. 1860.—59, Abdul Rehman Street, Bombay 3. H.O. Ahmedabad. Importers of Watches & their parts.

EXCELSIOR WATCH CO. PRIVATE LTD.—64/64A, Abdul Rehman Street, P. O. Box No. 3001, Bombay 3. Grams: "EXCELWATCH." Phone: 34085. Dealers in Watches, Clocks, Timepieces, Watch Materials, Watchmaker tools, etc. Sole Distributors for Well-known "AWCO" Minister & Norexa Watches.

EXPRESS WATCH COMPANY.—78, Abdul Rehman Street, Bombay 3. Importers, Wholesalers and Retailers of Watches, Clocks and Timepieces. Grams: "PRIMEWATCH." Phone: 23938.

FAVRE-LEUBA & CO. PRIVATE LTD.—211-219, Dr. Dadabhoy Naoroji Road, Fort, P.O. Box 845, BOMBAY. N.E. Corner Dalhousie Square, P.O. Box 474, CALCUTTA. 525, Chandni Chowk, P.O. Box 2016, DELHI. Telegraphic Address: "FAVRELEUBA." Merchants, Manufacturers, Importers and Distributors—Repairers—Indentors and Commission Agents. Watches and Clocks, Stop Watches, Watchmen's Clocks and Instruments and Allied goods. Representing: Patek Philippe—Vacheron and Constantin—Jaeger—Le Coultre—I. W. C.—Zenith—Eterna—Favre-Leuba Geneve—Bovet—Sandow—John Barrel—Jaz (alarm timepieces and wall clocks) Favag (electric clock installation).

Ganesh Watch Co.—Mayor Building, Tulsi Pipe Road, opp. Western Rly. Station, Dadar.

Geneva Watch Co.—97, Abdul Rehman Street, Bombay 3. Grams: "ZEILER."

H. S. CHHATWAL.—11, Tamarind Lane, Fort, Bombay. Phone: 252174. Grams: "COLWATCH." Representative: BADER AND HAFNER, Switzerland. One of the largest Swiss Manufacturers of Roskopf Watches. Representative: ELOGA LTD., Switzerland. Manufacturers of Gents' Calendar Watches with moon face and Ladies' Calendar Watches and other Novelties in the Watch lines. Representative: Messrs. Bachtold & Harter, Pforzheim, Western Germany, the largest Manufacturers of lever Watches. Representative: Messrs. Peter-uh-Ren, Rottweil, West Germany, one of the leading Alarm Clocks Manufacturers of Germany.

Jawahir Watch Co.—Opp. Western Rly. Station, D'Silva Road, Dadar, Bombay 14.

Jayco Watch Co.—Opp. Crawford Market, Oomrigar Building, Bombay 3.

Jhaveri Bros. & Co.—Medows Street, Fort.

Jhaveri Watch Co.—62, Abdul Rehman Street, Bombay 3.

Kerala Watch Co.—King Edward Road, Parel, Bombay 12.

KOTHARI WATCH CO.—199A, Princess Street, Bombay 2. Manufacturers' Representatives and Importers of Watches, Timepieces, Clocks and Spare Parts.

KOYNA CLOCKS.—10, Bruce Street, Fort. Manufacturers of Electrical Clocks & Timepieces.

LAWRENCE WATCH CO.—Empire Bldg., 150, Dadabhoy Naoroji Road, Fort, Bombay 1. Phone: 264318. Grams: "HAIRSPRING." Repairing is our Speciality.

Leon Watch Co.—20, Abdul Rehman Street.

LOKAMANYA WATCH CO.—26-C, Gunbow Street, Fort. Importers of Lowaco & Kisan Watches. Phone: 264378.

LORENZO WATCH CO.—Importers & Wholesale Dealers in Watches and Timepieces. 54, Abdul Rehman Street, Bombay 3. Phone: 30239. Grams: "TICKTICK." Branch: P/36, Radha Bazar Street, Calcutta 1.

Lund & Blockley Ltd.—Sassoon Institute Building, 150-154, Mahatma Gandhi Road, Fort.

Maganbhai & Lallubhai.—184-186, Sheikh Memon Street, Bombay 2. Phone: 23785. Grams: "MOTIBUTTON."

MERIDIAN WATCH CO.—269, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 263098. Grams: "MERIDIAN." Official Agents for "OMEGA" and "TISSOT" Watches.

Nazar Watch Co.—320, Abdul Rehman Street, Bombay 3.

Novelties, The.—Hughes Road, Bombay.

ORIENTAL WATCH & GRAMOPHONE CO., THE.—218E, Tulsi Pipe Road, Opp. Western Rly. Station, Dadar, Bombay 28. Phone: 62039. Grams: "TIKAM", Bombay-Dadar.

Packard Watch Co.—52-54, Nakhoda Street, near Pydhownie.

Parekh Watch Service.—375-77, Sandhurst Road, Bombay.

Peoples Watch Co. Private Ltd.—177, 179A, Dr. Dadabhai Naoroji Road, Fort, Bombay 1.

PHOENIX WATCH CO. (Estd. 1930).—Showroom: 169, Dr. Dadabhai Naoroji Road. Office: 166, Dr. Dadabhai Naoroji Road, Fort, Bombay 1. Phone: 263433. Grams: "NEW-TEX." Branches: Calcutta 1; Delhi 6. Representatives in India for: Enicar, S.A., Lengnan, Switzerland, Buren Watch Co. S.A., Buren S./A., Switzerland, Wehrle Uhrenfabrik, G.m.b.H., Schoenwald, Black Forest, West Germany (for famous Wehrle alarm Clocks and Clocks).

Pioneer Watch Co.—89, Abdul Rehman Street, Bombay 3.

Popular Watch Co.—Near Western Rly. Station, Ranade Road Dadar, Bombay 14.

Prabhat Watch Co.—Prarthana Samaj Corner, Bombay 4.

Precision Watch Co., Private Ltd.—127, Abdul Rehman Street, Bombay 3.

Precious Watch.—233, Hornby Road, next to Kemp & Co., Fort.

Pundole Watch Co.—Opp. Lloyds Bank, 263, Hornby Road, Fort. Dealers in Watches, Clocks, Timepieces and Jewellery.

Record Watch Company.—167, Hornby Road, Fort, Bombay.

REPUBLIC WATCH CO.—93, Narayan Dhuru Street, P.O. Box 3080, Bombay 3. Exporters of Watch Spares and Accessories.

Rogers Watch Co.—Prospect Chambers, Hornby Road, Fort, Bombay.

Rolex Watch Company (Eastern) Ltd.—123, Mahatma Gandhi Road, Fort.

SANGHVI WATCH CO.—Khandelwal Bhavan, 170, Dr. Dadabhai Naoroji Road (Hornby Road), Fort, Bombay 1. Phone: 263738. Grams: "DICTATOR." Branch: 47, Abdul Rehman Street, Bombay 3. Phone: 22964. Direct Importers, Wholesalers and Retailers in Watches, Clocks and Timepieces.

Shakti Watch Co.—48, Abdul Rehman Street, Bombay 3.

SHREE BOMBAY WATCH CO.—160, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 262694. Grams: "SHRIBOW." House for Reliable Watches, Clocks & Time Pieces and Jewellery. Our famous Trade Marks: ShritexSelecta, Shribow Alarm. Sovereign Clocks—Shriman, Sevenstars, Sundar, Sparrow, Saturn, Jalpari. All kinds of Watch Repairing Undertaken.

Sovereign Watch Co.—200, Bora Bazar Street, Bombay 1.

Spencer Watch Co.—Mehta Building, Medows Street, Fort.

SWISS INDIA WATCH CO.—(Props.: G. Bhagat & Sons), 487, Kalbadevi Road, Bombay 2. Phone: 23732. Grams: "WATCHDEPOT". Direct Importers & Wholesale Dealers in Watches, Clocks & Timepieces.

TIME EQUIPMENT CO.—55, Abdul Rehman Street, P.O. Box 3086, Bombay 3. Manufacturers' Representatives, Importers and Distributors of Watches, Watch parts, Watch makers Tools, Equipment, etc.

Trinity Watch Co.—46A, Abdul Rehman Street, Bombay 3.

Unita Watch Co.—37, Yusuff Building, Mahatma Gandhi Road, Fort.

VOG & CO.—Empire Building, Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 264068. Grams: "VOGSTRAPS." Manufacturers of quality Nylon Watch Straps, Bracelets in Stainless Steel & Rolled Gold & Clocks.

WEST END WATCH CO.—49, Mahatma Gandhi Road, P.O. Box No. 504, Fort, Bombay. Watch & Clock Makers, Jewellers & Silversmiths. Tel. Address: "HOROLOGY," Bombay. Phone: 255644.

WILSON WATCH CO.—144, Dr. Dadabhoy Naoroji Road, Fort, Bombay. Phone: 261333. Grams: "WILSONTIME."

WATCH STRAPS & BRACELETS MANUFACTURERS

VOG & CO.—Empire Bldg., Dr. Dadabhai Naoroji Road, Bombay 1. Phone: 264068. Grams: "VOGSTRAPS". Manufacturers of quality Nylon Watch Straps, Bracelets in Stainless Steel & Rolled Gold & Clocks.

WATER METERS

CRESCENT TRADING CO.—48, Bhajipala Lane (Nagdevi), Bombay 3. Phone: 29840. Grams: "WATERMETER." Stockists of Water Meters, Acid Resisting Valves, C. I. sluice Valves, Cocks, etc.

Fleming, John, & Co., Private Ltd.—P. B. No. 76, Bombay 1, Phone: 261153.

JIVRAJ & VRAJLAL.—122, Nagdevi Street, Bombay 3. Phone: 30138. Grams: "SANIPIPES."

KAYCEE INDUSTRIES LTD.—Kamani Chambers, Nicol Road, Ballard Estate, Bombay 1. Phone: 264030. Grams: "KAYCE." Representatives for CLEVELAND water meters.

KADAKIA TRADING CORPORATION.—3, Bibijan Street (Nagdevi), Bombay 3. Phone: 29493. Grams: "STEAM-TRAP."

Richardson & Cruddas Ltd.—Byculla, Bombay 8.

Sharman Sons (Estd. 1949).—34, Nagdevi Street, Bombay 3.

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VASI SHUMS & CO. PRIVATE LTD.—165/67, Nagdevi Street, Bombay 3. Phone: 39947. Grams: "WIREROPE." Sole Agents for Bombay State for G.P.I.F. Brand Water Meters.

Voltas Ltd.—19, Graham Road, Ballard Estate, Bombay 1.

WATERPROOF PRODUCTS MANUFACTURERS

COLE, R. A., PRIVATE LTD.—22, Apollo Street, Bombay 1. Phone: 251517/8. Grams: "DERAC." Waterproofing Specialists. Manufacturers of the dual-purpose Thermocole which insulates as it waterproofs.

DOSSA HARJEE.—257-59, Masjid Bunder Road, P.O. Box No. 3209, Bombay 3. Phone: 20680. Grams: DOSSAHEO." Manufacturers & Suppliers of Tarpaulins, Waterproof Canvas and dealers of Jute Carpets, Linoliums & Floor Coverings, Filter Cloth.

Modern Waterproof Paper Mfg. Co.—109, Masjid Bunder Road, Bombay 3.

THE PACKING MATERIALS CORPORATION

Manufacturers of:

All sorts of Waterproof Papers, Tarpaulins, Road-Joints, Roofing Felts, Aluminium Lined Paper, Etc.

Office Address:

248, Samuel Street, BOMBAY 3

Factory Address:

Khed Gally, BOMBAY 28

Grams: "SUNLIGHT"

Phone { Office : 22288 / Works : 60024

UNITED WATERPROOF PRODUCTS MANUFACTURING CO.—48, Western India House, Sir Phirozshah Mehta Road, Fort, Bombay 1. Phone: 254220. Grams: "SACHOTI."

WARDEN & COMPANY PVT. LTD.

62, Dr. Anandrao Nair Road,
Opp. Maratha Mandir Cinema, Byculla, BOMBAY 8
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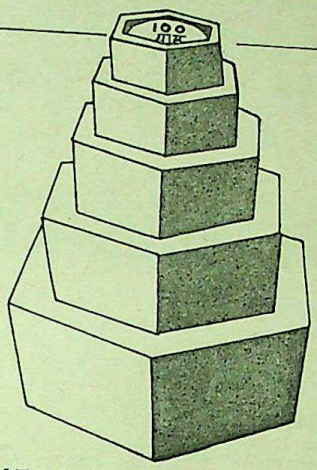

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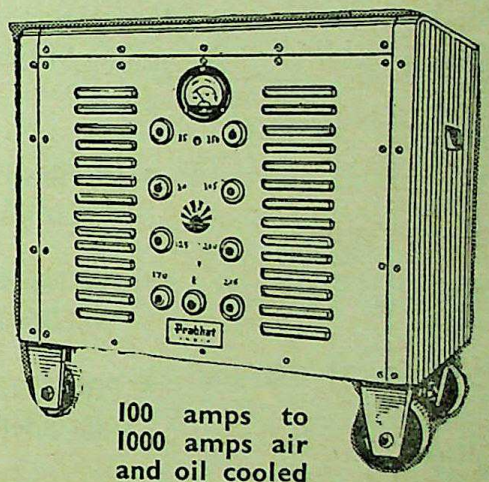

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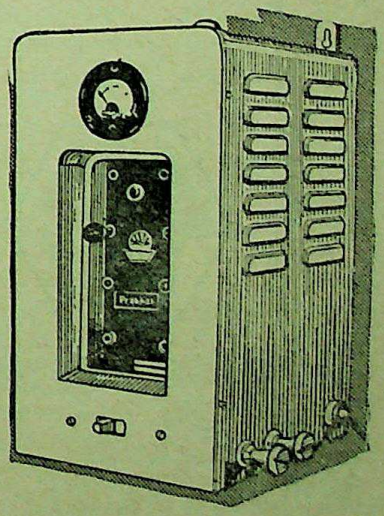

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ABDEALLY, B. M., & CO.—127, Sarang Street, Bombay 3. Phone: 29990. Grams: "ALERTDEAL."

Agarwal Commercial Corporation.—35, Bibijan Street, Nagdevi, Bombay 3. Phone: 30041 Extn. 11. Grams: "HACKSAW." Stockists of Engineering Tools, Hardware & Mill Gin Stores.

Batliboi & Co.—Engineers & Machinery Importers. Head Office: Forbes Street, Fort, Bombay. Phone No. 255451-55. Grams: "BATLIBOICO". Branches: Madras, Calcutta, Delhi, Ahmedabad, Kanpur, Coimbatore, Secunderabad and Vijayvada. Associate: Bangalore.

BOMBAY HARDWARE TRADERS.—79, Narayan Dhuru Street, Masjid Bunder Road, Bombay 3. Grams: "SISTACHAR." Stockists of Hardware Screws, Bolts, Nuts, Shoe Materials, Woodworking & Metal Cutting Saws, Engineering Stores & Saw Files.

Chokshi & Co.—106, Medows Street, Fort.

Dawson & Co.—24, Parsee Bazar Street, Fort.

DEWAN CHAND NIKKA MALL & CO.—126, Narayan Dhuru Street, Bombay 3. Phone: 20102. Grams: "DHAMICHAIN." Stockists of Hardware, Tools, Workshop and Agricultural Machinery.

Elliott Waud & Hill Private Ltd.—Lakshmi Bldg., Sir P. M. Road, Bombay 1.

EVERGREEN CORPORATION.—9/15, Picket Cross Road, P.O. Box No. 2733, Bombay 2. Grams: "GREENLEAVE." Stockists of Carpentry & Blacksmithy Tools & Plants.

Excellent Engineering Co.—11, Botawala Building, Elphinstone Circle, Fort.

Hemant Tools Trading Co.—33, Bibijan Street, Bombay 3.

HEMCO CORPORATION.—21, Forbes Street, Fort, Bombay 1. Phone: 254237. Grams: "HEMCORP". Importers of Woodworking Machinery, Electric Drills & Grinders, Japanese make "FUJI" Aircompressors, Pipe Bending Machines, etc.

James Tool & Hardware Co.—109-11, Nagdevi Street, Bombay 3.

HINDUSTAN ENGINEERING CO.—(Machinery Dept.), 10/12, Bake House Lane, Fort, Bombay 1. Telephone: 253583. Grams: "VIDOOALL." Dealers in Imported and Indigenous Bandsaws, Jigsaws, Circularsaws, Jointers, Planers, Spindel Moulders etc.

Janak Engineers.—4th Floor, Lentin Chambers, Dalal Street, Fort.

Laxmi Engineering Stores.—154, Kadakia Mansion, Narayan Dhuru Street, Bombay 3.

New India Hardware Mart.—152, Narayan Dhuru Street, Bombay 3.

SHUBH MACHINERY CORPORATION PRIVATE LTD.—(A Shubhdwar Enterprise), 15, Bank Street, Fort, Bombay 1. Phone: 254185; Grams: "SHUBHROLL." Dealers and Manufacturers of machine tools, sheet metal and wood working machines, Manufacturers of Electrical Contacts of all types, silver tipped contacts a speciality. Electrical Repairs & Rewinding of Motors undertaken.

SUNDERLAL & SONS.—11, Narayan Dhuru Cross Lane, Bombay 3. Phone: 22847. Grams: "ALLWRENCH." Stockists of American Make Jigsaw, Planing & Tilting Saws & Lathes.

Thos. W. Ward (India) Ltd.—Marshall Building, Ballard Road, Ballard Estate, Fort.

WOOL AND HAIR

Beardsell & Co., Ltd., W. A.—"Dhan-Nur", 15/16, Sir Phirozshah Mehta Road, Bombay 1.

Bombay Co., Ltd.—9 Wallace Street Fort.

Husein Mussa Virjee & Co.—Sheriff Hasam Building, Khoja Moholla, Bombay 9.

Mahomedali Esmail.—Stock Exchange Building, Apollo Street, Fort.

Premji Haridas & Co.—Bhanushali Chambers, Argyle Road, Bombay 9.

Sethia R. K. (India) Ltd.—Himalaya House, Palton Road, Bombay 1.

Sheralli Nanjee.—178, Samuel Street, Vadgadi, Bombay 9.

Shree Krishna Trading Co. Ltd.—11, Alli Chambers, Medows Street, Fort.

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WOOLLEN MILLS

Eastern Woollen Mills Ltd.—Bhavanishanker Road, Dadar, Bombay.
Nagpal Woollen Mills.—Darukhana, Reay Road, Mazagaon.
P. Parbhulal & Co. Ltd.—Metropolitan Assurance Building, Hornby Road, Fort.
Raymond Woollen Mills Ltd., The.—Thana (C.R.), Bombay.
Usha Woollen Mills, Ltd., The.—Bhavanishanker Road, Dadar.

WOOLLEN PIECE-GOODS

Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Beardsell, W. A., & Co., Ltd.—15-16, Sir Phirozshah Mehta Road, Fort.
Cawnpore Mills Depot.—Churchgate House, Churchgate Street, Fort.
GOOLAMALLY HASANJEE (ESTD. 1889).—78, Sheriff Dewjee Street, Bombay 3. Phone : 30960. Grams : "WARMCLOTH."
Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Grand Bazar.—25, Colaba Causeway, Bombay 1.
Jivandas Bhanaji & Co. (Estd. 1925).—Dwarkesh Galli, Mulji Jetha Market, Bombay 2.
Jivraj, A. M., & Co.—171, Khoja Moholla, Bombay 9.
Kanshi Ram Kidar Nath.—Vulcan Insurance Bldg., Veer Nariman Road, Bombay 1.
Kapaid & Co.—19, Sir Phirozshah Mehta Road, Fort, Bombay 1.
Kidarnath Kishanchand.—106, Medows Street, Fort, Bombay.
K. Metharam.—490-3, Kalbadevi Road.
Kothari & Sons.—20, Noble Chambers, Parsi Bazar Street, Fort.
Madhusudan Gordhandas & Co.—Ganeswadi, Mulji Jetha Market, P.O. Box 2110, Bombay 2.
MAHENDRALAL, B.—Dwarkesh Lane, Muljee Jetha Market, Bombay 2. Phone : 34235. Grams : "SELFHELP". Direct importers of Woollen & Art Silk & Cotton piece-goods.
M. Dialdas & Sons.—190, Princess Street.
Mansukhlal & Co.—Chandra Chowk, 2nd Lane, Mulji Jetha Market, Bombay 2.
P. Parbhulal & Co., Ltd.—Whiteaway Laidlaw Building, Hornby Road, Fort.
P. R. Patell & Co., Ltd.—Mherwan Building, Sir Phirozshah Mehta Road, Fort.
Rooshanalli D. Nassur & Co.—68-72, Champagalli.
Sampat Store.—28-30, Swadeshi Market, Kalbadevi Road.
SHARAFALLY LOOKMANJI & SONS (ESTD. 1893).—H.O. Chakla Street, Bombay 3. Phone : 30810. Grams : "SARAFSO." Branch : 351/53, Sheikh Memon Street, Opp. Mangaldas Market, Bombay 2.
V. JAMNADAS & CO. (Estd. 1933).—91-92, Mangaldas Market, 2nd Lane, Bombay 2. Phone : 28789. Grams : "VIJAWOOL," Direct Importers, Wholesale & Retail dealers in woollen, Cotton & Silk Piecegoods.
Yacoob Ahmed Brothers.—Topiwalla Mansion, Mahomedally Road.

WORKSHOP MACHINERY

AGRA ENGINEERING CO.—40, Bank Street, Fort, Bombay 1. Phone : Res. 88906. Grams : "RAJSPARES." Workshop Machinery Manufacturers & Suppliers.
AMIRUDIN SHALEBHOY TYEBJEE & SONS.—Shale Bldg., 2nd Floor, Bank Street, Fort, Bombay. Phone : 25-2952/25-4103. Grams : "PILOTACE."
CAPRI ENGINEERING CO.—Examiner Press Building, 111, Medows Street, Bombay 1. Phone : 251925. Grams : "CAPRIENG."
DEWAN CHAND NIKKA MALL & CO.—126, Narayan Dhuru Street, Bombay 3. Phone : 20102. Grams : "DHAMICHAIN." Stockists of Hardware, Tools, Workshop and Agricultural Machinery.
EASTERN INDUSTRIAL SYNDICATE.—Seksaria Chambers, 135/37, Medows Street, Fort, Bombay 1. Phones : 251919 & 254768. Grams : "EXPLAIN."
Everest Engineering Corporation.—12, Hornby View Bldg., Gunbow Street, Fort.
HINDUSTAN ENGINEERING CO.—(Machinery Dept.), 10/12, Bake House Lane, Fort, Bombay 1. Telephone : 253583. Grams : "VIDOOALL." Dealers in Imported and Indigenous Lathes, Lathe Chucks, Drilling, Hacksaws, Grinding, Shaping, Shearing Machines and Power Press, etc.
Khimandas Jagumal & Sons.—12, Hornby View Building, Gunbow Street, Bombay 1.
MACHINERY & SPARES.—30, Apollo Street, Fort, Bombay 1. Phone : 252176 and 71997 (Res.). Grams : "SAHABZADE." Lathes, Shapers, Hand Press, Power Press, Milling Machinery, Drills, Tablet-making machines, Paper-cutting machines, Wire nail making machines, etc.
MACHINERY TRADING CORPORATION.—68, Medows Street, Fort, Bombay 1. Phone : 253647. Dealers, Mfrs. and exporters of workshop machinery, drill machine, lathe, shaper, planer, power press, oil engines, oil expellers, milling machines, dog chucks, etc. etc.
MALHOTRA TRADING CORPORATION.—Basement 4, Commerce House, Medows Street, Bombay 1. Grams : "LOHVASTU." Dealers in Lathes, Shapers, Hand Presses, Power Presses, Milling Machinery, Paper Cutting Machines, Wire Nail Making Machines & Reversible Switches, Electric Motors, True Chucks, Dog Chucks, Machine Tools & Spares of all description.
Oriental Engineering Co.—25, Forbes Street, Fort, Bombay 1. Phone : 253057. Grams : "ADIVISHNU."
SHREE GURU NANAK TRADING CO.—38, Hamam Street, Hamam House, Fort, Bombay. Phone : 254484. Grams : "RESPECTFULL." Dealers & Manufacturers of Workshop Machinery, Lathes, Drill Machines, Shapers, Planer, Oil Engines, Power Press, Sheet Rolling Stone Crushers, Oil Expellers, Milling Machines, Dog Chucks, Band Saw & Hack Saw.
Workshop Engineering & Equipment Co.—30/32, Bhajipala Lane, Bombay 3.

X-RAY AND ELECTRO-MEDICAL EQUIPMENT

Fairdeal Corporation Ltd., The.—Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Forbes, Forbes Campbell & Co. Private Ltd.—Forbes Building, Home Street, Fort.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay 1.
Malgham Bros.—26, Old Custom House Road, Fort.
Sethisons International Ltd.—12, Rampart Row, Fort.

X-RAY FILMS AND ACCESSORIES

ILFORD-SELO (INDIA) PRIVATE LIMITED.—Cook's Building, Dr. Dadabhai Naoroji Road. Branches : Calcutta, Madras.

X-RAY MACHINERY IMPORTERS

General Radio & Appliances, Ltd. (Formerly Fazalbhoy Ltd.).—16, New Queen's Road, Bombay 4.
Gordhandas Desai Private Ltd.—Kermani Bldg., Sir P. M. Road, Bombay, 1.

YARN MERCHANTS & EXPORTERS

Allied Exporters.—Kummud House, 267, Hornby Road, Fort.
Amratlal Hiralal & Co.—37-41, New Vora Building, Tambakanta, Bombay 3.
Arthur Import Export Co.—166, Hornby Road, Fort, Bombay.
Asahi Chemical Distributing Company.—National Insurance Building, 1st Floor, 27, Bastion Road, Fort, Bombay. Phone : Office : 263708.
Askay & Co. Ltd.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Beardsell & Co., Ltd., W. A.—15/16, Sir Phirozshah Mehta Road, Fort.
David Sassoon & Co., Ltd.—Maneckji Wadia Building, 127, Mahatma Gandhi Road, Fort.
Eastern Trading Co.—Mahakali Chawl, Pydhonie, Bombay 3.
Firoz Trading Co. Ltd.—Kamar Building, Cawasji Patel Street, Fort.
Gorakhram Gokalchand (Estd. 1891).—Choksi Chambers, Zaveri Bazar, Bombay 2.
Gore & Co.—Great Social Building, Sir Phirozshah Mehta Road, Fort.
Gurdial Naraindass & Co.—Patel Building, New Silk Bazar, Bombay 2.
Hardacre & Co., J.—Himalaya House, Palton Road, Bombay 1.
Hazarat & Co.—Warden House, Sir Phirozshah Mehta Road, Fort.

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Hemandas Dolumal.—56/A, Abdul Rehman St., 1st Floor, Bombay 3. Phone: 39959.
Herbertsons Ltd.—11/13, Elphinstone Circle, Fort.
Hindersingh & Co.—36, Abdul Rehman Street, Bombay 3.
Hind Trading Co.—Alli Chambers, Tamarind Lane, Fort.
Hindustan Export & Import Corpn. Ltd.—Albert Building, Hornby Road, Fort.

INDUSTRIAL DISTRIBUTORS.—10, Hanuman Building, Tambakanta, Bombay 3. Phone: 39973. Dealers & Importers of all kinds of yarns, Cycles & Cycle Accessories, Motor Parts & Lubricating Oils.

Italindia Cotton Co., Ltd.—(Estd. 1922), Indian Globe Chambers, Fort Street, Fort, Bombay.
Jay Bharat Yarn Trading Co.—Tambakanta, Pydhonie, Bombay 3.
Jayashankar Nathalal & Co.—5, Alli Chambers, Tamarind Lane, Fort.
Jehangir J. M. Poonjiajee.—Byramjee Mansion, Sir Phirozshah Mehta Road, Fort.
Kanshi Ram Kidar Nath.—Vulcan Insurance Building, Churchgate Street, Bombay.
Kapadia Trading Co.—Botawalla Building, New Silk Bazar, Kalbadevi Road, Bombay 2.
Kavarana, E. F., & Co.—Botawala Building, Bomanji Master Road, Bombay 2.
Keshavji Virji & Co.—8, Elphinstone Circle, Fort.

KESHAVLAL TALAKCHAND (PRIVATE) LTD.—India House, Opp. G.P.O., Fort, Bombay 1. Phone: 262934. Grams: "CHANDRODAY." Branches at Ahmedabad, Sholapur, Coimbatore, Madras and Salem.

Khurya Company Ltd.—Head Office: Beaumon Chambers, 27/33, Medows Street, Fort.
Kishinchand & Co. (India).—138, Hornby Road, Fort.
Kotak & Co.—Menkwa Building, Outram Road, Fort.
Kroz & Co.—Podar Chambers, Parsi Bazar Street, Fort.
K. Motilal & Co.—Sayee Building, 143, Princess Street, Bombay 2.
Latham Abercrombie & Co. Private Ltd.—Forbes Building, Home Street, Fort.
Mehta & Co., P. N.—Cook's Building, 324, Hornby Road, Fort.
Madhavlal, S., & Co.—Noble Chambers, Parsi Bazar Street, Fort.
Maganlal Parbhudas.—Nakhoda Street, Pydhonie.
Mahendrakumar & Co.—Central Bank Building, Esplanade Road, Fort.
Manekji & Co.—17, Gunbow Street, Fort.
Manubhai Gokaldas.—89, Old Vora Mala, Tambakanta, Bombay 3.
Morarji Velji & Sons.—7, Kolbhat Street, Post Box 2001, Bombay.
Pannalal Ramdayal Chindak.—153, Princess Street, Bombay 2.
Pavri Sons & Co.—93/97, Bazargate Street, Fort.
Pestonjee, B. N.—Halcyon Lodge, Vaccha Gandhi Road, New Gamdevi, Bombay 7.
Podar Trading Co., Ltd.—Podar Chambers, Parsi Bazar Street, Fort.
Pralhadbhai Nagarbhai.—386, Linking Road, Khar, Bombay 21.
Ramchand Ambiram.—Above Govind Chowk, M. J. Market, Bombay 2.
Ramdas Khimji Bros.—Warden House, Sir Phirozshah Mehta Road, Fort.
Ramkisandas Sagarmal.—Kalyan Bhuvan, 354, Kalbadevi Road.
Rangoonwalla, H. N.—Rangoonwalla Building, 91, Mohammedally Road.
Ratilal Dahyabhai Shah.—Hanuman Building, Tambakanta, Pydhonie, Bombay 3.
Sapt Textile Products (India) Ltd.—Sapt Building, Graham Road, Ballard Estate.
Shah Bros. & Co.—Raja Bahadur Compound, 24/B, Hamam Street, Fort, Bombay.

SOBHRAJ PRITAMDAS.—54, Abdul Rehman Street, Bombay 3. Phone: 23567. Grams: "DESIYARN." Dealers in all types of Yarns such as Cotton Yarns, Sewing & Embroidered Threads, Art Silk Yarns, Staple Fibre Yarns and Synthetic Yarns, Hosiery Yarns a Speciality.

Sorabji Nowroji & Co.—16, Horniman Circle, Fort.
Suchin & Co.—65, Lakshmi Building, Sir Phirozshah Mehta Road, Fort.
Surat Yarn Exchange Co.—141, Princess Street, Bombay 2.
Tavaria Brothers.—Dhun Nur, Sir Phirozshah Mehta Road, Fort.
Textile Works Ltd.—49-55, Apollo Street, Fort.
Vadilal Vrajlal & Co.—Peerbhoy Building No. 2, 89, Princess Street, Bombay 2.
Western Link Co.—19, Bank Street, Fort.
Yacoob Ahmed Brothers.—Topiwalla Mansion, Mohamedally Road.
Yarn Trading Co.—95, Tamba Kanta, Bombay 3.

ZINC SHEET

Non-Ferrous Metal Refinery.—5, Chintamani Temple Building, 2nd Bhoiwada, Bombay 2.

ZIP FASTENER MFRS.

FLEET FASTENERS (PRIVATE) LTD.—Dahanukar Building, 480, Kalbadevi Road, Bombay 2. Phone: 27-511. Grams: "FLEETFAST". Manufacturers of Fleet—the Quality Zipper.

HOME INDUSTRIES CORPORATION.—64, Commercial Chambers, Masjid Bunder Road, Bombay 3. Phone: 34997. Grams: "DESIHUNAR." Mfrs. of Zip Fasteners of all sizes and lengths.

L. R. TRADING CO.—Manufacturers of 'FLASH' Zip Fasteners, Navsari Chambers, Outram Road, Fort, Bombay 1. P.O. Box 72. Phones: 263141 & 264073. Grams: "SHAHANICO".

MADHU FASTENERS CO.—Manufacturers of Zip Fasteners. Sales Office: Sanghavi Chambers, 27, Ghoga Street, Fort. Bombay. Phones: 253502 (Office), 40634 (Res.). Factories at: 250; D, Worli, "Udyog Bhavan," Bombay 18 and Udyognagar, Bhaktinagar Station Road, Rajkot (Saurashtra), Phone: 943.

AHMEDNAGAR DISTRICT

Headquarters: Ahmednagar.

Talukas: Nagar, Rahuri, Newasa, Shrirampur, Sangamner, Akola, Kopergaon, Sheogaon, Pathardi, Jamkhed, Shrigonda, Parner, Karjat.

Ahmednagar, a centrally situated District in the Marathi speaking area of the Deccan, lies between North Lat. 18°20′ and 20° and East Long. 73°43′ and 75°41′. It is bounded on the north and north-west by Nasik District, on the north-east by the river Godavari and Aurangabad District, on the south-east and south-west by Bhir, Sholapur and Poona Districts. The principal geographical feature is the chain of Sahyadri Hills and the river Godavari and her two major tributaries Mula and Prawara both rising from the Western Ghats. Despite the fertility of its soil the District is liable to famine owing to uncertain and scanty rainfall. A large part of the District is irrigated by the confluence of the rivers Godavari and Pravara which has encouraged sugar-cane plantation on a wide scale.

The area of the District is 6,591 sq. miles. Population: 1,771,066 (1961 Census—Provisional) (Males 903,993; females 867,073). The language spoken is Marathi.

The staple food grains are jawar and bajra. Wheat and gram are grown in the vicinity of the rivers and rice in the westernmost Akole Taluka including other irrigated areas. Vari and ragi are cultivated in soils which are suited to coarser grain. The pulses are tur, mug, math and kulith. Among the cash crops may be mentioned cotton, hemp, safflower, sesamum, linseed, sugarcane, tobacco, kardi, pan, groundnut and potatoes. Sweet lime orchards are also grown.

The chief historical places of interest to visitors are the Ahmednagar Fort and the residential palaces of the Shindyas and the Peshawas at Jamgaon and Kopergaon respectively. The tombs of Mughal Emperor Aurangzeb are situated on the outskirts of Ahmednagar town. The temple of Dnyaneshwar, the saint poet of Maharashtra, is situated at Newase on the banks of river Pravara. Here Dnyaneshwar wrote his famous commentary on Gita. Excavations undertaken in the vicinity of this town have yielded valuable finds of prehistoric import.

Among industries sugar is now one of the most important. There are eleven sugar factories in the District. Of these six are co-operative societies of sugarcane cultivators, which conduct sugar factories. Gur making, handloom weaving, iron foundries and bidi making are the other important industries. Popular Ayurvedic medicines and a number of allopathic drugs are manufactured on a large scale by a pharmaceutical concern at Ahmednagar.

There are ten irrigation tanks in the District. The Ghod Weir and Canals Project, which is nearing completion, has extended irrigation facilities to about 55,000 acres of dry land in the usually famine affected Shrigonde and Karjat talukas of the district.

The Ahmednagar Borough Municipality has constructed a cosmopolitan swimming pool at a cost of Rs. 90,000 and open to all communities of both sexes.

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EDUCATIONAL INSTITUTIONS

Arts and Commerce College, Sangamner.
Arts and Science College, Ahmednagar.
Adivasi Ashram School, Rahuri.
Puntamba Agricultural School, Puntamba.
Ayurveda Mahavidyalaya College, Ahmednagar.
Government Technical School and Training Centre, Ahmednagar.
Rayat Shikshan Society's Arts, Science and Commerce College, Shrirampur.

There are five Primary Training Colleges, of which one is run exclusively for women and two are conducted by missionaries and all aided by Government.

There are about 92 Secondary High Schools in the district out of which three high schools are exclusively for girls.

Eight Marathi Weeklies and an evening daily are published from Ahmednagar.

LITERARY AND OTHER ASSOCIATIONS

Rotary Club, Ahmednagar; American Marathi Mission, Ahmednagar; Ahmednagar Education Society, Ahmednagar; Hind Seva Mandal, Ahmednagar; Ahmednagar Vachanalaya District Central Library, Ahmednagar; Ahmednagar Jilha Maratha Vidya Prasarak Samaj, Ahmednagar; Ahmednagar Jilha Saksharta Prasarak Mandal, Ahmednagar; Sanatan Dharam Sabha, Ahmednagar; District Co-operative Board, Ahmednagar; The Big Bagaitdar's Multipurpose Co-operative Society Ltd., Kopergaon; The District Agricultural Show Committee, Kopergaon; District Probation and Aftercare Association, Ahmednagar; Sarvodaya Centre, Rajur, Akole; Ahmednagar Pressowners' Association, Ahmednagar; Government Beggars Home, Visapur; Ahmednagar District Leprosy Relief Association, Ahmednagar; Indian Red Cross T.B. Sanatorium, Arangaon, Ahmednagar; Ahmednagar District Council for Child Welfare, Ahmednagar; Women's Reception Centre, Ahmednagar; Women's Rescue Home, Ahmednagar; Anath Vidyarthi Griha, Ahmednagar; District Development Board, Ahmednagar; Ahmednagar District Farmers' Union, Ahmednagar; Mahila Mandal, Ahmednagar; Ahmednagar District Central Cooperative Bank, Ahmednagar; Balikashram Harijan Girls' Hostel, Ahmednagar; Ahmednagar Medical Association, Ahmednagar; Satya Niketan Village Industries Association, Rajur; Jilha Vidhayak Samiti, Ahmednagar; Ahmednagar Jilha Co-operative Milk Supply Union, Ahmednagar; Ahmednagar Adat Bazar Merchants' Association, Ahmednagar; Balasaheb Deshpande Charitable Hospital, Ahmednagar.

AKOLA DISTRICT

Headquarters: Akola.

Talukas: Akola, Balapur, Murtjapur, Akot, Mangrulpir, Washim.

Akola is a district in Berar with an area of about 4,095 square miles. It lies roughly between North Latitude 19° 50′ and 21° 16′ and East Longitude 76° 45′ and 77° 52′. It is bounded on the north by the Satpura Hills, on the south by the Ajanta and Satmal Hills, on the east by Amravati and Yeotmal Districts, and on the west by Buldana District. Population: 1,185,676 (1961 Census—Provisional) (Males 612,275; females 573,401).

The greater part of it is fertile alluvial land but the Satpura plateau rises abruptly on its northern border with the ancient fort of Narnala nestling on one of the hills and commanding the whole Poorna plain. Also a range of steep hills runs across the middle of the southern Taluqs. The average rainfall is 30 inches and the temperature in summer rises in certain places to 118 degrees during the day.

The District is mainly agricultural but there are cloth mills, a number of cotton ginning and pressing factories, oil mills.

The total cropped area extends to about 22 lakhs of acres—one-third of which is generally under cotton and two-thirds under other Kharif crops.

COTTON MILLS

R. S. RECKCHAND GOPALDAS MOHOTA SPG. & WVG. MILLS PRIVATE LTD., Mg. Agents: Bulakidas Mohota & Co. Private Ltd. Office on Mill Premises, Mills at Akola.

SAVATRAM RAMPRASAD MILLS CO., LTD.; Agents: Savatram Sons Ltd., Akola. Mills at Akola.

VIDARBHA CHAMBER OF COMMERCE

Akola.

President: Khushaldas A. Mehta; *Vice-Presidents:* D. S. Kolhatkar, Sitaram Kela; *Hon. Secretary:* Shivlal Agarwal; *Office-Secretary:* N. N. Khatod.

AMRAVATI DISTRICT

Headquarters: Amravati.

Taksils: Amravati, Chandur, Morsi, Achalpur, Daryapur, Melghat.

Amravati District lies roughly between North Latitude 20°30′ and 21°40′ and East Longitude 76°55′ and 78°30′. It is bounded on the north by Betul District, on the east by the Wardha River, on the south by the Districts of Yeotmal and Akola, and on the west by Buldana and Nimar Districts. The area of the District is 4,723 sq. miles. The language spoken is Marathi. Population: 1,231,622 (1961 Census—Provisional) (Males 636,714; females 594,908).

Amravati is a plain about 800 feet above sea-level.

AGRICULTURE, INDUSTRY

The staple food grain is jawar. Other food grains are wheat and pulses. Cash crops include cotton and oilseeds, of which cotton is the more important.

Cotton cloth and yarn are manufactured but the principal industry is the preparation of cotton for the market.

Raw cotton is the chief export, the only other exports worthy of mention being oilseeds, grain and pulses. The chief imports are grain and pulses, coal and coke, salt and sugar.

ASSOCIATIONS

KALA-NIKETAN (GOVT. TECHNICAL HIGH SCHOOL)

Amravati.

Principal: J. A. Rathod.

SHARADA UDYOG MANDIR

Near Jaystambha, Amravati.

It is a charitable cottage industry institution to help widows and poor women by teaching handicrafts, tailoring, embroidery, etc.

The institution has been running the Badnera Rly. Canteen for the last 5 years and the profits go to the good cause of the institution.

President: Smt. Sushilabai Oka; *Founder Secretary:* Smt. Tarabai Padhey; *Joint Secretary:* Smt. Chandrakalabai Ganorker.

SHRI SHIVAJI LOKA VIDYAPITHA (PEOPLE'S UNIVERSITY OF LITERATURE, ARTS, CRAFT AND CULTURE)

Shivaji Nagar, Morshi Road, Amravati.

President: Dr. P. S. Deshmukh, M.A., D.Phill. (Oxon.), Bar-at-Law; *Director:* S. R. Londhe, M.A., Sahitya Ratna.

VIDARBHA MAHAROGI SEVA MANDAL

Tapovan, Amravati.

A social organisation started mainly for the treatment of leprosy patients and eradication of leprosy from the State. The Mandal started a rehabilitation centre for the cured cases of leprosy. A Training class is being conducted for the leprosy Social Workers. The Mandal publishes a paper *Jeevan* for educating the public on the subject.

President: Dr. S. G. Patwardhan; *Vice-President:* Dr. W. S. Barlinge, M.P.; *Secretary:* Smt. Parwatibai Patwardhan.

COTTON MILLS

BERAR MANUFACTURING CO. LTD., *Director:* Dwarkadas Popatlal, Rajabahadur Mansions, 24-B, Hamam Street, Fort, Bombay; Mills at Badnera.

VIDARBHA MILLS BERAR, LTD., Agents: Deshmukh & Co. Office on Mill premises. Mills at Ellichpur.

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AURANGABAD DISTRICT

Headquarters : Aurangabad.

Talukas and Mahals : Aurangabad, Kannad, Vaijapur, Gangapur, Bhokardan, Ambad, Paithan, Jalna, Jafferabad (Mahal), Khuldabad (Mahal), Sillod, Soegaon (Mahal).

Area : 6,314 sq. miles. Population: 1,531,457 (1961 Census—Provisional) (Males 781,876 ; females 749,581).

The most important cave temples in India — at Ellora and Ajanta— are found in this District. The great fort of Daulatabad is an extraordinary structure ; the village of Khuldabad has the tombs of the Emperor Aurangzeb and of Asaf Jah, the founder of the former ruling dynasty.

Aurangabad is now the headquarters of the Marathwada University.

MARATHWADA UNIVERSITY

The Marathwada University is a teaching and affiliating University, established in 1958 by the Marathwada University Act passed by the State* Legislature in May 1958. It is situated at Aurangabad with jurisdiction over five districts of Marathwada *i.e.*, Aurangabad, Bhir, Parbhani, Nanded and Osmanabad. It has eleven colleges affiliated to it, of which five are situated at the seat of the University.

There are eight Faculties in which provision for teaching courses of study leading to the following degrees has been made :—

Faculty of Arts : B.A., M.A., Ph.D. ; Faculty of Science : B.Sc., M.Sc., Ph.D. ; Faculty of Law : LL.B. ; Faculty of Medicine : M.B., B.S. ; Faculty of Commerce : B.Com. ; Faculty of Agriculture : B.Sc. (Agriculture) ; Faculty of Education : B.Ed. ; Faculty of Engineering (This faculty was instituted with effect from June, 1960).

The University has also allowed persons gainfully employed and women within the Marathwada University area to appear as private students, i.e., without having to undergo instruction in any college, for the Pre-University Course (Humanities) and B.A. Examinations.

All the Colleges affiliated to this University are following the three-year degree course in faculties of Arts, Science and Commerce.

The University has so far instituted the four Departments of (*i*) Marathi Language and Literature, (*ii*) Economics, (*iii*) Chemistry and (*iv*) Zoology.

The post-graduate teaching has been instituted in the following subjects :—English, Marathi, Sanskrit, History, Economics, Mathematics, Chemistry and Zoology.

Research : Facilities exist for research in Economics and Marathi language and literature.

Chancellor : Sri Prakasa, B.A., LL.B. (Cantab.), Bar-at-Law.
Vice-Chancellor : S. R. Dongerkery, B.A., LL.B.
Registrar : M. B. Chitnis, M.A.
Assistant Registrar (Administration) : V. K. Dhamankar, M.A.
Assistant Registrar (Examinations) : A. D. Chavan, M.A.
Librarian : N. A. Gore, M.A., Dip. Lib. (Bom.).
Secretary, Universities Information Bureau : M. B. Chitnis, M.A.
Assistant Secretary, Universities Information Bureau : V. K. Dhamankar, M.A.
Secretary, Board of Extra Mural Studies : Prof. R. S. Gupte, M.A.
Secretary, University Board of Sports : V. K. Dhamankar, M.A.

Heads of the Departments :
Economics : Dr. V. V. Borkar, M.A., Ph.D.
Marathi language and literature : Prof. W. L. Kulkarni, M.A.

Affiliated Colleges : There are at present eighteen colleges affiliated to this University. The names of Colleges with names of Principals are as follows :

Government College of Arts and Science, Aurangabad, Dr. M. G. Deshmukh, M.A., Ph.D., LL.B. ; Milind Maha Vidyalaya, Aurangabad, M. N. Wankhade, M.A. ; People's College, Nanded, K. R. Shirwadkar, M.A. ; Government College of Education, Aurangabad, N. T. Vartak, M.Sc., M.Ed. ; Government Medical College, Aurangabad, Dr. P. M. Bhandarkar, M.S. ; Government College of Agriculture, Parbhani, V. P. Gokhale, M.Sc. (Agri.) ; Manikchand Pahade Law College, Aurangabad, Vishwanath Das, M.A., LL.B., Bar-at-Law ; Yogeshwar College of Arts & Science, Mominabad, M. D. Padhye, B.Com., M.A. ; J. E. S. Arts and S. B. L. Commerce College, Jalna, P. M. Sapre, M.Com. ; College of Arts, Osmanabad, R. K. Kanbarkar, M.A. ; Shri Chhatrapati Shivaji College, Omerga (District Osmanabad), M. V. Shingre, M.Sc. ; Shri Shivaji Mofat College, Kandhar (District Nanded.), G. S. Chunekar, M.A. ; Government College of Engineering, Aurangabad, G. P. Nagarkar, B.E. (Civil) ; Devgiri Arts and Science College, Aurangabad, A. N. Chikhalikar, M.A. ; Dr. Ambedkar's College of Commerce, Aurangabad, R. P. Nath, M.Com ; J. S. P. Mandal's Science College, Jalna, D. S. Yelikar, M.Sc. ; S. V. S. Sanstha's College of Education, Osmanabad, M. D. Rane, B.A., M.Ed. ; M. S. Mandal's Arts and Science College, Bhir, Fazluddin, M.Sc.

Total number of students in University Departments and all the affiliated Colleges : nearly 4,600.

BUDGET FOR 1961-62

Income : Rs. 3,43,081 ; *Expenditure :* Rs. 15,62,806 ; *Grants from the State Govt. :* Rs. 9,70,927 ; *Grants by the University Grants Commission and the Govt. of India :* Rs. 1,39,376.

MARATHWADA SAHITYA PARISHAD
Aurangpura, Aurangabad.

President : N. S. Pohnerkar ; *Secretary :* V. B. Joshi ; *Editors :* T. S. Kulkarni, S. N. Rasal.

COTTON MILLS

AURANGABAD MILLS LTD., Managed by Board of Directors, Empire House, Dadabhai Naoroji Road, Fort, Bombay 1 ; Mills at Kothwalpura, Aurangabad.

BHANDARA DISTRICT

Headquarters : Bhandara.

Tahsils : Bhandara, Gondia, Sakoli.

The District lies roughly between North Latitude 20° 31′ and 21° 44′ and East Longitude 79° 29′ and 80° 43′. It is bounded on the north by Balaghat District, on the east by the former States of Khairagarh and Nandgaon, on the south by Chanda District, and on the west by Nagpur District. The area of the District is 3,582 sq.miles. Population : 1,248,519 (1961 Census—Provisional) (Males 624,998 ; females 623,521). The chief language is Marathi but Hindi is also spoken by a considerable section of the population.

The principal food crops are rice, jawar, wheat, gram, linseed and pulses. Ginger, oranges and plantains are also grown and sent to Nagpur.

Mineral deposits include those of manganese, iron and a little gold.

The chief industries are weaving, making of brass vessels and stone jars, of soft grass matting for bedding, and of bamboo baskets.

BHIR DISTRICT

Headquarters : Bhir.

Talukas and Mahals : Mominabad, Manjlegaon, Gevrai, Bhir, Ashti, Patoda (Mahal), Kaij.

Area : 4,261 sq. miles. Population: 1,001,105 (1961 Census—Provisional) (Males 509,008 ; females 492,097).

There are forts and buildings at Bhir which are of archaeological interest. Amba has a temple dedicated to Jogai. The temple of Baijnath at Parli is a celebrated place of Hindu pilgrimage.

The soil is mostly black cotton. On this are grown cotton, white jawar, gram, gingelly and wheat, while on the masab and kharab soils are grown white bajra, yellow jawar, pulses and oilseeds. Cotton and linseed are produced extensively in the District. The staple food crops are jawar and bajra. Wheat and rice are next in importance.

The District has no minerals of economic value. Granite, basalt and limestone which are found everywhere are used for building.

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* Bilingual.

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BULDANA DISTRICT

Headquarters : Buldana.

Tahsils : Chikhali, Mehker, Malkapur, Khamgaon, Jalgaon.

This Berar District lies roughly between North Latitude 19° 45′ and 21° 17′ and East Longitude 76° 20′ and 77° 10′. The area of the District is 3,751 sq. miles. Population : 1,062,391 (1961 Census—Provisional) (Males 543,228 ; females 519,163). The language spoken is Marathi.

Jawar is the chief food crop, though wheat is also grown. The most profitable cash crop is cotton with oilseeds coming next.

The principal industry is the preparation of cotton for the market. Exports consist of raw cotton, oilseeds, grain and pulses, and the imports include grain and pulses, coal and coke, sugar and salt.

CHANDA DISTRICT

Headquarters : Chanda.

Tahsils : Chanda, Warora, Brahmapuri, Gardchiroli, Sironcha, Rajura.

The District lies roughly between North Latitude 18° 42′ and 20° 45′ and East Longitude 78° 48′ and 80° 45′. The area of the District is 9,200 sq. miles. Population : 1,238,701 (1961 Census—Provisional) (Males 624,007 ; females 614,694). The languages spoken are Marathi, Hindi, Telugu and Gondi.

Except in the open country on the west and north, the whole District is thickly wooded.

The forest vegetation in the District is of a mixed character. Teak is fairly general but is not anywhere very plentiful. The principal trees are Saj, Bijasal, Rohan, Kaddan, Haldu, Semal, Mahua, Dhaura, Tendu, Garari and Palas. Salai is very abundant on the dry hills and plateau. Other trees met with are Satin-wood, Reunjha, Bahera and Siris. Near villages tamarinds and mangoes abound, and in the south of the District groves of the palmyra palm occur. The forests are well distributed, and very few villages are more than three miles from some part of them.

The annual rainfall averages about 51 inches at Chanda Town and 46 at Warora. Failure of rainfall is very frequent.

Rice which is the most important crop is grown in the centre and east of the District. Jawar is the chief crop in Sironcha and the Warora Tahsils, while linseed, gram and wheat are grown principally in the black-soil lands of the Chanda Haveli and those adjoining the Wardha river. Cotton is also an important cash crop.

Coal-mines occur and there are match factories, ceramic industries and paper manufacture.

DHULIA DISTRICT

Headquarters :—Dhulia.

Talukas and Mahals :—Shirpur, Shahada, Taloda, Sindkheda, Nandurbar, Nawapur, Dhulia, Sakri, Akrani, Akal-kuva.

Area : 5,072 ; Population : 1,350,143 (1961 Census—Provisional) (Males 687,023 ; females 663,120).

Dhulia District lies roughly between 20° 38′ and 22° North Latitude and 73° 35′ and 75° 17′ East Longitude. It is bounded on the north by Khargone District in Madhya Pradesh, on the east by Jalgaon District, on the south by Nasik District and on the west by Surat District.

Thirty-eight villages each from the Nawapur and Nandurbar talukas of Dhulia District were transferred to Songadh taluka of Surat District and 80 villages from Akkalkuwa and Taloda talukas of Dhulia district were transferred to Sagbara taluka in Broach District. The languages spoken are Marathi, Gujarati and Bhil.

The main crops of this District are cotton, wheat, bajra, jawar and groundnut. Sugar-cane and chillies form the main irrigated crops. Lately many more sugar-cane crushing factories and gur manufacturing factories have been started in the District. There are two agricultural research stations—one for Cereal research and another for Cotton research at Shahada and Dhulia respectively.

There are two types of irrigation in this District : (1) Well irrigation and (2) Bandhara irrigation. The rivers used for irrigation are chiefly the Panjara, Kan, Gurai and Gomi, which are bunded at a number of places. Each bund irrigates about 100 to 200 acres. The total area under Bandhara is about 4,000 acres. The main crops grown on these Bandharas are sugar-cane, wheat and paddy, in this rotation. This system is known as Fad System.

There are two educational institutions in the Bhil area—Bhil Sudharna Committee and Bhil Seva Mandal. The Government has also opened a Sarvodaya centre at Khandbara for the uplift of the Bhil community.

EDUCATIONAL INSTITUTIONS

The King Edward VII Technical School at Dhulia gives technical education to students. The Institute of Engineering Technology run by the Dhulia Education Society, Dhulia, started coaching students for Diploma in Civil Engineering, since June 1954. It has accommodation for about 125 students every year. There is also a Government Agricultural Institute, where Gram Sewaks are trained.

The Bhil Seva Mandal and the Bhil Sudhar Samittee work for the social and educational uplift of the Bhil community.

Two more institutions are the Gandhi Tatwadnyan Mandir, teaching Gandhian philosophy, and the Sanskrit Patashala teaching Sanskrit. There is a Historical Research Institute called Rajwade Sanshodhan Mandal where important manuscripts and historical articles and records are available for research and study. In Wak-Dewata Mandir, all works of Sant Ramdas and literature pertaining to him are carefully preserved and further studies are being pursued.

There is the century old Garud library along with Prani Raksha Grantha Sangrahalaya.

Dhulia is the Divisional Headquarters of the Maharashtra Transport Corporation, of the Khandesh Division. A direct bus service runs to Indore in Madhya Pradesh, also to Surat in Gujarat and one to Poona and Aurangabad. There is also a big repair workshop.

DHULIA EDUCATION SOCIETY.—The Society owns three high schools ; (1) The J. R. City High School, (2) The New City High School and (3) The Madhyamik Vidyalaya, Deopur—Dhulia. The Society started an Institute of Commerce in 1955, an Institute for Secondary Teachers' Certificate Course in 1957.

ASSOCIATIONS

MAHARASHTRA HARIJAN SEVAK SANGH

The Provincial Board with the help of its District and Taluka committees and Propaganda workers, is carrying on, besides welfare work in the form of hostels, Sanskar Kendras, Balwadis for boys and girls and propaganda for removal of untouchability.

THE INDIAN RED CROSS SOCIETY, WEST KHANDESH BRANCH, DHULIA.—The Society has been conducting a Child Welfare Centre, and Antenatal Clinic, Ultra Violet Light Centre, and Family Planning Centre. The Society distributes milk every day to about four thousand beneficiaries in rural and urban areas and gives milk, medicines, tonics, clothes in times of disaster as in the Tapti river floods in 1959.

MAHATMA GANDHI TATWADNYAN MANDIR, DHULIA.—*Aims :* Founded at Dhulia in 1946 to perpetuate the memory of the late Mahadeobhai Desai, who devoted his whole life to the service of Mahatma Gandhi. It is designed to preserve all Gandhian literature and spread Gandhian philosophy.

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BANKS

DHULIA URBAN CO-OPERATIVE BANK, LTD.—This Institution known as Dhulia Taluka Urban Co-operative Society was established in 1908, the first co-operative society in Dhulia District; in 1923 it was converted into Dhulia Urban Co-operative Bank.

RAJWADE MANDAL PEOPLE'S CO-OPERATIVE BANK LTD., DHULIA.—This bank, one of the very few of its kind in the State, was established in February 1933. The shareholders of the bank have agreed to pay one-fourth from their share of dividend due from the bank each year, to a research institution—Rajwade Sanshodhan Mandal—established in the memory of the late Mr. Vishwanath Kashinath Rajwade, an eminent research worker.

The District Central Co-operative Bank is doing great business and has spread its activities in 18 branches mostly in rural areas. Besides the Govt. Servants' Co-operative Bank, the Bank of Maharashtra, and the Punjab National Bank, the merchants of Dhulia have started the Merchants Co-operative Bank with authorised capital of Rs. 5 lakhs in 1961.

TEXTILE ASSOCIATION (INDIA)
Khandesh Branch.
C/o New Pratap Spg. Wvg. & Mfg. Co. Ltd., Dhulia.

President : G. S. Kulkarni; *Hon. Secretary :* P. P. Hasabnis; *Central Managing Cttee. Member :* P. B. Bharucha.

INDUSTRIES

Dhulia is the biggest cotton centre in the Dhulia District and has a well regulated Cotton Market. There is also another regulated Cotton Market at Dondaiche in the Sindkheda Taluka on the Tapti Valley Section of the Western Railway.

There are Spinning and Weaving Factories.

The number of cotton ginning and cotton pressing factories is 47.

Dhulia has also been lately developing into a groundnut oil industry centre. There are about 42 oil mills, including 14 at Dhulia, which together produce about 2,000 tons of groundnut cake. One of these mills uses the latest type of expeller machinery. There are also saw mills.

The newly built hill station of Toranmal, about 90 miles away from Dhulia in Shahada Taluka, is situated on the Satpura range plateau at an altitude of 4,200 feet by the side of a spacious lake of great depth and having a crystal tasty water. The climate is very salubrious. Transport arrangements and accommodation have been provided.

The Rotary Club has opened its branch at Dhulia under the Presidentship of Dr. Kirtane.

The Agricultural College founded by the State Govt. is progressing well.

There is the "Dhulia District Board of Cricket", which is affiliated to the Maharashtra Cricket Association, of which Shri H. A. Dabir is the secretary.

SPINNING AND WEAVING MILLS

NEW PRATAP SPG., WEAVING AND MFG., CO., LTD. Agents: Maganlal Motilal & Co. Office on Mill premises. Mills at Dhulia, Dhulia District.

JALGAON DISTRICT

Headquarters : Jalgaon.

Talukas : Chalisgaon, Amalner, Parola, Chopda, Erandol, Pachora, Jamner, Jalgaon, Yaval, Raver, Bhusawal.

Mahals : Edlabad, Bhadgaon.

Jalgaon District, with Jalgaon as capital, is one of the northernmost Districts in Maharashtra.

The area of the District is 4,575 sq. miles. Population: 1,765,461 (1961 Census—Provisional) (Males 904,426; females 861,035). The main population of the District is composed of Levas and Marathas, with a good percentage of Bhils, Vanjaris and other hill tribes. Their language is a peculiar mixture of Gujarati, Marathi and Hindi and is called Ahirani. The District has very rich black soil, specially in the trans-Tapti Talukas, and is among the Districts which yield the highest revenue.

AGRICULTURE

The most important crops are cotton, groundnuts, jawar, bajri, gram, millet, linseed and sesamum. The most important garden crops are chillies, corriander, melons, watermelons, betel leaf, bananas, mosambis, santra and sugarcane. North India is a lucrative export market for bananas for the sale of which eleven Co-operative Fruit Sale Societies have been established in the District. The bananas are now marketed by the State Co-operative Marketing Board in Delhi.

Cotton and groundnut are even more important. The cotton is classed as 197-3, better known as Vir Nar, which new variety replaced the old variety Jarila in 1952. It is a cross breed of Verrum and N. R. Cotton. Vir Nar is finer than Broach and fetches a higher price. It gives 4 per cent more ginning. This cotton is now compulsorily sown in districts of Jalgaon, Dhulia and Nasik, and 93 villages in Aurangabad District. Government have a special agricultural farm at Jalgaon for research in cotton breeding for improving the staple and ginning percentage. Higher rates for cotton and reduced acreage under groundnut have led to an increase in acreage under cotton.

There is a large export trade in groundnut oil and hydrogenated oil or vanaspati.

Jalgaon is the biggest town and District headquarters, a great trade centre, and also an educational centre. The town is 37 miles from Ajanta Caves and a regular State Transport bus traffic exists from Jalgaon to Ajanta. Govt. of India has opened a Tourist Office at Jalgaon Railway Station. Accommodation is also available at Traveller's Bungalow. Amalner is the biggest cotton centre in the District.

The rainfall (mean annual is 28·27 inches) is usually both general and regular, which fact in itself discourages irrigation.

INDUSTRIES

The main industry is based on agriculture. There are about 40 oil mills in the District, besides several bullock driven presses. One vegetable factory employs 350 workers. There is a silk mill in the District. There is also a factory, which manufactures crackers and fireworks, employing 100 workers during season.

There are in the whole District four spinning and weaving factories, about 100 cotton ginning and pressing works, about ten dyeing factories, three big railway workshops (at Bhusawal) all employing more than 26,000 people.

EDUCATIONAL INSTITUTIONS AND ASSOCIATIONS

PRATAP COLLEGE OF SCIENCE, ARTS AND COMMERCE
Amalner.

Principal.—Prof. K. Z. Lad, M.Sc.I. (B.H.U.).

KHANDESH COLLEGE EDUCATION SOCIETY'S MOOLJEE JAITHA ARTS & SCIENCE COLLEGE
Jalgaon.

Principal : Y. S. Mahajan.

VALLABHDAS VALJI GENERAL LIBRARY
Jalgaon.

Librarian : M. B. Joshi; *Secretary :* H. R. Deshpande.

INDIAN INSTITUTE OF PHILOSOPHY
Amalner.

President : Shrimant Pratapshet; *Director :* Prof. G. R. Malkani, M.A., M.Litt. (Cambridge); *Professor :* M. R. Oak, M.A. (Punjab), M.A. (Calcutta); *Shastri :* Pandit Atmaram Shastri Jere.

VYAPARI MAHAMANDAL
Baher Pura, Amalner.

Chairman : Hiralal Harjiwandas Shah; *Deputy Chairman :* Ratanlal Mahadeo Upadhye; *Secretary :* Ashokkumar Champalal Gujarati.

COTTON MILLS

KHANDESH SPG. & WVG. MILLS CO., LTD., Secretaries & Treasurers: Indra Singh & Sons Private Ltd., Eros Theatre Building, Jamshedji Tata Road, Bombay. Mills at Jalgaon.

PRATAP SPG., WVG. & MFG. CO., LTD. (Nos. 1 & 2), Agents: Motilal Maneckchand & Co., Office on Mill premises. Mills at Amalner.

CHHAGANLAL TEXTILE MILLS PRIVATE LTD. (formerly Chalisgaon Shri Laxminarayan Mills Co., Ltd.), Managing Director, Rai Seth Chhaganlal; Office on Mill premises. Mills at Chalisgaon.

GENDALAL MILLS LTD. (formerly Bhagirath Spinning and Manufacturing Co. Ltd.), (In liquidation under Court Receiver.) Mills at Jalgaon.

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KOLABA DISTRICT

Headquarters : Alibag.

Talukas and Mahals : Alibag, Pen, Panvel, Karjat, Roha, Mangaon, Mahad, Khalapur, Uran, Poladpur, Murud, Shrivardhan, Mhasala and Sudhagad.

Kolaba District in the Konkan area of Maharashtra lies between North Latitude 17°52′ and 19°3′ and East Longitude 73°7′ and 73°42′.

The total area of the District is 2,723 sq. miles. Population: 1,058,892 (1961 Census—Provisional) (Males 515,367; females 543,525).

Notable places in the District are Raigarh near Mahad, once the capital of the great Shivaji and Kanakeshwara near Alibag, which is fast growing into a holiday resort as it is a hill 1,100 feet above sea-level and gives a complete view of Bombay. Matheran is another well-known hill station. Elephanta near Bombay is also in this District. Alibag has a magnetic observatory which is devoted to research in magnetic and electric currents which circulate in the interior of the earth.

The historical sea-fort Kolaba, at Alibag, which was the naval capital of Shivaji, has recently been taken over by the Archæological Department of the Government of India. The Hingulja hill near Revdanda, about nine miles from Alibag, is growing into a holiday resort.

AGRICULTURE, POWER

On the flat lands of the District rice is grown, and the sea-front is fringed by a belt of coconut and arecanut palms. There is large-scale plantation of mango grafts and the produce is exported to Bombay. Lorry loads of melons from Panvel are also sent to Bombay. The teak forests are very valuable and there is a considerable fishing industry. Salt is also produced in large quantities in Pen, Panvel talukas and Uran petas. Nachni, Vari, Udid and Val are varieties of crops which agriculturists produce at their second crop. Tondlies are produced in large quantities and are taken to Bombay.

The District has three Power Houses: The Tata Power Co.'s Power House at Bhira (Patuns), the Tata Hydro-Electric Power Supply Co.'s at Khopoli and the Andhra Valley Power Supply Co.'s at Bhivpuri.

Uran and Pen are big salt-producing centres. Panvel contains a large ayurvedic pharmacy, the Shri Dhootapapeshwar Panvel Ltd.; Mora in Uran Mahal has a big tile factory which manufactures tiles worth two lakhs a year.

MATHERAN (HILL STATION)

Matheran is a hill station and sanitarium, about three hours' journey from Bombay and Poona. Visitors are conveyed up the hill from Neral (Central Rly.) by the Matheran Steam Tramway and Rail Motors. The town is about 2,500 feet above sea-level, and is a favourite hot weather resort. The maximum and minimum temperatures range between 65 and 80 ordinarily and the average rainfall is 200 inches. The place has an agreeable climate.

KOLHAPUR DISTRICT

Headquarters : Kolhapur.

Talukas and Mahals : Karwir, Panhala, Shahuwadi, Radhanagari, Bhudargad, Hatkanangle, Gadhinglaj, Kagal, Shirol, Bavada, Ajra, Chandgad.

The undulating country, in which the District is situated, is about 2,000 feet above sea-level in proximity to the eastern slope of the Sahyadris which renders the greater part of the District free from famine. The six large rivers of the District, namely, the Krishna, the Panchaganga, the Warna, the Dudhaganga, the Vedganga and the Hiranyakeshi, with their several tributaries flow through and drain the District, facilitating extensive irrigation of lands in several parts of the District. The hills are the main feature of the District. They include the main range of the Sahyadris running north to south for about 100 miles and form the western boundary of the District. They contain some of the finest and most abundant supplies of bauxite in the world situated at places, where an unlimited and very profitable exploitation with the aid of cheap hydro-electric power is a practical proposition.

The total area of the District is 3,205 square miles. Population: 1,598,400 (1961 Census—Provisional) (Males 813,372; females 785,028). The language spoken is mostly Marathi, though Kannada is also spoken in a few parts. Kolhapur city, the headquarters, is a great trading centre for jaggery.

The chief agricultural products are jawar, rice, cotton, nagli, bajra, wheat, tobacco, sugarcane and ground-nut.

Besides 3 cotton mills, there are ginning and pressing factories. There are also ginning and powdering mills, groundnut crushing and oil mills, a sugar mill, cinema-film producing companies and soap factories and repair workshops.

PRINCE SHIVAJI EDUCATION SOCIETY

Sykes Extension, Kolhapur.

President : V. T. Patil; *Secretary :* G. G. Jadhav; *Jt. Secretary :* S. R. Jadhav.

RAJARAM COLLEGE

Kolhapur.

Principal : Dr. B. R. Dhekney, M.A., Ph.D.

SHREE MAHARANI TARABAI TEACHERS' COLLEGE

Shahupuri, Kolhapur.

Principal and Prof. of Education : Dr. N. R. Parasnis, M.A., B.T., Ph.D., T.D. (London).

SHAHAJI LAW COLLEGE

Kolhapur.

Principal : S. V. Apte, M.A., LL.B.

SHRI MOUNI VIDYAPEETH

Gargoti, Kolhapur.

The Vidyapeeth was founded on April 4, 1952. It is a research and experimental centre in the field of rural education. It has a research wing affiliated to the Poona University, a teaching wing and an extension wing. It conducts the following institutions namely the Govindrao Korgaonkar Institute of Rural Education, a Social Education Organisers' Training Centre, a Rural Institute, Teachers' Training College (both Graduate and Primary), Multipurpose High School, Primary School and Pre-Primary School.

Founder-President : V. T. Patil, B.A., LL.B.; *Kulapati :* Acharya S. J. Bhagwat; *Director :* B. M. Save, M.A., M.Ed.; *Secretary :* J. P. Naik, B.A.

COTTON MILLS

SHRI NARAYAN WEAVING MILLS, Owners: Sangle Bros., Office on Mill premises. Mills at Ichalkaranji, S.M.C.

SHRI SHAHU CHHATRAPATI MILLS, Agents: Budhgaon Trading Co., Private Ltd., New Citizen Bank House, Paltan Road, Bombay. Mills at Shahupuri, Kolhapur 2.

VENKATESH RANG TANTU MILLS, Owners: Messrs. Y. V. Datar, M. V. Datar, Office on Mill premises. Mills at Ichalkaranji, Kolhapur District.

NAGPUR DISTRICT

Headquarters : Nagpur.

Talukas : Nagpur, Ramtek, Katol, Saoner, Umrer.

The area of the District is 3,842 sq. miles and the population 1,511,187 (1961 Census—Provisional) (Males 783,736; females 727,451). The language spoken is Marathi.

The richest part of the District is the western half of the Katol Tehsil. It possesses a soil profusely fertile and teems with the richest garden cultivation. From Pilkapar Hills in the Katol Tehsil the plains extend to the eastern border. Its surface is scarcely ever level, but it is closely cultivated, abounds in mango groves and trees of all sorts, and towards the east is studded with small tanks which form a feature of the landscape. The elevation of the plain country is from 900 to 1,000 feet above sea-level.

The forests are mainly situated in a large block on the Satpura Hills to the north-east, while isolated patches are dotted on the hills, extending along the south-western border. The forest growth varies with the nature of the soil, teak on good well-drained slopes, salai on the steep hillsides and ridges, and satinwood on the sandy levels. In the open country mango, tamarind and bastard date-palms are common.

The annual rainfall averages about 47·5 inches.

Cotton and jawar are the chief produce of the District which is also famous for its oranges. During the cold weather wagonloads of oranges are exported daily to Bombay and other parts of India.

The District is not badly off in the matter of mineral deposits. There are some manganese mines and limestone quarries in the District and coal-mines at Kamptee and Chanda.

There are five textile mills in Nagpur City, a number of oil mills, a pottery concern, glass works, saw mills, a rubber factory, a thriving frame making industry, a large fruit canning industry and a large number of handloom factories. Nagpur saris are in great demand in all parts of the country.

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NAGPUR MUNICIPAL CORPORATION

Mayor : Pannalal Deshraj.

Deputy Mayor : Rajkumar Rajaram Laxmanrao Bhonsale.

Members

Bhalchandra Anandrao Udhoji, B.A., LL.B. (*Ward No.* 1); Govind Gopal Bhamburkar, B.A., LL.B. (*Ward No.* 2); Gayanarayan Indranarayan Trivedi (*Ward No.* 3); Rammurty Shyamdayal Mishra (*Ward No.* 4); Narayan Tanbaji Murkute (*Ward No.* 5); Vithal Supaji Nagarare (*Ward No.* 6); Kisanlal Narayan Banode (*Ward No.* 7); Akant Piraji Matey (*Ward No.* 8); Rajkumar Rajaram Laxmanrao Bhonsale (*Ward No.* 9); Vasant Ramji Dhawale (*Ward No.* 10); Onkar Vithalrao Deshmukh, B.A., LL.B. (*Ward No.* 11); Balwantrao Ganpatrao Dhobale, B.A., LL.B (*Ward No.* 12); Pandurang Tukaram Kadoo (*Ward No.* 13); Dr. Devidas Wasudeo Duragkar (*Ward No.* 14); Motiram Budhoo Panchbhai (*Ward No.* 15); Daulat Patel Chhotelal Yadao (*Ward No.* 16); Gayadin Ramdin Painter (*Ward No.* 17); Tulsiram Raghoba Nakshane (*Ward No.* 18); Tukaram Rajaram Joshi (*Ward No.* 19); Harichandra Kisan Pawanikar (*Ward No.* 20); Mahadeo Tanbaji Pinjarkar (*Ward No.* 21); Laxman Somaji Barbate (*Ward No.* 22); Govindrao Narayanji Ghavaghawe (*Ward No.* 23); Mahadeo Mango Kumbhare (*Ward No.* 24); Mahadeo Kondaji Patharabe (*Ward No.* 25); Dinanath Pralhad Dhapulkar (*Ward No.* 26); Dhondba Dashrath Hedaoo (*Ward No.* 27); Mohamad Yakub Haji Khan Mohammad (*Ward No.* 28); Shankarrao Baladas Nikhare (*Ward No.* 29); Wasudeo Saidu Dongre (*Ward No.* 30); Dewaji Warloo Bhagat (*Ward No.* 31); Ahamadkhan Lalkhan (*Ward No.* 32); Chhagandas Sakharam Ramteke (*Ward No.* 33); Rama Tukaram Rodage (*Ward No.* 34); Smt. K. D. Cassad (*Ward No.* 35); Dharamdas Paikuji Meshram (*Ward No.* 36); Balkrishna Rajanna Nilamwar (*Ward No.* 37); Pannalal Kanhayalal Deshraj (*Ward No.* 38); Pandurang Mohanji Gayadhane (*Ward No.* 39); Sadanand Jumman Fulzele, B.A. (*Ward No.* 40); Mahadeo Nathoo Bhorkar (*Ward No.* 41); Khushal Morbaji Gudadhe, B.A. (*Ward No.* 42).

Elected by Textile Union Constituency : Bhayya Marotrao Pawar.

Elected by Non-Textile Union Constituency : Janardhan Mahadeo Mool.

Elected by Nagpur Chamber of Commerce : Mahadeo Binjaraj Modi.

Appointed (5) : J. P. Gimi, B.A., F.R.M.S. (*Nagpur University*); Ramrao Narayanrao Balbudhe (*Janapad-Sabha, Nagpur*); Vacant (*Central Railway*); J. B. Panthaki (*Millowners' Association*); Waman Govind Gawande (*Nagpur Improvement Trust*).

Selected (6) : Bholasingh Vishwanath Nayak; Rikhabchand Kalyanmal Sharma; Gulabrao Baliram Barai, M.A., LL.B.; Vacant; Appaji Domaji Punje; Balkrishna Narayan Saoji.

STANDING COMMITTEE FOR 1961-62

Chairman : Tulsiram R. Nakshane; *Members :* Rikhabchand Kalyanmal Sharma; Gayanarayan Indranarayan Trivedi; Vasant Ramji Dhawale; Laxman Somaji Barbate; Mohamad Yakub Kamar; Gulabrao Baliram Barai; Rammurty Shyamdayal Mishra; Mahadeo Tanbaji Pinjarkar; B. R. Nilamwar.

Principal Officers

Municipal Commissioner, S. N. Limaye, B.A., LL.B., I.A.S.

Dy. Municipal Commissioner : S. N. Chatterjee, B.Sc., D.I.C. (Lond.).

Municipal Secretary, G. Y. Chitnavis, B.Sc., L.S.G.D.

City Engineer, Vithal Singh, B.Sc. (Engg.).

Development Engineer, D. N. Dadabhai, B.E. (Civil), B.E. (Elec.), A.M.I.E. (India).

Health Officer, Dr. H. N. Vaidya, M.B.B.S., D.P.H.

Chief Accounts and Finance Officer, A. N. Sathe.

Executive Engineer (*Water Works*), V. R. Kulkarni, B.E. (Civil).

Budget Estimates (1961-62) : Income Rs. 4,36,41,136; Expenditure Rs. 4,98,51,100.

Nagpur University

Year of Foundation : 1923.

Chancellor, Sri Prakasa, Governor of Maharashtra.

Vice-Chancellor, Col. G. B. Badkas.

Treasurer, P. P. Deo.

Registrar, Dr. M. S. Modak.

Dy. Registrar, Dr. S. V. Bhagwat; *Asstt. Registrars*, M. R. Thakur, S. R. Gupte, M. P. Mardikar; *Librarian*, P. S. Phadke; *Hon. Consulting Engineer*, Vacant; *Officer-in-Charge, Physical Edn.*, M. P. Major; *Medical Officer*, Dr. P. U. Deshpande; *Press Supdt.*, S. L. Turile; *Hostels Supdt.*, Dr. P. J. Khankhoje; *Lady Warden, Sadaparwas Hostel*, Smt. S. Didolkar.

Teaching, affiliating; University Colleges 3, University Teaching departments 8; affiliated Colleges 33; Students—University Teaching departments: 576 (Men 523; Women 53); University Colleges: 752 (Men 684; Women 68); affiliated Colleges: 20498 (Men: 17,521 Women 2,977).

Budget Estimates 1959-60 :

Central Government Grants : Rs. 57,613·50 nP.
State Government Grants : Rs. 4,63,745·40 nP.
University Grants Commission : Rs. 1,34,534·20 nP.

Total income : Rs. 3,539,462·38 nP.
Total expenditure : Rs. 35,15,045·70 nP.

University Teaching Departments :

Biochemistry, Geology, Political Science, Public Administration and Local Self-Government, Ancient Indian History and Culture, Pharmacy, Library Science and Post-Graduate department in Humanities.

University Colleges :

Laxminarayan Institute of Technology, Nagpur.
University College of Law, Nagpur.
University Training College, Nagpur.

Affiliated :

College of Agriculture, Nagpur.
College of Science, Nagpur.
Dhanwate National College, Nagpur.
G. S. College of Commerce, Wardha.
G. S. College of Economics and Commerce, Nagpur.
G. S. College of Science and Arts, Khamgaon.
Government Diploma Training Institute for Men, Amravati.
Government Diploma Training Institute for Women, Amravati.
Government Polytechnic, Nagpur.
Hislop College, Nagpur.
Medical College, Nagpur.
Nagpur Mahavidyalaya, Nagpur.
Rajasthan Aryan College, Washim.
S. B. City College, Nagpur.
Shri Shivaji College, Amravati.
Sitabai Arts College, Akola.
Vidarbha Mahavidyalaya, Amravati.
Lady Amritbai Daga College for Women, Nagpur.
Government Polytechnic, Amravati.
Post-Graduate Basic Training College, Amravati.
College of Agriculture, Akola.
Amolakchand Mahavidyalaya, Yeotmal.
Government B.T. College, Akola.
St. Francis de Sale's College, Nagpur.
Arts College, Buldana.
College of Engineering, Nagpur.
Janata Mahavidyalaya, Chanda.
M. M. College of Science, Nagpur.
N. M. Dalal College of Arts & Commerce, Gondia.
Nagpur Veterinary College, Nagpur.
Swawalambi Diploma Training College, Wardha.
Vanijya Mahavidyalaya, Yeotmal.
Janata Secondary Teachers' Training College, Chanda.

Associations and Institutions

ALL INDIA OCCUPATIONAL THERAPISTS ASSOCIATION

13/1, Medical Colony, Ajni, Nagpur.

CENTRAL EMERGENCY RELIEF TRAINING INSTITUTE

Nagpur.

The Institute, first of its kind in India, trains both official and non-official nominees of the various State Governments and the Departments of Government of India, in techniques of Emergency Relief Operations. It was started in April 1957 and is run by the Government of India under the Ministry of Home Affairs.

The courses are of five weeks duration.

Commandant : Lt.-Col. G. C. S. Chopra.

CHATUR SANGEET MAHAVIDYALAYA

Mahal, Nagpur 2.

President: V. V. Kalikar, B.A., LL.B.; *Vice-Pres. :* G. M. Chitanavis, M.A., B.Sc. (U.S.A.); *Secretary :* W. V. Deshpande, B.A., B.com., Bar-at-Law; *Principal (Ex-Officio) :* Amritrao Nistane, M.Mus.

THE CHRISTIAN MEDICAL ASSOCIATION OF INDIA

Office : Christian Council Lodge, Nagpur.

The Association has assisted in the development of the Christian Medical Colleges at Vellore and Ludhiana, and through its Nurses Auxiliary has played a large part in development of Nursing Education.

President : E. S. Chellappa, M.B.B.S., F.R.C.S.
Vice-President :—P. D. Sukhnandan, F.C.P.S.
Editor :—J. C. David, M.B., Ph.D.

Secretary-Treasurer :—E. W. Wilder, M.D., Christian Council Lodge, Nagpur 1.

Secretary of Preventive Medicine :—Dr. Claire P. Thomson, M.R.C.S., L.R.C.P., D.T.M. & H.

C. P. & BERAR BLIND RELIEF ASSOCIATION

South Ambazari Road, Nagpur.

President : K. T. Mangalmurti; *Treasurer :* D. P. R. Cassad; *Secretary :* C. S. Dharmadikari.

INSTITUTION OF ENGINEERS (INDIA)

North Ambazari Road, Nagpur.

JOURNALISM DEPARTMENT

(Hislop College).

Temple Road, Nagpur 1.

The Department offers One-year Diploma, One-year Certificate and selected subjects courses.

Head of the Department : K. E. Eapen.

KRIDA MANDAL

C/o S. D. Dhanwate Nagar Vidyalaya, Mahal, Nagpur 2.

President : K. T. Mangalmurti, I.C.S. (Retd.); *Working President :* R. V. Kalikar; *Secy. :* S. W. Dhabe.

LAXMINARAYAN INSTITUTE OF TECHNOLOGY

Nagpur University, Amravati Road, Nagpur 1.

Director : Prof. Dr. P. S. Mene, B.Sc. (Hons.), Ph.D. (London), D.I.C., M.I.I. Chem. E., F.G.M.S.

MAHAVIDARBHA CHAMBER OF COMMERCE & INDUSTRIES

Vohuman Lodge, Byramji Town, Nagpur 1.

President : K. K. Mankeshwar, F.C.A.; *Vice-President :* R. V. Deshmukh.

MENTAL HOSPITAL

Nagpur.

Medical Superintendent : Dr. I. K. Mujawar, M.B.B.S., B.M.S.Cl.I.

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MINERAL INDUSTRY ASSOCIATION
'Mineral House', Nagpur.

Chairman : J. B. Thaker; *Vice-Chairmen:* U. S. Agrawal, R. A. Trivedi; *Hon. Secretary:* T. R. Goenka.

NAG-VIDARBHA CHAMBER OF COMMERCE
Surya Vilas, Temple Road, Civil Lines, Post Box No. 33, Nagpur.

President : Hanuman Prasad Nevatia.
Sr. Vice-President : D. C. Sutaria.
Junior Vice-President : Ballabhdas Rathi.
Jt. Hon. Secretaries : R. D. Sutaria, Shankerlal Gandhi.
Secretary : R. N. Jha.

THE NAGPUR CHAMBER OF COMMERCE LTD.
Cotton Market, Nagpur 2.

President : Sohanlal Agrawal; *Vice-Presidents:* Ratanlal Dhariwal, Abbas Ali Kamal; *Secretary:* Shikharchand Jain.

NAGPUR KHADI MANDAL
Mahal, Nagpur 2.

President : Gopalrao Pathak; *Vice-President,* D. V. Date; *Secretary :* Smt. P. Desai.

THE NAGPUR ORANGE GROWERS' CO-OPERATIVE ASSOCIATION LTD.
Vidarbha Co-op. Bank Building, Tilak Statue, Nagpur.

The Association has now taken over the processing factory of CHOC's Canning P. Ltd., Nagpur on lease, and has thus started processing of oranges, manufacturing of juice and canning of fruits and vegetables.

President : A. D. Deshmukh.
Vice-President : G. G. Deshmukh.
Secretary : R. N. Gadre.

THE NAGPUR SHIKSHAN MANDAL'S RADIO INSTITUTE
Mahal, Nagpur.

President : K. T. Mangalmurti, I.C.S. (Retd.); *Secretary :* R. V. Kalikar, M.A.; *Principal :* K. G. Tamhane, B.Sc., LL.B., B.T.

NATIONAL ASSOCIATION OF PHYSICAL EDUCATION AND RECREATION, INDIA
Mahal, Nagpur 2.

President : Dr. K. S. Mhaskar, M.A., M.D., D.P.H.; *Working President :* K. T. Mangalmurti, I.C.S. (Retd.); *Gen. Secretary :* S. W. Dhabe, Advocate, Supreme Court.

NURSES AUXILIARY OF THE CHRISTIAN MEDICAL ASSOCIATION OF INDIA
Office : Christian Council Lodge, Nagpur.

President : Miss L. P. Telu Ram.

Vice-Presidents : Miss G. Lazarus, Mrs. A. Koshi.

Secretary-Treasurer : Miss Alice Zachariah, Christian Council Lodge, Nagpur 1.

OCCUPATIONAL THERAPY SCHOOL
Medical College Hospital, Nagpur.

Director : R. K. Oza, B.A., O.T.D.; *Hon. Adviser :* Mrs. Kamala V. Nimbkar, B.A., F.T.C., O.T.R.

SHRI RAMAKRISHNA ASHRAMA
Dhantoli, Nagpur 1.
President : Swami Bhaskareshwarananda.

SANSKRIT BHASHA PRACHARINI SABHA
Mor-Hindi-Bhavan, North Ambazari Road, Nagpur 1.

President : Dr. Sir M. Bhavanishankar Niyogi, Ex-Chief Justice, Nagpur High Court; *Vice-President,* Mahamahopadhyaya Dr. V. V. Mirashi; *Treasurer :* Phulkumar Poddar; *General Secretary :* P. K. Mononi.

Publishes Sanskrit Weekly *Bhavitavyam*; *Editor :* D. V. Varadpande.

SEVA SADAN
North Ambazari Road, Nagpur.

President : Dr. M. B. Niyogi; *Hon. Secy :* W. R. Puranik; *Supdt. :* A. R. Gokhale.

THE SOUTH INDIA ASSOCIATION (REGD.)
Modi Line 1, Sitabuldi, Nagpur.

President : P. S. Vaidyanathan; *Vice-President :* C. G. Vishwanathan; *General Secretary :* R. Gopalan; *Treasurer :* V. N. Rama Rao.

SHRI SHRADHANAND ANATHALAYA
Shradhanand Peth, Nagpur.

President : Dr. Panjabrao Deshmukh; *Vice-President :* Dr. M. B. Niyogi; *Secretary :* D.T. Goley, B.A.; *Treasurer :* Smt. Sumati Devi Dhanwati.

THE TEXTILE MILLS' ASSOCIATION
Subedhar's Bungalow, Road B, Street 4, P.O. No. 3, Dhantoli, Nagpur.

Chairman : H. R. Nevatia.
Dy. Chairman : R. V. Deshmukh.
Ag. Secretary : K. K. Dani.

VIDARBHA HINDI SAHITYA SAMMELAN
Fatechand Mor Hindi Bhavan, North Ambazari Road, Nagpur 1.

President : Brijlalji Biyani; *Gen. Secretary:* Bhishmaarya.

VIDARBHA SAHITYA SANGH
North Ambazari Road, Nagpur 1.

Trustees : Loknayak M. S. Aney, Lt.-Col. K. T. Mangalmurti; *President :* N. R. Shende; *General Secretary :* Prof. S. G. Kashikar.

VIDARBHA SAMSHODHANA MANDAL (VIDARBHA RESEARCH SOCIETY)
Vidarbha Sahitya Mandir, North Ambazari Road, Nagpur 1.

President: Dr. M. B. Niyogi, M.A., LL.M., LL.D.; *Chairman, Executive Committee :* Mahamahopadhyaya Dr. V. V. Mirashi, M.A., D.Litt.; *Secretary :* D. G. Landge, B.A., LL.B.

WHOLESALE GRAIN AND SEED MERCHANTS' ASSOCIATION
Itwari, Nagpur.

YOUTH HOSTELS' ASSOCIATION OF INDIA
87, West Park Road, Dhantoli, Nagpur.

President: K. T. Mangalmurti; *Vice-President:* M. D. Dhanwatay; *Secretary :* G. Gopalan; *Joint Secy. :* B. Pathak.

COTTON MILLS

CENTRAL INDIA SPINNING, WEAVING & MANUFACTURING CO., LTD. (EMPRESS MILLS). Mg. Agents : Tata Industries Private Ltd., Bombay House, 24, Bruce Street, Fort, Bombay. Mills at Nagpur.

MODEL MILLS, NAGPUR LTD., Under the Authorised Controller; Office on Mill premises. Mills at Nagpur.

NANDED DISTRICT

Headquarters : Nanded.

Talukas and Mahals : Deglur, Kandhar, Biloli, Nanded, Hadgaon, Bhokar (Mahal), Mukhed (Mahal), Kinwat.

Area : 4,805 sq. miles. Population : 1,080,113 (1961 Census—Provisional) (Males 549,335 ; females 530,778).

Two Talukas Kinwat and Rajura are separated from the main body of the District by Yeotmal District.

The District is on the whole dry and healthy. The annual temperature varies between 100° and 60°. The average rainfall is about 35 inches.

There are tombs of Muslim saints and Nanded has the Gurudwara of the Hyderabad Sikhs where Guru Govind is buried.

Rabi crop consists of jawar, gram, wheat, oilseeds. The Kharif crop consists of bajra, linseed, cotton and maize. The staple food crop is jawar and the main cash crop cotton.

OSMANSHAHI MILLS LTD., Managing Agents : Bansilal Bisesardas Private Ltd., 269/270, John's Lane, Gunfoundry, Hyderabad. Mills at Nanded.

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NASIK DISTRICT

Headquarters : Nasik.

Talukas and Mahals : Kalwan, Dindori, Niphad, Yeola, Igatpuri, Nandgaon, Nasik, Sinnar, Baglan, Malegaon, Chandor, Peint, Surgana.

Nasik District is a historic place in Maharashtra and the city one of the oldest in the Deccan and a place of pilgrimage. The area of the District is 6,021 sq. miles. Population : 1,854,396 (1961 Census—Provisional) (Males 953,743 ; females 900,653). The language spoken is Marathi.

With the exception of a few villages in the west the whole District lies on a tableland at an elevation of 1,300 to 2,100 feet above sea-level.

The main food crops are rice, wheat and bajra. Nagli is used as food by the poor.

EDUCATIONAL INSTITUTIONS

HANSRAJ PRAGJI THACKERSEY COLLEGE, NASIK
(Conducted by the Gokhale Education Society, Bombay.)

Principal : N. M. Acharya, M.A.

BHONSALE MILITARY SCHOOL, NASIK

Residential in nature, recognised by the Education department and S.S.C. Examination Board, Maharashtra. Prepares boys for S.S.C. examination. Standard VII to XI.

Chairman of the Governing Body : Seth Motilal Manekchand.

General Secretary : M. J. Dikshit, M.A., B.Sc.

Principal : H. K. Mokashi, M.A., B.T., M.Ed.

BARNES HIGH SCHOOL
Deolali (Central Rly.).

This Anglican boarding and day school admits children of all communities.

The school teaches up to the Cambridge School Leaving Certificate.

Headmaster : W. R. Coles, B.A. (Hons.) (Lond.).

OTHER INSTITUTIONS

Government Training College for Women, Nasik ; Boys' Town (formerly Parsi High School), Nasik ; Government Girls' High School, Nasik ; National High School, Nasik ; Maratha High School, Nasik ; New High School, Nasik ; Ramrikhdas Parasharam Puria Vidyalaya, Panchvati ; Pethe High School, Nasik ; Police Training School, Nasik ; Rungtha High School, Nasik ; Sarvajanik Wachanalaya (General Library), Nasik ; Security Printing Press, Nasik Road ; Convalescent Home (H. M. Phipson), Nasik Road ; Pushpavati Rungtha Kanya Vidyalaya (attached to Rungtha High School), Nasik ; N. E. I. Girls' High School, Nasik (attached to New High School) ; Purshottam High School, Nasik Road ; Deolali Cantonment High School, Deolali ; Yashwant Vyayam Mandir, Nasik ; Niranjan Durlabhji Khetain Bal-Mandir, Panchvati ; Maharshi Shinde Training College, Nasik ; Radionic Institute, Main Road, Nasik ; Anath Mahila Ashram, Tilabhandeshwar Lane, Nasik ; Beggars' Home, Gadge Maharaja Dharmashala, Nasik ; Kushta Dhama and Shishu Vihar, Panchavati, Nasik, Institution takes care of children of lepers ; Lokahitavadi Mandal, Arya Vaibhav, Nasik. Institution devoted to cultural activities ; Nasik Saraf Association, Saraf Bazar, Nasik ; Red Cross Society, Ambedkar Colony, Nasik ; Hansraj Pragji Thackersy College (Arts & Science), Nasik ; B. Y. K. College of Commerce, Nasik ; Bhonsale Military School, Nasik ; Government of India Printing Press, Gandhi Nagar ; Hindi Madhyamik Vidyalaya, Gandhi Nagar ; Adarsha Montessori School, Nasik ; Dandekar Tailoring College, Nasik ; Sadhana Typewriting School, Nasik ; Government Technical-cum-Commercial School, Nasik ; Hindi Vidyalaya (attached to M. Rashtra Bhasha, Poona) ; Madhyamik Adhyapan Vidyalaya (attached to New High School, Nasik) ; Hindi Shikshak Sanad (Junior & Senior) (attached to New High School, Nasik) ; Khadi Gramodyog Vidyalaya, Post Trimbak Vidyamandir, Nasik.

MAHARASHTRA ENGINEERING RESEARCH INSTITUTE
Nasik-Dindori Road, Nasik.

This is under the administrative control of the Maharashtra Irrigation and Power Department.

Director : B. S. Apte, B.E., A.M.I.E. (India).

DR. K. N. BAHADURJI MEMORIAL SANATORIUM FOR PARSIS
Lam Road, Deolali.

Trustees : Dr. M. B. Mody, M.D. ; Maneck P. Mistry, F.S.A.A., F.C.A. ; Rustom P. Marzban, B.A. ; *Jt. Hon. Secretary :* Eruch D. Engineer.

K. G. HINDU SANATORIUM
Nasik Road.

For information, please apply to the Managing Trustee, Kalewar Mansion, Babulnath Road, Bombay 7.

THE NASIK DISTRICT CHAMBER OF COMMERCE
896, Ravivar Peth, Nasik City.

RADIONIC INSTITUTE
Rajendra Engineering College, Main Road, Nasik.

Principal : Y. L. Rajendra, D. Tech. (Elec.), M.I.R.E., A.Brit., I.R.E.

HOSPITALS

Civil Hospital, Nasik ; Hospital for Lepers, Panchvati, Nasik ; Z. B. M. M. Hospital, Sharanpur, Nasik ; Sir D. M. Petit Hospital for Animals, Nasik.

HOTELS

15th August Gujrat Lodge, Nasik ; Bhagwantrao Lodge, Main Road, Nasik (Vegetarian) ; Badshahi Gujrat Lodge, Nasik ; Bombay Gujrat Lodge, Nasik ; Coronation Hotel, Deolali ; Edward Hotel, Deolali ; Grand Hotel, Deolali ; Hotel Greens, Nasik ; Hotel Liberty, Nasik ; Mazda Hotel, Nasik ; Meher Restaurant, Nasik ; Royal Hotel, Deolali ; Rugby Hotel, Deolali ; Nasik Bakery and Restaurant, Agra Road, Nasik ; Diamond Lodge, Agra Road ; Nasik Ashram, Main Road (Lodging House) ; Raja Mahal, Opp. Central Bus Station (Lodging and Boarding—Vegetarian).

OSMANABAD DISTRICT

Headquarters : Osmanabad.

Talukas and Mahals : Latur, Tuljapur, Osmanabad, Kalam, Omerga, Owsa, Bhoom (Mahal), Parendah, Ahmadpur, Nilanga, Udgir.

Area : 5,532 sq. miles. Population : 1,475,044 (1961 Census—Provisional) (Males 757,674 ; females 717,370).

The average annual rainfall is about 32 inches.

Six places of archaeological interest are the fort of Naldrug, the Jumma Masjid in Owsa Taluka, the caves around the town of Osmanabad, the two caves at Hasangaon, the old fortress at Parendah. Tuljapur is a place of Hindu pilgrimage.

The staple food grain is jawar. Wheat, rice and bajra are next in importance. Cotton is grown everywhere, while sugarcane is sometimes grown with well irrigation.

PARBHANI DISTRICT

Headquarters : Parbhani.

Talukas : Parbhani, Gangakhed, Pathri, Jintur, Hingoli, Basmat, Kalamnuri, Partur.

Area : 4,853 sq. miles. Population : 1,206,368 (1961 Census—Provisional) (Males 612,928 ; females 593,440).

The climate is healthy from February to May but it is feverish during the monsoon and the cold weather. The annual range of temperature is from 105° to 60°. The average annual rainfall is about 35 inches.

Structures of note in the District are the temple of Nagnath at Aundh, the Jain temple of Parsnath near Jintur, the temple near Bamu and the shrine of Ramzan Shah.

The soil is partly black cotton and partly masab and kharab. On the black soil are grown white jawar, wheat, gram, tuar, while on the kharab soils are grown jawar, bajra, indigo, sesamum, oilseeds and pulses. The kharab soils also bear garden crops. The staple food crops are jawar, wheat and bajra. Cotton is grown throughout the District. About one-twentieth of the land is under forest.

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POONA DISTRICT

Headquarters : Poona.

Talukas or Mahals : Ambegaon, Baramati (Bhimtadi), Dhond, Haveli, Indapur, Junnar Khed, Mawal, Mulshi, Poona City, Purandhar, Sirur, Bhor, Velhe.

The population according to 1961 census is 2,465,080 and the area of the District is 6,032 sq. miles. Number of males : 1,269,176 ; females 1,195,904). The language spoken is Marathi.

The city proper extends along the Mutha river for about 1¾ miles inland ; its length is about 2 miles from east to west and its breadth about 1¼ miles. the total area being about 2¾ square miles.

The rainfall varies considerably in different parts of the District. In the western parts it is heavy and regular, in the central belt moderate, and in the east very irregular. The main crops are paddy and jawar. But the District is a deficit area in the matter of food grain. One of the products of which the District has an exportable surplus is jaggery produced from sugarcane.

The city of Poona lies at the confluence of two small rivers, the Mutha and the Mula, on the Western margin of the Deccan plateau at a height of about 1,800 ft. above sea-level. Only 30 miles separate the city from the main range of the Western Ghats and 119 miles from the State capital, Bombay.

The importance of Poona from the military point of view is growing. It is the headquarters of the Southern Command and also of the Poona Sub-Area. The National Defence Academy is located in Khadakvasla. The School of Military Engineering and The Armed Forces Medical College are also in Poona. A wing of the Indian Air Force is also posted to Poona. Some of the other military establishments around Poona are : the Ordnance Depot and the Arsenal at Kirkee and the Vehicles Depot at Dehu Road. The Indian Navy Mechanical Training establishment, I.N.S. "Shivaji". is located at Lonavla. 40 miles from Poona and the newly established Naval Engineering College, first of its kind in India, in the precincts of I.N.S. "Shivaji".

Yet other institutions are the Institute of Armament Studies and the Artificial Limbs Centre, the only one of its kind not only in India but also in South & West Asia and the fourth largest in the world. A gliding centre is also located near Poona.

Other important institutions of All-India character located in Poona are given below :

Meteorological Office : The technical headquarters of the India Meteorological Department, the Meteorological Office in Poona, is located on the Ganeskhind Road at Shivajinagar, in a magnificent building with a conspicuous clock tower.

Central Water and Power Research Station ; National Chemical Laboratory ; Overseas Communications' Beam Wireless Station at Dighi ; Headquarters of the Servants of India Society ; Bhandarkar Oriental Research Institute ; Penicillin Factory, Pimpri ; Virus Research Centre, the only of its kind in India.

Poona, which was till recently predominantly an educational centre, is fast developing as an industrial area as well. Besides the two industrial estates at Hadapsar and Pimpri, the whole belt along the Bombay-Poona Road from Kirkee, Dapodi, Pimpri, Chinchwad upto Lonavla is fast attracting industries of various types.

The Poona Municipal corporation is setting up a third industrial estate near Golibar Maidan exclusively for small industries. There are three sugar factories two of them being run on cooperative basis and the third privately owned. One more sugar factory in the co-operative sector is coming in the district near Nira.

The district also boasts of important places of historical and archaeological interests. Shivneri fort, birth place of the great Maratha Hero, Chhatrapati Shivaji, the famous Karla caves which constitute a fine example of Buddhist architecture of 1st Century B.C. ; Samadhis of Kasturba Gandhi and Mahadevbhai Desai are located in the district.

POONA MUNICIPAL CORPORATION

A Corporation for the City of Poona was created on February 15, 1950.

The Municipal Budget for 1961-62 : Revenue : Rs. 1,85,17,013 ; Expenditure : Rs. 1,90,45,184.

Party position : Congress 33, P.S.P. 11, Independent 1, Janasangh 6, Samiti 12. One member is dead and another has resigned.

Mayor : Rohidas Harilal Kirad.

Deputy Mayor : Dr. Ganesh Raghunath Bendre.

Members : Gunjal Namdeo Ranoji, Barne Vitthal Laxman, Gaikwad Madhavrao Balwantrao, Chavan Jairam Vithuji (*Ward No.* 1) ; Malayya Krishna Ramanath, Deshpande Dnyaneshwar Tukaram (*Ward No.* 2) ; Khan Gulam Mohomad Abdul Satarkhan, Bendre Ganesh Raghunath, Shendge Vitthal Shankar (*Ward No.* 3) ; Mithapalli Malayya Ramayya, Kirad Sardar Munnasingh, Patel Jamalkhan Karimkhan, Pawar Damodhar Santram (*Ward No.* 4) ; Kalyankar Motilal Keshav, Sapar Narayan Tukaram, Bogam Dnyanoba Ramanna (*Ward No.* 5) ; Gandhi Ramdas Vitthaldas, Shah Gokuldas Jivarambhai (*Ward No.* 6) ; Kalbhor Chandrakant Maruti, Telang Ramchandra Vitthal, More Balkrishna Pandharinath, Dhere Shivaji Amrut (*Ward No.* 7) (*Part I*) ; Ghaisas Ganesh Trimbak, Gavandi Mohan Vishwanath, Paranjape Ramdas Sadashiv (*Ward No.* 8) (*Part II*) ; Nalavade Ganpat Mahadeo, Gosavi Laxman Gopal, Moholkar Tukaram Pandarinath (*Ward No.* 9) ; Kirad Rohidas Harilal, Kurumkar Shankar Balwant, Pardeshi Kaluram Udansingh, Maheshawari Mohanlal Kevalchand, Pawar Narayan Ganpatrao (*Ward No.* 10); Girme Krishna Tukaram, Kadu Digambar Shantaram, Tikone Damodar Maruti, Satav Pandurang Gopal (*Ward No.* 11) ; Bhagwat Gopal Prabhakar, Shrimati Bapat Leela Vishwanath, Hagavane Vasant Shankar (*Ward No.* 12) ; Kotwal Laxmanrao Baburao, Sathye Narayan Bhaskar (*Ward No.* 13) ; Gogate Vasudeo Balwant, Dharia Mohan Manikchand, Shrimati Bhopatkar Sundrabai Bhaskar (*Ward No.* 14) ; Bhave Vishwanath Narayan, Shrimati Limaye Anasuyabai Shridhar, Shirole Bhausaheb Laxmanrao, Sahasrabudhe Laxman Gopal (*Ward No.* 15) ; Shirole Sambajirao Bajirao, Bhosale Jagannath Vishnu, Walke Narayanrao Mahadeo, Pashankar Dayanand Kashinath, Nagarkar Pandurang Ramchandra, Kamble Ramchandra Tukaram (*Ward No.* 16) ; Kodre Rajaram Kundalik, Kodre Sadba Balaji, Khalbhor Jayaram Sakharam (*Ward No.* 17) ; Moze Genu Sopana, Shelar Balwant Laxman (*Ward No.* 18) ; Padale Thaksen Raghoba, Patil Vishwanath Bhausaheb, Naik Raosaheb Tukaram (*Ward No.* 19) ; Sasane Jayasingh Ganpat, Lonkar Bala Bhiva (*Ward No.* 20).

STANDING COMMITTEE

Chairman : Narayanrao Ganpatrao Pawar.

Members : Sardar Munnasingh Kirad ; Dr. Ganesh Trimbak Ghaisas, L.C.P.S. ; Shivajirao Amrutrao Dhere ; Malayya Ramayya Mithapalli ; Bhausaheb Laxmanrao Shirole ; Sambhajirao Bajirao Shirole, B.A. ; Pandurang Gopal Satav ; Rajaram Kundlik Kodre ; Pandurang Ramchandra Nagarkar ; Raosaheb Tukaram Naik ; Dayanand Kashinatha Pashankar.

OFFICERS

Municipal Commissioner, S. B. Kulkarni, I.A.S.

Assistant Municipal Commissioner (General), G. M. Khopkar, B.A. (Hons.), LL.B.

Assistant Municipal Commissioner (Special), S. B. Darp, B.A.

Municipal Secretary, A. K. Jadhav, B.A., LL.B.

Medical Officer of Health, Dr. R. Gracias, B.Sc., M.B.B.S., D.P.H. (London).

City Engineer, S. G. Yadav, B.E. (Civil), A.M.I.E.

Development Engineer, B. F. Bode, B.E. (Civil), A.M.I.E.

Chief Accountant, R. G. Godbole, B.Com., C.A.

Municipal Chief Auditor, R. N. Gadgil, B.Com.

Assessor and Collector of Municipal Taxes, M. M. Dalvi, B.Com.

Transport Manager, V. D. Desai, B.A.

Senior Legal Adviser, Smt. S. B. Tarkunde, Advocate.

Administrative Officer, G. P. Kale, B.A., B.T., Dip. Ed.

LONAVLA

This hill station is situated at the top of the Bhore Ghat incline about 2,030 feet above sea-level.

Among the lakes may be mentioned the 'Tata Sons Hydro-Electric Works Lake' at Valvan (walking distance and drive over a built road), their smaller lake called Lonavla Lake near the Raiwoods and situated on the cement concrete road leading to I.N.S. "Shivaji". About 2½ miles north of the Railway Station is situated the Lonavla Municipal Borough's Tungarli Lake which is the main source of water supply to Lonavla and Khandala. Fishing is allowed both at the Bhushi and the Valvan lakes, the latter being the more suited for the purpose.

There is a Municipal rest-house and Dharmashalla on the Lonavla-Bhangarwadi Road. The Raiwoods are suitable for picnics and are also a camping ground for Government Officers during the hot season.

About 3½ miles from the Railway is situated the "Tiger's Leap," a promontory which commands a picturesque view of the valley below. The famous Karla Caves are situated on a hill about five miles from Lonavla, and are reached by a built road up to the foot of the hill, and visitors either walk up or are carried up by means of chairs. From the Railway Station of Malawali, nearly three miles from Lonavla, visitors can proceed to view the Lohgadh Fort (now partially demolished) on the top of a hill.

The Govt. of Maharashtra has started a holiday camp at Karla at a distance of about 1½ miles from Malawali Railway Station. The State Transport runs a passenger bus starting from Lonavla Railway Station to the holiday camp. The Lonavla Municipal Borough has constructed a swimming pool on the Bombay-Poona road near old Khandala level crossing gate, and two gardens 'Shivaji Park' at Lonavla and 'Rajmachi Rock Garden' at Khandala.

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The following are some of the Forts and places of interest:—

Fort of Lohgadh, Fort of Visapur, Fort of Rajmachi which stands on the top of the Sahyadri Range and commands a grand view of Matheran, Konkan and even part of Bombay, Duke's Nose, Tungarli Municipal Lake.

The temperature varies from 65 in the cold weather to 85 in the hottest month. The rainfall varies from 160 to 250.

One of the best naval establishments and training schools I.N.S. "Shivaji" is about four miles from Lonavla Station and visitors may contact the Commanding Officer on phone for permit to visit.

A bathing place known as "Kuna Point" is situated on the road leading to Kuna mission. "Dr. Gajanan Mahimtura Swimming Pool" near old Khandala level crossing is open to the public. The thick Rye-Woods Forest also is being developed by the State Govt. Rye-Woods is just near "Shivaji Park".

HOTELS

Central Hotel; Lonavla Hotel; Jai Hind Hotel; Giri Vihar Hotel; Bharatya Lodge; Happy Home; Cafe Golistan.

SANITARIA

Krishna Arogya Bhavan; Jaya Baug; Divali Baug; Vasanji Manji; Khoja Sanitarium; Bhori Sanitarium; Mody Sanitarium; Lady Thakersey Sanitarium; Haji Saboo Siddik Kachhi Sanitarium; Shantilal Jamnadas Morarji Sanitarium.

KHANDALA

Khandala, a health resort, 78 miles from Bombay by rail and 71 by road lies in Mawal Taluka. It is situated at the top of the Bhor Ghat at an elevation of about 2,000 feet above sea-level, and has an agreeable and bracing climate all through the year.

Among places worth a visit in and around the town are Tata Electric Supply Company's reservoir called Forbay Dam, Byramjee's Point, the Duke's Nose, Tiger's Leap, all of which provide magnificent views of the surrounding country. About nine miles from Khandala are the Karla caves considered to be the oldest specimen of Buddhist caves in India. In Walwan lake which is about four miles from Khandala good mahashir fishing is available. At Khandala "Rajmachi Park" is one of the most beautiful spots. The Municipality has made arrangements of one Cafetaria there and during hot seasonal months, there is daily bus service to Rajmachi Point.

HOTELS

Khandala Hotel; Empress Hotel; Government Inspection Bungalow.

INSTITUTIONS

D. Cowasji Zoroastrian Girls' Boarding School; Marsban Sanitarium; Kotkar Sanitarium; Khoja Sanitarium; Kune Mission.

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF POONA

The University of Poona was established by the Poona University Act, 1948 of the Government of Bombay* passed in pursuance of its policy to create Universities in the State for different linguistic regions. The University area comprises the following 12 Districts of Maharashtra State namely, Poona, Nasik, Thana, Jalgaon, Dhulia, Ahmednagar, Sholapur, Satara, Sangli, Kolhapur, Ratnagiri and Kolaba.

The University is both teaching and affiliating in character. The teaching activity is confined to Post-graduate classes in the whole University area and also post-intermediate classes in the Poona area (which comprises Poona and some area in the Poona City Taluka, Mulshi Petha and the Haveli Taluka).

It has the following eight Faculties and has provision for courses for the following degrees:

Faculty of Arts: B.A., M.A., Ph.D., D.Litt., B.A. (External), M.A. (External); *Faculty of Mental, Moral and Social Sciences:* B.A., B.A. (External), M.A., M.A. (External), B.T., M.Ed., B.Com., B.Com. (External), M.Com., M.Com. (External), Ph.D., D.Litt.; *Faculty of Science:* B.Sc. (General), B.Sc. (Hons.), M.Sc., M.Sc. (Maths.), M.Sc. (Maths.) (External), Ph.D.; *Faculty of Law:* LL.B., LL.M., LL.M. (External), LL.D., Ph.D.; *Faculty of Medicine:* M.B.B.S., M.D., M.S., PhD., B.Sc. (Nursing), M.Sc. (Med.); *Faculty of Engineering:* B.E. (Civil, Mechanical, Electrical, Telecommunications and Metallurgy), M.E., M.Sc. (Engg.), Ph.D.; *Faculty of Agriculture:* B.Sc. (Agri.), M.Sc. (Agri.), Ph.D.; *Faculty of Ayurvedic Medicine:* B.A.M. & S.

The University has instituted external degrees for the benefit of employed persons and married women, the B.A. (External), M.A. (External), B.Com. (External) and M.Com. (External) degrees in the Faculties of Arts and Mental, Moral and Social Sciences, M.Sc., (Maths.) (External) in the Faculty of Science, LL.M. (External) in the Faculty of Law to which students can qualify by appearing for the examinations direct without having to undergo instruction in a College or the University.

The University has also instituted a Faculty of Fine Arts and Music and the degree of Bachelor of Music, but it has not started functioning so far.

The following diplomas and certificates have been instituted: (1) Diploma in Oriental (Sanskritic) Learning; (2) Certificate and Lower and Higher Diploma Courses in Modern Foreign Languages (French and German); (3) Diploma in Public Health; (4) Diploma in Psychological Medicine; (5) Diploma in Anaesthesia; (6) Diploma in Music; (7) Diploma in Clinical Pathology; (8) Diploma in Library Science; (9) Diploma in Teaching.

The University has in all 42 affiliated colleges and five recognized research institutions. Of them, 13 colleges and four recognized institutions are in the Poona area and they are called the Constituent Colleges and the Constituent Recognized Institutions of the University. One recognised Institute is out of Poona area. Of the Colleges, two are Law Colleges (one at Poona and the other at Kolhapur), one Medical College (at Poona), two Engineering Colleges (one at Poona and one at Sangli), one Agricultural College (at Poona) and one College of Ayurvedic Medicine and Surgery. The rest are Colleges for Arts, Social Sciences and Science.

The total strength of students in all the colleges and the University is in the neighbourhood of 28,977.

The University has its own Departments in the following ten subjects, each headed by a University Professor or Reader and mainly intended for post-graduate instruction and research. Marathi, Hindi, Linguistic, Sanskrit, Politics, Experimental Psychology, Mathematics and Statistics, Physics, Chemistry, Zoology, Geography and Botany.

CHANCELLOR

Sri Prakasa, Governor of Maharashtra.

VICE-CHANCELLOR

Mahamahopadhyaya, D. V. Potdar.

REGISTRAR

W. H. Golay, B.A.

Dy. Registrar, R. S. Sardeshpande, B.A.

Asstt. Registrar, R. B. Manerikar, M.A., LL.B.

Librarian, K. S. Hingwe, M.A., Dip.Lib.Sc.

SECRETARY, FOREIGN UNIVERSITIES INFORMATION BUREAU AND UNIVERSITY EMPLOYMENT BUREAU

A. B. Arlick, B.Sc. (N.D., U.S.A.).

SECRETARY, BOARD OF EXTRA-MURAL STUDIES

Dr. A. V. Naik, M.A., Ph.D.

SECRETARY, UNIVERSITY BOARD OF SPORTS

V. N. Bhide, B.Sc.

THE COURT

This corresponds to the Senate of the Bombay University and is the main policy-making body of the University. Its membership is about 186 and besides the registered graduates, it has also representatives of the District Local Boards and Municipalities in the Districts in it.

ACADEMIC COUNCIL

This is the main academic body and has powers in respect of all academic matters of the University. Its total membership is about 129.

EXECUTIVE COUNCIL

This is the main administrative body of the University, comprised of representatives from the Court and the Academic Council. Its total membership is 16.

BOARD OF UNIVERSITY TEACHING

This is concerned with the organization, co-ordination and conduct of post-intermediate teaching in the Poona area and the post-graduate teaching in the whole University area. Its total membership is about 52.

* Bilingual.

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BOARDS OF STUDIES

These are 39 in number in all the Faculties together. Their main function is to frame courses of Studies and to draw up panels of examiners. Total membership of the Boards is 445.

INCOME AND EXPENDITURE (1961-62)

Income : Rs. 58,15,137.

Expenditure : Rs. 65,67,206.

Constituent Degree Colleges.—College of Engineering, Poona 5; Fergusson College, Poona 4; College of Agriculture, Poona 5; Sir Parashurambhau College, Poona 2; Law College, Poona 4; Nowrosjee Wadia College, Poona 1; Tilak College of Education, Poona 2; Brihan Maharashtra College of Commerce, Poona 4; M. E. Society's College of Arts & Sciences, Poona 4; B. J. Medical College, Poona 1; Ayurved Mahavidyalaya, 22, Nagesh Peth, Poona 2.

Affiliated Degree Colleges.—Rajaram College, Kolhapur; Willingdon College, Sangli; Hansraj Pragji Thackersey College, Nasik; Shahaji Law College, Kolhapur; Pratap College, Amalner (E.K.); Chhatrapati Shivaji College, Satara; Dayanand College of Commerce, Sholapur; Dayanand College of Education, Sholapur; Shree Maharani Tarabai Teachers College, Kolhapur; Dayanand College, Sholapur; R. P. Gogate College, Ratnagiri; Mooljee Jaitha Arts & Science College, Jalgaon (E.K.); Ahmednagar College, Ahmednagar; Walchand College of Engineering, Sangli; Sangameshwar College, Sholapur; Rayat Shikshan Sanstha's College of Education, Satara; Gopal Krishna Gokhale College, Kolhapur; Shri Shivaji Vidya Prasarak Sanstha's Arts College, Dhulia (W. K.); G.E. Society's Bhikusa Yamasa Kshatriya College of Commerce, Nasik; Sadguru Gadge Maharaj College, Karad (N. Satara); Phaltan Education Society's Mudhoji College, Phaltan (Satara); Affiliated Intermediate Colleges:—Legal Education Society's College of Commerce, Topkhana Building, Kolhapur; Shri Shivaji Education Society's Science College, Karad; Maharaja Sayajirao Gaekwad Arts & Science College, Malegaon.

Recognised Institutions.—Gokhale Institute of Politics & Economics, Poona 4; Bhandarkar Oriental Research Institute, Poona 4; Armed Forces Medical College, Deccan College Post-graduate and Research Institute, Poona 6; G. K. Institute of Rural Education, Gargoti.

AYURVEDA MAHAVIDYALAYA, POONA

583(2), Rasta Peth

POONA 2

The Institution is affiliated to the Poona University for the B.A.M. & S. (Bachelor of Ayurvedic Medicine and Surgery) degree course which covers a period of 4½ years after Inter Science B. Group.

The Institution also conducts a two years' Post-Graduate course —Ayurvidya Parangat of the Tilak Maharashtra Vidyapeeth.

The attached hospital known as the Seth Tarachand Ramnath Ayurvedic Hospital has 175 beds (64 medical, 60 surgical & 51 maternity) and has a well equipped operation theatre, a Pathological Laboratory, an X-ray department and an out-patient department treating 300 patients daily. It has its own pharmacy, manufacturing both Ayurvedic and Allopathic medicines.

B. J. MEDICAL COLLEGE, POONA

Dean : Dr. C. L. Modi, F.R.C.S.

Professor of Anatomy : Dr. B. M. Desai, M.S. (Bom.), F.C.P.S. (Bombay).

CAMP EDUCATION SOCIETY

Poona 1.

Life members: G. P. Sohoni, Hon. Secretary, Camp Education Society and Headmaster, C.E.S. High School, Poona 1.

V. K. Shrotriya, Head Master, R. D. High School, Poona 2.

COLLEGE OF AGRICULTURE

Poona.

Principal, A. A. Menon, B.Sc. (Agri.) (Hons.), Bom., B.Sc., M.Sc. (Agri. Eng.), Illinois, U.S.A.

COLLEGE OF ENGINEERING

Poona

Principal, G. V. Vartak, B.E. (Civil), M.I.E. (India).

CO-OPERATIVE TRAINING COLLEGE

(All India Centre)

5, B. J. Road, Post Box No. 32, Poona 1.

Principal, P. M. Chengappa, Dip. Econ., C.H.D. (Manch.), F.R.E.S. (Lond.).

DECCAN EDUCATION SOCIETY

Poona

The object of the Society is "to facilitate and cheapen education by starting, affiliating and incorporating at different places, as circumstances permit, schools and colleges under private management or by any other ways best adapted to the wants of the people." The Society has now 33 life members.

Chairman of the Council and the Governing Body :—H. G. Gharpurey, M.A., I.C.S. (Retired); *Secretary :*—Prof. V. V. Apte, M.Sc. Fergusson College, Poona.

The Society's Institutions are the following :—The Fergusson College, Poona : *Principal*—Prof. S. V. Kogekar, B.Sc. (Econ.) (Lond.); The Willingdon College, Sangli : *Principal*—Prof. N. V. Vaidya, M.A.; The Brihan Maharashtra College of Commerce, Poona : *Principal*—Prof. N. A. Mavlankar, M.A., LL.B.; The D. E. Society's Bombay College : *Principal*—Prof. M. G. Bhate, M.A., B.Sc. (Lond.); Chintamanrao College of Commerce, Sangli : *Principal*—Prof. D. A. Dhabholkar, M.A.; The New English School, Tilak Road, Poona 2 : *Superintendent*—Prof. P. N. Virkar, M.A., B.T., T.D. (Lond.); The New English School, Ramanbag, Poona : *Superintendent*—Prof. P. S. Joshi, M.A., B.T.; The New English School, Satara : *Superintendent*—Dr. D. N. Gokhale, B.A. (Hons.), Ph.D., B.T.; Maoji Madhavji High School, Umbargaon : *Chairman, Standing Committee*—Prof. D. D. Vadekar, M.A.; Dravid High School, Wai : *Chairman, Standing Committee*—Dr. V. N. Dhavale, M.A., D.Phill. (Oxon.); Ahilyadevi High School for Girls, Holkar Wada, Poona : *Chairman, Standing Committee*—Prof. N. R. Kulkarni, M.Sc.; The Navin Marathi Shala, Poona : *Chairman, Standing Committee*—Dr. T. G. Mainkar, M.A., Ph.D.; Justice M. G. Ranade Balak Mandir, Poona : *Chairman, Standing Committee*—Dr. T. G. Mainkar, M.A., Ph.D.; *Technical* Institute (attached to Fergusson College), Poona : *Chairman, Standing Committee*—Dr. V. A. Patwardhan, M.Sc., Ph.D.

The total number of students in the institutions of the Society exceeds 14,000.

D. E. SOCIETY'S BRIHAN MAHARASHTRA COLLEGE OF COMMERCE

Poona 4.

Principal : N. A. Mavlankar, M.A.

FERGUSSON COLLEGE

Poona

Principal.—S. V. Kogekar, B.A., B.Sc. (Econ.) (Lond.).

GANDHARVA MAHAVIDYALAYA

Academy of Indian Music.

495, Shanwarpeth, Poona 2.

Principal : Prof. D. G. Marathe; *Vice-Principal :* Prof. P. R. Pandit; *Secretary :* Prof. L. N. Ichalkaranjikar.

LAW COLLEGE

Poona

Principal :—Ganapati Vishnu Pandit, M.A., LL.M.

MAHARASHTRA EDUCATION SOCIETY'S COLLEGE OF ARTS AND SCIENCES

Poona 4.

Principal : Prof. M. N. Bhat, M.A., L.T.

NOWROSJEE WADIA COLLEGE

Poona 1.

Principal.—P. R. Damle, M.A., LL.B.

PROGRESSIVE EDUCATION SOCIETY

Shivajinagar, Poona 5.

The society's institutions are : The Modern High School was started in 1934; The "Prathamik Vidyamandir" is a primary school; The Sir Sassoon David Hostel and The Girls' High School.

QUEEN MARY'S TECHNICAL SCHOOL FOR DISABLED INDIAN SOLDIERS

Park Road, Kirkee

Patron :—The President of the Indian Republic.

Superintendent :—Col. Dracup, I.M.S. (Retd.). Training is free as are food, accommodation and clothing. Allowance of Rs. 12 p.m. in addition to pension. Free railway warrants. Journey expenses from home and back.

SHIKSHANA PRASARAKA MANDALI

Sir P. College Bldgs., Poona 2.

The Mandali (Society) now conducts the following institutions :—

Nutan Marathi Vidyalaya Marathi Shala, Poona; Nutan Marathi Vidyalaya High School, Poona; Sir Parashurambhau College, Poona; Haribhai Deokaran High School, Sholapur; Mimamsa Vidyalaya, Poona; Ramanarain Ruia College, Bombay; Ramniranjan Anandilal Podar College of Commerce and Economics, Bombay; Tilak College of Education, Poona; Sharirik-Shikshana Vidyalaya, Poona; S.T.C. Institute, Poona; Vinaykumar Ramniwas, Ruia Mook-Badhir Vidyalaya, Poona; Nutan Marathi Vidyalaya Shishu-Shala, Poona; Nutan Marathi Vidyalaya Girls' Primary and Secondary School, Poona; Department of Extension Services Project, Poona; Shree Vidyalaya High School and Primary School, Shreepur (Dist. Sholapur); Nutan Marathi Vidyalaya Marathi Shala, Sholapur.

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SHRI SHIVAJI PREPARATORY MILITARY SCHOOL
Poona 5

The School, which was founded in September 1932, is a member of the Indian Public Schools' Conference. Admission is open to boys of all castes and creeds, from the age of 5 to 14 years. There is a Montessori Section, a Primary School consisting of four standards, and the Secondary School which prepares the boys for the Bombay* State's S.S.C. examination. Training is also given to prepare the boys for the U.P.S.C. examination for entry into the N.D.A. The School has 450 boys. The Bombay Government* has endowed three full scholarships every year for the School and the Union Govt. scholarships for public Schools are also tenable here. Terms begin in June and November.

The School has extensive playgrounds covering 25 acres. There is a riding school, hockey, football and cricket fields, a swimming pool, tennis courts, and a miniature rifle range. The School runs a (Junior) National Cadet Corps.

President :—H. H. The Chhatrapati Maharaja of Kolhapur.

Principal :—N. L. Khanolkar, M.A.

SIR PARASHURAMBHAU COLLEGE
Poona 2

Principal : Prof. S. G. Hulyalkar, M.A. (Lond.).

TILAK COLLEGE OF EDUCATION
Poona 2.

This college prepares students for the B.Ed. and M.Ed. examinations of the Poona University. It also provides guidance for research students working for the Ph.D. degree.

Principal : N. V. Patankar.

LITERARY, SCIENTIFIC AND OTHER INSTITUTIONS

BHANDARKAR ORIENTAL RESEARCH INSTITUTE
Poona 4.

The Institute was inaugurated on the 6th of July 1917, the 80th birthday of late Dr. Sir R. G. Bhandarkar. Its objects are to publish critical editions of texts and original works bearing on Oriental antiquities, to provide an up-to-date Oriental library, to train students in the methods of research and to act as an information bureau on all points connected with Oriental studies. The valuable library of Dr. Sir R. G. Bhandarkar, which he had bequeathed to the institute, is now located in the central hall of the Institute. Since April 1918 the Government of Bombay* have transferred to the custody of the Institute the unique collection of nearly 20,000 manuscripts together with a maintenance grant of Rs. 3,000 a year. Manuscripts from this collection are lent out to scholars in all parts of the world. Government have likewise entrusted to the Institute a grant of Rs. 18,000 a year for the publication of the B.S.S. and the Government Oriental Series (the latter including, amongst others, Dr. Kane's History of Dharmashastra in five Volumes). The Institute has also started a series called the Bhandarkar Oriental Series in which several works have been already published and others are in progress. The Institute has undertaken to edit Mahabharata critically at the initiation of the late Raja of Aundh who donated a grant of Rs. one lakh for that purpose. The Institute has also received so far about Rs. 33,615 from the trustees of the Mahabharata publication fund, London, earmarked for the publication of the Virata, Udyoga and Karna parvans. More than three-fourth of the work on the critical edition has been completed. On 25th March 1944, the Institute inaugurated its Mahabharata printing department with a view to expediting the printing of the Mahabharata edition. The institute issues a journal called *Annals* of the Bhandarkar Oriental Research Institute published normally four times a year. It also held under its auspices the first oriental conference on the 5th, 6th and 7th of November 1919 under the patronage of Sir George Lloyd and the presidency of Sir R. G. Bhandarkar.

Hony. Secy., Dr. R. N. Dandekar. *Curator* : Dr. P. K. Gode.

BHARATA ITIHASA SAMSHODHAKA MANDALA, POONA
1321, Sadashiva Peth, Poona 2.

Founded in 1910 by the late V. K. Rajwade and Sardar K. C. Mehendale and registered under Act XXI of 1860 in 1916 with the object of collecting and conserving historical materials in their broadest sense, erecting suitable buildings for preserving and exhibiting them, publishing such materials and other works of historical and cultural interest and generally to encourage and foster critical study of, and research in, Indian history and culture. Possesses the best collection of Persian and Marathi historical records owned by any public society. Has a collection of about twenty-two thousand manuscripts and over a 1,100 old Indian paintings now housed in a special wing. Maintains coin cabinet and an armoury of old weapons. Has a section for copper-plates, sculptures, archaeological finds, library of general, historical and rare books. Holds weekly and annual meetings where notes and papers based on original documents are presented, discussed and afterwards published. The Poona City research section of the Mandala does research on the city and publishes the findings. Has published several volumes of original historical letters and other historical and literary works whose total number exceeds 102. Conducts a quarterly journal devoted to research running into 39 volumes. Has done some excavation work at Karad and got finds of the 2nd Century B.C.-2nd Century A.D. Work done mostly in Marathi. Celebrated the silver jubilee by calling the first All-India Modern History Congress in 1935 and was to celebrate its golden jubilee in 1960-61. Has been receiving some annual grants from the Governments of Maharashtra and India. In recent years the two Govts. and the University of Poona have helped the Society for its building scheme and for its eight cataloguing, compilatory and publication schemes out of which one viz. the Detailed Chronology of Maratha History is likely to last for fifteen years and will require a minimum expenditure of a lakh of rupees.

President : Malojirao Naik Nimbalkar ; *Vice-Presidents* : S. B. Dhavale, Sardar G. B. Patwardhan and Raja S. R. Panta Sachiva of Bhor ; *Chairman* : Mahamahopadhyaya Prof. D. V. Potdar, B.A. ; *Secretaries* : Prof. G. H. Khare, S. N. Joshi ; *Secretary & Treasurer* : G. N. Mujumdar.

CENTRAL TRAINING INSTITUTE FOR INSTRUCTORS
Aundh Camp (Poona).

Principal : G. D. Tawney, B.E. (Mech.), A.M.I.E. ; *Registrar* : N. Natarajan, B.Sc. (Hons.) ; *Senior Master, Principles of Teaching* : E. G. Menon.

D. A. APTE MEMORIAL INSTITUTE
C/o B.I.S. Mandal, 1321, Sadashiv Peth, Poona 2.

President : M. M. Prof. D. V. Potadar ; *Secretaries* : Prof. R. V. Oturkar, D. V. Kale.

DECCAN COLLEGE POST-GRADUATE AND RESEARCH INSTITUTE
Yeravda, Poona 6.

The institute is a constituent recognised institute of the Poona University. The property vests in the Deccan College Poona Trust created by the Government of Bombay* in 1938. Its administration is vested in a Council of Management consisting of three ex-officio members and nine others nominated by Government. The Vice-Chancellor, Poona University, is the ex-officio Chairman of the Council.

The Institute conducts post-graduate research in Linguistics and History having in all twenty-one chairs in these two subjects. In the department of Linguistics, the institute has embarked upon a monumental project of preparing a Dictionary of Sanskrit on Historical Principles comparable to the great Oxford English Dictionary. Fundamental training in field methods and descriptive linguistics is also being given through organising of summer and winter schools of linguistics. In the department of History, Prehistoric Archaeology, Caste Surveys and Anthropometric work are some of the principal features.

The Institute publishes its researches in its Bulletin issued about four times a year and in the Monograph, Dissertation and Handbook series, as well as the *Yak*—a special bulletin of the Sanskrit Dictionary Department from time to time.

Director : Dr. S. M. Katre, M.A., Ph.D. (Lond.).

Jt. Director :—Dr. H. D. Sankalia, M.A., LL.B., Ph.D. (London).

FEDERATION OF DEFENCE SCIENTIFIC WORKERS
C/o A.S.W. (O.E.), 16, Jogalekar Quarters, Poona 4.

President : N. B. Datar ; *Secretary* : C. B. Joshi ; *Treasurer* : B. W. Sohoni.

FILM INSTITUTE OF INDIA
Chiplunkar Road, Poona-4.

Nature of Body : Technical Education. The objects of the Institute have been described in the article " Film Industry."

* Bilingual.

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The Govt. of India have set up a Committee to advise the Ministry of Information and Broadcasting on all matters of policy regarding the institute. The Minister for Information and Broadcasting is the Chairman of the Committee and the Principal of the Institute the Secretary.

Controller : S. Y. Ranade, I.A.S.
Principal : G. Jagirdar.

INDIAN BUDDHIST SOCIETY
207, Ghorpadepeth, Poona 2.
(*Head Office :* 7, Ferozeshah Road, New Delhi).

Aims : the propagation of the Doctrine of the Blessed Buddha throughout the world ; removal of the bitter inequalities among men ; translating and publishing in Indian languages the Buddhist teachings and books in Pali literature ; foundation of Buddhist monasteries.

President : P. N. Rajabhoj, M.P. ; *General Secretary :* Madhukar Pipalayan, M.A.

INDIA CHILD EVANGELISM FELLOWSHIP
2, Jubilee Road, Poona 1.

General Secy. and Director for N. India : Miss M. Barden ; *Director for Maharashtra :* Miss E. Eastling ; *Directors for S. India :* Miss Joy Oxenham, Miss Agatha Martens.

INSTITUTE OF ARMAMENT STUDIES
Kirkee, Poona 3.

Dean : Air Cdre O. P. Mehra, I.A.F. ; *Director of Studies (Army) :* Col. R. Janardhanam ; *Director of Studies (Air) :* Gp. Capt. B. S. S. Bedi ; *Director of Studies (E & S. W.) :* Gp. Capt. V. Ganeshan.

INSTITUTION OF ENGINEERS (INDIA)
Saraswathi Sadan, 1287, Shivajinagar, Rani Laxmi Chowk, Poona 5.

KAIVALYADHAMA SHREEMAN-MADHAVA-YOGA-MANDIRA SAMITI
Kaivalyadhama, Lonavla (C.R.).

Institute for teaching of and research in Yoga. Aided by Union and State Governments.

LINGUISTIC SOCIETY OF INDIA
C/o Deccan College, Poona 6.
(Head Office at Ashutosh Building, Calcutta).

President : Dr. P. L. Vaidya, M.A., D.Litt. Paris ; *Treasurer :* Dr. S. M. Katre, M.A., Ph.D. (London) ; *Secretary :* Dr. M. M. Patkar, B.A., LL.B., Ph.D.

LOCAL SPIRITUAL ASSEMBLY OF THE BAHA'IS OF POONA
P.O. Box No. 8, National Hotel, Opp. Railway Station, Poona 1.

LORD REAY MAHARASHTRA INDUSTRIAL MUSEUM
Poona 2.

The affairs of the museum are managed by a Board of Trustees, which was incorporated by Bombay* Act No. XXXII of 1947 and consists of 15 members.

TECHNICAL AND INDUSTRIAL LIBRARY : This has, on regular file, 200 periodicals and contains about 7,900 books. It is recognised by the Government of India, as an inspection centre for Patent literature. It has over 65,000 Patent specifications.

INDUSTRIAL SECTION : This Section consists of exhibits on industrial subjects such as iron and steel, oils and soap, textiles, paper, glass, minerals, asbestos, etc.

The Museum brings out several useful booklets about the various displays and allied subjects and several leaflets and booklets are collected and distributed gratis.

The Museum organises small but educationally important exhibitions.

Curator : G. B. Sardesai, B.Sc. (Hons.), B.Sc. (Ind. Chem.).

MAHARASHTRA KARKHANDAR SANGH
82/5, Sadashiv, P.B. No. 533, Poona 2.

President : N. G. Apte ; *Secretary :* N. K. Paranjape.

MAHARASHTRA MUDRAN SHALA
1786, Sadashiv Peth, Poona 2.

Chairman : Dr. G. S. Khair, M.A., Ph.D. ; *Superintendent :* D. D. Gangal, M.Sc.

MAHARASHTRIYA KALOPASAK
Appa Balawant Chowk, Poona 2.

President : Mahamahopadhyaya Datto Vaman Potdar ; *Hon. Treasurer :* B. T. Pandit ; *Hon. Secretaries :* P. R. Vaze and S. S. Marathe.

POONA UNIVERSITY EMPLOYMENT BUREAU
Ganeshkhind, Poona 7.

Chairman : Prof. D. G. Karve, M.A.

VAIDIKA SAMSODHANA MANDALA
Tilak Smarak Mandir, Tilak Road, Poona 2.

A literary institution for the study, research and publication of Vedic and Iranian literature.

President : Dr. M. S. Aney ; *Vice-President :* MM. D. V. Potdar ; *Secretary :* N. S. Sontakke ; *Jt. Secretary :* C. G. Kashikar.

VIRUS RESEARCH CENTRE (INDIAN COUNCIL OF MEDICAL RESEARCH)
20A, Wellesley Road, Poona 1.

Offg. Director : Dr. Charles R. Anderson.

BENEVOLENT INSTITUTIONS

CENTRAL HOSPITAL FOR MENTAL DISEASES
Yeravda, Poona 6.

Dr. Shanti Sheth, M.B.B.S., D.P.M., B.M.S., Class I, *Superintendent* (Res. Tel. : 2514).

HINGNE STREE-SHIKSHAN SAMSTHA
Hingne Budruk, Poona 4.

Founded in 1896 by Dr. Dhondo Keshav Karve for social and educational work.

Hingne Centre :—Mahilashram High School.
Parvatibai Training College for Women.
Anandibai Karve Primary School.
Mahilashram (4 units), hostels. Udyam Mandal.
Poona : Nursery School ; Nursery Training Institution ; Mahila Niwas (Hostel for Working Women).
Satara : High School for Girls.
Wai : High School for Girls.
Annual Expenditure : Rs. 4,55,000.
Deficit of about Rs. 75,000 to be met from contributions.
Secretary, B. D. Karve.

INDIAN INSTITUTE OF SOCIAL ORDER
13, Boat Club Road, Poona 1.

Aims and Objects :—To spread the social teachings of the Catholic Church; to provide theoretical and practical training for social workers.

Its diploma in social service is now recognized by Government.

Director : J. B. Moyersoen.

MAHILA KALA MANDIR
623/33, Sadashiv Peth, Deshmukh Wadi, Poona.

Superintendent : Smt. Indirabai Pendse.

NAGARIK SANGHATANA SAMITI
Ration Godown, Lahore Shed No. 2, Poona 5.

A social welfare organization interested in slum welfare.

President.—Mrs. N. D. S. Captain.
Gen. Secretary.—Mrs. Dwarki Motwani.

POONA ANATH VIDYARTHI GRIHA
1786, Sadashiv, Poona 2 and Panchvati, Nasik.

POONA SEVA SADAN SOCIETY
613-614, Sadashiv Peth, Poona City.

The principal objects are :—(1) to impart to women instruction of a religious, literary, scientific, medical and industrial character and (2) to widen the range of their knowledge by various agencies and to make them self-reliant. The Society has a hostel in Poona accommodating about 200 women. There are 8 different departments. The total number of women on the rolls at the various centres of the society is about 3,000.

SASSOON HOSPITALS
Poona.

Dean, B. J. Medical College & Sassoon Hospitals : Dr. C. L. Modi, F.R.C.S., M.M.S. Cl. I.

Civil Surgeon, Poona : Dr. D. S. Gogte, M.S., M.M.S. Cl. I ; *Resident Medical Officer :* Dr. M. A. Peshimam, M.B.B.S., M.M.S. Cl. II.

* Bilingual.

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SERVANTS OF INDIA SOCIETY, POONA 4.

Its objects are to train national missionaries for the service of India and to promote, by all constitutional means, the interests of the Indian people. Its present strength is 19. The Society has its headquarters in Poona with branches at Madras, Bombay, Allahabad and Nagpur, and other centres of work at Calicut in Kerala State; Shendurjana in Madhya Pradesh; Ambala in the Punjab (India); Cuttack and Raigada in Orissa.

The Society's work is primarily political but it has always laid equal emphasis on social, economic, educational, labour and depressed class activities and has worked in these fields.

The Society also does tribal welfare work in the Mirzapur Dist. (U.P.), Madras, Orissa and in Malabar * on a considerable scale. During recent years several members of the Society have paid special attention to rural reconstruction, including rural education.

Dr. H. N. Kunzru is the President, and S. G. Gokhale, the Secretary.

ASSOCIATIONS ETC.

CENTRAL WATER AND POWER RESEARCH STATION

No. 20, Bombay Poona Road, Poona 3.

Director: M. G. Hiranandani.

MAHARASHTRA ASSOCIATION FOR THE CULTIVATION OF SCIENCE

Law College Bldgs., Poona 4.

Director: Dr. G. B. Deodikar.

Biological laboratories of the Association have research departments in Botany, Cytogenetics, Plant Breeding, Mycology, Entomology, Microbiology and Agricultural Chemistry.

MAHARASHTRA STATE HORTICULTURAL DEVELOPMENT ASSOCIATION

Horticultural Section, College of Agriculture, Poona 5.

President: Dr. G. S. Cheema, D.Sc., I.A.S.; *Secretary:* D. G. Shembekar; *Technical Adviser:* N. Gopalkrishna.

MAHARASHTRA STATE POULTRY ASSOCIATION

C/o Poultry Development Officer, Government of Maharashtra, Poona 3.

MAHARASHTREEYA MANDAL

Tilak Road, Poona 2.

The Mandal conducts Physical Training Classes, Swimming Classes, Rifle Club and Coaching Classes for entry to the National Defence Academy.

President.—Dr. R. P. Paranjpye.

MAHRATTA CHAMBER OF COMMERCE AND INDUSTRIES

Tilak Road, Post Box No. 525, Poona 2.

The Mahratta Chamber of Commerce and Industries, founded in 1934, is an institution representing the economic, commercial and industrial interests of Maharashtra. It has its representatives among others on the Board of Trustees of the Lord Reay Maharashtra Industrial Museum, Poona, State Industries Advisory Council, Zonal Railway Users Consultative Committee of S. Rly. and Cen. Rly., Poona University Court, Advisory Committee on Provident Fund, etc. Members numbering 720 of the Chamber are drawn from different parts of Maharashtra and a few from Gujarat, Karnatak and W. Bengal. Every year the chamber awards G. S. Parkhe Industrial Merit prizes and organises the G. P. Ogale Memorial Lectures on economic problems from eminent persons in the field. It also conducts a Marathi Magazine "The Sampada."

The Chamber has recently promoted the Poona Division Productivity Council which assists in carrying on its Productivity drive.

President, S. L. Kirloskar; *Chairman*, D. V. Potdar; *Vice-Presidents*, G. P. Upadhye; M. S. Parkhe; *Treasurer*, S. S. Marathe; *Hon. Secretaries*, A. R. Bhat, V. M. Deval; *Secy.:* B. R. Sabade; *Asstt. Secy.:* D. N. Deshpande.

THE POONA MERCHANTS' CHAMBER

185, Bhavani Peth, Poona 2.

President: Uttamchand Bhikamdas Pokarna; *Vice-President:* Narayandas Govinddas; *Secretary:* Chandanmal Kesharchand Pungalia; *Jt. Secretary:* Kuberdas Dayashankar.

POONA PAPER TRADERS' ASSOCIATION

844, Sadashiv Peth, Poona 2.

President: V. K. Thakur; *Vice-President:* R. H. Desai; *Hon. Secy.:* G. V. Desai; *Treasurer:* N. M. Gandhi.

THE POONA PRESS OWNERS' ASSOCIATION LTD.

'Mudrak Bhavan,' 1078, Sadashiv, Poona 2.

President: S. R. Date; *Vice-President:* B. V. Gore; *Secretaries:* M. D. Tatke, V. G. Mate.

THE POONA BLIND MEN'S ASSOCIATION

82, Rasta Peth, Poona 2.

Finance Committee Chairman: G. Rashid; *Workshop Chairman:* N. Merchant; *Hon. Secy.:* T. S. Bamankar; *Development Officer:* G. G. Kale.

SPINNING AND WVG. MILLS

RAJA BAHADUR MOTILAL POONA MILLS, LTD. (formerly Poona Cotton & Silk Manufacturing Co., Ltd.), *Agents:* Mukundlal Bansilal & Sons, Hamam House, Hamam Street, Fort, Bombay. Mills at 5, Raja Bahadur Motilal Road, Poona 1.

RAJA RAGHUNATHRAO MILLS, Owners: Maharashtra Textiles, Ltd. Office on Mill premises. Mills at Bhor, P.O. Bhatgar, Dist. Poona.

SHRI LAXMI TEXTILE MILLS LTD., *Agents:* Bhor Mercantile Agency Ltd. Office on Mill premises. Mills at Bhatgar, Dist. Poona.

* Kerala.

RATNAGIRI DISTRICT

Headquarters: Ratnagiri.

Talukas: Dapoli, Mandangad, Khed, Chiplun, Guhagar, Sangameshwar, Ratnagiri, Rajapur, Devgad, Sawantwadi, Malwan.

Petas: Lanja, Vengurla, Kankavli, Kudal.

The length of the District is about 230 miles, and the breadth between 30 and 40. The District may be described generally as rocky and rugged. Near the coast the land consists of a bare elevated plateau, intersected by numerous creeks and navigable rivers flowing between steep hills. These rivers have along their banks the chief sea-ports and almost all the fertile land of the District. The banks of the rivers produce fine crops of rice in the rains, and of pulse in the cold weather and some of the inland valleys exhibit the utmost fertility even though the soil is, as a rule, poor and barren. The District is densely populated and a large proportion migrate to Bombay in the fair season. The hill slopes are flooded with plantation of Alphonso and other mango grafts. Alphonso mango, the king of fruits, is exported on a very large scale to Bombay and other markets and forms the main money crop of the District. Ratnagiri, the headquarters town, is open and faces the sea. There is no railway connection, and communication is by steamer with Bombay and by motor with Kolhapur 82 miles away. With the construction of the Bombay-Konkan-Goa road by bridging all the rivers and creeks on the way, Ratnagiri is connected with Bombay by direct bus service *via* Chiplun, Mahad, Dharamtar, etc. This is the only main line of communication in the rainy season and will be turned into a national highway and cement concreted. This transport service is now taken over by the State.

The area of the District is 5,013 sq. miles. Population: 1,824,343 (1961 Census—Provisional) (Males 816,546; females 1,007,797).

EDUCATIONAL INSTITUTIONS

R. P. Gogate College, Ratnagiri.
Industrial Training Institute, Ratnagiri.
School of Industry, Rajapur.
Topiwala Memorial-cum-Industrial Centre, Sawantwadi.
Akhil Maharashtra Sharirik Shikshan Mandal, Malwan (S.T.C., C.P.Ed. Course).
Rajapur High School, Rajapur (Multi-lateral).
N. A. S. D. Vidyalaya, Walaval (Agricultural Course).
Alfred Gadney High School, Dapoli (Agricultural Course).
Mafatlal Gagalbhai High School, Devgad (Typography).
New English School, Devrukh (Woodwork Course).
Sunitadevi Adhyapika Vidyalaya, Malwan (Training College—Women).
Training College for Men, Ratnagiri.
Mahila Vidyalaya, Ratnagiri (Home Science).
R. B. Shirke High School, Ratnagiri (Commerce Course).
Phatak High School, Ratnagiri (Fine Arts—Multipurpose).
Patwardhan High School, Ratnagiri (Technical Course).
Sangeet Vidyalaya, Ratnagiri.
Matru Mandir, Devrukh.
Shri Ganesh Brahman Vidyalaya, Ratnagiri.

TRADE ASSOCIATIONS

Shirke Brothers Transport Service, Ratnagiri.
Hotel Owners' Association. President—B. G. Karkare.
Merchants' Association, Ratnagiri.
Niravde Talavde Multipurpose Co-operative Society, Sawantwadi.
Sindhudurga Fisheries Co-operative Society, Malwan.
Sagve Co-operative Fruit Cultivation Society, Sagve.

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SANGLI DISTRICT

Headquarters :—Sangli.

Sub-Divisions :—Miraj, Khanapur.

Talukas and Mahals :—Miraj, Tasgaon, Walva, Khanapur, Jath, Shirala (Mahal).

The area and the land revenue of the District are 3,297 square miles and Rs. 22,50,000 respectively. Population : 1,229,640 (1961 Census—Provisional) (Males 628,607 ; females 601,033).

The climate of the District is generally dry, and healthy, with an average rainfall ranging from 15 to 25 inches.

The Krishna, the Verala, the Warana, and the Agarani are the four important rivers flowing through the District. The soil on the banks of these rivers is very fertile, yielding rich sugarcane crops. Starting from the river Nandhi in the Khanapur Taluka is a canal called Chickli.

The principal crops grown in the District are jowar, millets, pulses, wheat, ground-nut, turmeric, tobacco, sugarcane and a little cotton and rice and some oil-seeds.

Sangli, which is the headquarters of the District, is an important centre of trade and commerce specially for tobacco, groundnuts, turmeric, jaggery, chillies, ghee, and cotton trade. It has ginning, weaving and spinning mills, groundnut, turmeric, iron and steel factories represented chiefly by firms like Kirloskar Bros. at Kirloskarwadi, Dandekar Bros. and Bhide & Sons at Sangli. The town has also oil mills and ice factory. It is also known for its silver, copper and brassware and gold ornaments. There are cloth mills. Bidi making is another big Industry.

Besides, Sangli is a big centre of forward-delivery transactions in groundnut-kernel. Sangli Spices and Oil-seeds Exchange Ltd. is the only Government recognised centre for forward delivery contracts in turmeric in India. It has a Chamber of Commerce and a number of trade Associations.

The Government of India has opened a warehouse at Sangli to store agricultural produce. One Co-operative Sugar Factory (the first of its kind in this District), named "Shetkari Sahakari Sakhar Karkhana", with a working capital of more than Rs. 1¼ crore was started in 1958 at Sangli.

Being a railway junction, Miraj is now commercially developing. It has a weaving mill, an oil mill, an ice factory and industrial works called The Yeshvant Industrial Works. Another town Malgaon is famous for its beetle-leaves, which are exported throughout the year to all parts of India.

Sangli, Madhavnagar and Miraj especially which are in close proximity to one another are now rapidly developing into important educational and industrial centres in Southern Maharashtra. The Raja of Sangli has established at Sangli the "Adhytma Vidya Mandir", an institution solely devoted to the study of Philosophy, Religion and allied pursuits. In 1947 the Maharashtra Technical Education Society, Poona, started at Sangli the New Engineering College which is now named as Walchand College of Engineering, Sangli.

Because of the Mission Hospital (Wanless Hospital), run by the American Presbyterian Mission and founded by the late Sir William Wanless, Miraj has become one of the most up-to-date and efficient medical centres in India. The Sir William Wanless Tuberculosis Sanatorium, at Wanlesswadi, is now the largest among first grade sanatoria in India. Besides the T. B. Sanatorium there is a Leprosarium at Miraj. The Miraj Medical Centre also runs a Nursing School and a Compounding School. The Deccan Education Society of Poona has opened Chintamanrao College of Commerce and Maharashtra Technical Education Society of Poona has opened Atreya Ayurvedic College at Sangli.

DECCAN MANUFACTURERS' ASSOCIATION

"Rose Cottage", opp. Mal Bungalow, Sangli.

President : N. W. Gurjar ; *Vice-President* : Sheth Bhavarlal Ladda; *Hon. Secretaries* : S. B. Bhirangi, R. R. Bhide.

DISTRICT INDUSTRIAL CO-OPERATIVE ASSOCIATION LTD. SANGLI

President : B. A. Daftardar ; *Vice-President* : G. K. Olekar.

CHAMBER OF COMMERCE, SANGLI

President : S. N. Borgave ; *Secretaries* : G. N. Shah, S. F. Gandhi.

MIRAJ MEDICAL CENTRE, MIRAJ

There are specialised departments of general surgery, orthopædic surgery, chest-surgery, medicine, infectious diseases, pediatrics, cancer, psychiatry, eye-ear-nose and throat and urology in the Wanless Hospital. *Medical Superintendent*, Dr. W. A. Cecil.

School of Nursing (1897) :—Training in general nursing and midwifery under Bombay Nursing Council.

SPICES AND OILSEEDS EXCHANGE LTD., WAKHAR BHAG, P. BAG No. 105, SANGLI

Chairman : G. K. Negandhi.

Vice-Chairmen : Babulal S. Shah and B. C. Laddah ; *Secretary* : M. R. Purandare, B.A., LL.B.

WALCHAND COLLEGE OF ENGINEERING, SANGLI

The Walchand College of Engineering conducts classes for Civil, Mechanical and Electrical Engineering up to B.E. Degree and Diploma classes in all the three branches of Engineering. The College is fully equipped and has accommodation for about 280 students on the College premises. *Principal* : V. K. Kelkar.

WILLINGDON COLLEGE, SANGLI (S.M.C.)

The College, founded (1919) conducted by the Deccan Education Society, Poona and affiliated to the Poona University, provides instruction in all major subjects for graduate and post-graduate courses in the Arts and Science Faculties. It has more than 1,300 students (1,175 boys and 189 girls) on the rolls and has a hostel for boys (115) and girls (45).

Principal : N. V. Vaidya, M.A.

Y.M.M.E. SOCIETY, SANGLI

The Society conducts a full-grade High School, a Primary School, a Rifle Club and a social and cultural centre called 'Sanskar-Mandir' which publishes a monthly in Marathi called *Sanskar*.

THE SIR WILLIAM WANLESS TUBERCULOSIS SANATORIUM, WANLESSWADI

The Sanatorium is situated in the western Deccan two miles west of Miraj and three miles east of Sangli, and is 160 miles south of Poona on the metre gauge section of the Southern Railway. It has its own railway station Wanlesswadi—just at the main gate and a Posts and Telegraphs Office, Wanlesswadi, with trunk telephone facilities within its premises.

Up-to-date surgical and medical treatment, including all types of pulmonary desections, is given for all types of tuberculosis to patients irrespective of caste, creed or nationality. Heart Surgery and Surgery of the esophagus are also done here.

Director of Surgery and Medical Superintendent : Dr. A. G. Fletcher, Jr.

Secretary : D. S. Gorde. *Nursing Supdt.* : Mrs. S. Martin.

RICHARDSON LEPROSY HOSPITAL

Miraj Mission Hospital P.O., Miraj.

Hony. Medical Supdt.: A. G. Fletcher, Jr., M.D., F.A.C.S., F.R.C.S. ; *Consultant in Orthopaedic Surgery* : J. R. Donaldson, M.D., F.A.C.S.; *Medical Officer* : W. B. Shiralkar (M.P.) ; *Supdt.* : Rev. S. D. Davidson, H.C.F.

COTTON MILLS

JANATA SPINNING MILLS PRIVATE LTD.—Agents : V. R. Velankar & Sons Private Ltd., Office on Mill premises. Mills at Sangli.

MADHAVNAGAR COTTON MILLS PRIVATE LTD.—Managing Agents : The Budhgaon Trading Co. Private Ltd., Office on Mill premises. Mills at P.O. Madhavnagar (Southern Rly.).

MARATHE TEXTILE MILLS.—Proprietors, B. K. Marathe & Sons, Office on Mill premises. Mills near Railway Station, Miraj.

SHREE BALAJI SPINNING & WEAVING MILLS.—Mg. Partner : Bhawarlal Chhogalal Ladda, Office on Mill premises. Mills at Shivajinagar, Sangli.

SHRI GAJANAN WEAVING MILLS.—Partners : V. R. Velankar and R. V. Velankar. Office on Mill premises. Mills at Sudamapuri, Sangli.

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SATARA DISTRICT

Headquarters : Satara.

Talukas and Mahals : Wai, Satara, Koregaon, Khatau, Karad, Patan, Jaoli, Man, Phaltan, Khandala, Mahableshwar.

The area of the District is 4,041 sq. miles. Population : 1,427,020 (1961 Census—Provisional) (Males 696,064 ; females 730,956). The language spoken is Marathi.

The chief agricultural produce are jawar and bajri. Others include ragi, wari, wheat, rice and pulses. Cash crops which are a minor item include tobacco, groundnut and sugar-cane.

Forests in the Sahyadri range have considerable store of timber and fire-wood. Sandalwood and bamboo are occasionally found.

Government have undertaken the Koyna river project envisaging the construction of a gigantic Dam close to Helwak village (Patan Taluka) water from which can be used for agricultural purposes by people from Satara, Sholapur and Bijapur Districts and for generating electricity for industrial purposes.

This being a martial District, Free Boardings are run by Government at Satara and Karad for the sons and dependents of the Defence Forces in the Army, Navy and Air Forces. 'The After Care Association' and 'The Soldiers' Board' do useful work under the supervision of the Collector.

There is a large engineering concern manufacturing farm implements, machine tools, and textile machinery at Satara Road Station. Another engineering concern has been established at Udyamnagar near Karad while the one at Karad proper has been expanded with State aid. At Ogalewadi near Karad are the well-known glass works. The Sugar Works at Phaltan also deserve special mention. The Plastic Products of India, Ltd., Satara, a new industry, in the Deccan, has secured State aid.

INSTITUTIONS, ETC.

ARYANGLA VAIDYAK MAHAVIDYALAYA
6, Shukrawarpeth, Satara City.

President : Ayurvedic Prasarak Mandali : S. H. Sathe ; *Chairman, Managing Council, A. P. Mandali :* Dr. V. V. Athalye, A.V.P. ; *Principal, A. V. Mahavidyalaya :* Dr. S. V. Athalye, M.B.B.S.

DHARMAKOSHA MANDAL
P.O. Wai.

Aims : To conduct research in ancient Indian religion, philosophy and culture and edit and publish encyclopaedic works such as Dharmakosha, Mimamsakosha, etc.

Editor-in-Chief : Laxman Shastri Joshi, Tarkateerth.
Secretaries : Vasudeo Shastri Konkar ; M. S. Sathe.

PRATAPSINH HIGH SCHOOL, SATARA

It is a multi-purpose high school teaching agricultural, technical and commercial subjects. A farm is attached.

RAYAT SHIKSHAN SANSTHA, SATARA
(Educational Society for Masses)

Objects & Scope :—To spread education, primary, secondary and higher, among rural masses and particularly poverty-stricken backward and Scheduled Class communities, on the basis of self-help and as far as possible free of charge.

It conducts three Arts, Science & Commerce Colleges and one Arts & Commerce College, one College of Education, 55 full grade High Schools, 84 Middle Schools, 13 Primary Schools, 65 Cosmopolitan Boardings, 6 Primary Training Colleges, 6 Sanskar Kendras and two Balak Mandirs, one Sheep Breeding Research Centre, and 12 other institutions in eleven districts of Maharashtra State and in one district of Mysore State.

Budget of the Sanstha for the Year 1960-61—Rs. 83,75,000·00.

Chairman : R. M. Nalavade ; *President :* Y. B. Chavan ; *Hon. Secy. :* I. M. S. Mulla.

NAGAR VACHANALAYA, SATARA

There are at present 4,873 English, 7,045 Marathi, 805 Hindi, and 126 Sanskrit books. The Library subscribes to a large number of periodicals. There is a special section for children. Study room for college students has also been started.

THE SATARA EDUCATION SOCIETY, SATARA

The Society runs two full-fledged High Schools, the Popular English School, Satara, and Shri Laxmi Narayan English School, Khatau and a Model Primary School at Satara. Pre-Primary class was opened in July 1957. Provision for Technical and Commerce education has been made in P.E. school since June 1954 and July 1958 respectively. The School buildings at Satara and Khatau are under construction.

SATYABHAMABAI KALE STREE SHIKSHANA MANDIR, SATARA

The Kanyashala (a high school for girls) and Mahilasadan (adult classes) are managed by the Association. There are about 900 girls in the High School studying for the S.S.C.

Bal Manohar Mandir, a pre-primary School, has been attached to this School. A Hindi Shikshak Sanad is also conducted.

Superintendent.—P. V. Gole, B.Sc., B.T.

THE SHIKSHAN MANDAL, KARAD

Maintains (1) The Tilak High School, Karad. (2) Kanya Shala, Karad. (3) The Nutan Marathi Shala. (4) Bal Vidyalaya, Ogalewadi. From 1958 the Mandal maintains "The S.T.C. Institute".

SHRI SITA RAMCHANDRA VAIDIC DHARMA PRASARAK MANDAL, SATARA

The trustees run an "AGNIHOTRA" (Sacred Fire Temple) and "Ved Parayan Mandir" (place for daily recitation of the Vedas) by learned Vaidic priests. A small school for coaching students, with stipends, in higher Vedanta Philosophy is maintained under the guidance of learned pandits. *Board of Trustees :*-N. A. Charankar, M.A. (*Chairman*).

THE VYAYAM MANDAL, SATARA

It is a Govt. recognised Physical training registered institution availed of by students and adults.

MAHABLESHWAR

Mahableshwar, 75 miles from Poona, is called the queen of the hill stations in Maharashtra. It is situated on one of the great slopes of the Sahyadri range at an elevation of 4,700 feet above sea-level. During the 8 months from October to May the climate is most agreeable. By day the temperature varies between 80 and 86, while the nights are cool and pleasant. But during the monsoon the rainfall is so heavy, the average being about 250 inches a year, that the place is almost uninhabitable.

It is now possible for people of moderate means to go to the hill station for a comparatively inexpensive holiday and change in the newly opened Holiday Camp set up by the Maharashtra Govt. The Camp is located in the Government House property on the way to the Bombay Point and one-room, two-room and three-room accommodation is available to the public at purely nominal rent. The stay of visitors at the Camp is limited to one week so that the facilities offered are taken advantage of by as many people in need of a change as possible.

The Camp is served by a vegetarian canteen, tap water and electric lighting. It is normally thrown open during the months October to May, and applications for accommodation have to be addressed to the Executive Engineer, Poona Division, Poona.

HOTELS

Hotels are open only eight months in the year and are closed during the monsoon.

Aram Lodging & Boarding House (Vegetarian) ; The Club (Non-Vegetarian) ; Dream Land Hotel (Vegetarian) ; Fredrick Hotel (Non-Vegetarian) ; Guest House (Vegetarian) ; Happy Home (Vegetarian) ; Krishna Bhuvan Hotel (Vegetarian) ; Paradise Hotel (Vegetarian) ; Race View Hotel (Non-Vegetarian) ; Rippon Hotel (Vegetarian) ; The Ritz (Non-Vegetarian) ; Fountain Hotel (Non-Vegetarian) ; Dinu Hotel (non-vegetarian).

House Agents and "Times" Agents : Adurjee & Bros. (Estd. 1896)

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PANCHGANI

Panchgani is a well known hill station in Satara North District, 63 miles from Poona. It is 4,300 feet above sea-level and has a cool, salubrious and comparatively dry climate. The average rainfall is about 80 inches a year. Panchgani is thus a well known sanatorium.

Panchgani is habitable throughout the year, and there are excellent shops for provisions and oilman stores. The town is electrified and the roads are well lighted.

Panchgani can be reached from Poona from where there is regular bus service.

The town has a large and up-to-date tuberculosis sanatorium—Bel Air Sanatorium.

SCHOOLS

Panchgani is famous for its schools. They all have their own buildings with laboratories, dormitories and hospitals.

St. Joseph's Convent High School for Girls ; Kimmins High School for Girls ; Sanjivan Vidyalaya ; Billimoria High School ; Union High School ; New Era School for Girls ; St. Peter's High School ; Young Zoroastrian School for Girls.

ST. PETER'S BOYS' HIGH SCHOOL
Panchgani.
Principal :—O. D. Bason, M.A.

SHOLAPUR DISTRICT

Headquarters : Sholapur.

Talukas : Sholapur South, Sholapur North, Barsi, Pandharpur, Sangola, Malshiras, Karmala, Akalkot, Mangalwedha, Mohol, Madha.

From time to time the District suffers severely from drought, to which its situation and the treeless surface of the country expose it. The Indian Council of Agricultural Research, therefore, opened at Mulegaon, a village about 4 miles to the east of Sholapur, a Dry Farming Research Station.

The languages spoken are mainly Marathi and also Telugu and Kannada.

Area : 5,811 square miles. Population : 1,858,512 (1961 Census—Provisional) (Males 960,589 ; females 897,923).

LOCAL SPIRITUAL ASSEMBLY OF THE BAHA'IS OF SHOLAPUR
Post Box 39, Vasant Villas, Station Road, Sholapur.

DAYANAND COLLEGE, SHOLAPUR
Principal : Bhagwan Dass, M.A.

DAYANAND COLLEGE OF COMMERCE, SHOLAPUR
Principal : T. B. Narasimhachari.

DAYANAND COLLEGE OF EDUCATION, SHOLAPUR.
Principal : K. S. Mardikar.

DAYANAND KASHINATH ASHWA HIGH SCHOOL, SHOLAPUR.
Head-Master : M. V. Nakhate.

DAYANAND COMMITTEE'S R. J. HIGH SCHOOL, KARKAMB, DISTRICT SHOLAPUR.
Head-Master : K. B. Dabhane.

THE TEXTILE ASSOCIATION (INDIA) LTD. (SHOLAPUR BRANCH)

THE LAKSHMI COTTON MFG. CO., LTD.
President : E. A. Dodwell.
Chairman : G. G. Chakradeo ; *Secretary :* G. T. Kulkarni.

WASSOODEW BABAJEE NOWRUNGAY ORPHANAGE AND FOUNDLING ASYLUM, PANDHARPUR
Superintendent : V. S. Javere.
Secretary's Office :—Prarthana Samaj, Girgaum, Bombay.

COTTON MILLS

JAM SHRI RANJITSINGHJI SPG. & WVG. MILLS CO., LTD., Managing Director : Seth Bairuratan Damani, 11, Bank Street, Fort, Bombay. Mills at Station Road, Sholapur.

JAYASHANKAR MILLS, BARSI LTD., Agents : Zadbuke & Co., Office on Mill premises. Mills at Barsi Town.

LAKSHMI COTTON MFG. CO., LTD., Managed by Board of Directors, 9, Wallace Street, Fort, Bombay. Mills at Sholapur.

LOKAMANYA MILLS (BARSI), LTD., Managing Director : B. P. Sulakhe. Office on Mill premises. Mills at Arangaon Road, Barsi Town.

NARSINGGIRJI MFG. CO., LTD. (Unemployment Relief Scheme), On lease from Official Liquidator, Mr. J. P. Maroo runs the Mill on behalf of Government. Mills at Station Road, Sholapur.

RAJEN (TEXTILE) MILLS PRIVATE LTD. (formerly Barsi Spinning & Weaving Mills Ltd.), Managed by Board of Directors, Office on Mill premises. Mill at Barsi Town.

SHOLAPUR SPG. & WVG. CO., LTD., Managed by Board of Directors, Standard Building, Fort, Bombay. Mills at Station Road, Sholapur.

VISHNU COTTON MILL, LTD., Secretaries, Treasurers and Agents : The Bombay Co. Private Ltd., 9, Wallace Street, Fort, Bombay. Mills at Sholapur.

THANA DISTRICT

Headquarters : Thana.

Talukas and Mahals : Thana, Kalyan, Bhiwandi, Shahapur, Murbad, Wada, Jawhar, Bassein, Palghar, Dahanu, Mokhada Peta.

Area : About 3,685 sq. miles. Population : 1,653,327 (1961 Census—Provisional) (Males 862,425 ; females 790,902).

The languages spoken are Marathi, Gujarati and Urdu. The Christians of Salsette and Bassein, a very numerous community, are the descendants of the converts of St. Francis Xavier.

In the north-east the hills are covered with wood, and the valleys are but partially cultivated. The villages are seldom more than scattered groups of huts, and the population consists mainly of uncivilised aboriginal tribes, many of whom still wander from place to place as they find water or to suit their fancy.

Thana District is fast developing into a prominent industrial area. Hundreds of acres of land are being converted into sites for factories. Scores of factories have already been set up particularly along the railway track and the Bombay-Agra and Bombay-Poona Roads. Mulund village, which was in Thana Taluka and is now part of Greater Bombay, has been developed into a modern suburb with all the usual amenities.

Bhiwandi, a Taluka town nine miles from Thana situated on the Bombay-Agra Road is noted for handloom and power loom fabrics. The "Bhiwandi" variety of Indian saris is very popular among Deccani women. The town is mostly inhabited by Momins and in some parts of the town every house has a spinning wheel. Bhiwandi Taluka is also famous for its timber and charcoal trade.

Kalyan, the biggest and the most thickly populated town in the District, is 34 miles from Bombay and is a junction on the Central Railway's north-east and south-east sections. "Ullhasnagar" the largest refugee township in Maharashtra is situated in Thana District two miles from Kalyan near the Ulhas River. The township is designed to accommodate 90,000 people.

The main produce of the District is rice which is of superior Kolamb variety.

Dahanu and Bassein Talukas are specially famous for fruit garden and the bulk of Bombay's fruit supply comes from these areas. Bassein plantains and betel leaves are very much in demand.

At Thana, Bhyandar and Belapur there are extensive salt works.

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The chief articles of export from Thana District are paddy, rice, vegetables, salt, betel-leaves, plantains, bricks, grass, firewood, charcoal, lime, fish fresh or dried, timber, coconuts, mangoes, flowers, saris, handloom fabrics, woollen cloth and milk.

Tansa and Vihar lakes and the Vaitarna river which are the main sources of Bombay's water supply are situated in Thana District and are connected with Bombay by a special trolly line.

The Thana District Prison is one of the major prisons in the State and there is also a mental hospital on the outskirts of Thana town.

Thana, the chief town, 21 miles north of Bombay, is as already mentioned a station on the Central Railway. The Fort, the Portuguese Cathedral, a few carved and inscribed stones, and several reservoirs are now the only signs that Thana was once an important city. Bassein, on the Western Railway, contains the famous ruins of the ancient Portuguese dominion in Salsette.

There is a 10-year development plan prepared by the Thana Municipality.

Following the bifurcation of Bombay State, 16 villages of Umbergaon Taluka in Thana District, were transferred to Gujarat State and the remaining 26 villages were merged with Dahanu Taluka.

The Thana District Local Board has been reconstituted with a total number of 56 councillors.

INSTITUTIONS

Marathi Granth Sangrahalaya, Thana.
Remand Home, Bhiwandi.
Industrial School, Bordi.

HOSPITALS

Civil Hospital, Thana.
Mental Hospital, Thana.

INDUSTRIES

Western India Match Factory, Ambernath.
Aluminium Factory, Kalwa, Thana.
Raymond Woollen Mills, Thana.
Wadia Woollen Mills, Thana.
Castle (Woollen) Mills, Thana.
National Machinery Manufacturers Ltd., Kalwa, Thana.
National Rayon Corporation, Mohone, near Kalyan.
Century Rayon Corporation, Shahad, near Kalyan.
Amar Dye-Chem. Factory, Shahad, near Kalyan.
Sandoz Products Private Ltd., Thana.
Krishna Silicate and Glassworks, Thana.
National Dyes Ltd., Thana.
Hindustan Wire Melting Co., Thana.
Ravi Industries Ltd., Thana.
Lion Pencils Private Ltd., Andrewnagar, Ghodbunder Road, Thana.
Indian Dyestuff Industries Ltd., Kalyan Camp No. 1.
K. T. Steel Industries Ltd., Kalyan Camp No. 1.
Dharamsi Morarji Chemicals, Ambernath.

The giant-sized "Roche" Basic Vitamin A Plant is under construction at Balkum in Thana.

SPINNING AND WVG. MILLS

ABDULSAMAD HAJILAL MOHAMMAD WEAVING FACTORY —Owner: Khan Sahib Abdul Samad Hajilal Mohammad. Office on Mill premises. Mills at Bhiwandi.

SECUNDER SARI MILLS—Owner: Abdul Quadri Secunder Patel. Office on Mill premises. Mills at Sowadagar Mohulla, Bhiwandi.

WARDHA DISTRICT

Headquarters: Wardha.

Tahsils, Sub-Divisions: Wardha, Hinganghat, Arvi.

The area of the District is 2,429 sq. miles. Population: 631,367 (1961 Census—Provisional) (Males 321,728; females 309,639). The languages spoken are Marathi and Hindustani.

Wardha is noteworthy in that it has been the seat of a number of Gandhian institutions concerned with village uplift and the ideals of self-sufficiency and self-service.

Wardha has black cotton soil and the most important cash crops grown are jawar and cotton. Though there are rivers likeWainganga, agriculture depends on rain. There is thus an elaborate programme today for sinking new wells and deepening old ones. There are pressing and ginning mills in the District and also textile mills.

ASSOCIATIONS

JAMNALAL BAJAJ CENTRAL RESEARCH INSTITUTE FOR VILLAGE INDUSTRIES
Maganwadi, Wardha

Aims and Objects:—The Research Institute was established in 1955 under the First Five Year Plan for research and investigation for the improvement of the tools and techniques of village industries.

It is under the Research Committee consisting of the nominees of the Council of Scientific and Industrial Research and of the Khadi and Village Industries Commission. The Institute is in charge of the Chairman of the Research Committee. Senior scientists at the Institute are:—

Deputy Director: Dr. M. Sadashiva Rao; *Head, Engineering Deptt.:* Jashbhai J. Patel; *Senior Scientific Officers:* Dr. Mrs. P. Annapurnadevi Rao, Dr. R. K. Shrivastava.

COTTON MILLS

PULGAON COTTON MILLS LTD. (Formerly Pulgaon Cotton Spinning, Weaving & Manufacturing Co. Ltd.). Managing Agents: Hardayal Sons, 59, Apollo Street, Fort, Bombay. Mills at Pulgaon.

RAI BAHADUR BANSILAL ABIRCHAND SPG. & WVG. MILLS. Owners: Shrimati Radhadevi N. Daga and others. Office on Mill premises. Mills at Hinganghat.

RAI SAHEB REKHCHAND MOHOTA SPG. & WVG. MILLS PRIVATE LTD. Mg. Director: Seth Mathuradas Mohota, Hinganghat. Mills at Hinganghat.

YEOTMAL DISTRICT

Headquarters: Yeotmal.

Tahsils: Yeotmal, Darwha, Kelapur, Wuni, Pusad.

The area of the District is 5,246 sq. miles. Population: 1,097,973 (1961 Census—Provisional) (Males 556,987; females 540,986). The language spoken is Marathi.

The staple foodgrain is jawar; other foodgrains are wheat and pulses. As elsewhere the most profitable cash crops are cotton and oilseeds. Forests cover a larger area than in any other District in the State and yield considerable quantity of timber and fuel. The principal industry is the preparation of cotton for the market. Exports include raw cotton, oilseeds, cereals and pulses, and the chief imports include cereals and pulses, salt and sugar.

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MANIPUR

Chief Commissioner, Jagat Mohan Nath Raina. Area : 8,628 sq. miles ; Population : 7,78,318 ; Density : 90·21 ; Capital : Imphal ; Strength of Territorial Council : 32 including two nominated members.

Names of Districts with population : Manipur Plains District 5,14,027 ; Hills District 2,64,291.

Names of Districts with names of taluks and their population within brackets : Manipur Plains District (Imphal East and Imphal West 2,99,863; Thoubal 1,35,133 ; Jiribam 18,143) ; Hills District (Mao 32,628 ; Churachandpur 63,276 ; Tengnowpal 27,651 ; Ukhrul 48,475 ; Tamenglong 36,554 ; Sadar Hills 37,564).

The 1961 census counting was not complete at the time of writing this.

Manipur bounded on the east and south by Burma and on the north and west by the Naga Hills and the Cachar District of Assam, is a highly strategic territory on the eastern frontier of India. Two land routes from Burma pass through its territory. It was formally proclaimed a Chief Commissioner's Province of the Indian Union on the 15th of October, 1949, and became a Part C State when the Constitution of 1950 came into force. Following the reorganization of States in India, Manipur became a Union Territory from 1st November 1956 and it is now administered as a Union Territory under the provisions of the Union Territories Act, 1956.

In the Territorial Council there are 32 members comprising 19 Congress members, Communists 4, Socialist Party 6 and Independents 3. Two are nominated.

The Congress enjoys absolute majority.

Seven hundred square miles of the Territory form a central valley, 2,600 feet above sea-level, which is shut in on all sides by extensive hill tracts at places over 6,000 feet, covering the rest of the Territory. The climate varies from temperate in the valley to cold in the high hills. The rainfall on the average is 65 inches in the year.

The main population is "Meiteis" inhabiting the valley with some 40 tribes and sub-tribes known by the generic names of Nagas and Kukis. Though a number of different dialects are spoken in the Territory, Manipuri and English are the official languages. The people are carefree and healthy, with a passion for religious festivals involving community dances in which both sexes join.

There are about 1,102 refugee families in Manipur.

The soil is fertile. Rice is the principal crop.

The area under cultivation is about three lakh acres.

Handloom weaving is a popular industry throughout the Territory and Manipuri cloth of various picturesque and indigenous designs is in demand throughout India and even outside.

There are 5 colleges, 57 high schools, 320 M.E. & U.P. schools and 1,662 primary and junior basic schools. The total number of students for the year ending 31st March 1961 was 1,43,134.

There are 17 hospitals and 67 dispensaries, two touring and mobile dispensaries, and four maternity and child welfare centres.

The outlay for Third Plan is Rs. 1,287·56 lakhs for various Development Schemes. The Schemes are connected with Agriculture, Co-operation and Community Development, irrigation and power, industries and mining, transport and communication, social service, housing, labour and labour welfare, welfare of backward classes and scheduled tribes etc.

Budget—1961-62

(*See 'Late Particulars'*)

Institutions

MANIPUR DANCE COLLEGE, IMPHAL

Chairman : J. M. N. Raina, Chief Commissioner, Manipur.

Secretary : S. Gourhari Singh, Secretary (M), Manipur Administration.

MYSORE STATE

Area : 74,122 sq. miles (Surveyor General of India's figure).

Population : (1961 census) (Provisional) : 23,547,081 (males 12,021,248 ; females 11,525,833). Percentage increase 1951-61 : 23·44. Sex ratio : 935 females for 1,000 males. Density : 332 per sq. mile. Literacy : 25·3 per cent.

The New Mysore State came into being on Nov. 1, 1960 as a result of the reorganisation of the States. Special efforts have been made to achieve administrative integration and uniform laws are being introduced where varied enactments prevailed.

Capital : Bangalore.

The State is divided into four Divisions for administrative purposes.

The Divisions as well as the Districts which make up each Division are shown below. The names of the District headquarters are given in brackets after the names of the Districts.

1. Bangalore Division : Bangalore (Bangalore), Kolar (Kolar), Tumkur (Tumkur), Chitaldurga (Chitaldurga), Bellary (Bellary).

2. Mysore Division : Mysore (Mysore), Mandya (Mandya), Hassan (Hassan), Chikmagalur (Chikmagalur), Shimoga (Shimoga), South Kanara (Mangalore), Coorg (Mercara).

3. Belgaum Division : Belgaum (Belgaum), Dharwar (Dharwar), Bijapur (Bijapur), North Kanara (Karwar).

4. Gulbarga Division : Gulbarga (Gulbarga), Bidar (Bidar), Raichur (Raichur).

There are 19 Districts, 172 Talukas, 288 towns and 25,880 inhabited villages.

The Mysore Village Panchayat and Local Boards Act, 1959, came into force on November 1, 1959. Under the Act, a village or a group of villages with a population of 1,500, has an elected village panchayat, every taluk an elected taluk board and every district a district development council, consisting of the Deputy Commissioner, M.P.s, members of the State Legislature, presidents of taluk boards and Government Officers. Reservation for women and scheduled castes, has been made at all levels.

Certain developmental activities will be assigned to the above newly constituted bodies. Elections for village panchayats and taluk boards were held simultaneously from January 15, 1960 and the elected bodies together with the district development councils have begun to function.

The separation of the judiciary from the executive has been completed. All revenue officers presiding over Magistrates' Courts have been replaced by judicial officers.

AGRICULTURE

Land utilisation : (1957-58 : latest available) area according to : (*i*) professional survey : 47,475,000 acres ; (*ii*) village papers : 46,169,000 acres.

Forest : 6,690,000 acres ; Land put to non-agricultural uses 1,836,000 acres ; barren and uncultivable land 2,185,000 acres ; Fallow lands 3,311,000 acres ; Net area : 25,082,000 acres.

Figures for area under principal crops are given below in thousand acres with yield in thousand tons within brackets. They relate to the year 1958-59.

Cereals—

Rice 2,362 (1,293) ; Jowar 6,484 (998) ; Ragi 2,588 (815) ; Wheat 740 (640). Total cereals 14,504 (3,422).

Pulses—

Gram 383 (440). Total pulses 3,070 (300).

Oilseeds—

Groundnut 2,029 (537) ; Sesamum 173 (14). Total oilseeds 2,438 (574). Sugar-cane 141 (392) (Gur).

Fibres—

Cotton 2,537 (441) (lint†).

Yield per acre of principal crops in lbs. for 1958-59 is as follows : Rice 1,291 ; Ragi 737 ; Jowar 422 ; Wheat 204 ; Gram 271 ; Groundnuts 373 ; Sesamum 188 ; Gur 6,236 ; Cotton 57.

† One thousand bales of 392 lbs. each.

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The bulk of the population subsists on rice and millets and wheat forms only a supplementary part of the diet. The total available quantity of rice in the State is 9·70 lakh tons per year. Calculated on the basis of a minimum requirement of 12 ozs. per adult per day, Mysore is deficit to the extent of 2·6 lakh tons of rice. The State is self-sufficient in millets when there is an average harvest.

Target of additional food production fixed for the 2nd Plan period : 5·1 lakh tons.

Exclusive of major and minor irrigation programmes operated by the Public Works Dept., the outlay on the Grow More Food Scheme has been : 1956-57, Rs. 56·75 lakhs ; 1957-58, Rs. 63·585 lakhs ; 1958-59, Rs. 82·996 lakhs ; up to end of December 1959, Rs. 48·986 lakhs.

Estimated additional production in lakh tons : 1956-57, 0·542 ; 1957-58, 1·020 ; 1958-59, 0·870 ; 1959-60, 1·760.

Total estimated food production in 1959-60 is 35 lakh tons (including pulses and millets).

There are 44 tractors and 40 bulldozers at the disposal of the State Agricultural Department which hires them to farmers. In 1959-60, 1,256 acres were reclaimed.

Up to the end of 1959-60, an additional area of 1,463 acres was brought under pepper cultivation, 500 acres under cardamom cultivation. Yield per acre of sugarcane and the area under sugarcane were increased to 27 tons per acre and 1·30 lakh acres. Two thousand four hundred acres were brought under fruit cultivation.

The Government provided Rs. 3,20,211 for flood relief measures.

Agricultural research stations have been started for the further development of coconut, cardamom and sugarcane. The State Research Council has been reconstituted wherein all research schemes and programmes are discussed and finalised.

There are two agricultural colleges, one each in Dharwar and Hebbal (Bangalore). One hundred students were admitted to each of these colleges in 1959-60. A veterinary college has been started in Hebbal (Bengalore), the number of students being 212.

Average wholesale prices for 1959 (*in rupees per maund*) : Paddy (medium) 13·16 ; Rice, II sort 21·55 ; Jowar 14·12 ; Ragi 13·39 ; Wheat 20·96 ; Gram 18·89 ; Gur, II sort 18·73 ; Groundnut (shelled) 18·81 ; chillies (dry) 87·01 ; Coffee (per cwt.) Rs. 212·19.

Consumer price index for working class :

Centre	Base period	Index for 1959
Bangalore	July 1935—June 1936	419·5
Mysore	—do.—	421·5
Kolar Gold fields ..	—do.—	441·0
Bhadravati	—do.—	410·1

Banking development in Mysore State (1959) : Indian Joint Stock Banks : 437 ; Indian scheduled Banks : 350 ; Indian non-scheduled Banks : 87 ; Foreign Bank : 1.

Animal Husbandry : Forty-one new rural veterinary dispensaries were opened in 1959-60, bringing the total to 474. There are 40 sheep and wool extension centres. Poultry extension centres number 16.

A plan to start a big-scale dairy in Bangalore with the help of the UNICEF is being implemented.

Fisheries : (For Statistical details see main article on Fisheries).

Prohibition : Out of the State's 19 districts, 14 districts are dry. The areas where the prohibition law does *not* operate are : Gulburga and Raichur Districts, Mysore District (excluding Kollegal taluk), Mandya and Bangalore Districts (except Channapatna and Ramanagaram taluks). The intension of the Government is to introduce prohibition in all parts of the State in phases.

The State derived Rs. 3,14,40,150 as excise revenue in 1959-60.

COMMUNITY DEVELOPMENT

By the end of October 1960, there were 137 blocks, covering 19,738 villages and nearly 114 lakhs of rural population. Under the re-phased programme, the entire State is to be covered by October 1963.

The main emphasis of the programme is on agricultural production, the other activities being better communications, housing, health and sanitation facilities, education, animal husbandry, small-scale industries and welfare of women and children.

The following are some of the achievements : Area covered by the Japanese method of cultivation 1,263,475 acres ; Improved seeds distributed 967,560 maunds ; fertilisers distributed 6,061,848 mds. ; No. of compost pits dug 352,798 ; Improved animals supplied 3,564 ; Improved birds supplied 99,554 ; Drinking water wells constructed 7,558 ; Kutcha roads built 10,193 ; Adult literacy centres 7,150 ; Mahila Mandals 1,608 (membership : 34,734) ; No. of cooperative societies 8,956 (membership : 997,986).

Expenditure : (Rupees in Lakhs). Upto 1957-58, 297·19 ; 1957-58, 133·10 ; 1958-59, 200·86 ; 1959-60, 243·60 ; Total since inception : 874·75.

People's contribution since inception till June 1960 Rs. 181·90 lakhs.

(See under article on Community Development Projects).

LAND REFORMS

Mysore is yet to evolve a uniform law to bring about significant land reforms in all parts of the State. A Land Reforms Bill was introduced in the State Assembly on November 29, 1958 by the Revenue Minister. It was referred to a Select Committee.

A net annual income from land of Rs. 3,600 (equivalent to the yield of three family holdings) was proposed as the basis for a ceiling on land holdings in the Bill.

The new Bill is to replace five separate tenancy laws existing in various parts of the State.

The Bill is generally modelled on the recommendations of the Mysore Tenancy and Agricultural Land Laws Committee, headed by Mr. B. D. Jatti, in 1957, with some changes in the light of the opinions expressed in the Legislature and the suggestions made by the Central Committee on Land Reforms of the Planning Commission.

It has been calculated that about 2·5 million acres will be transferred to tenants under the provisions of the Bill. Compensation payable to land-owners will amount to Rs. 37·5 crores.

There are 24·6 lakh holdings in the State comprising 267·8 lakh acres. The average size of a holding is 10·87 acres. The largest number of holdings is the size-group of 2·5 to 5 acres. Of the total area of 267·8 lakh acres, 206·4 lakh acres are under personal cultivation. About 61·4 lakh acres (or 22·95 per cent) are cultivated by tenants. The percentage of land under tenant cultivation varies from district to district. Hassan District has the smallest proportion (2·84 per cent) under tenant cultivation and South Kanara the highest (65·86 per cent).

According to the 1951 census, 71·2 per cent of the total population are dependent on agriculture in the areas now comprising Mysore State. About 47·7 per cent of them are principally owner-cultivators, 9·3 per cent agricultural labourers and 3·4 per cent rent receivers. The Jatti Committee report says that only 28 per cent of the people working on land are landless and the owner-cultivators are more than 13 times those who rent the land.

A ceiling of 27 standard acres has been proposed in the report of the Joint Select Committee. Additional acreage is allowed for families with more than five members and certain types of land like factory-operated sugarcane farms and plantations are exempted from the limit. The Planning Commission is understood to be of the view that the ceiling is too liberal.

The Bill as reported by the Select Committee was expected to be taken up during the Assembly Session scheduled to begin on July 19, 1961.

Live stock and poultry (1956) : (figures in thousands) : Cattle 89,66 ; Buffaloes 26,69 ; Sheep 40,59 ; Goats 25,84 ; Horses & ponies 44 ; Other live stock 1,85,66 ; Poultry 76,68.

Veterinary institutions (1959-60) : Taluk dispensaries 163 ; Rural dispensaries 286.

FOREST (1957-58)

Forest area : 13,556·68 sq. miles (latest available).

The forests are rich in teak, rosewood, venteak, tumkino, white cedar, ebony, etc. Rich forest areas hitherto untapped are also present with bamboos and soft wood species, potential sources of raw material for paper, rayon, plywood and matchwood industries. The revenue of the forest department is about Rs. 3·50 crores per annum.

IRRIGATION

The total area irrigated is 1,829,208 acres. Of this the area irrigated by Government canals is 396,363 acres, by private canals 11,579 acres, by tanks 809,393 acres, by wells 319,654 acres, other sources 292,259 acres.

At the end of the first Plan, it was estimated that about 1·7 million acres were irrigated in the State. Another 700 thousand acres will be brought under irrigation by the end of the Second Plan period thereby bringing the total to 2·40 million acres, 1·14 million acres under minor irrigation and 1·26 million acres under major and medium irrigation. This will increase the percentage of area irrigated to net area sown to 10. An area of 1,02,000 acres was benefited from minor irrigation projects and about 1,93,000 acres under major and medium irrigation projects during the first three years of the 2nd Plan. About 42 per cent of the total outlay of Rs. 33 crores for major and medium irrigation scheme was spent in the first three years of the 2nd Plan.

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Large Irrigation Projects in Execution or just completed

Name of the Project.	Location.	When started.	Completion.	Area to be irrigated in Acres.	Total cost in lakhs.	Estimated rise in output after completion in Tons.
Tungabhadra Project[1]						
(a) Left Bank Channel	Raichur District.	1945	1962	5,80,000	3,100·00	39,708
(b) —do— Right Bank Channel[2] (Low Level).	Bellary District.	1945	1959	92,346	64·44	5,000
Rajolibanda Diversion Scheme[3]	Raichur District.	1947	1961	7,400	430·00	1,000
Bhadra Reservoir Project[4]	Chickmagalur District.	1947	1962	2,44,663	3,353·00	38,397
Tunga Anicut Project[5]	Shimoga.	1946	1959	21,500	231·12	6,467
Nugu Reservoir Project[6]	Mysore District.	1947	1959	20,000	299·85	10,000
Ambligola Reservoir Project	Shimoga District.	1947	1961	7,300	91·60	2,964
Naranapura Anicut	Chitaldurga District.	1952	1959	2,250	23·50	950
Kariyala Tank (Gayatri Reservoir) ..	Chitaldurga District.	1951	1960	2,050	29·50	1,118
(a) Kolchi Weir Project, I Stage[7] (b) —do— High Capacity Canal, II Stage.[7]	Belgaum District.	1949	1960	3,650 8,000	42·95 21·50	720 —
Ghataprabha, I Stage[8]	Belgaum and Bijapur Districts.	1949	1959	1,20,000	545·00	—
Ghataprabha, II Stage	Bijapur District.	1956	1965	1,78,000	1,318·00	—
Ramanahalli Tank	Bijapur District.	1954	1959	4,800	40·80	960[9]
Kalskap Tank	Bijapur District.	1953	1959	2,823	19·79	564
Areshankar Tank	Bijapur District.	1953	1959	3,059	21·67	611
Kabini Reservoir Project..	Mysore District.	1957	1963	30,000	320·00	5,000
Dharma Project	Dharwar District.	1957	1962	14,000	67·00	1,850
Chickhole Reservoir	Mysore District.	1957	1962	4,500	46·50	—

[1] Water was allowed for an area of 2,02,056 acres upto July 1960 of which 70,695 acres have been irrigated. [2] Water made available for 82,210 acres of which 50,000 acres were actually irrigated. [3] Total extent of area to be irrigated is 1·07 lakh acres of which 7,400 acres are in Mysore State limits. [4] Water has been allowed for an area of 31,304 acres of which 17,000 acres have been irrigated. [5] Water was allowed to irrigate 21,500 acres during 1956–57, but the actual area brought under cultivation is 21,000 acres. [6] Water has been allowed for the full ayacut of 20,000 acres of which 14,000 have been irrigated. [7] The canal is proposed to be extended at a cost of Rs. 21·50 lakhs to irrigate an additional area of 8,000 acres. [8] Area served with irrigation facilities for 82,500 acres upto end of June 1959, but the actual area irrigated is 20,210 acres. [9] Wheat 800 tons.

Total irrigation potential created upto March 1960: 4,32,999 acres. Total area irrigated upto March 1960: 2,05,030 acres. Percentage of utilization at the end of March 1960: 47·3.

There is a scheme for maintaining and repairing over 35,000 tanks of various sizes by levying an acreage cess not exceeding Rs. 5 per annum on the beneficiaries.

CO-OPERATION

Co-operation (1959): No. of societies: 12,596; Membership 1,871,406; Working capital (in thousand rupees) 705,279; Population covered in millions 22·48; No. of societies per one lakh inhabitants: 56·03; No. of members of primary societies per thousand population 83·24; Average working capital in rupees, per head of population 31·37.

The following are the number of the various types of societies and their membership respectively: State & Central Banks and Banking Unions: 24; 31,015; Central land mortgage banks 1; 99; Primary societies: Agricultural 7,216; 937,000; Non-agricultural 1,066; 305,000; Grain Banks 1,092; 78,748; Land mortgage banks 99; 68,801; Non-credit societies 3,098; 488,576; Number of regulated markets 121; Total value of turnover in thousand rupees 812,822.

ELECTRICAL POWER

So far (March 1960), 1,637 towns and villages have been electrified. Another 260 towns and villages were to be electrified by the end of March 1961. Another 800 towns and villages will be electrified during the III Plan period.

(See also under article on Electric Power Development).

Hydro-Electric Projects under Construction

Name of Project.	Location.	Commencement.	Completion.	Installed capacity.	Cost in crores of Rs.
Sharavathi Valley Project	15 miles from Talaguppa Rly. Station near Jog (Linganamakhi).	1956	1962 (I Stage)	178,200 Kw.(a)	39·65 (I Stage)
Bhadra Hydro Electric Project ..	18 miles from Bhadravathi (Lakkavalli).	1956	1961	33,200 Kw.(b)	3·8
Tungabhadra Hydro Electric Project Right Bank.	4 miles from Hospet Rly. Station.	1953	1961	36,000 Kw.(c)	1·44 (Mysore's share)
Tungabhadra Hydro Electric Project Left Bank.	3 miles from Munirabad Rly. Station (Mallapuram).	1955	1960	27,000 Kw.(d)	6·429

Estimated rise in output after completion is about 1,466 million units over the 1956–57 figure.

(a) 891,000 Kw. ultimate capacity. (b) 40,400 Kw. ultimate capacity. (c) Ultimate capacity 72,000 Kw. Two units of 9,000 Kw. installed and two more units being installed. (d) Ultimate capacity 36,000 Kw.

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Names of power stations now in operation, their location, installed capacity and production:

Name.	Installed capacity (Kw.).	Location.	1958–59 Production.
			Million units
Sivasamudram[1]	42,000	28 miles from Maddur Rly. Stn. towards South East.	121·000
Shimshapura[1]	17,200	28 miles from Madur Rly. Stn. towards South East.	92·000
Jog (M.G.H.E.[1] Works)	120,000	12½ miles from Talaguppa Rly. Stn. towards north.	616·000
Tungabhadra Hydro Elec. Works[1]*	9,000†	4 miles from Hospet Rly. Station.	
			(58–59) estimated for one year.
Mercara[2]	270	Mercara.	0·4
Somvarpet[2]	184	Somvarpet.	0·087
Virajpet[2]	304	Virajpet.	0·147
Kudige[2]	65	Kudige.	0·015
Gonikoppal[2]	80	Gonikoppal.	0·030
Raichur[2]	688	Raichur.	1·688
Gulbarga[2]	630	Gulbarga.	1·191
Yadgir[2]	431	Yadgir.	0·364
Bailhongal[2]	150	Bailhongal.	0·063
Guledgud[2]	400	Guledgud.	Starting.
Huksi[2]	400	Huksi.	0·508
Ilkal[2]	200	Ilkal.	0·07

[1] These are hydel stations. [2] These are diesel stations.

The following are some of the other diesel stations with the installed capacity in Kw.: Sandur 78 Kw.; Udipi 110 Kw.; Karkala 32 Kw.; Mangalore 1,284 Kw.

* Right Bank (Andhra and Mysore) Dam Site and canal stations. Mysore share 1/5th (only two units of 9,000 Kw. now in service).

† Mysore's share of 25 per cent.

The Second Plan aimed at an additional installed capacity of 74,600 kW. The expenditure during the 1st four years under this head amounted to Rs. 19·72 crores as against the total Plan provision of Rs. 27·56 crores.

Sharavathi Hydro-Electric Project: It is the biggest hydro-electric project of the country, located at 15 miles from Talaguppa Rly. station near Jog, within easy distance of load centres and benefiting Mysore State and ultimately parts of the neighbouring States of Maharashtra, Andhra, Madras and Kerala. Electricity produced in this Rs. 39·65 crore (first stage) scheme will be the cheapest in India. The foundation was laid on February 5, 1958. When the ten units that are proposed to be installed go into operation in four or five years the Sharavathi hydel station will produce 891,000 Kws. of power. The expenditure during 1956-60 of the Plan amounts to Rs. 10·05 crores and an outlay of Rs. 7·11 crores was proposed for 1960-61 for both civil and electrical works. It is expected that the Sharavathi Project will be commissioned by Dec. 1962.

LARGE-SCALE INDUSTRIES

Main large-scale industries in the State with location: Textiles (Bangalore, Davangere, Bellary, Mysore, Hubli, Gadag, Gokak, Gulbarga); Engineering (Bangalore, Harihar); Mineral and Metal (Bangalore, Bhadravati, Bellary, Kolar, Shimoga); Food, drink and tobacco (Bangalore); Chemicals, dyes, etc. (Bangalore, Mysore); Paper and printing (Bhadravati, Nanjangud, Dandeli, Mandya and Bangalore); Process relating to wood, stone and glass (all over the State); Process connected with hides and skins (Bangalore); Gins and presses (Davangere, Belgaum, Bellary, Dharwar, Gulbarga & Raichur); Fisheries (Mangalore, Karwar).

Major industries owned by the Union Government located in Bangalore: The Hindustan Machine Tools Ltd.; Bharat Electronics Ltd.; The Hindustan Aircraft Ltd., Bangalore; The Indian Telephone Industries, Bangalore.

Government Aided Concerns: The Radio & Electrical Manufacturing Co., Bangalore; The Mysore Lamp Works, Bangalore; The Mysore Paper Mills, Bhadravati; The Mysore Sugar Company, Mandya and The Mysore Industrial & Testing Laboratory Ltd., Bangalore; The Mysore Spun Silk Mills, Channapatna; The Mysore Chemicals and Fertilisers, Belagula; The Mysore Tobacco Co. curing centres at Mandya, Mysore, Kolar; The Mysore Stoneware Pipes and Potteries, Soladevanahalli, near Chikbanavar Railway Station; The Mysore Coffee Curing Works, Chikmagalur; The Mysore Chrome Tanning Co., Bangalore; The Mysore Lamp Works, Bangalore; Mysore Water Projects Ltd.; H.A.L. Post, Bangalore; Mysore Match Co. Ltd., Shimoga.

The main industries in Belgaum and Dharwar districts are textiles, food, drinks, tobacco and gins and presses. The textile industry supports a large number of workers. There are three textile mills in Dharwar and one in Belgaum.

In Gulbarga and Raichur districts, the major industries are (1) the Hutti Gold Mines Co. Ltd., (2) the Associated Cement Companies Ltd., Shahabad and (3) MSK Mills Ltd., Gulburga (Textiles).

Paper Mills: Apart from the three existing units at Bhadrawati, Nanjangud and Dandeli, licences have been granted in three cases for setting up paper factories at Belagora and Dharwar and a rayon viscos factory in N. Kanara Dt.

Cement: There are three units engaged in the manufacture of cement and these are located at Bhadrawati, Bagalkot and Shahbad. Licence has been granted for the starting of another factory at Ammasamdra in Tumkur Dt.

Sugar Mills: There are seven sugar mills at Mandya, Hospet, Munirabad, Kampti, Ugar, Pandavapura and Shimoga. Mill at Sangesswara in Belgaum Dt. was expected to go into production by 1960. Licences have been granted for the establishment of two more units at Gangavati and Mudhol.

The cashewnut industry is one of the most important both in North and South Kanara. In South Kanara it gives employment to about 5,500 workers. South Kanara produces 2,880 tons of nuts. Besides, about 9,000 tons of cashewnuts are imported from Africa for processing in the local factories.

The West Coast Paper Mills, a Rs. 5 crore self-contained unit for the manufacture of paper with a daily capacity of 60 tons, was inaugurated at Dandeli in North Kanara District on May 16, 1959.

Textiles (July 1960): Spinning Mills: 7; Composite mills: 11; No. of spindles 4,56,860; No. of looms 4,965; Average no. of workers employed (all shifts) 25,743; Approximate quantity of cotton consumed 6,53,191 cwts.; Yarn produced: 59,499 (thousand lbs.) (1958); Cloth produced: (on handlooms) 79,975 (thousand yards); Cloth produced (power loom) 4,541 (thousand yards); No. of cotton handlooms: 1,44,594 (1958); Woollen handlooms: 14,638 (1958); Silk handlooms: 7,929 (1958); No. of weavers co-operative societies: Cotton 347; Woollen 101; Silk 37.

Figures for 1959-60.

Gold Production at Kolar Gold Mining Undertakings: 47·72 lakh grams; Value: Rs. 5,09,69,000.

Silver produced at Kolar Gold Mining Undertakings: 3·37 lakh grams; Value: Rs. 60,000.

Figures for 1957-58:

Gold produced at Hutti Gold Mines: 5·04 lakh grams; Value Rs. 54,49,060.

Silver produced at Hutti Gold Mines: 41,215 grams. Value: Rs. 7,253.

Other minerals: Iron ore 10,72,528 metric tons; Manganese Ore 2,64,303 metric tons.

The Watch Factory to be started at Bangalore as a public sector project (as an adjunct to Hindustan Machine Tools) will be designed to manufacture about half a million full lever watches annually. The Bangalore factory would receive the collaboration of the Japanese firm, Citizen Watch Company.

NEW PAY SCALES FOR GOVERNMENT EMPLOYEES

The Government of Mysore announced on March 2, 1961, the introduction of new pay scale to its employees with retrospective effect from January 1, 1961.

They will entail an additional annual expenditure of Rs. 3·5 crores immediately. The sum will increase to Rs. 6 crores in about five years.

Some major features of the order are: 1. A merger of the present dearness allowance with pay and the consequent fixation of pay scales; 2. The introduction of a new scheme of dearness allowance and compensatory-cum-house rent allowance for low-paid employees; 3. An increase in the rate of dearness allowance to pensioners from Rs. 6 to Rs. 10 per month; 4. The fixation of minimum emoluments to clerks and Class IV employees of Rs. 90 and Rs. 60 per month respectively and; 5. An improvement in the pay scales of technical personnel working in Government departments.

LABOUR

Industries: (According to the census of manufacturing industries conducted in 1957): No. of factories 185; Persons employed 68,899; Productive capital (in thousand rupees) (fixed) 24,47,03; working 24,60,18; Wages & salaries (in thousand rupees): To workers: 5,11,62; To other than workers: 2,03,33; Non-cash benefits: 41,24; Cost of materials consumed: Rs. 3,48,732; Cost of fuel consumed: Rs. 37,620; Depreciation: Rs. 18,009; Value added by manufacture: Rs. 1,55,558; Ex-factory value of products & by-products including work done to others: 5,69,922.

Industrial production (1959): Pig iron & ferro alloys: 90,941 tons; Ingots & semis: 47,054 tons; Finished steel: 33,984 tons; Cement: 6,34,500 tons; Sugar: 92,530 tons; Paper: 22,314 tons; Vanaspati: 4,034 tons; Cotton Yarn: 6,41,99,000 lbs.; Cotton Piece-goods: 7,47,64,000 yards; crockery: 20,000 tons; Sulphuric acid (ordinary): 68,75,000 tons; Ammonium sulphate, 38,64,000 tons.

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Employment (March 1959)

State Govt. 1,41,178 ; Factory, (not available) ; Shops and commercial establishments, 49,105 ; No. of employment exchanges, 11 ; Registrations effected, 89,779 ; Placements effected : State Government, 7,966 ; Other Placements, 1,987 ; No. of applications on the live register, 51,954.

Labour absenteeism, monthly average for 1959 : No. of factories reporting : 48 ; Total no. of manshifts scheduled to work, 17,26,316 ; No. of manshifts absent, 2,40,013 (percentage 13·90) ; No. of late arrivals, 15,287 ; No. of strikes, 71 ; Workers involved, 24,370 ; Man-days lost, 74,252 ; No. of lock-outs, 15 ; No. of workers involved, 10,170 ; No. of lay-offs, 15 ; Workers involved, 33,255 ; Man-days lost, 2,07,255 ; No. of trade unions registered (1959), 405 ; Membership, 1,08,706.

E.S.I. Scheme : This scheme is in operation in Bangalore covering about 50,000 workers. It is to be extended to Bhadrawati and Hubli shortly.

Provisions of the Minimum Wages Act, 1948 are in force in respect of agricultural labour in the following taluks : Bangalore District (Ramanagaram and Devanahalli taluks) ; Mysore District (Gundlupet and Periyapatna taluks) ; Mandya District (Malavalli and Srirangapatna taluks) ; Hassan District (Holenarsipur and Belur taluks) ; Chickmagalur District (Narasimharajapur and Kadur taluks) ; Shimoga District (Sorab and Shikaripur taluks and three of Sagar taluk) ; Talaguppa, Kasaba and Anandapuram (Community project areas) ; Chitaldurga District (Harihar and Chellakere taluks) ; Tumkur District (Pavagada and Kunigal taluks) ; Kolar District (Bagepalli and Srinivasapur taluks) ; Bellary District (Bellary taluk).

In the integrated areas, minimum wages under the Act in respect of agriculture are in force in Raichur and Coorg districts only.

Minimum rates of wages under the Act have been fixed for the following scheduled employment in the merged areas noted below :

Hyderabad Area : Employment in rice, flour and dal mills, oil mills, bidi making, tanneries, stone breaking or crushing, road construction and building operations, agriculture.

Madras Area : Employment in woollen carpet making, flour mills and dal mills, tobacco manufactory (bidi making), plantations, oil mills, local authority, road construction and building operations, stone-breaking and stone crushing, mica works, motor transport and tanneries.

Bombay Area : Employment in rice, flour and dal mills, bidi making, oil mills, local authority, stone breaking or crushing, road construction and building operations, public motor transport, tanneries and leather manufactory, printing press, salt pans and ginning and pressing.

Coorg Area : Employment in Coffee plantations, agriculture, public motor transport and cardamom plantations.

As regards agricultural employments, for purposes of wage fixation, the areas have been classified into dry areas, irrigated areas and perennial garden areas. Minimum rates of wages have also been fixed for those employed in cattle, sheep and goat-grazing or those who work as attached labour.

Number of strikes and lockouts in 1957-58 : 124.

Number of workers involved : 89,591.

Number of man days lost : 2,53,888.

Number of trade unions : 410 (June 1959).

Number of employment exchanges in the State : 15. Their location : Bangalore, Hubli, Mysore, Mangalore, Devangere, K.G.F., Bellary, Bhadravati, Belgaum, Gulbarga, Raichur, Mandya, Bijapur, Karwar and Mercara. Four more employment exchanges were to be established during 1960-61.

Number registered in 1959 : 90,772 ; Number of placements in 1959 : 9,983.

Social Welfare : Out of a total outlay of Rs. 296·38 lakhs for the 2nd Plan, a sum of Rs. 130·982 lakhs had been spent till the end of 1958-59 for the welfare of backward classes. Prohibition has been introduced in two more districts during 1959-60 and now 14 out of the 19 districts in the State, are dry.

HOUSING

The Mysore Housing Board was constituted on June 1, 1956.

Progress of work under the Second Five Year Plan (from 1956-57 to end of March 1959) :

Subsidised Industrial Housing Scheme :— Plan provision : Rs. 85·92 lakhs ; Plan target : 2,500 houses ; No. of houses constructed : 1,950 ; Expenditure : Rs. 32·21 lakhs.

Low Income Group Housing Scheme : Plan Provision : Rs. 244·85 lakhs ; Plan target : 3,000 houses ; No. of houses constructed : 2,244 ; Expenditure : Rs. 129·46 lakhs.

Plantation Labour Housing Scheme : Plan Provision : Rs. 15·60 lakhs ; Plan target : 800 houses ; No. of houses constructed : Nil ; Expenditure : Nil.

In regard to rural housing, the Mysore Village Housing Projects scheme proposes the construction of 3,500 houses in 250 selected villages during the Second Five Year Plan. The scheme functions in 31 villages. The Rural Housing Cell is preparing Master Plans for the selected villages.

SMALL-SCALE INDUSTRIES

Important cottage industries showing their centres in Mysore State within brackets : Lacquerware (Chennapatna, Gokak, Nelamangala, Chikmagalur and Shimoga) ; Sandalwood carving (Sagar, Sorab, Mysore) ; Ivory and Inlay works (Sagar, Sorab Mysore) ; Brass works (Nelamangala) ; Rattan work (Mysore, Chikmagalur, Shimoga and Sagar) ; Bidriware (Bidar) ; Glass Bangle making (Yeswantpur) ; Mat weaving (Kengeri, Amruthur, Nagamangala, Hassan, Kumblur, Anandapura and Hiriyur) ; Leather stitching (Birur, Sagar, Doddasiddavanahally, Indi and Karwar) ; Pottery (Ramanagaram, Khanapur, Madikebeedu and Krishnarajapuram) ; Tile-making (Mangalore) ; Coir Industry (Mangalore, Karwar) ; Agarbatti (Mysore, Bangalore).

Mysore State has a large number of small scale industries apart from important cottage industries. All these industries have an investment less than Rs. 5 lakhs each and are flourishing in Mysore State. The important centres for small scale industries are Bangalore, Belgaum, Tumkur, Hubli, Hospet, Bhadravati and Mangalore.

Among the important products that have got all-India market, the following are noteworthy : Cycle Dynamo Lamps manufactured by Messrs. Satya Industries ; Centre lathes manufactured by Messrs. B. H. K. Sheriff & Sons ; Wood working machinery manufactured by Messrs. Jaya Industries ; Punch presses manufactured by Messrs. Saraswathi Iron Foundry ; Ornamental lamps by Messrs. Consolidated Electric Co.

Apart from the above, the State also produces oil-engines, pressed-Metalware and components for large-scale industries located in the State.

During 1959, a firm manufacturing pressure cookers entered the market.

There are 8 industrial estates in the State located at Bangalore, Mysore, Hubli, Belgaum, Harihar, Mangalore, Gulburga, and Ramnagaram. 257 sheds were to be avilable for industries by April 1961, having a total covered space of 3,50,000 sq. ft. The estates at Bangalore, Mysore and Hubli have commenced work and the other estates are getting accommodation ready for industrialists to move in.

Sericulture has been a major cottage industry in Mysore for a very long time. The industry has considerably developed in recent years. There are now nearly a lakh of families directly engaged in this industry. The area under mulberry which was about a lakh of acres during 1952-53, has gone up to 1·85 lakh acres (1959-60). Mysore produces more than eighty percent of the mulberry silk of India. The number of persons engaged directly and indirectly is estimated to be over 10 lakhs. The industry is being intensively extended to Kollegal, Coorg and Belgaum areas. During the 2nd Plan comprehensive schemes costing about Rs. 60 lakhs have been taken up for the development of sericulture industry in all its branches.

Figures for 1959-60.

Production of raw silk : 18·99 lakh lbs. ; Handlooms : 4,080 ; power-looms : 4,600 ; Production of seed cocoons (1959-60) : Mysore variety 5,350 lakhs ; Foreign variety 800 lakhs ; No. of registered seed rearers : Mysore 7,000 ; Foreign 650.

Silk waste : 9·38 lakh lbs.

MINERALS

Mineral Production : Chief minerals showing within brackets the location, quantity in tons and value in Rs. respectively, for 1958 : (Figures for gold and silver are given earlier). Asbestos (Hassan ; 144 ; 22,000) ; Chromite (Hassan ; 3,473 ; 2,75,000) ; Felspar (Kolar ; 535 ; 11,000) ; China Clay (Bangalore, Hassan, Shimoga and Tumkur ; 29,487 ; 4,06,000) ; Limestone (Shimoga, Gulbarga and Bijapur ; 7,47,027 ; 7,470,000).

Total number of men employed : About 36,000.

Number of men employed in each mineral industry : Gold (25,900) ; Other minerals (10,100).

Total value of mineral production in 1958 : Rs. 6·83 crores.

It is estimated that about 500 million tons o high grade and 500 million tons of low grade iron ore are available in the State. Mining of iron ore has reached 750,000 tons in 1958. Manganese ore has an estimated reserve of five million tons, the output in 1958 being 253,000 tons.

Estimated bauxite deposits : 2 million tons. Estimated lime-stone deposits 7,000 million tons, out of which about 875,000 tons are utilised every year mainly for cement production.

MEDICAL & PUBLIC HEALTH (1959-60)

No. of hospitals : 178 (Govt. 110 ; Govt. aide 13 ; Local bodies 39 ; Others 16).

No. of beds : 13,167 ; In-patients admitted : 3,94,240 ; Out-patients attended : 1,39,08,607.

Dispensaries : 707 (Govt. 171 ; Govt. aided 4 ; Local bodies 524 ; Others 8).

Women's hospitals 51 ; Women's dispensaries 62.

1,218 male doctors and 299 female doctors are employed in the hospitals and dispensaries together.

The per capita expenditure on medical srevices is Rs. 1·01.

Birth rate and death rate, per thousand estimated-mid year population are 23·9 and 10·3 respectively. Maternal mortality, per thousand live births, is 5·4 and infant mortality 69·9. The still births, per thousand live births, are 18·1.

The number of health units, leprosy clinics and family planning clinics are 299, 8 and 46 respectively.

There are 529 Ayurvedic & Unani medical institutions including 527 dispensaries and 2 hospitals. A graduate course has been introduced in the govt. College of Indian Medicines, Mysore.

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EDUCATION†

Position in 1958-59.

Universities, 2; Colleges for general education, 49; Colleges for professional & technical education, 43; Secondary education: High schools, 556; Middle schools, 873; Basic schools, 2,297; primary schools, 20,844; Nursery schools, 119; Schools for professional and special education, including adult literary classes, 5,672.

Number of scholars: colleges for general education, 31,598; professional & technical education, 11,474; High schools, 1,87,744; Middle schools, 1,53,620; Basic schools, 3,54,824; Primary schools, 15,17,299; Nursery schools, 7,329; Schools for professional & technical education, 1,34,661.

Number of teachers, Men and Women: Nursery, 6: 193; Primary, 39,150: 8,266; Basic, 8,680: 1,497; Middle, 4,723: 1,316; High, 6,324: 1,525; Schools for professional & techn. education, 5,522: 483; Colleges for genl. education, 1,249: 205; Colleges for professional & special education, 827: 51.

There are four medical Colleges, one in each of the following places: Mysore, Bangalore, Hubli and Manipal. About 400 students were admitted in 1960. There is also a dental College at Bangalore.

TRANSPORT

1959:

Total road mileage: 27,247 (340 miles concrete, 3,450 asphalted; Water-bound macadam 12,281, unmetalled 11,176). 59 per cent of the roads in the State have been metalled.

Total length of roads under the charge of: P.W.D. 17,348 miles; District Board 8,791 miles and Forest Dept. 1,108 miles.

No. of registered motor vehicles (March 1960): Stage carriers 3,685; Omnibuses 214; Goods vehicles 9,275; Taxi cabs and auto-rickshaws 1,155; Private motor cars 13,906; Motor cycles 4,290; Others 1,352.

Mysore Govt. Road Transport: Fleet—Passenger vehicles 1,527; Trucks 51; Dept. vehicles 87; No. of routes 978; No. of schedules 997; mileage 31,245; Average number of vehicles per day on road 1,031.

Railway route mileage: Broad gauge 300; Metre gauge 1,281; Narrow gauge 96; Total 1,677.

The Mysore Government has decided to form a Road Transport Corporation for the whole State, which is likely to come into being shortly.

A new Port Department has been established under a State Port Officer. It is proposed to develop the Karwar Port at a cost of Rs. 95,500, Honnawar Port at a cost of Rs.80,000, Mangalore Port at a cost of Rs. 5,00,000 and Malpe Port at a cost of Rs. 1,84,000. Attempts to develop export of iron and other minerals through these ports are being made.

The Mysore Government propose to construct 17,000 miles of roads during 1959-65. The total amount required for the programme of construction will be Rs. 10 crores 20 lakhs. A beginning has already been made and a sum of Rs. 105 lakhs was expected to be spent during 1959-60. A provision of Rs. 250 lakhs had been made for 1960-61. The balance amount is proposed to be provided in the IIIrd Plan.

The total expenditure on development of roads and construction of bridges during 1956-59 was Rs. 287·99 lakhs.

Coastline: 200 miles.

No. of airports 4; No. of airstrips 4.

MYSORE STATE FINANCIAL CORPORATION

(*See "Under State Financial Corporations".*)

Second Five Year Plan

Revised outlay & expenditure (1956-57 to 1959-60) respectively in lakhs of rupees.

Development Head: Agriculture 20,08·00; 12,77·97; Community Development 10,22·00; 693·94; Irrigation 32,99·00; 20,32·43; Power 27,28·00; 17,07·60; Industries & Mines 11,79·00; 5,84·97; Transport & Communications: 10,02·00; 7,67·24; Social Services: 31,42·00; 21,59·38; Miscellaneous: 1,33·00; 45·77; Total 1,45,13·00; 94,69·27.*

The Ceiling for the Second Plan was fixed at Rs. 145 Crores: *Expenditure is as follows:—*

1956-57: Rs. 18·3 Crores; 1957-58: Rs. 20·9 crores; 1958-59: Rs. 25·6 crores; 1959-60: Rs. 30·0 crores. A provision for Rs. 40·7 crores had been made in the budget for 1960-61.

EDUCATIONAL INSTITUTIONS

UNIVERSITY OF MYSORE

CHANCELLOR

His Highness Sri Jayachamaraja Wadiyar Bahadur, G.C.B., G.C.S.I.

PRO-CHANCELLOR

A. Ganamukhi, Minister for Education.

VICE-CHANCELLOR

N. A. Nikkam, M.A. (Cantab.)

REGISTRAR

Dr. K. S. Siddalingaiah, M.Sc., Ph.D. (Lond.), D.I.C., A.M.I. Chem. E. (Lond.).

This is a teaching and affiliating University.

No. of University Colleges: 3.

No. of affiliated colleges: 53.

Total No. of Students during 1959: 23, 124.

Estimates (1959-60):

Government Grant: Rs. 76,72,728.

Grant from University Grants Commission: Rs. 32,96,000.

University (fees, etc.): Rs. 28,88,000.

Opening Balance: Rs. 13,84,817.

Total: Rs. 1,52,41,545.

Expenditure: Rs. 1,52,01,660.

Closing Balance: Rs. 39,885.

LIST OF COLLEGES AFFILIATED TO UNIVERSITY: Central College, Bangalore; College of Commerce, Bangalore; First Grade College, Tumkur; First Grade College, Shimoga; Maharani's College for Women, Bangalore; Maharani's College for Women, Mysore; Teachers' College, Mysore; Intermediate College, Bangalore; Intermediate College, Chikmagalur; Intermediate College, Chitaldurga; Intermediate College, Davangere; Intermediate College, Hassan; Intermediate College, Kolar; Intermediate College, Mandya; Medical School, Bangalore; Medical College, Mysore; Agricultural College, Bangalore; Basappa Intermediate College, Bangalore; B. M. Sreenivasiah College of Engineering, Bangalore; B. D. T. College of Engineering, Davangere; D. Banumiah's College of Arts and Commerce, Mysore; Govt. Law College, Bangalore; Mount Carmel College, Bangalore; National College, Bangalore; Sarada Vilas College, Mysore; Sri Krishnarajendra Silver Jubilee Technological Institute, Bangalore; St. Joseph's College, Bangalore; St. Philomena's College, Mysore; The National Institute of Engineering, Mysore; Vijaya College, Bangalore; Bangalore Medical College, Bangalore; Veerasiva College, Bellary; Rashtreeya Vidyalaya Teachers' College, Bangalore; Intermediate College, Konanur (Hassan District); Sharadavilas Law College, Mysore; Vidyodaya College, T. Narasipur; Rural College, Kanakapura; Institute of Education, Mysore; All-India Institute of Mental Health, Bangalore; College of Arts and Commerce, Malleswaram, Bangalore; Acharya Patasala College of Arts and Commerce, Basavangudi, Bangalore 4; Intermediate College, Chamarajanagar; Saradavilas Law College, Mysore; Government College, Mercara; Teachers' College, Malleswaram; St. Philomena's College, Puttur; The Mysore Veterinary College, Bangalore; Govt. College, Mangalore; Govt. Training College, Mangalore; St. Agne's College, Mangalore; St. Aloysius College, Mangalore; St. Anne's Training College, Mangalore; Mahatma Gandhi Memorial College, Udipi.

LIST OF UNIVERSITY COLLEGES: Maharaja's College, Mysore; Yuvaraja's College, Mysore; University Engineering College, Bangalore.

ASSOCIATIONS, SOCIETIES, ETC.

AKHILA KARNATAKA MAKKALA KOOTA

Children's Play Grounds, Fort, Bangalore 2.

ALL INDIA ANGLO-INDIAN ASSOCIATION

3, Magreth Road, Bangalore.

President: F. W. Corbett, M.L.A.; *Vice-Presidents:* F. X. Paul, D. Wilson; *Hon. Treasurer:* W. S. Marley; *Hon. Secretary:* L. A. Brown.

ALL INDIA DENTAL ASSOCIATION

Mysore State Branch & Bangalore Local Branch.

29, Vanivilas Road, Basavangudi, Bangalore 4. (Phone 6282).

President, Mysore State Branch: Dr. B. Achemedei, D.E.C.D. & S., F.I.C.D.; *Hon. Secretary, Mysore State Branch:* Dr. R. S. Padmanabhan, Z.D.S. (Vienna); *President, Bangalore Local Branch:* Dr. P. S. Kapadia, L.D.Sc.; *Secretary, Bangalore Branch:* Dr. K. R. Suryanarayana Iyer, L.D.S. (S.M.F.).

ALL INDIA INSTITUTE OF MENTAL HEALTH

Bangalore 2.

Director, Dr. D. L. N. Murti Rao, M.B.B.S., M.R.C.P. (Edin.), D.P.M. (Lond.), D.P.M. (R.C.P. & S. Eng.); *Registrar:* K. S. Panikkar.

(* Excludes an expenditure of Rs. 200 lakhs incurred in integrated areas during April-October 1956). † The Scheme of free and compulsory primary education covering children in the 6–11 age group has been launched throughout the State.

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ALL INDIA MANUFACTURERS' ORGANIZATION (MYSORE STATE BOARD)
Bangalore 1.
Chairman, B. N. Gupta ; *Hon. Secy.*, K. Umanath Rao.

ALL-MYSORE HOTELS ASSOCIATION
Sivaji Bldgs., Mysore Road, Bangalore 2.
President : K. T. Appanna ; *Vice-Pres. :* H. Battanlal, H. R. J. Bapuah ; *Hon. Secy. :* P. N. Rama Iyer.

ALL MYSORE SMALL SCALE INDUSTRIES ASSOCIATION
C/o Prasad Mansions, Main Road, Gandhinagar, Bangalore 9.

BANGALORE CLUB
38, Residency Road, Bangalore 1.
President : Brig. R. C. R. Hill, D.S.O. (Retd.).
Secretary : W. Turner.

AUTOMOBILE ASSOCIATION OF SOUTH INDIA
18, St. Mark's Road, Bangalore 1.

BANGALORE COMMERCIAL ASSOCIATION
45, Commercial Street, Bangalore 1.
President, H. Battanlal ; *Vice-President*, Gadi Chelvaraya Chetty ; *Hon. Secy.*, K. P. Mirchandani.

BANGALORE GOLD THREAD MERCHANTS' ASSOCIATION
49, Jumma Masjid Road, Bangalore 2.

BANGALORE PETROLEUM DEALERS' ASSOCIATION
18, St. Mark's Road, Bangalore 1.
President : K. N. Guruswamy ; *Hon. Secretary :* V. T. Krishnamoorthy ; *Hon. Treasurer :* Hajee Abdul Sattar Sait.

BANGALORE TRACT & BOOK SOCIETY
16, St. Mark's Road, Bangalore.

BANGALORE TRADES ASSOCIATION
(Founded 1899).
21 A, Mahatma Gandhi Road, Bangalore 1.
Master : Dorab J. Panday ; *Dy. Master :* G. P. Gupta ; *Hon. Secretary :* K. V. Vaidyanathan ; *Hon. Treasurer :* A. Nainakannu ; *Manager :* B. Seshadri.

BANGALORE TYRE DEALERS' SYNDICATE
Ramakrishna Building, 2nd Floor, Narasimharaja Road, Bangalore 2.
President, G. K. Iyengar ; *Vice-President*, K. M. Nanjappa ; *Hon. Secretary*, A. C. Ramaswami ; *Hon. Treasurer*, K. S. Chakrapani.

THE BANGALORE WHOLESALE PIECEGOODS MERCHANTS' ASSOCIATION
Rukmini Building, Chickpet, Bangalore 2.
President : Jeenabhai Davidoss ; *Vice-President :* T. S. Venkataramaiah ; *Hon. Secretary :* D. N. Ramayya ; *Hon. Treasurers :* Devichand Misrimal & Co.

BANGALORE YOUNG WOMEN'S CHRISTIAN ASSOCIATION
No. 9, Lady Curzon Road, Bangalore 1.
President : Miss Mavis Ramsbotham ; *Vice-Presidents :* Mrs. G. Sice, Miss Olive Bornshin.

SRI BHARATH SEVA MANDALI
E-18, 17th Cross St., Cubbonpet, Bangalore 2.
President : G. Nanjundiah ; *Vice-President :* M. Rangappa ; *Secretary :* H. Varadaraj.

THE BIBLE SOCIETY OF INDIA & CEYLON
Office :—A/1, Mahatma Gandhi Road, Bangalore 1.
Objects : To circulate the Holy Scriptures of the Old and New Testaments throughout India and Ceylon and so far as may be possible in other lands. It has offices and depots in Delhi, Allahabad, Calcutta, Shillong, Bombay, Secunderabad, Bangalore, Madras, Kottayam and Colombo.

BOARD OF CONTROL FOR CRICKET IN INDIA
No. 38, 16th Cross Road, Malleswaram, Bangalore-3.
President : M. A. Chidambaram ; *Hon. Secretary :* M. Chinnaswamy ; *Hon. Treasurer :* Z. R. Irani ; *Jt. Hon. Secretary :* Ram Prakash Mehra.

BOWRING INSTITUTE
19, St. Mark's Road, Bangalore.

SRI CHAMARAJENDRA ZOOLOGICAL GARDENS
Race Course Road, Mysore.
Director, Dr. M. H. Mari Gowda ; *Curator*, C. D. Krishne Gowda.

CENTRAL LEPROSARIUM
Magadi Road, Bangalore 2.
Medical Officer : Dr. B. S. Venkatashamanna, M.B.B.S., D.P.H. ; *Resident Medical Officer :* Dr. Niranjan Raj Urs, L.M.P.

CHILDREN'S BOOK COUNCIL
Jayanagar, Mysore-5.
President, Rao Bahadur M. Ramaswamy ; *Vice-President*, Rev. Father Audiau ; *General Secretary*, N. Nagesa Rao, M.A.

CHRISTIAN LITERATURE SOCIETY PRESS
1, Dickenson Road, Post Bag 34, Bangalore 1.

THE ELECTRICAL MERCHANTS' ASSOCIATION
Shankara Bldgs., Chickpet, Bangalore 2.
President : M. Krishniah Setty ; *Secretary :* H. G. Mehta, D.M.E. ; *Hon. Treasurer :* Sardarmal Dhakad.

FAMILY PLANNING ASSOCIATION
44A, Cavalry Road, Bangalore 1.
President : Mrs. Heera D. Vatcha ; *Hon. Gen. Secretary :* Mrs. Y. A. Rao ; *Hon. Jt. Treasurer :* Mrs. Sunanda Ubhayakar.

FEDERATION OF INDIAN PHOTOGRAPHY
50, Sri Rama Mandir Road, Bangalore 4.
President : B. K. Mukerjee ; *Vice-President :* T. F. Geti ; *Secretary :* Dr. G. Thomas.

GOKHALE INSTITUTE OF PUBLIC AFFAIRS
Narasimharaja Colony, Basavangudi, Bangalore 4.
Education of public for democratic citizenship through cultural and civic activities. (Lib. 12,000 vols.); Sunday Classes; Popular Saturday lectures; Civic Vigilance; Memoranda on Public Grievances, Legislative Measures, etc. *Publication :* Bi-monthly *Public Affairs* (Subscn. Rs. 4/-).
Hon. Secy. : D. V. Gundappa ; *Hon. Treasr. :* M. P. Somasekhara Rau.

GOVERNMENT TUBERCULOSIS SANATORIUM
Old Madras Road, Bangalore.
Superintendent : Dr. U. Sundareya Shetty, M.B.B.S., T.D.D. (Madras).

THE GRAIN MERCHANTS' ASSOCIATION
No. 2, Hardinge Road, Bangalore 2.
President : M. C. Marinanjundiah ; *Vice-President :* M. H. Raju ; *Treasurer :* M. Kasturiranga Setty ; *Hon. Secy. :* M. V. Narasimhachar ; *Jt. Hon. Secy. :* K. Subbanna.

HANDLOOM CLOTH MERCHANTS' ASSOCIATION (Regd.)
Marwadi Temple Lane, Chickpet, Bangalore 2.
President : R. K. Malliah ; *Vice-President :* M. Subbarayan ; *Hon. Secretary :* M. Tirumalaswamy ; *Director-Auditor :* K. R. Rangappan.

THE INDIAN ACADEMY OF SCIENCES
Hebbal P.O., Bangalore 6.
President : Sir C. V. Raman.
Secretaries : Dr. K. Ramiah ; Dr. K. S. Viswanathan.

INDIAN DAIRY SCIENCE ASSOCIATION
Hosur Road, Bangalore.
President : Dr. Zal R. Kothavalla, D.Sc., N.D.D., F.N.I. ; *Jt. Hon. Secretaries :* Dr. Ranjit Singh and K. Muthuswamy.

INDIAN HOCKEY FEDERATION
C/o 16/3, Infantry Road, Bangalore.
President : Ashwini Kumar ; *Hon. Secy. :* S. M. Sait ; *Hon. Treasurer :* J. D. Irani.

INDIAN INSTITUTE OF PUBLIC ADMINISTRATION
(Mysore Regional Branch)
C/o Vidhana Soudha, Ground floor, Bangalore 1.
Chairman : N. S. Hirannayya, I.A.S. (Chief Secy. to Govt.) ; *Hon. Secretary :* Mani Narayanaswami, I.A.S. (Dy. Secy. to Govt., Planning, Housing and Social Welfare Deptt.) ; *Treasurer :* B. R. Deen Dayal.

INDIAN INSTITUTE OF SCIENCE
Bangalore 12.
The departments of the Institute provide facilities for post-graduate research in Inorganic Chemistry, Physical Chemistry, Organic Chemistry, Bio-chemistry, Physics, Aeronautical Engineering, Internal Combustion Engineering, Metallurgy, Power Engineering (Electrical, High Voltage, Mechanical and Civil and Hydraulic Engineering), Electrical Communication Engineering, Chemical Technology and Chemical Engineering, Pharmacology, Fermentation

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Technology and Applied Mathematics. Facilities for research in Industrial Engineering and Administration, Economics and Industrial Psychology also exist.

There is also provision for post-graduate instruction in Aeronautical Engineering, Internal Combustion Engineering, Metallurgy, Power Engineering (Electrical, Mechanical and Civil and Hydraulic Engineering), Electrical Technology, Electrical Communication Engineering, Foundry Engineering, Automobile Engineering, High Voltage Engineering, Soil Mechanics and Foundation Engineering, Electronic Engineering, Ultra-short and Microwave Engineering, Line Communication Engineering and Acoustical Engineering, and for background teaching in Economics and Social Sciences and instruction in French and German. Part-time courses in Industrial and Production Engineering and in Industrial Administration have been started. The departments are well equipped and have adequate staff.

A fuels and lubricants laboratory was started on July 2, 1955.

The Library of the Institute contains about 65,000 volumes of journals and books.

Conferments : The following are the degrees that may be awarded by the Council of the Institute, in the different Faculties :—

(1) By Research (in the Science and Engineering Faculties) Master of Science (M.Sc.), Doctor of Philosophy (Ph.D.), Doctor of Science (D.Sc.).

(2) By Examination (in the Engineering Faculty) Bachelor of Engineering Degree (B.E.) in Electrical Communication Engineering, Electrical Technology and Metallurgy.

(3) Master of Engineering (M.E.) in Aeronautical Engineering ; Automobile Engineering ; Electrical Communication Engineering (with four electives, *viz.*, Acoustical Engineering, Electronic Engineering, Line Communication Engineering and Ultrashort & Microwave Engineering); Foundry Engineering ; High Voltage Engineering ; Power Engineering (Civil & Hydraulic) ; Power Engineering (Electrical) ; Power Engineering (Mechanical) ; Soil Mechanics and Foundation Engineering.

Honorary Fellowships of the Institute may, on the recommendation of the Council, be conferred by the President of India who is the Visitor of the Institute on persons who have attained eminence in the field of science or industry or who have rendered signal service to the Institute.

The scientific work of the Institute is recorded in the Journal of the Indian Institute of Science, published every quarter in January, April, July and October.

Budget estimates for 1960–61 : Rs. 53·12 lakhs (recurring); Rs. 16·41 lakhs (non-recurring).

Founder : J. N. Tata.

Visitor : The President of India.

President of the Court : J. R. D. Tata.

Chairman of the Governing Council : Prof. R. Choksi, M.A.

Director : Dr. S. Bhagavantam, D.Sc.

Registrar : A. G. Pai, M.A. (Cantab.).

THE INDIAN INSTITUTE OF WORLD CULTURE

6, Sri B. P. Wadia Road, Basavangudi, Bangalore 4.

Organ : The Aryan Path (Monthly) edited by Sophia Wadia.

London Branch : 62, Queen's Gardens, W. 2. *Bombay Branch :* Theosophy Hall, 40, New Marine Lines, Bombay 2.

Membership is open to all believers in human brotherhood (fee Rs. 12 per annum).

President : Smt. Sophia Wadia ; *Hon. Director :* Jacques Dedeyu.

INDIAN PHILOSOPHICAL CONGRESS

Maharaja's College, Mysore.

President, Prof. Humayun Kabir ; *Secretary,* Prof. N. A. Nikam.

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32, Govindappa Road, Basavangudi, Bangalore 4.

Chairman : Dr. K. K. Hegde, Minister for Public Health, Mysore State ; *Hon. Treasurer :* Smt. B. Indira Bai ; *Gen. Secy. :* Smt. Lakshmy P. Krishnappa.

INSTITUTION OF ENGINEERS (INDIA)

Mysore Engineers Assen. Bldg., Bangalore 1.

INSTITUTION OF TELECOMMUNICATION ENGINEERS

(Bangalore Local Centre)

C/o E. C. E. Dept., Indian Institute of Science, Bangalore 12.

Chairman : S. V. C. Aiya ; *Hon. Secy. :* S. Sampath.

THE JEWELLERS ASSOCIATION

Nagarathpeth, Bangalore 2.

President : K. R. Nanjundiah Setty ; *Jt. Secy. :* R. Sethurajan ; *Treasurer :* P. Venkatachalapathy Setty.

KANNADA SAHITYA PARISHAT

(Kannada Literary Academy)

Hardinge Road, Chamarajapet, Bangalore 2.

President : Asthanavidwan Panditratnam B. Sivamurthy Sastry ; *Hon. Secretaries :* K. Gopalakrishna Rao, B.A., A. Puranik, B.Com., LL.B. ; *Hon. Treasurer :* G. Srinivasan.

KARNATAKA SANGEETHA VIDYALAYA

Shankarpur, Bangalore 4.

President : M. C. Chika Nanjundappa ; *Principal & Secretary :* D. Subbaramaiya.

SRI KRISHNARAJENDRA SILVER JUBILEE TECHNOLOGICAL INSTITUTE

Krishnarajendra Circle, Bangalore 1.

Principal & Professor of Textile Technology & Testing : Srinagabhushana, B.Sc., F.T.I., F.T.A. ; *Professor of Textile Manufacture :* M. R. Krishnamurthy, B.Sc., B.Sc. (Tech.) (Manch.), A.M.C.T., A.T.I. ; *Professor of Textile Chemistry :* B. Lakshmikanth, B.Sc., B.Sc. (Tech.) (Manch.), A.M.C.T.

LICENSED ELECTRICAL CONTRACTORS' ASSOCIATION OF MYSORE

528, Avenue Road, Bangalore 2.

President : M. S. Kumar ; *Hon. Secretary :* C. Seshadri, B.E.

MYSORE ART SILK YARN MERCHANTS' ASSOCIATION

32, Jumma Masjid Road, Bangalore 2.

President : N. M. Narayana Swamy, B.A. (Hons.) ; *Hon. Secretary :* B. S. Basappa Setty.

MYSORE AUTOMOBILE PARTS AND ALLIED MERCHANTS' ASSOCIATION

No. 17, 2nd Floor, Ramakrishna Bldg., Narasimharaja Road, Bangalore 2.

President : A. G. Ram ; *Vice-President :* V. R. V. Raghavan ; *Treasurer :* K. S. Chakrapani ; *Secretary :* Abnashi Singh.

MYSORE CHAMBER OF COMMERCE

Kempegowda Road, Bangalore 9.

President : Gurudas G. Ubhayakar ; *Secretary :* G. N. Krishna Murthy, M.A.

THE MYSORE ENGINEERS' ASSOCIATION

Post Office Road, Bangalore-1.

President, B. R. Manickam, B.E.M.S. (U.S.A.) ; *Hon. Secretary,* M. K. Panditaradhya, B.E., D.I.C. (Lond.) ; *Treasurer,* D. B. Narasimhaiah, B.E., M.S. (C.E.), M.S. (Mech.).

THE MYSORE FILM CHAMBER OF COMMERCE

60, Subedar Chatram Road, Bangalore 9.

President : B. S. Gurudachar ; *Vice-President :* V. M. Ranganathan Chetty ; *Hon. Treasurer :* Krishnakant C. Desai ; *Honorary Secretary :* M. Sadananda Rao.

MYSORE GEOLOGISTS' ASSOCIATION

243, Fifth Main Road, Chamarajpet, Bangalore-1.

President, Dr. C. S. Pichamathu ; *Secretary,* Dr. B. P. Radhakrishna.

MYSORE HORTICULTURAL SOCIETY

Lalbagh, Bangalore 2.

MYSORE MEDICAL ASSOCIATION

Fort, Bangalore-2.

President : Dr. G. V. Joshi ; *Vice-President :* Dr. B. S. Jirge ; *Secretary :* Dr. P. T. A. Chette.

THE MYSORE METAL MERCHANTS' ASSOCIATION

P.O. Box No. 556, 71, Sri Narasimharaja Road, Bangalore-2.

President, N. K. Shah ; *Hon. Secretary,* C. Misrimal.

MYSORE OODABATHI MANUFACTURERS' ASSOCIATION

Mysore Chamber of Commerce Bldgs., Kempegowda Road, Bangalore 9.

President : B. V. Ratnaiah Setty ; *Vice-President :* K. B. Venugopal ; *Secretary :* K. S. Narayan Rao.

THE MYSORE PRINTERS CO-OPERATIVE SOCIETY LTD.

Avenue Road, Bangalore City.

THE MYSORE PROVINCIAL SILK HANDLOOM WEAVERS' CO-OPERATIVE SOCIETY LTD.

Jumma Masjid Road, Bangalore 2.

President : D. Hanumanthappa ; *Hon. Secretary :* V. Govindappa ; *Hon. Treasurer :* Y. B. Banashankarappa.

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MYSORE RAW SILK MERCHANTS' ASSOCIATION
Resham Mahal, Kempe Gowda Road Cross, Bangalore 9.
President : Y. H. Venkataravanappa ; *Vice-President :* B. M. Santhuramasa ; *Hon. Secretary :* M. R. Anandarama Setty.

MYSORE RIYASAT HINDI PRACHAR SAMITI
I Block, Jayanagar, Basavangudi, Bangalore 4.
President : H. C. Dasappa, B.A., LL.B., M.P. ; *Vice-President :* P. R. Ramaiya, B.Sc. ; *Hon. Secretary :* Chhotubhai Desai, B.A. ; *Treasurer :* P. Sitapati Naidu.

MYSORE SERUM INSTITUTE
Hebbal, Bangalore 6.
Dy. Director : G. A. Hardikar, G.B.V.C., P.G.

THE MYSORE SILK ASSOCIATION
Hardinge Road, Chamarajapet, Bangalore 2.
President : K. Shamsuddin Khan, B.A., Retired Director of Sericulture in Mysore & Sericultural Adviser to the Govt. of Jammu & Kashmir ; *Hon. Secy. :* Abdul Sattar Khan, B.Sc. ; *Joint Secretary :* S. N. Muni Rao.

THE MYSORE SILK CLOTH MERCHANTS' ASSOCIATION
Avenue Road, Bangalore 2.
President : Gurusevadurina B. S. Sankarappa Setty ; *Vice-President :* K. S. Krishnan ; *Hon. Secy. :* K. R. Kumar, B.Com., B.L., F.R.E.S. (Lond.).

MYSORE SILK HANDLOOM WEAVERS' ASSOCIATION
Jumma Masjid Road, Bangalore 2.
President : D. Hanumanthappa ; *Vice-President :* G. Shivanna ; *Hon. Secretaries :* H. B. Shankarappa, K. V. Shivabhadriah.

THE MYSORE SILK MANUFACTURERS' ASSOCIATION (POWER LOOMS)
No. 39, Jumma Masjid Road, Bangalore 2.

THE MYSORE SILK THROWING FACTORIES ASSOCIATION
S. S. K. Sangha Bldgs., Kasi Visveswara Temple Street, Bangalore 2.
President : M. Govindiah ; *Vice-President :* E. S. Venkatramaiah, B.A., LL.B. ; *Hon. Treasurer :* D. B. Sitaramsa ; *Hon. Secretary :* K. M. Eswarsa.

MYSORE SMALL SCALE INDUSTRIES CO-OPERATIVE SOCIETY LTD.
Prasad Mansion, Main Road, Gandhinagar, Bangalore 9.
President : V. Ramaswamy ; *Vice-President :* C. M. Perumal ; *Secretary :* A. V. Paraparan.

MYSORE STATE ADULT EDUCATION COUNCIL
1132/2, Krishnamurthipuram, Mysore.
President : N. Bhadriah.
Vice-President : A. N. Rama Rao, B.A., LL.B.
General Secretary : K. S. Suryanarayana Rao, B.A., LL.B., M.L.A.
Treasurer : T. Venkataramanaiah.
Chief Executive Officer : K. S. Muniswamy, B.Sc.

MYSORE STATE BADMINTON ASSOCIATION
"Prasanth", 742/40, XV-A Cross Road, Malleswaram, Bangalore 3.
President : K. A. Nettakallappa ; *Vice-Presidents :* A. B. Eswar, Leela Shantamallappa ; *Hon. Secretary :* P. Ramesh.

THE MYSORE STATE EDUCATION FEDERATION
Mayo Hall, Bangalore 1.
President : J. B. Mallaradhya, M.A., I.A.S. (Retd.), M.L.A.
General Secretary : T. V. Ananthachar, B.A., B.T.

MYSORE STATE HIDES & SKINS MERCHANTS' & TANNERS' ASSOCIATION
74, Commercial Street, Bangalore 1.
President : Janab Marit Hajee Mohamad Ismail Sahib ; *Secretary :* M. A. Kantharaj.

THE MYSORE STATE JOURNALISTS' ASSOCIATION
District Office Compound, Bangalore 2.
President : N. S. Seetarama Sastry ; *General Secretary :* H. S. Suryanarayana.

THE MYSORE STATE MINE OWNERS' ASSOCIATION
5, Race Course Road, Bangalore 1.
President : L. Kameshwar Rao ; *Vice-President :* K. P. Poddar, M.Sc. ; *Secretary :* K. Vasudevan.

THE MYSORE STATE NON-GAZETTED OFFICERS' ASSOCIATION
Cubbon Park, Bangalore 1.
President : A. P. Masilamoni, M.A.
Vice-President : Muhammad Kamal.
General Secretary : Mary Davasia.

MYSORE STATE PANDITS' ASSOCIATION
C/o Chamarajendra Sanskrit College, Bangalore 2.

MYSORE STATE PAPER MERCHANTS' & STATIONERS' ASSOCIATION
C/o T. M. Abdul Rasheed & Co., 22/23, Malavalli Rama Rao Street, Bangalore 2.
President : S. K. Sippy ; *Vice-President :* T. M. Abdul Rahaman ; *Secretary :* T. M. Abdul Rasheed ; *Treasurer :* S. V. Krishna Moorty.

MYSORE STATE RADIO MERCHANTS' ASSOCIATION
C/o Waco, 2-F, Mahatma Gandhi Road, Bangalore 1.

MYSORE STATE SANGEETHA NATAKA ACADEMY
New Public Offices, Bangalore 1.
Chairman : A. R. Ganamukhi, B.A., LL.B. (Minister for Edn., Mysore State) ; *Secretary :* A. C. Deve Gowda, M.A. (Col.), B.T., M.Ed. (Leeds), Dip. Edn. (Director of Public Instruction, Mysore State) ; *Treasurer :* H. Chikkanna, B.A. ; *Asstt. Secretary :* S. M. Patil, M.A., LL.B.

NATIONAL TUBERCULOSIS INSTITUTE OF INDIA
'Avelon', Bellary Road, Bangalore.
Established by the Govt. of India with the help of W.H.O. & U.N. International Children's Fund. The Institute is working on a scheme to control tuberculosis on a community basis and train workers for this purpose.
Director, Dr. N. L. Bordia ; *Epidemiologist,* Dr. Raj Narayan ; *Administrative Officer,* K. L. Rajan.

OPERATIONS RESEARCH ASSOCIATION
Section of Industrial Engineering & Administration, Indian Institute of Science, Bangalore 12.
Operations Research (OR) is one of the tools which the top management in an industrial or business organisation can use for taking action in complex situations.
President : Prof. R. Natarajan ; *Hony. Secretary :* Dr. B. H. Iyer.

ORIENTAL RESEARCH INSTITUTE
Mysore.
No. of mss., 13,000 ; No. of printed books, 28,000.
Director : H. Deveerappa, M.A. ; *Asstt. Director :* N. Basavaradhya, M.A. ; *Ag. Asstt. Director :* B. S. Sannaiah, M.A.

PRINCESS KRISHNAJAMMANNI SANATORIUM
V. V. Mohalla, Mysore.
Superintendent : Dr. S. Narayana Setty, M.B.B.S., L.R.C.P., M.R.C.S., T.D.D. (Wales).

QUALITY CONTROL UNIT (SOUTHERN REGIONAL CENTRE)
(Indian Statistical Institute)
4, Richmond Road, Bangalore.
Executive Director : Prof. Srinagabhusana.

RAMAN RESEARCH INSTITUTE
Hebbal P.O., Bangalore 6.
Director : Sir C. V. Raman.

SANGEETHA KALABHIVARDHINI SABHA
1670, Hosakeri, Krishnaraj Mohalla, Mysore.
President : Padma Shri K. Vasudevacharya (Winner of the National Award) ; *Vice-President :* B. S. Krishnappa, B.A.

SEVA SADAN
XIV Cross Road, Malleswaram, Bangalore 3.
Home for free Boarding and Vocational Training for Helpless Women & Orphans.

SOCIETY OF BIOLOGICAL CHEMISTS
Indian Institute of Science, Bangalore 12.
President : Dr. V. R. Khanolkar, B.Sc., M.D. (Lond.) ; *Hon. Treasurer :* Dr. A. N. Radhakrishnan, M.Sc., Ph.D. ; *Hon. Secretaries :* Dr. C. S. Vaidyanathan, M.Sc., Ph.D., B. R. Das, M.Sc., Y. I. Shethna, M.Sc.

SOUTH INDIA UNION OF SEVENTH-DAY ADVENTISTS
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President : E. L. Sorensen ; *Secretary :* I. Kanagarayan Moses ; *Treasurer :* S. John.

SREE RAMA BHAJANA SABHA
East Park Road, Malleswaram, Bangalore-3.
President : G. Ramachandra Rao ; *Vice-President :* S. K. Ramanuja Iyengar ; *Hon. Secretaries :* E. N. Sreenivasan, B.A., G. Venkatarayappa.

SREE RAMASEVA MANDALI
(Estd. 1939).
189, 4th Main Road, Chamarajpet, Bangalore-18.

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STATIONERY, CUTLERY & GENERAL MERCHANTS' ASSOCIATION
C/o Messrs. C. R. & Bros., 201-202, Avenue Road, Bangalore 2.

President : C. D. Gopala Iyengar.
Honorary Secretary : C. Rudrappa, B.A.

TEXTILE ASSOCIATION (INDIA) REGD.
Mysore Branch
C/o S.K.S.J. Technological Institute, Bangalore 1.

President : Srinagabhushana, B.Sc., F.T.I., F.T.A. ; *Chairman :* R. Rangaswamy, B.Sc., A.R.I.C. ; *Secretary :* B. Basavaraj, B.Sc. (Text.); *Treasurer :* K. Ambakumar.

SRI VARALAKSHMI ACADEMIES OF FINE ARTS
Rama Vilas, Kashipathy Agrahar, Chamaraja Road, Mysore.
President : Rao Bahadur Rajasevaprasakta M. Ramaswamy; *Founder-Secretary :* Natya Sastra Kovida, Bharatha Sastra Praveena Sangeetha Vidwan R. Chandrasekhariah.

YOUNG MEN'S CHRISTIAN ASSOCIATION
Cenotaph Road, Bangalore 2.

President : W. J. Paulraju ; *Vice-President :* Dr. B. Manohar Singh; *General Secretary :* R. J. Solomon.

OTHER TRADE AND COMMERCIAL ASSOCIATIONS

Bangalore Commercial Association, 22, Commercial Street, Bangalore-1.
Bangalore Wine Merchants' Association, 111, Bridge Road, Bangalore-1.
Coconut Merchants' Association, 33, Sithu Rao Street, Bangalore-2.
Mysore State Trunk Manufacturers' Association, 12/1, Sri Krishnarajendra Road, Bangalore-2.

OTHER SOCIAL, CULTURAL, LITERARY, RELIGIOUS, ETC. ASSOCIATIONS

Rotary Club of Bangalore, 36, Residency Road, Bangalore.
Shorthand Writers' Association, District Office Compound, Bangalore.
Bangalore City Institute, Fort South Gate, Bangalore.
United Lodge of Theosophists, Sir Krishna Rao Road, Basavanagudi, Bangalore.
Institute of Management, C/o Hindustan Aircraft Ltd., Bangalore.
Mysore State Ayurvedic Congress, Jayachamarajendra Institute of Indigenous Systems of Medicine, Bangalore.
Ex-Servicemen's Association, 9, Main Road, Munireddipalyam, Bangalore.
Sri Kasturba Gandhi Hindi Shikshana Shala, III Main Road, Chamarajpet, Bangalore.
Mysore Hindi Sahitya Parishat, Chamarajpet, Bangalore 2.
Central Unani Medical Practitioners' Association, Nagarthapet.
Mysore State Branch of Red Cross Society, Bangalore 4.
Free Masons Lodge, Civil Station, Bangalore.
Servants of India Society, Basavanagudi, Bangalore.

BANGALORE DISTRICT

Area : 3,081 sq. miles; *Population :* 2,505,598 (1961 Census). *Headquarters :* Bangalore.

The average rainfall is 30·59 inches.

Bangalore is the headquarters. It is 26 sq. miles in area and has a population of 907,627 (1961). It is a centre of many State-owned and private industries. Four major Govt. of India undertakings are located here. They are Hindustan Aircraft Ltd., Indian Telephone Industries Ltd., Hindustan Machine Tools Ltd., and Bharat Electronics Ltd. Other Industries both in the private and public sector include : Soap, porcelain, insulators, electrical transformers, gas mantles, lamps, glassware, pharmaceutical products, chrome, tanned leather, woollen, cotton and silk mills.

Channapatna is situated to the south-west of Bangalore on the Bangalore-Mysore Railway. It has a population of 24,041. The town is noted for the manufacture of lacquer toys and the drawing of wire for musical instruments. It is also a centre for sericulture in the State. It contains a Government Silk Farm and the Mysore Spun Silk Mills, a Government-aided enterprise. Large quantities of coconuts and betel leaves are produced in the town. Considerable quantities of mangoes are also exported.

BANGALORE MUNICIPAL CORPORATION

Mayor, Mrs. B. B. Nanjappa.
Deputy-Mayor, S. V. K. Rajan.
Commissioner, P. J. Fernandez, I.A.S.
Administrative Officer, N. Siddalingappa, M.A., LL.B.
Engineer, B. V. Vittal Murthy, B.E.
Dy. Engineer, E. L. J. Isaac, D.R.T.C.
Health Officer, Dr. H. Krishna Rao, M.B.B.S., D.P.H., M.P.H.
Medical Officers of Health, Dr. B. M. Chennarayappa ; Dr. R. Gurumurthy Reddy.
District Social Welfare Officer, T. Mudliah, B.Sc.
Physical Education Officer, A. R. Chikapapiah.
Council Secretary, M. Swaminathan, M.A.
Revenue Officer, C. Annadanappa, B.A., LL.B.

COUNCILLORS

P. Ramadev (*Division No.* 1); N. Subbaiah (*Division No.* 2); K. Devaya (*Division No.* 3); Vajravelu (*Division No.* 4); B Mariappa (*Division No.* 5); Dr. M. G. Seshadri (*Division No.* 6); N. Ramu (*Division No.* 7); V. Thammaiah (*Division No.* 8); R. Mohan (*Division No.* 9); M. M. Gangadharasa (*Division No.* 10); B. H. Sanjeevappa (*Division No.* 11); Vacant (*Division No.* 12); M. V. Thiwary (*Division No.* 13); P. N. Narayan (*Division No.* 14); Abdul Rehman (*Division No.* 15); G. Narayana (*Division No.* 16); Dr. D. Rama Rao (*Division No.* 17); Syed Nazir Ahmed, B.Sc., LL.B. (*Division No.* 18); T. K. Thimmaraya Gowda, B.Sc. (*Division No.* 19); V. S. Krishna Iyer, B.Sc. (*Division No.* 20); P. N. S. Murthy (*Division No.* 21); T. R. Shanianna, D. Com. (*Division No.* 22); R. Vajrappa (*Division No.* 23); K. C. Puttanna (*Division No.* 24); M. Muniswamappa (*Division No.* 25); P. Thimmaiah (*Division No.* 26); K. Shikarappa (*Division No.* 27); M. Obanna Raju (*Division No.* 28); Venkataramanappa (*Division No.* 29); B. K. M. Gowda (*Division No.* 30); M. Muniveerappa (*Division No.* 31); Patel M. Anjaneya Gowda (*Division No.* 32); Dr. S. N. Jerome (*Division No.* 33); S. Sunder Raj (*Division No.* 34); P. S. K. Naidu (*Division No.* 35); D. Bashkaran (*Division No.* 36); A. Nanjappa (*Division No.* 37); P. Ramamurthy (*Division No.* 38); S. A. Azeez Dawood (*Division No.* 39); K. Kannan (*Division No.* 40); M. Pandiyan (*Division No.* 41); B. Gangadhar (*Division No.* 42); M. N. Veerabhadra Gupta (*Division No.* 43); A. N. Sreenivasan (*Division No.* 44); Fazlul Rahim (*Division No.* 45); N. V. Naidu (*Division No.* 46); A. K. Ananthakrishna (*Division No.* 47); K. Rajasekhar (*Division No.* 48); Vacant (*Division No.* 49); A. Krishnan (*Division No.* 50).

Depressed Classes (Reserved)

K. Nanjaiah (*Division No.* 4); T. N. Lakshminarasimhaiah (*Division No.* 8); N. Adimoolam (*Division No.* 15); C. Oblesh (*Division No.* 16); C. P. Rathnam (*Division No.* 45); P. K. Ranganathan (*Division No.* 50).

Women (Reserved)

Smt. Padmamma Dr. T. Parthasarathy (*Division No.* 1); Smt. Leeladevi R. Prasad (*Division No.* 13); Smt. P. R. Jayalakshmamma (*Division No.* 23); Smt. Leela John (*Division No.* 29); Smt. Kamala Yadav (*Division No.* 37); Smt. Vajayalakshmi (*Division No.* 40).

Labour Electorate I

S. Venkataram ; T. M. Kappanna.

Labour Electorate II

D. S. Sreeramulu ; A. Sreenivasan.

Mysore Chamber of Commerce

K. M. Nanjappa ; C. G. Rama Rao, B.Sc.

Bangalore Trades Association

Hajee A. Sattar.

Bangalore Commercial Association

K. P. Mirchandani.

Aldermen

Chottu Bhai Davidoss, B.A. ; W. H. Hanumanthappa ; M. Palaniyappan, B.A. ; Smt. B. K. Saraswathamma, B.A. ; Smt. Rajeswari.

Special Councillors

The Station Staff Officer, Bangalore.
The General Manager, Mysore Government Road Transport Department.

BUDGET ESTIMATES FOR 1960-61

Revenue : Rs. 3·59 crores.
Expenditure : Rs. 3·58 crores.

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MYSORE DISTRICT

Headquarters : Mysore.

The area of the District is 4,622 sq miles. Population: 1,669,874 (1961—Provisional). The District has an average rainfall of 29 inches, 83 cents and a forest area of 447·5 sq. miles.

Mysore, the District headquarters town is also the residence of the Governor. It is a paddy growing centre, with several mills for hulling paddy. There are a large number of power and handloom industries for weaving cotton and silk fabrics in the town. Sandalwood oil is produced in the Government Sandal Oil Factory. The Central Food Technological Research Institute, one of the nationa laboratories, is situated here. Mysore is also the headquarters of the Mysore University.

WESLEY PRESS AND PUBLISHING HOUSE
P.O. 37, Mysore City.

USHA PRESS AND PUBLISHING HOUSE
Mysore City.

CHETHANA MUDRALAYA AND PUBLISHING HOUSE
Mysore City.

MYSORE MUNICIPAL COUNCIL

President, H. Kempe Gowda.
Vice-President, S. Jogisiddiah.
Municipal Commissioner, B. S. Nanjunda Gowda, B.SC., LL.B.
Health Officer, Dr. M. Ramarao, M.B.B.S., D.P.H.
Municipal Executive Engineer, S. Govindaraj, B.E.
Octroi Supdt., T. R. Marishankariah.
Revenue Officer, M. Mahadevappa, B.A.
Manager, Municipal Farm, H. N. Gundappa.
Audit Superintendent, R. Rudrappa.
Superintendent, Municipal Office, Tarakanathan.

MEMBERS

An estimate of party position is: Con. 18, P.S.P. 5, Soc. 3, Comm. 1, Ind. 5.

T. V. Srinivasa Rao, S. Somasundara Sharma, D. Lingiah and M. Chickathammayya (*Division No.* 1).

Dr. J. Kamalaraman, Dr. B. G. Das and K. Siddiah (*Division No.* 2).

A. Krishnamurthy Rao, Vedanth Hemmige and Srikantasharma (*Division No.* 3).

B. Narayana Swamy, H. Kempe Gowda and M. N. Thimmiah (*Division No.* 4).

Chowdaiah, Doddathammiah and Srimathi Soundaramma Venkatesh (*Division No.* 5).

B. K. Puttiah, B. N. Kenge Gowda, B.A., B.L., S. Govindiah, C. Sreerama Chetty and H. N. Muddiah (*Division No.* 6).

A. Mohamad Sait, Azeez Sait and Mir Noor Hussain (*Division No.* 7).

M. K. Lingaiah, J. M. Coutinho, S. Sanjeeviah, M. J. Mohamad Yakoob and S. Jogi Siddaiah (*Division No.* 8).

M. Venkatalingiah, K. Doulath Rao and M. P. Mariyappa (*Division No.* 9).

BUDGET ESTIMATES FOR 1961-62
Revenue : Rs. 1,19,40,800.
Expenditure : Rs. 1,18,87,700.

OTHER DISTRICTS

The other districts in Mysore State with their district headquarters within brackets are as follows :

Belgaum (Belgaum); Bellary (Bellary); Bidar (Bidar); Bijapur (Bijapur); Chickmagalur (Chickmagalur); Chitaldurga (Chitaldurga); Coorg (Mercara); Dharwar (Dharwar); Gulbarga (Gulbarga); Hassan (Hassan); Kolar (Kolar); Mandya (Mandya); North Kanara (Karwar); Raichur (Raichur); Shimoga (Shimoga); South Kanara (Mangalore); Tumkur (Tumkur).

ASSOCIATIONS, INSTITUTIONS, ETC. IN THE ABOVE DISTRICTS

BELGAUM VYAPARI SANGH
691, Raviwarpeth, Belgaum.

President : Laxmana Sakharam Ajagaonkar; *Vice-Presidents :* S. M. Muttur, A. G. Ghorpade. *Secretary :* V. A. Navelkar, LL.B.

BELLARY DISTRICT CHAMBER OF COMMERCE
Bellary.

President : T. G. Satyanarayana Setty; *Secretary :* V. Aswathanarayana; *Jt. Secy. :* S. Saranappa.

BHARATI NARATIKALA KENDRA
Mangalwarpeth, Dharwar.

Proprietor : N. R. Sambrani.

THE CODIALBAIL PRESS
Mangalore 3.

Director & Manager: Rev. Fr. Basil S. D'Souza.

COTTON MILLS

GOKAK MILLS LTD. (formerly Gokak Water Power & Mfg. Co. Ltd.). Agents: Messrs. Forbes Forbes Campbell & Co. Private Ltd., Forbes Building, Home Street, Fort, Bombay. Mills at Gokak Falls, Belgaum District.

DANDELI INDUSTRIES ASSOCIATION
Dandeli (Dt. N. Kanara).

President : Lalbhai Patel; *Vice-President :* K. S. Lauly, M.SC.; *Hon. Secy. :* H. Bhatara, M.A.

THE DAVANGERE TRADES ASSOCIATION
Mandipet, Davangere.

President : H. Kottur Basappa, B.A., LL.B.
Vice-Presidents : Maganur Basappa; Iyanhalli Doddaveerappa; *Secretary :* Jayanna M. Chigateri
Joint Secretary : Mundrigi Rudrappa.

DHARMARTH SANGEET PATHASHALA
Mangalwarpeth, Dharwar.

Chairman : N. R. Sambrani.

DHARWAR CHAMBER OF COMMERCE
Dharwar.

President, C. S. Desai; *Hon. Secretary*, S. W. Jathar; *Hon. Treasurer*, N. G. Tikare.

FAMILY PLANNING ASSOCIATION OF INDIA
South Kanara Branch, Manipal.

President : Dr. T. M. A. Pai, M.B.B.S.; *Secretary :* T. Ramesh U. Pai; *Jt. Secy. :* Mrs. Prema A. Pai.

GOVERNMENT WELLESLEY TUBERCULOSIS SANATORIUM
Bellary.

Superintendent.—N. Muniswamy, L.M.P., T.D.D. (Wales).

THE INDIAN PLANTERS' ASSOCIATION
Chickmagalur P.O.

President.—T. C. Manjappa Shetty.

Vice-President.—A. M. Basava Gowda, M.L.A.; *Jt. Hon. Secretaries.*—C. Veeragowda; B. K. Narasimha Murthi, B.A., B.L.

KALA KAUSHALYA AMATEUR SANGITA NATAKA MANDALI
Kaginelli P.O., Dharwar.

Chairman : S. S. Marlihalli, B.A.G.; *Vice-Chairman :* B. N. Naik; *Hon. Secy. :* S. N. Joshi.

THE KANARA CHAMBER OF COMMERCE
P.O. Box No. 116, Bunder, Mangalore 1.

President : M. G. Anantha Pai; *Vice-President :* J. H. M. Noronha; *Treasurer :* Dada Haji Ebrahim Halari; *Hon. Secretaries:* U. Rajaram Mallya; P. Narasing Rau.

KARNATAK AYURVED VIDYAPEETH SOCIETY
Khasbag—Belgaum.

President : G. B. Patil, M.A., LL.B., M.L.C.; *General Secretary and Principal :* Vaidya A. V. Gadag (Bhishagwar).

KARNATAK CHAMBER OF COMMERCE & INDUSTRY
Hubli.

President : S. S. Yelamali; *Vice-Presidents :* Ramji Devji, F. M. Hasbi; *Jt. Hony. Secretary :* R. G. Wale.

THE KARNATAK HISTORICAL RESEARCH SOCIETY
College Road, Dharwar, Mysore State.

The Society has started the School of Indian Palaeography.

President : R. R. Diwakar, M.A., LL.B., Ex-Governor of Bihar and Editor, *Samyukta Karnataka.*

Chief Editor & Chairman : Vidyaratna Vidyabhusana R. S. Panchamukhi, M.A. (Also Director, School of Indian Palaeography).

Hon. Secretary : V. B. Naik, M.A., LL.B. (Senator, Karnatak Univ.); *Secy., School of Indian Palaeography :* U. B. Bidi.

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KARNATAK HOSIERY SAHAKARI UTPADAK SANGHA LTD.
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KARNATAKA POLYTECHNIC
P. Box 120, Mangalore.
Principal : R. N. Nanjundappa, B.Sc., B.Sc. (Tech.) ; *Superintendent :* K. T. K. Shenava.

MANGALORE CASHEW MANUFACTURERS' ASSOCIATION
Bunder, Port Road, Mangalore 1.
President : Mizar Govinda Pai ; *Hon. Secretary :* Sujir Damodar R. Nayak ; *Treasurer :* B. Fernandes.

MARATHI MANDAL
Dharwar.
President, N. B. Nerlekar ; *Chairman,* B. G. Gokhale ; *Hon. Secy.,* S. W. Jathar.

MYSORE GOVT. HANDICRAFTS EMPORIUM
1941, Kadalkar Galli, Belgaum.

THE MYSORE STATE PLANTERS' ASSOCIATION
Chickmagalur.
Chairman : R. Radcliffe ; *Vice-Chairman :* C. I. Machia ; *Secy. :* H. K. Chandrasekhara.

SANSKRITI PRAKASHANA
Malmaddi-Bellary Road, Dharwar.
President : Ramachandrarao Sali.
Secretary & Publisher : U. B. Bidi.
Editor : P. B. Desai, M.A.

SCHOOL OF CULTURE
Theosophical Society Belgaum Lodge
Samadevi Galli, Belgaum.
President : H. H. Raja Srimant R. G. Patwardhan ; *Vice-President :* N. S. Shirali ; *Hon. Gen. Secretary :* Prof. S. Nagaraj, B.A., M.Ed.

SHRI VIDYADHISHA SANSKRIT MANUSCRIPT LIBRARY
Dharwar.
Chairman : K. T. Pandurangi, M.A. ; *Secretary :* D. N. Shanbhag, M.A.

ST. JOSEPH'S INTERDIOCESAN SEMINARY
P. Box No. 503, Mangalore 2.
Rector : Rev. F. X. Rocca, S.J.

VANITA SEVA SAMAJ, PURANIK ROAD, DHARWAR
President : P. G. Halkatti (Dt. Pleader).
Chairman : Gangadharappa (Hubli) ; Rao Saheb D. L. Patil.
Secretary : L. R. Puranik (Dharwar).
Lady Superintendent and Treasurer : Smt. Bhagirathibai Puranik.

VIJAYA ART INSTITUTE
Gadag.
Director : T. P. Akki, A.M. ; *Principal :* C. N. Patil, A.M., G.D. Art., *Vice-Principal :* M. A. Chetty, G.D. Art.

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Gadag.
President : T. P. Akki, A.M. ; *Vice-President :* M. A. Chetty, G.D. Art. ; *Secretary :* C. N. Patil, A.M., G.D. Art.

UNIVERSITIES IN MYSORE

KARNATAK UNIVERSITY

Founded in 1949. A Teaching and Affiliating University having jurisdiction over the districts of Belgaum, Bidar, Bijapur, Dharwar, Gulbarga, North Kanara, Raichur and South Kanara in Mysore State.

Faculties : Humanities, Physical Sciences, Social Sciences, Law, Agriculture, Engineering and Medicine ; Medium of Examination is English ; Teaching departments 18 ; Affiliated Colleges 30 : Recognised Institutions, nil ; Constituent Colleges 2.

Chancellor, Shri Jaya Chamaraja Wadiyar, Governor of Mysore.
Vice-Chancellor, D. C. Pavate, M.A. (Cantab.).
Registrar, S. S. Wodeyar, M.A., LL.B.
Total number of students (1959-60) : 12,454 ; (1960-61) : 12,894.

BUDGET—1960-61 (ESTIMATES)

	Rs.
Income (including Govt. Grant)	29,47,116·00
Expenditure	29,57,877·00
Govt. Grant	13,78,943·00

UNIVERSITY TEACHING DEPARTMENTS

Names of the departments with courses offered within brackets ; Kannada (M.A., PhD.) ; Statistics (M.A. (Stat.), M.Sc. (Stat.), Ph.D.) ; Physics (M.Sc., Ph.D.) ; Chemistry (Organic) (M.Sc., Ph.D.) ; Geology (M.Sc., Ph.D.) ; History and Ancient Indian History & Culture (M.A.) ; Economics (M.A., Ph.D.) ; English (M.A., Ph.D.) ; Philosophy (M.A., Ph.D.) ; Politics (M.A., Ph.D.) ; Kannada Research Institute, Dharwar (M.A. (Ancient Indian History and Culture, Archaeology, Epigraphy, Kannada Linguistics and Socio.), Ph.D.) ; Sociology (M.A., Ph.D.) ; Mathematics (M.A. and M.Sc., Ph.D.) ; Chemistry (Inorganic) (M.Sc.) : Sanskrit (M.A., Ph.D.) ; Anthropology (M.A., Ph.D.) ; Botany (M.Sc.) ; Zoology (M.Sc., Ph.D.).

CONSTITUENT COLLEGES

Karnatak Arts College, Dharwar—Courses B.A., M.A., Ph.D. ; Karnatak Science College, Dharwar—Courses B.Sc., M.Sc., Ph.D. } f. 1917 and as constituent colleges 1958.

AFFILIATED COLLEGES

Basaveshwar College, Bagalkot ; B. V. B. College of Engineering and Technology, Hubli ; College of Agriculture, Dharwar ; Engineering College, Manipal ; Government College of Arts and Science, Gulbarga ; Government Teachers' Training College, Gulbarga ; Govt. B.Ed. College, Gulbarga ; Janata Shikshana Samiti's Law College, Dharwar ; Janata Shikshana Samiti's Science and Banashankari Arts College, Dharwar ; J. G. College of Commerce, Hubli ; Kanara College, Kumta ; Karnatak Law Society's College of Commerce, Belgaum ; Kasturba Medical College, Manipal ; Lingaraj College, Belgaum ; R. L. Law College, Belgaum ; R. P. D. College, Belgaum ; Shankar College, Yadgiri ; Sharan Basaveshwar College, Gulbarga ; Sri Kadasiddheshwar College, Hubli ; Shri Laxmi Venkatesh Desai College, Raichur ; Shri P. C. Jabin Science College, Hubli ; S. T. College, Belgaum ; The Udipi Law College, Udipi ; Vijay College, Bijapur ; Pre-University Course, Gadag ; Karnatak Medical College, Hubli ; Raja Lakhamagouda Science Institute, Belgaum ; Jagadguru Tontadarya Arts and Science College, Gadag ; Engineering College, Gulbarga ; Shri Shankarlal Lahoti Law College, Gulbarga ; B. V. Bhoomaraddi Arts and Science College, Bidar.

UNIVERSITY OF MYSORE

(See under Educational Institutions in Mysore State write-up).

DISTRICTS & TALUKAS

Names of Districts in Mysore State giving their area in sq. miles and names of Talukas in each District and their area in sq. miles respectively within brackets :—

Bangalore 3,081 (Anekal 203 ; Bangalore Corporation 26 ; Bangalore North 163 ; Bangalore South 229 ; Channapatna 206 ; Devanhalli 226 ; Dodballapur 312 ; Hoskote 260 ; Kanakapur 589 ; Magadi 358 ; Nelamangala 256 ; Ramanagaram 244).

Belgaum 5,091 (Athani 744 ; Belgaum 394 ; Chikodi 479 ; Gokak 596 ; Hukeri 382 ; Khanapur 675 ; Parasgad 611 ; Raibagh 372 ; Ramdurg 470 ; Sampgaon 435).

Bellary 3,825 (Bellary 652 ; Hadagalli 578 ; Harpanahalli 611 ; Hospet 384 ; Kudligi 703 ; Sandur 481 ; Siruguppa 403).

Bidar 2,072 (Bhalki 589 ; Bidar 420 ; Humnabad 592 ; Santpur 456).

Bijapur 6,590 (Badami 527 ; Bagalkot 352 ; Bagewadi 764 ; Bijapur 1,028 ; Bilgi 327 ; Hungund 512 ; Indi 854 ; Jamkhandi 450 ; Muddebihal 570 ; Mudhol 349 ; Sindgi 830.

Chikmagalur 2,787 (Chikmagalur 644 ; Kadur 555 ; Hassan 357 ; Hole Narsipur 232 ; Manjarabad 407).

Kanara 3,965 (Ankola 348 ; Bhatkal 129 ; Haliyal 315 ; Honavar 278 ; Karwar 284 ; Kumta 235 ; Mundgod 257 ; Siddapur 333 ; Sirsi 556 ; Supa 732 ; Yellapur 508).

Kolar 3,188 (Bagepalli 361 ; Bangarpet 237 ; Chikballapur 249 ; Chintamani 313 ; Gauribidnur 339 ; Gudibanda 87 ; Kolar 305 ; Kolar Gold Fields City 30 ; Malur 249 ; Mulbagal 316 ; Sidlaghatta 265 ; Srinivasapur 321).

Mandya 1,917 (Krishnarajpet 352 ; Malavalli 307 ; Maddur 239 ; Mandya 277 ; Nagamangala 402 ; Pandavapura 214 ; Srirangapatna 143).

Mysore 4,622 (Chamarajnagar 479 ; Gundlupet 355 ; Heggadevanakote 707 ; Hunsur 342 ; Kollegal 1,076 ; Krishnarajnagar 231 ; Mysore City 14 ; Mysore 303 ; Nanjangud 372 ; Periapatna 333 ; T. Narsipur 222 ; Yelandur 103).

Raichur 5,508 (Deodrug 595 ; Gangavati 514 ; Koppal 542 ; Kushtagi 536 ; Lingsugur 739 ; Manvi 749 ; Raichur 588 ; Sindhnoor 628 ; Yelburga 545).

Shimoga 4,066 (Bhadravati 258 ; Chennagiri 458 ; Honnali 338 ; Hosanagar 539 ; Sagar 749 ; Shikaripur 342 ; Shimoga 409 ; Sorat 412 ; Thirthahalli 483).

South Kanara 3,250 (Bantwal 307 ; Belathangadi 535 ; Coondapur 602 ; Karkal 529 ; Mangalore 214 ; Puttur 697 ; Udipi 358).

Tumkur 4,096 (Chiknaikanhalli 413 ; Gubbi 466 ; Koratagere 256 ; Kunigal 383 ; Madhugiri 422 ; Pavagada 523 ; Sira 583 ; Tiptur 303 ; Tumkur 403 ; Turuvekere 306).

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TRADES & PROFESSIONS

Abdul Rasheed & Co., T. M., 22-23, Malavalli Rama Rao Street, Bangalore 2.
A.C.E.C. (India) Private Ltd., Shoukat Bldg., Silver Jubilee Park Road, Bangalore 2.
Addison & Co. Ltd., 24, St. Mark's Road, Bangalore 1.
Advani & Co. Private Ltd., J. B., Silver Jubilee Park Road, Bangalore 2.
Ahmedally & Co., A., Sri Narasimharaja Road, Bangalore.
Ahuja & Co., C. M., 15, Old Kasai Road, Bangalore 2.
Airflow Transports Private Ltd., 28, St. Mark's Road, Bangalore 1.
Aiyar & Co., Kempegowda Road, Bangalore.
All India General Transport Corp., 217/9, Albert Victor Road, Bangalore.
Ambalam & Brothers, Kalasipalayam, Bangalore.
Ambi & Co., Avenue Road, Bangalore.
Amco Batteries Ltd., Mysore Road, Bangalore.
American Radio Co., Narasimharaja Road, Bangalore 2.
Amichand & Co., V., 351, Chickpet, Bangalore.
Amrit Laboratories, Sampige Tank Road, Bangalore 2.
Anand Automobiles, Kalasipalayam, Bangalore 2.
Ananda Perfumery Works, Sultanpet, Bangalore 2.
Anglo-American Optical Co., 68, Commercial Street, Bangalore 1.
Anglo-American Watch Co., 68, Commercial Street, Bangalore 1.
Annapurna Cooker Co., Basavangudi P.O., Bangalore 4.
Appajayya Setty & Sons, B. V., New Tharagupet, Bangalore.
Appanna Setty & Sons, A. K., New Tharagupet, Bangalore.
Aromatik (India), 3-A, Seshadri Road, Bangalore 9.
Aruna Agarbatti Co., 5, Ekambara Sathuji Lane, Chickpet, Bangalore 2.
Ashoka Industrial Co-operative Society Ltd., Kalkondanahalli, Bangalore 6.

ASHWINI ELECTRIC CO., No. 8, Uttaradhi Mutt Street, Chickpet, Bangalore 2; Phone: 70592, Grams: "YAJAMAN." Authorised dealers in 'Lakshmiratan' Concrete Mixers, 'Bieceo' electric Motors, 'Crompton' electric Fans, 'Wolf' electric Tools, Street light Fittings, etc.

Asian Oil & Paint Co. (India) Ltd., 18-B, Godown Street, X Lane, Bangalore 2.
Asoka Electric Corpn., Chickpet, Bangalore 2.
Asoka Elec. & Engg. Co., Brigade Road, Civil Area, Bangalore 1.
Asoka Trading Co., 57, Cottonpet, Bangalore 2.
Aspy & Co., Silver Jubilee Park Road, Bangalore 2.

ASSOCIATED AUTOMOBILES.—9-H, 120, Sri Narasimharaja Road, Bangalore 2.

Associated Electrical Industries (India) Private Ltd., Sri Narasimharaja Road, Bangalore 2.
Associated Printers (Madras) P. Ltd., Gandhi Road, Bangalore 1.
Aswathia & Bros., No. 183, Nagarthpeth, Bangalore 2.
Auto & Bearing Co., D-28, 5th Main Road, Bangalore 9.
Automotive & Allied Agencies, Kalasipalayam Main Road, Bangalore 2.
Avery Co. of India Private Ltd., Ramakrishna Bldgs., No. 1, Narasimharaja Road, Bangalore 2.
Bababudin Coffee & Produce Co. Ltd., 10, Richmond Road, Bangalore 1.
Bandy Bros., 78, Commercial Street, Bangalore 1.
Bangalore Chemical Mfg. Co. Ltd., Malleswaram, Bangalore 3.
Bangalore Chemicals & Fertilisers, 15, Police Station Road, Bangalore 4.
Bangalore Dress Mfg. Co., 12, Lalbagh Road, Bangalore.
Bangalore Enamels, Chemicals & Paints Ltd., West End Road, Bangalore.
Bangalore Printing & Publishing Co. Ltd., 'Lake View', Mysore Road, Bangalore 2.
Bangalore Trading Co., 44, Old Tharagupet, Bangalore 2.
Bangalore Stores, 38, Narasimharaja Road, Bangalore 2.
Bangalore Traders, Kalasipalayam Main Road, Bangalore 2.
Barton, Son & Co. Ltd., Mahatma Gandhi Road, Bangalore.
Batliboi Private Ltd., Post Box No. 538, Bangalore 2.
Bawa Glass & Crockeries Private Ltd., Chickpet, Bangalore 2.
Bengal Electricals Co., Malleswaram P.O., Bangalore 3.
Best & Co. P. Ltd., George Oakes Bldg., Sri Narasimharaja Square, Bangalore 2.
Bhagayandas Shyamsunder & Co., Commercial Street, Bangalore 1.
Bharani Agencies, P. Box 1623, Malleswaram, Bangalore 3.

BHARATH AGENCIES, 18-A, Sri Jayachamarajendra Road, Bangalore 2. Specialists: Perkins P-6 Diesel Engine Spares, C.A.V. Lucas, Bosch & Mico Fuel Injection and Electrical Spares, Garage Tools, Silver Exide Batteries and Kilburns Tarpaulin; Phone: 5391. Grams: "AUTOMIZER."

Bharat Automobiles, 1/4, Narasimharaja Road, Bangalore 2.

BHARAT ELECTRIC & TRADING CO., Agents for: Norton Cables, E.P.P. Bakelite Accessories, Aroon Products etc. Distributors for: Betcom Domestic Irons & Chokes; Dealers and Stockists in Everything Electrical; N. 118, Chickpet, Bangalore 2.

Bhimani Paper Bag Works, 502, Sultanpet, Bangalore 2.
Bhiwandiwala & Co., A. H., 8, Old Tharagupet, Bangalore 2.
Bombay Auto and Radio Stores, 50, Sri Narasimharaja Road, Bangalore.
Bombay Automobiles, 26, S. Jubilee Park Road, Bangalore 2.
Brahmayya & Co., Sugar Co. Bldg., Sri Jayachamarajendra Road, Bangalore 2.
Burmah-Shell Oil Storage & Distributing Co. of India Ltd., Sankey Road, High Grounds, Bangalore 1.
C. A. Galiakotwala & Co. Ltd., Sri Narasimharaja Road, Bangalore.

C. J. SHETH & CO. (BANGALORE), 127, Sultanpet, P.O. Box 757, Bangalore 2.

Capital Cycle and Motor Company, Sri Narasimharaja Road, Bangalore.
Capitol Agencies, Brigade Road, Bangalore.
Cement Marketing Co. of India Ltd., Sugar Company Building (near Town Hall), Sri Jayachamaraja Wadiyar Road, Bangalore City.
Central Hindustan Induatrial Corpn. Ltd., 1/5, Kumara Park West Extn., Bangalore 3.
Champion Radio Co., Brigade Road, Bangalore.
Chandiram Bros., Raja Market, Chickpet, Bangalore 2.
Cheemas Engineering Industries, 10/1, Berlie St. Cross, Cangford Town, Bangalore 1.
Chelva & Co., 17, Russell Market, Bangalore 1.
Chemical Enterprises Ltd., Sheshadripuram, Bangalore 3.
Chemicals Ltd., West End Road, Bangalore.
Chicago Telephone & Radio Co. Ltd., 2, Narasimharaja Road, Bangalore 2.
Chinai Silk Trading Co. Ltd., 432, Avenue Road, Bangalore 2.
Chiniwar & Co., Malleswaram Post, Sampige Road, Bangalore 3.

CLAUDIUS & CO., Manufacturers of "Raceknit" Kiddies Woollen Knit-wears; 49, Lal-Bagh Road, Bangalore 2.

Commercial Hardware Co., 21, Old Poor House Road, Bangalore.
Consolidated Electric Industries, No. 29, Sri Narasimharaja Road, Bangalore City.
Construction Associates P. Ltd., 12, Fairfield Road, Bangalore 1.
Continental Automobiles, 17/2, Lalbagh Fort Road, Bangalore 4.
Cosmic Commercial Co., Prasad Mansions, V Main Road, Gandhinagar, Bangalore 9.
Crompton Engineering Co. (Madras) Ltd., Post Box 651, Bangalore 2.
Diesel (India), Lalbagh Road, Bangalore 2.
Desi Soap and Ink Works, Sampangi Tank Road, Bangalore.
Devarao Shivram & Sons, High Grounds, Bangalore 2.
Devidayal Private Ltd., 5, Race Course Road, Bangalore 1.
Dhondusa Dhaktappa & Brothers, S., Subedar Chatram Road, Bangalore 2.
Donti Venkatesiah Setty & Sons, Chickpet, Bangalore City.
Dunlop Rubber Co. (India) Ltd., 24, Mahatma Gandhi Road, Bangalore 1.
Eastern Agencies, 24, Narasimharaja Road, Bangalore 2.
Easwar & Co., A. B., 40, Silver Jubilee Park Road, Bangalore 2.
Efficient Publicities Ltd., 436, Middle School Road, Visvewarapuram, Bangalore 4.
E. G. K. & Sons, Mahatma Gandhi Road, Bangalore 1.
Emberuman & Co., Krishna Building, Avenue Road, Bangalore.

EVENING IN MYSORE AGARBATHI & CHEMICAL WORKS, High Class Agarbathi & Perfume Manufacturers; Post Bag No. 7, No. 6, Nagasandra Road, Basavangudi, Bangalore 4; Exporters of High Class Agarbathis & Indian Drugs, Cardamom, Pure Honey, Soapnut Powder, Betel nuts, other Forest Products & Medicated Hair Oils.

Famous Radio Co., S. J. Park Road, Bangalore 2.
Firebricks & Potteries Private Ltd., Yesvanthapur P.O., Bangalore.
Firestone Tyre and Rubber Co. of India Ltd., 1-A, Sydney Road, Bangalore.
Forster & Co., J. B., 15, St. Mark's Road, Bangalore 1.
Fraser & Ross, Chartered Accountants, 2, Mahatma Gandhi Road, Bangalore 1.
Furtado & Sons, B. X., Sri Krishna Buildings, Avenue Road, Bangalore.
Galiakotwala & Co. Ltd., C. A., 43/1, Sri Narasimharaja Road, Bangalore 2.
Gannon Dunkerley & Co. Ltd., 157, Sri Narasimharaja Road, Bangalore.

GAURA CORPORATION, St. Mary's Building, 5, Residency Road, Bangalore 1. Phone: 71293; Grams: "GAURACORP"; Manufacturers' Representatives, Exporters & Importers of essential oils, Handicrafts, etc.

G. D. Modi & Co., 80, Nehru Nagar, Bangalore 2.
Ghambir Chemical & Pharmaceutical Works Ltd., Seshadripuram, Bangalore 3.
General Electric Company of India, Ltd., 5, Mahatma Gandhi Road, Bangalore.

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GENERAL INDUSTRIAL AGENCIES, Sri Jayachamaraja Wadiyar Road, Bangalore 2. Phone : 71366; Grams : "GENERAL"; Qualified Mechanical Engineers, Automobile Specialists; Stockists : Spares for KEW DODGE/KEW Fargo Trucks, Diesel Road Rollers, etc.

General Produce Co. Ltd., 48, Nehru Nagar, Bangalore 2.
General Radio & Appliances Co. Ltd., S. J. Park Road, Bangalore 2.
General Sales Co., 26, Narasimharaja Road, Bangalore 2.
George Oakes P. Ltd., Sri Narasimharaja Square, Bangalore 1.
Girimaji & Co., G. S., Shankarapuram, Bangalore.
Glenand Products, Mahatma Gandhi Road, Bangalore 1.
Goodyear Tyre and Rubber Co., of India Private Ltd., 13-15, Jayachamarajendra Road, Bangalore 2.
Gorappa & Son, A., 51, Jumma Masjid Road, Bangalore 2.
Gowri Shanker Chemical and Pharmaceutical Works, 64, Lalbagh Road, Bangalore.
Greaves Cotton & Co. Ltd., 2, Palace Road, Bangalore 1.
Gupta Flower Mills & Agarbathi Factory, 52, Gangarpet, Bangalore 2.
Hajee Abdul Subbhan Sahib & Co., C. L., 54, New Market Road, Bangalore 2.
Harilal Bhikhabhai & Sons, 83, Mamulpet, Bangalore 2.
Hansraj & Co., S. J. Park Road, Bangalore 2.
Hashmi & Co., Old Poor House Road, Bangalore 1.
Higginbothams Ltd., Mahatma Gandhi Road, Bangalore 1.

HIND INDUSTRIAL & MERCANTILE CORPORATION PRIVATE LTD., 50-51, Silver Jubilee Park Road, Bangalore 2; Dealers in Telerad & HGEC Radios, Radio Parts, G.I. Fluorescent Fittings & Accessories, Public Address Equipments.

Hind Mercantile Corpn. Ltd., Ruthandale, 4, Brunton Road, Bangalore 1.
Hindustan Automobiles Co., 5, Ramakrishna Bldg., Narasimharaja Road, Bangalore 2.
Hindustan Dealers Ltd., Kempegowda Road, Bangalore 2.
Hindustan Transports Ltd., 5, Mangapathi Muniyappa Lane, Silver Jubilee Park Road, Bangalore.

HOLLERITH (INDIA) (PRIVATE) LIMITED, *See* **International Computers and Tabulators (India) Private Ltd.**

Hymamshu & Co., Mahatma Gandhi Road, Bangalore 1.
Ibcon P. Ltd., George Oakes Bldg., S. Narasimha Raja Road, Bangalore.
Imperial Tobacco Co. of India Ltd., Fraser Town, Bangalore 5.

INDIA TIN INDUSTRIES PRIVATE LTD., The, Old Madras Road, Duravaninagar P.O., Bangalore 16.

Indian Cable Co. Ltd., 24, Mahatma Gandhi Road, Bangalore 2.
Indian Chemical Industries India Private Ltd., 'Netra', Malleswaram, Bangalore 3.
Indian Hume Pipe Co. Ltd., Rajaji Nagar, Yeshwantpur, Bangalore.
Indian Oxygen & Acetylene Co Ltd., Hindustan Aircraft P.O., Bangalore.
Indian Process & Chemical Laboratories, 2044, Sampige Road, Bangalore 3.
Indian Trade & General Insurance Co. Ltd., Narasimharaja Square, Bangalore 1.
Industrial and Agricultural Engineering Co. (Mysore) P. Ltd., 54-55, Silver Jubilee Park Road, Bangalore.
International Chemical & Biological Institute Ltd., 7, South End Road, Basavangudi, Bangalore 4.

INTERNATIONAL COMPUTERS AND TABULATORS (INDIA) PVT. LTD., Hollerith and Powers-Samas Data Processing Equipment. 8/2, Church Street, P.O. Box 60, Bangalore 1. Telephone No. 6025. Telegraphic Address: "TABULORIAL". *Head Office:* Liberty Building, New Marine Lines, P.O. Box 516, Bombay 1. Area Manager : Mr. P. Subramaniam. Maintenance Inspector : Mr. G. Hodgkinson.

International (India) Agencies, 61, Silver Jubilee Park Road, Bangalore 2.
International Instruments P. Ltd., 20/4-A, Jayachamaraja Wadiyar Road, Bangalore 2.
Ishwarlal & Bros., 59, Jummama Masjid Main Road, Bangalore 2.
J. C. Gupta & Co., 16, Malavalli, Ram Rao Road, Bangalore.
J. & J. DeChane Agency, 21, First Floor, City Market, Bangalore 2.
Jairamdas & Sons, 111-118, S. J. Park Road, Bangalore 2.
Jayalakshmi Co., 5, Byrappa Block, Palace Guttahalli, Bangalore 3.
Jayems Engg. Co., 111/118, Silver Jubilee Park Road, Bangalore 2.
J. B. Advani & Co. (Mysore) Ltd., Silver Jubilee Park Road, Post Box 548, Bangalore 2.
Jhajharia Trading Co. Private Ltd., 13, Fairfield Road, Bangalore 1.
John & Co., B., 44/2, 2nd Road, Old Tharagupet, Bangalore 2.
Jolly Automobiles, H-40, Kalasipalayam Main Road, Bangalore 2.
Kamal Electric Corporation, Chickpet Cross, Bangalore 2.
Kapurchand Bros. (Bangalore) Ltd., 274-276, Chickpet, Bangalore 2.
Karamchand Thapar & Bros. Ltd., Narasimharaja Square, Bangalore 2.
Katta V. Srinivasa Setty & Sons, Avenue Road, Bangalore.
Kerala Automobiles, 2/71, Lalbagh Fort Road, Bangalore 4.
K. H. Shama Rao & Sons, 12, Lalbagh Road, Post Box No. 66, Bangalore 2.

KHODAY RIBBON CARBON & ALLIED INDUSTRIES, 55, Santhusapet, Bangalore 2. For the Supply of Stationery Articles.

Kilburn & Co. P. Ltd., P. Box 10, Bangalore 1.
Kiran Brothers, 156, Subbarama Chetty Road, Bangalore 4.
Kirloskar Bros. Ltd., H/141, Narasimharaja Road, Bangalore 2.
Kirloskar Elec. Co. Ltd., Mfrs. of Transformers & Elec. Motors, Bangalore 3.
Kissan Products P. Ltd., Old Madras Road, Krishnarajapuram, Bangalore 16.
Kochikar Brothers Ltd., Visveswarapuram, Bangalore.
Kohinoor Electric Co., Chickpet, Bangalore 2.
Krishnamachari & Co., T. T., Tasker Town, Bangalore.
Krishnamurthy & Sons, M. N., Chickpet, Bangalore.
Laboratory Supplies Co., Avenue Road, Bangalore 2.
Lalitha Dress Mfg. Co., 37/38, Silver Jubilee Park Road, Bangalore 2.

LALWANI RADIO CORPORATION, 37/38, Silver Jubilee Park Road, Bangalore 2.

LEKHRAJ JASSUMAL & SONS, 113-F, Brigade Road, Bangalore 1; Manufacturing Concessionaires in India for "RIONET" Transistorized hearing-aids.

Lindner & Co., Chickpet, Bangalore 2.
Lobo & Co., Mahatma Gandhi Road, Bangalore 1.
Lokkur & Co., Kempegowda Road, Bangalore.
M. A. T. Acharya & Co., Avenue Road, Bangalore 2.
M. B. T. Co., New Taragpet, Bangalore 2.
M. Chandameyan Sahib & Son, 76, Commercial Street, Bangalore 1.
Machine Tools India Private Ltd., 41, Silver Jubilee Park Road, Bangalore 2.
Madras Auto Service Co. Ltd., 137, Sri Narasimharaja Road, Bangalore.
Madras Bangalore Transport Co., 14, II Road, New Tharagupet, Bangalore 2.
Madras Circle Pipe Dealers' Association Ltd., Shankar Bldg., Silver Jubilee Park Road, Bangalore 2.
Madras Vegetable Oil Products Ltd., Platform Road, Bangalore 2.
Mahalakshmi Transport Co. Private Ltd., D-113, Mamulpet, Bangalore 2.
Manik Elec. & Trading Co., Khaleel Bldgs., Chickpet Bangalore 2.
Mahomed Ebrahim & Co. P. Ltd., Brigade Road, Bangalore.
Manyam & Co., 23, East Subedar Chatram Road, Bangalore 3.
Margarine & Refined Oils Co. Ltd., Mysore Road, Bangalore 2.
Massey-Ferguson India Ltd., P. Box No. 3, Bangalore 1.
Metro Cycle & Auto Stores, A-94, Albert Victor Road, Bangalore 2.
Metro Malleable Manufacturers Ltd., Silver Jubilee Park Road, Bangalore City.
Misrilal Moolchand & Co., Dewan Surappa Lane, Bangalore 2.
Misrimal Bhabutmal & Brothers, 314, Chickpet, Bangalore 2.
Modaliar & Sons., P. M., Cottonpet, Bangalore 2.
Modern Automobiles, Bank Road, Mysore.
Modern India Trading Co., 296, Akkipet, Bangalore 2.
Modern Trading Co., S. J. Park Road, Bangalore 2.

MOTOR INDUSTRIES CO. LTD., Manufacturers of Mico-Licence-Bosch Diesel Fuel Injection Equipment and Spark Plugs; Stockists of Bosch Automobile Parts & Accessories; 41, Queen's Road, Bombay 2; Phone : 39065; Grams : "ELEMENT"; Head Office : Post Box No. 93, Bangalore; Branches: 1/55, Mount Road, Madras 2 and 77-B, Park Street, Calcutta 16.

Muddanna, M., & Sons, 158, Avenue Road, Bangalore City.
Mysore Agarbathi Co., 1, Madar Sab Street, Bangalore 2.
Mysore Bangle Works, 80/1, Balepet, Bangalore 2.
Mysore Carpet Works Ltd., 67, Subedar Chatram Road, Bangalore 3.
Mysore Chemical & Fertiliser Ltd., Chikbanavar P.O., Bangalore.
Mysore Chemical & Industrial Minerals, 40, Sabuvani Bldg., Narasimharaja Road, Bangalore 2.
Mysore Commercial Union Ltd., P.B. No. 89, Bangalore 1.
Mysore Cycle Importing Co., G-35, Arcot Sreenivasachar Street, Bangalore.
Mysore Electrical Industries Ltd., Bangalore.
Mysore Electro Chemical Works Ltd., Bangalore 3.
Mysore Electroplating & Engg. Works, 11-A, Jayachamarajendra Road, Bangalore 2.
Mysore Glass and Enamel Works Ltd., 34, Gandhinagar, Bangalore 2.
Mysore Industrial Products, 331, First Main Road, New Tharagupet, Bangalore.
Mysore Industrial Supplies, S.J. Park Road, Bangalore 2.
Mysore Industrial & Testing Laboratory Ltd., Malleswaram, Bangalore 3.
Mysore Industries Supplies, Post Box No. 559, Bangalore 2.
Mysore Lamp Works Ltd., P. Box No. 1009, Malleswaram, Bangalore 12.

MYSORE MACHINERY MANUFACTURERS LTD., 5th Mile, Mysore Road, Bangalore 2.

Mysore Nutriments, Sampige Tank Road, Bangalore 2.
Mysore Paper Mills Ltd., Asiatic Buildings, Bangalore.

MYSORE PRABHAT PERFUMERY WORKS, Avenue Road, Bangalore 2. High Class Agarbathi Manufacturers and Perfumers.

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Mysore Pharmaceuticals Ltd., 136, Subedar Chatram Road, Bangalore 2.
Mysore Spectacles Co., 89, Sultanpet, Bangalore 2.
Mysore Spinning and Manufacturing Co., Ltd., Malleswaram, Bangalore.

MYSORE STARCH MANUFACTURING CO., Bangarapet P.O., Bangalore.

Mysore Stoneware Pipes and Potteries Ltd., 6th Cross Road, Gandhinagar, Bangalore.
Mysore Sugar Co. Ltd., Sri Jayachamaraja Road, Bangalore.
Mysore Tobacco Co. Ltd., District Board Buildings, Kempegowda Road, Bangalore City.
Mysore Vegetable Oil Products Ltd., P.O. Box No. 501, Bangalore 2.

MYSORE WATERPROOFS LTD., Hindustan Aircraft P.O., Bangalore 17; Manufacturers of "LUSTROLAC" Enamels, "LINOLAC" and "MYSOLAC" Insulating Varnishes, "PROXYLAC" Nitrocellulose Lacquers & Thinners and all kinds of high-class Paints, Varnishes and allied Products.

Nagindas Kilabhai (S.I.) Private Ltd., 87, Silver Jubilee Park Road, Bangalore 2.

NAGARAJA INDUSTRIES, Manufacturers of Nagaraja Sandal Soap and quality Washing Soaps; Rajajinagar, Yeshwanthpur P.O., Bangalore 22.

Narayanaswamy & Co., B. V., Arcot Srinivasachar Street, Bangalore.
National Industries Co., Magadi Road, Bangalore 2.
National Sugar Works and Coffee Powder Manufacturers, Old Tharagupet, Bangalore.
Natrajan & Co., C. (Regd.), P.O. Box 20, Sultanpet, Bangalore 2.
New India Corporation, 7/1, Mission Road, Bangalore 1.
New India Pharmaceutical Industries Ltd., 44, Lalbagh Road, Bangalore 2.
New Premier Chemical Industries, Albert Victor Road, Chamarajapet, Bangalore 2.
Noble Paint & Varnish Co. Private Ltd., 5, Godown Street, Bangalore 2.
Novelty Dress Mfg. Co., Nagarthpet, Bangalore 2.
N. S. Narayan Brothers, 156, Commercial Street, Bangalore 1.
Oakley Duncan & Co. Ltd., Silver Jubilee Park Road, Bangalore 2.
Olety Sons, 3, Krishna Road, Basavangudi, Bangalore 4.
Optoplas Industries, M. Gandhi Road, Bangalore 1.
Oriental Hat Mfg. Co., 67, JangamMaistry Lane, Balepet, Bangalore2.
Oriental Mill Stores & Trading Co., Sri N. Raja Road, Bangalore 2.
Oriental Rubber Trading Co., 2/3, Silver Jubilee Park Road, Bangalore 2.
Parry & Co., Ltd., Silver Jubilee Park Road, Bangalore.
Pasupathy Ayyar & Co., K. G., Kempegowda Road, Bangalore.
Patel Electric Company, 5/2, Ekambara Sahuji Lane, Chickpet, Bangalore.
Paxal Corporation, 13, Sri Krishnarajendra Road, Bangalore 2.

PEST CONTROL CO., 15N, St. Mark's Road, Bangalore 1; Director: Mr. K. V. Gopinath, B.Sc. (Ag.).

Philips India Ltd., George Oakes Bldg., Sri Narasimharaja Road, Bangalore.
Pioneer (Madras) Ltd., 180, Commercial St., Bangalore 1.

PODDAR MARTIN MINING AND MINERALS PRIVATE LTD., 6, Church Street, Bangalore 1.

Popular Automobiles, 86, S. J. Park Road, Bangalore 2.
Popular Motor & Cycle Co., Brigade Road, Bangalore 1.

POPULAR SILK HOUSE, Mamulpet, Bangalore 2.

POPULAR UMBRELLA MFG. CO., Mamulpet, Bangalore 2.

Porcelain Products Co., Subedar Chatram Road, Bangalore.
Prakash Dress Mfg. Co., Kempegowda Road, Bangalore 9.
Prasad Agarwal Private Ltd., 93, Narasimharaja Road, Bangalore 2.
Printers (Mysore) Ltd., Mahatma Gandhi Road, Bangalore 1.
Printers House Ltd., Musvee Bldg., 48, Central Street, Bangalore.
Radio Centre, Narasimharaja Road, Bangalore 2.
Radio & Electrical Mfg. Co. Ltd., Mysore Road, Bangalore 2.
Radio Engineering Co., Philips House, 6-D, Brigade Road, Bangalore.
Radio House, Brigade Road, Bangalore.
Radio Soap Institute, The, Lalbagh Road, Bangalore 2.
Raghulal & Co. (Bangalore) Ltd., 70, Arcot Srinivasachar Street, Bangalore 2.
Rainbow Trading Co., Chickpet, Bangalore.
Raja Cycle and Motor Works, "Raja Buildings", Sri Narasimharaja Road, Bangalore.
Raja Vegetable Oils Co., 36, Old Tharagupet, Bangalore 2.
Raja Laxminarayana Setty & Sons, Sri Narasimharaja Road, Bangalore.
Rajagopalan & Co., N. C., 176, 6th Cross Road, Gandhinagar, Bangalore 9.
Rajagopalan & Co., V. S., South Parade, Bangalore.
Ram Mohan & Co., Private Ltd., Kempegowda Road, Bangalore.
Ramnarayan Girdharidas & Co., C-65, Dewan Surappa's Lane, Bangalore 2.
Rampen Pharmaceuticals, 271, 10th Cross Road, Bangalore.
Rane (Madras) Ltd., Narasimharaja Road, Banagalore 2.
Ranjan Automobiles, Shafi Bldg., Kalasipalayam Main Road, Bangalore 2.
Reliable Corpn. P. Ltd., 2 & 3, Narasimharaja Road, Bangalore 2.

RELIABLE MOTOR STORES, 5 & 6, Narasimharaja Road, Bangalore 2.

Reliance Electric Co., 20, Sri Narasimharaja Road, Bangalore.
Research Chemical Laboratories, 222, 4th Main Road, Bangalore 3.
Royal Dress Mfg. Co., Subedar Chatram Road, Bangalore 3.
R. S. Cooper & Co., News Agents, 112-D, Brigade Road, Bangalore 1.
Rudra Industries, Kailas Kunj, Bangalore 3.
Rudriah & Sons, Dharmaprakasa N., New Tharagupet, Bangalore 2.
S. Dhondusa Gold Thread Factory, Subedar Chatram Road, Bangalore City.
Sandur Manganese & Iron Ores (Private) Ltd., Sandur House, Palace Road, Bangalore.
Sankey Electrical Stampings Private Ltd., Rajaji Nagar, Bangalore 10.
Sarvajithu Motor Stores, 70, Kalasipalayam Main Road, Bangalore 2.
Sathyanarayana Khaithan Ltd., 157/1, Nagappa St., Nehru Nagar, Bangalore 3.
Satya Industries Private Ltd., 3, Seshadri Road, Bangalore 9.
Seethara Miah & Co., 130, Cottonpet, Bangalore 2.
Sha Surajmull Magaraj & Co., Dewan Surappa Lane, Chickpet, Bangalore.
Shah Sakalchand Babulal & Co., Chowdeswari Temple Street, Bangalore.
Shantilal & Co., Oosmania Buildings, Sri Narasimharaja Road, Bangalore.
Shivram's Radio House, S. J. Park Road, Bangalore 2.
Shroff Channabasappa & Sons, Avenue Road, Bangalore 2.
Shoukatali Automobiles, Albert Victor Road, Bangalore 2.
Simpson & Co. Ltd., 29-A, Mahatma Gandhi Road, Bangalore.
Singer Sewing Machine Co., 171, Commercial St., Bangalore.
Singson Automobiles, Kalasipalayam Main Road, Bangalore 2.
Sitaram & Pai Brothers, Arcot Srinivasachar Street, Bangalore City.
Sivashankar Brothers, S. S., Sampige Road, Malleswaram, Bangalore.
Snaize Bros., Brigade Road, Bangalore 1.
Sound Products Co., Post Box No. 14, 60, Subedar Chatram Road, Bangalore 2.
Spencer & Co. Ltd., Mahatma Gandhi Road, Bangalore.
Sri Venugopalaswamy & Co., Sri Krishnarajendra Road, Bangalore.
Standard Bricks and Tile Works, Yelahanka, Bangalore.
Standard-Vacuum Oil Co., Magadi Road, Bangalore.
States Engineering Co., Sri Narasimharaja Road, Bangalore.
Steel Construction Co. Ltd., Hardinge Road, Bangalore 4.
Steelman Private Ltd., 2, Annaswami Road, Bangalore 1.
Subbanna & Sons, S., Avenue Road, Bangalore 2.
Subbiah Setty & Sons, N. K., Kokila Perfumery Works, Mamulpet, Bangalore.
Suedes & Leatherettes Ltd., Hindustan Aircraft P.O., Bangalore.
Sujan & Co., 28, Lalbagh Road, Bangalore.
Swastik & Co., 92, 3rd Cross Road, Gandhinagar, Bangalore.
Swastik Agencies, Post Box No. 647, Sabuvani Buildings, Sri Narasimharaja Road, Bangalore 2.
Swastik Dress Mfg. Co. Ltd., 104, Jangam Maistry Lane, O.T.C. Road, Bangalore 2.
Swastik Electric Industries, Chickpet Cross, Bangalore 2.
Tallam Automobiles, 1/9, Narasimharaja Road, Bangalore 2.
Tata Oil Mills Co. Ltd. (Tomco Sales Department), 2A, Mahatma Gandhi Road, Bangalore 1.
Thos. Cook & Son (Continental and Overseas) Ltd., 20C, Mahatma Gandhi Road, Bangalore.

TOWN HARDWARE STORES, 5, Godown Street, Bangalore 2; Iron & Steel Merchants, Registered Stock Holders of Iron & Steel, Specialists in Builders' Hardware and Distributors for Mysore State (Except Mangalore) for Weld Mesh Sheets of Indian Reinforcing Co., Madras.

T. R. & Sons, 4, Cavalry Road, Bangalore 1.

TRANS AUTO TRADERS, 70/4, Narasimharaja Road, Bangalore 2. Phone: 71324; Grams: "GEARWHEEL"; Direct Importers and Dealers in Motor & Motor Cycle Parts and accessories of all makes and Models; Distributors for "Matchless" Motor Cycle & Spares for South India (Excluding Andhra).

Tyretreads (India) Private Ltd., 1, New Mental Hospital Road, Bangalore 2.
Uberoi Trading Co., 11, Mission Road, Bangalore 2.
Union Co. (Motors) P. Ltd., 8, Brigade Road, Bangalore 1.

UNITED ENGINEERING CORPORATION PRIVATE LTD., 8, Mission Road, Bangalore 2.

United Trades and Agencies, Chickpet, Bangalore.
V. Akambara Chetty & Sons, Chetty Hall, 42-43, Commercial Street, Bangalore 1.
Vale & Co., G. K., South Parade, Bangalore.
Varma Industrials Private Ltd., Hindustan Aircraft P.O., Bangalore.
Vasudeva Setty & Sons, T., Krishna Buildings, Avenue Road, Bangalore.
Vaswani India Ltd., 130-C, Veerappa Block, 17th Cross Road, Malleswaram, Bangalore 3.
Venkatachalam Aiyer & Co., K., Raja Market, Avenue Road, Bangalore 2.
Venkateshiah Setty & Sons, Chickpet, Bangalore.
Venson & Co., St. Mark's Road, Bangalore.
Venson Transports, IV Main Road, New Tharagupet, Bangalore 2.
Vijaya Publicities, 85, Sultanpet, Bangalore 2.

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VIJAYA TRADING CO., 306, Subedar Chatram Road, Bangalore 9. Sole Distributors for Swastik Rolling Shutters and Eros Steel Furniture.
Vijayalakshmi Lorry Service, 7, III Main Road, Bangalore 2.
Vijayam & Co., B. N., 2, Gundopanth Street, Bangalore.
Vijayam & Co. (Madras) Private Ltd., Kempegowda Road, Bangalore 9.
Vikas Sons Private Ltd., 298, Chickpet, Bangalore 2.
Visvanathan & Co., A.R., D-25, Devatha Market, Chickpet, Bangalore 2.
Viswanath Electric & Radio Corpn., Narasimharaja Road, Bangalore 2.
Volta Insulating Co. Ltd., Mysore Road, Bangalore 2.
Voltas Limited, 2/2, Kasturba Road, Bangalore 1.
V. R. & Brothers, Main Guard Cross Road, Bangalore 1.
Waco., 2F, Mahatma Gandhi Road, Bangalore.
Webb's Sales & Service Ltd., 30, Mahatma Gandhi Road, Bangalore 1.
West Coast Paper Mills Ltd., 17, Balaji Krupa Kumarapark West Street, Bangalore 3.
Western India Match Co. Ltd., 41, Old Tharagupet, Bangalore.
Wind Parts Co., G-67, Osmania Bldg., Sri N. Raja Road, Bangalore 2.
Yadalam Industries, 19, Nagasandra Road, Basavangudi, Bangalore 4.
Young India Agencies Ltd., 25, 1, Main Road, Gandhinagar, Bangalore 9.

NAGALAND

Area : 6,331 sq. miles.

Population : 369,000. According to the 1951 census figures, Nagaland (as now constituted) has a population of 2,12,975, but this leaves out the population of 2,000 sq. miles of Tuensang. Only a 50 sq. mile area of Tuensang (then known as Naga Tribal Area) was covered by the 1951 census and the population there was recorded as 7,025. In 1957, the population of Tuensang was estimated at 1,63,000.

Headquarters : Kohima.

Administrative Districts with headquarters shown within brackets : Kohima (Kohima); Mokokchung (Mokokchung) ; Tuensang (Tuensang).

There are about 718 villages.

This administrative unit comprising the Naga areas of Assam State and North-East Frontier Agency, that is, the Naga Hills district of Assam and the Tuensang Frontier Division of NEFA, came into being on December 1, 1957, following the acceptance by the Government of India of a resolution passed by a Naga convention at Kohima which advocated this course as a step preliminary to solving the political deadlock there.

In pursuance of an agreement between the Naga People's convention and the Government of India on the basis of the recommendations of the convention held in October 1959 at Mokokchung, the Naga Hills Tuensang area was renamed as Nagaland from 18th February 1961 under the Nagaland (Transitional Provisions) Regulation, 1961 as a preliminary to the constitution of Nagaland into a full-fledged State of the Indian Union.

Nagaland will continue to be administered by the Governor of Assam as Agent to the President with the assistance of an Executive Council consisting of five members with a Chairman and an Interim Body of 45 members, which is purely advisory in character. The ultimate responsibility for the Administration continues to rest with the External Affairs Ministry. The Governor carries on the Administration through a Commissioner at Kohima and three Deputy Commissioners in the districts and other staff. He has also the assistance of an Adviser in Shillong with his deputies, a Legal Adviser and a Financial Adviser.

The economy of the unit is entirely dependent on agriculture. Revenue is derived from house tax and forest produce like bamboo, cane, timber, thatch and 'Agar'. Rice is grown but all other necessaries of life have to be imported. The Naga tribes depend on their own cottage industry for cloth but yarn is imported.

The main tribes in the Area are : Angami, Sema, Lhotha, Ao, Rengma, Chakesang, Sangtam, Konyak, Chang, Phom, Yimchungurr, Khiemungan.

Education (*in March*, 1961) : Total number of Govt. Lower Primary Schools (including 6 central) 428 ; total number of students 17,991; total number of Teachers 577 ; total number of Govt. M. E. Schools (including English Schools) 57 ; total number of students in Govt. M. E. Schools 10,100 ; total number of teachers in M. E. Schools 384 ; total number of Govt. H. E. Schools (English High Schools) 7 ; total number of students in Govt. H. E. Schools 4,072 ; total number of teachers in H. E. Schools 119 ; total number of Govt. Schools in the Area 503 ; total number of students in Govt. Schools in the area 34,685 ; total number of teaching staff in the area 1,134.

Public Health : (*in March*, 1961) : Total number of hospitals 24 ; total number of dispensaries 34 ; total number of Civil Doctors 72.

Communication : The area is connected by road, foot path and jeep track. The rail head Dimapur (or Manipur Road) is the starting point of a National Highway which runs through Kohima to Imphal, Headquarters of the Union Territory of Manipur and the nearest airport served by scheduled flight of the Indian Airlines.

Road (1961) : National Highway from Dimapur to Mao 64 miles ; road capable of taking 3 ton trucks including N. H. 222 miles ; jeepable road 416 miles ; mule paths 308 miles ; porters tracks 213 miles; bridle tracks and jeep roads widened to take heavier vehicles 491 miles.

During the Third Plan period, it is proposed to construct the following :—Construction of 518 miles new road ; improvement to existing unsurfaced roads 595 miles ; construction of 189 miles of mule paths ; surfacing of existing roads 111 miles.

Expenditure as proposed in the Administration's Third Five Year Plan is Rs. 405·00 lakhs and as accepted by the Planning Commission is Rs. 250 lakhs.

NAGA CONVENTION

A Naga People's Convention which met at Kohima in August 1957 marked a turning point in the solution of the Naga problem. There were about 2,000 delegates representing various Naga tribes. The underground Nagas did not participate in the convention because Government insisted that they must first surrender.

The convention approved a draft constitution prepared by a drafting committee. The essence of the constitution is a Naga State within the Indian Union and internal autonomy with responsible government.

The draft was to form the basis of the negotiations with the Government. Meanwhile the convention was to try and get it accepted by those Nagas who were more or less in a state of revolt against the Government. This it was expected would take time as there are 15 major Naga tribes in the underground movement and the open leadership has to establish contact with all the tribes.

In New Delhi there appeared to be general satisfaction in official circles that the draft constitution had categorically rejected the chimera of an independent sovereign State entertained by Mr. Phizo, the leader of the Naga rebels.

It was pointed out that the Naga area itself showed increasing signs of returning to normalcy. From Dec. 1, 1957 to Feb. 17, 1961 (since the Naga Hills Tuensang unit was formed, about 6,000 hostile elements had either surrendered or been captured. Several thousand Nagas, who had abandoned their villages and taken to the jungles, had also returned to their homes and had been resettled. Practically all the "suspect" villages that had been "grouped" earlier for security reasons had been "disgrouped."

CONSTITUTION

The constitution mentioned above was prepared by a Drafting Committee which had been previously set up by a select Committee of the Convention.

This Drafting Committee ran into a good deal of trouble. Several prominent Nagas resigned from the select Committee because they said the Drafting Committee had been constituted without their knowledge. Another criticism made was that the members of the Drafting Committee were Nagas who were either Government contractors or Government servants. So it was said the Government was engaged in forcing a constitution on the Nagas against their will.

The draft prepared by the Drafting Committee was considered and adopted with certain changes at the Convention of the N.P.C. at Mokokchung in October 1959. Thereafter negotiations between the N.P.C. leaders and the Governor of Assam took place in April 1960, as a preliminary to the negotiations with the Government of India in July 1960. After discussions lasting for nearly a week between the Government of India and the N.P.C. the following agreement was reached and approved by the Government of India.

As a first step in the implementation of this agreement the President promulgated the Nagaland Transitional Provision Regulation, 1961, providing for setting up an Interim Advisory Body consisting of 45 members and an Executive Council of four members and the Chairman. In the Interim period the Governor of Assam, continuing to act as Agent to the President, will carry on the Administration with the aid and assistance of the Executive Council.

The territories that were heretofore known as the Naga Hills-Tuensang Area under the Naga Hills-Tuensang Area Act, 1957, shall form a State within the Indian Union and be hereafter known as Nagaland.

The Nagaland shall be under the Ministry of External Affairs of the Government of India.

Some of the main provisions of the Nagaland (Transitional Provisions) Regulation 1961 are as follows :—

The Interim Body shall consist of forty-five members chosen by election from the tribes in Nagaland, in accordance with such rules as may be made in this behalf having due regard to the customs and usages of the tribes.

The Interim Body shall, as soon as may be, choose a member of that Body to be the Chairman thereof.

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Duration of Interim Body : The Interim Body shall continue for a period of three years from the date appointed for its first meeting;

Provided that the Governor may at any time before the expiry of the said period dissolve the Interim Body.

Meetings of Interim Body : The Interim Body shall meet at least once in every four months.

Functions of Interim Body : The Interim Body shall have the right to discuss and make recommendations to the Executive Council on:—

(*a*) matters of administration involving general policy and schemes of development;

(*b*) any other matter referred to it by the Executive Council;

Provided that the Interim Body shall not discuss any matter exclusively affecting, or relating to, the Tuensang District except with the consent of all the members from that District.

(2) Without prejudice to the generality of the provisions of sub-section (1), the Interim Body may make recommendations to the Executive Council in regard to the constitution and composition of the Legislative Assembly of the State of Nagaland the manner in which members thereof shall be chosen and all matters connected therewith or incidental thereto.

(3) The functions of the Interim Body referred to in this section will be advisory only, but due regard shall be given to such advice by the Executive Council in reaching decisions or in making recommendations to the Governor.

Executive Council : There shall be an Executive Council to assist and advise the Governor in the exercise of his functions in relation to such matters (other than finance and the maintenance of public order) as may be specified by the Governor in this behalf;

Provided that the Governor may, in respect of any question relating to financial matters or the maintenance of public order, consult the members of the Executive Council.

The Executive Council shall consist of such members of the Interim Body, not exceeding five in number, as the Governor may appoint after obtaining the recommendations of that Body.

The Executive Council shall, as soon as may be, choose a member of the Council to be the Chairman thereof, and so often as the office of Chairman becomes vacant, the Council shall choose another member to be the Chairman.

The Governor may make rules for the more convenient transaction of the business of the Executive Council and for the allocation of the said business among the members thereof and for the association of the members of the Executive Council with the Commissioner in the administration of Nagaland.

The members shall hold office during the pleasure of the Governor.

Any such member who ceases to be a member of the Interim Body shall also cease to be a member of the Executive Council.

The salaries and allowances of members shall be such as the Governor may, from time to time, determine.

Village, Range and Tribal Councils : With effect from such date as the Commissioner may appoint in this behalf, there shall be a Village Council for each village, a Range Council for each range and a Tribal Council for each tribe.

(2) The Interim Body may, with the previous approval of the Governor, make bye-laws regulating :—

(*a*) the constitution of Village, Range and Tribal Councils;

(*b*) the powers exercisable by the said Councils in disputes involving breaches of customary laws and usages; and

(*c*) the powers exercisable by the said Councils in relation to such other matters as may be prescribed.

Power to make rules : The Governor may, by notification in the Official Gazette, make rules to carry out all or any of the purposes of this Regulation.

The Interim Body for Nagaland was inaugurated on February 18, 1961 by the Governor of Assam at Kohima. Forty-two members of the Interim Body were sworn in. These representing 14 Naga Tribes will constitute the State Assembly until the Nagaland is formally created Dr. Imkongliba * was elected Chairman of the Interim Body.

The Nagaland five-man Executive Council was sworn in on March 16, 1961 at Raj Bhavan in Shillong. The following five Executive councillors were sworn in on March 16, 1961 at Shillong : Silu Ao (Chairman), Jasokie Angami, R. C. Chiten Jamir, Hokishe Sema and Akum Imlong Chang.

ORISSA

Capital : Bhubaneshwar.

Area : 60,162 sq. miles.

Total Population : 17,565,645 (Males 8,772,194 and Females 8,793,451) (1961 Census—Provisional). Increase over the 1951 census : 19.94 per cent; Literacy : 21.52 per cent; Density of persons per sq. mile : 292.

Administrative Divisions : The whole of the State is divided into 17 Districts. But some of the districts are tagged together for administrative convenience. Thus there are only 13 Administrative Districts :—

Cuttack and Narsinghpur (Cuttack); Puri and Nayagarh (Puri); Dhenkanal and Angul (Dhenkanal); Boudh and Khondmals (Phulbani); Balasore (Balasore); Sambalpur (Sambalpur); Ganjam (Chatrapur); Koraput (Koraput); Mayurbhanj (Baripada); Sundergarh (Sundergarh); Bolangir (Bolangir-patna); Kalahandi (Bhawanipatna); Keonjhar (Keonjhargarh).

The District Magistrates of Cuttack, Puri, Dhenkanal and Boudh are the Ex-Officio District Magistrates of the Districts tagged therewith namely Narsinghpur, Nayagarh, Angul and Khondmals.

For area and population of districts according to 1961 census, see "Late Particulars".

Districts showing within brackets, the names of talukas and their area :

Balasore Dist. (Bhadrak, 1,076; Nilgiri, 263; Sadar, 1,168); Bolangir Dist. (Bolangir, 868; Patangarh, 727; Sonepur, 882; Titalgarh, 935); Cuttack Dist. (Athgarh, 556; Jaipur, 1,115; Kendrapara, 977; Sadar, 1,562); Dhenkanal Dist. (Angul, 902; Athmalik, 711); Hindol, 312; Kamakhyanagar, 865; Pal-Lahara, 450; Sadar, 598; Talcher, 388); Ganjam Dist. (Berhanpur, 908; Chattrapur, 827; Ghumsur, 1,691; Parlakemidi, 1,299); Kalahandi Dist. (Dharamgarh, 2,177; Nawapara, 1,312; Sadar, 1,568); Keonjhar Dist. (Anandapur, 539; Champua, 612; Sadar, 2,065); Koraput Dist. (Koraput Sadar, 2,100; Nowrangpur, 5,572; Rayaghada, 2,203); Mayurbhanj Dist. (Bamanghaty, 737; Kaptipada, 418; Panchpir, 761; Sadar, 2,105); Phulbani Dist. (Balliguda, 2,173; Baudh, 1,330; Khondmals, 779); Puri Dist. (Bhubaneswar, 225; Khurda, 802; Nayagarh, 1,551; Sadar, 1,472); Sambalpur Dist. (Bargarh, 2,252; Deogarh, 1,044; Kuchinda, 944; Rairakhol, 883; Sadar, 1,692); Sundargarh Dist. (Bonai, 1,296; Panposh, 711; Sundargarh, 1,781).

Number of Tahsils : 50 Revenue Sub-Divisions consisting of a number of Tahsils and Thanas.

Number of Union Boards : 2.

Number of District Boards : 6.

Number of Municipalities : 19.

Number of Notified Areas Councils : 17.

Number of Gram Panchayats : 2,348.

Number of villages : 50,984.

Panchayat Samiti was inaugurated throughout the State on Jan. 26, 1961, an important stage in the process of democratic decentralization of administration.

LARGE-SCALE INDUSTRY

Main large scale industries of State with important locations in brackets. The name following the dash indicates the district.

Textiles (Chowdwar—Cuttack); Cement (Rajgangpur—Sundargarh); Refrigerators (Jobra—Cuttack); Paper (Brajrajnagar—Sambalpur and Chowdwar—Cuttack); Glass (Barang—Cuttack and Bahalda Road—Mayurbhanj); Sugar (Rayagada—Koraput); Iron and Steel (Nayabazar—Cuttack and Rourkela—Sundergarh); Potteries (Baripada—Mayurbhanj and Barang—Cuttack); Spinning Mills (Cuttack, Sambalpur and Mayurbhanj); Tube Mill (Chowdwar—Cuttack); Refractories and Pipes (Barang—Cuttack, Rourkela & Rajgangpur—Sundergarh, Belpahar—Sambalpur, Rajgangpur); Ferro-manganese (Rayagada—Koraput; Joda—Keonjhar); Chlorine and Caustic Soda (Brajarajnagar—Sambalpur); Low Shaft Furnace (Barbil—Keonjhar); Structural Transmission Towers (Nayabazar—Cuttack); Coil and Coil Products (Baripada—Mayurbhanj); Aluminium Ingots (Hirakud—Sambalpur); Aluminium Cables Steel Reinforced (Hirakud—Sambalpur); Cast Iron Specials (Jatni—Puri); Cast Iron spun pipes (Narangarh—Puri); Cast Iron Castings (Bhubaneshwar—Puri).

CHIEF INDUSTRIAL UNITS

The Orissa Textile Mills, Chowdwar, Cuttack; The Orissa Cement Factory, Rajgangpur; The Kalinga Tube Ltd., Chowdwar; The Kalinga Industries Ltd., Cuttack; Orient Paper Mills, Brajrajnagar, Shree Durga Glass Works Ltd., Barang; Orissa Industries Ltd., Barang; The Titagarh Paper Mills, Chowdwar; The National Foundry and Rolling Mills Ltd., Cuttack; The Mayurbhanj Glass Works Ltd., Bahalda Road, Mayurbhanj; Tata Ferro-manganese Plant, Joda; Ferro-manganese Plant, Rayagada; Orient Weaving Mills Ltd., Cuttack; Mayurbhanj Textiles, Baripada; Mayurbhanj Potteries, Baripada; Refractory Plant, Rajgangpur; Hindustan Steel (Private) Ltd., Rourkela, Belpahar Refractories, Belpahar, Sambalpur.

The 3-crore paper mill of the Titaghur Paper Mills Co., Ltd. was opened at Cuttack on March 12, 1960.

A new smelter plant of the Indian Aluminium Company called the Hirakud Reduction Plant was inaugurated by the Chief Minister of Orissa on February 12, 1959.

Situated a little more than a stone's throw from the Hirakud multi-purpose project, the smelter has been built at a cost of Rs. 5 crores by the Indian Aluminium Company and forms

* Death was reported on 24th August 1961.

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part of a Rs. 14 crore integrated expansion project involving bauxite, alumina and metal production facilities.

It has an installed capacity of 10,000 tons of aluminium which saves the nation Rs. 2·5 crores of foreign exchange annually.

The Rourkela steel plant which has started production has a capacity of one million tons a year.

SMALL & COTTAGE INDUSTRIES

Biscuit Factory (Cuttack), Steel (Parlakhimedi, Cuttack), Salt (Ganjam, Puri, Cuttack), Fire Bricks (Rajgangpur, Barang, Jharsuguda), Foundry (Tapang, Puri, Berhampur in Ganjam, Cuttack), Fruit products (Cuttack, Angul, Parlakhimedi, Rourkela), Wood work (Cuttack), Tannery (Band and Titilagarh), Footwear (Puri, Cuttack), Roofing tiles (Cuttack).

Handloom, Hides and Skins, Salt manufactures, Horn works, Bell metal, Potteries, Filigree, Blacksmithy, Carpentry, Tailoring, Cane Works, Soap making, Trunk manufacturing and Paddy husking, Eri rearing, Rope-making, Toys, Bamboo works, Mats, Weaving, Spinning, Flaying of hides and horns.

MINERALS, METALS

Mineral deposits: The potentialities of mines in Orissa have not been exploited fully. Iron and manganese ores and limestones and coal are worked out in large quantities. Other minerals like chromite, graphite, fire-clay, china-clay, and Kaolin are worked out in limited quantities. The soapstone, asbestos, and kyanite are not working at present.

Location :—Iron Ore :—Badampahar, Gorumohisani, Suleipat, Gargari, Hatisikly, Kasiabera, Asuki, Khandadera, Moharajpur, Nangalsila, Katapit, Bhitanmunda in Mayurbhanj district; Thakurani, Kalipati, Sayabali, Bhadrasai, Belkundi, Jhilling, Longalata, Kasia Guali, Roida, Uliburi, Joda East, Bhilaramda, Daitari, Kiriburu, Gandhamardan, Sermeda, Bagiaburu, Joruri, Sakradihi, Siljora, Bonai and others in Keonjhar district; Temka, Bichhaghatia, Tungeisuni, Tungeisuni and Kansa in Cuttack district and Barsuan and Bhandhubhal Barsuan and Taldihi in Sundergarh district. Nabibasa hill in Sambalpur district; Hirapur in Koraput district.

Chrome Ore—Kamarda, Saruabil and Gurganj Sukarangi, and Kalarangi in Cuttack district; Nuasahi and Baula in Keonjhar district; Moulabhanj, Birasal, Bhusal-Kingal and Kothapal in Dhenkanal district.

Manganese Ore: in Thakurani, Belkundi, Bameharl, Kalaparbat, Sayabali, Mangabera, Tiringpahar, Siljora, Kalimati, Chormalda, Dalpahar, Haromotto, Uliburu and others.

Coal: Deulbera, Talcher and Dera in Dhenkanal district and Hingir-Rampur Colliery, Ib-River Colliery and Orient Colliery in the district of Sambalpur.

Graphite: Majibheluma, Kariguda in Koraput, Sargipali in Sambalpur, Phapsi, Matupalli, Dharuakhaman, Jamjuri in Bolangir district and Dangsargi, Laitara, Singjharan, Tiekapada, Gudamar in Kalahandi district.

Limestone: Hatibari, Lanjiberna, Jagda, Jharbeda and Biramitrapur in Sundergarh district.

Dolomite: Panpos, Biramitrapur and Jagada in Sundergarh district.

China clay: Jhulan Ruanshi, Chandhani, Jamkeswar, Kurma, Dumuria, and Joshipur in Mayurbhanj.

Soap-stone: Jhulan Ruansi in Mayurbhanj district.

Fire clay: Belpahar, Darlipall and Talabira in Sambalpur; Naraj, Baranga and Andharua in Cuttack and Puri districts.

Kaolin: Kukuda in Sundargarh District.

Bauxite :—Kasipur Taluk and Khuniar Pleatua in Kalahandi district; Gandhamardan Hill in Sambalpur—Bolangir district.

Kyanite: Panijuja in Mayurbhanj.

Galena :—Pithaliala Mundabani, Kumbherpani, Tathakni and Netrapahar in Mayurbhanj district, Saintalla in Bolangir district, Sargipath in Sundargarh district; Gangujal in Sambalpur district.

Venadiferous Magnetite Ore :—Nuashi in Keonjhar district, Betai, Gugmata in Balasore district, Beljharan, Kumardubi, Gurgadi, Hatichhar, Keshan, Mayurbeka, Paharmark, Kundabadi etc. in Mayurbhanj district.

Quantity, rate per ton and value of each mineral extracted in 1960. Manganese: (3,40,760; Rs. 50; Rs. 1,70,38,000·00; Chromite: 93,247; Rs. 80; Rs. 74,59,760·00; Iron: 34,91,736; Rs. 6; Rs. 2,09,50,416·00; Coal: 7,67,792; Rs. 22; Rs. 1,68,91,424·00; Chinaclay: 24,947; Rs. 45; Rs. 1,122,615·00; Fireclay: 74,733; Rs. 10; Rs. 7,47,330·00; Limestone & Dolomite: 2,166,810; Rs. 4; Rs. 8,667,276·00; Graphite: 1,114; Rs. 232; Rs. 2,58,448·00; Keolin: 3,457; Rs. 0·85 nP.; Rs. 2.938·45.

Average number of workers employed daily in the mines: 36,434 (calculated on the basis of returns).

PORTS

Chandbali and Gopalpur are the two ports in the State. Upto the end of Nov. 1960 a sum of Rs. 2,31,221 was spent for the development of Chandbali port out of the Govt. of India loan to the tune of Rs. 2,46,315.

Gopalpur: There has been no sea-borne trade since 1942. The Govt. of India had agreed to include in the Third Plan the development scheme of this port at a cost of Rs. one lakh. A sum of Rs. 20,000 is likely to be spent during the year 1961-62.

Paradip: The Intermediate Ports Development Committee appointed by the Government of India have recommended Paradip to be developed in stages into an all weather Port. For the 1st stage development they have recommended an expenditure of Rs. 1·54 crores during the 3rd plan period so that the port may be able to export 5 lakh tons of ore per annum. Out of this, the first priority schemes are estimated to cost Rs. 99 lakhs.

So far about 69,000 tons of iron ore have been exported to Japan in thirteen ships.

The total cost of the proposed major port at Paradip would be about Rs. 8·66 crores as estimated by the Japanese Mission in 1956.

AGRICULTURE

The latest available position is as follows. The first figure in brackets shows the area in acres, and the second the yield in tons:

Rice (9,828,400; 21,59,506); Jowar (17,000; 3,697); Maize (58,000; 9,110); Ragi (1,65,000; 29,182); Wheat (19,900; 3,798); Barley (700; 138); Gram (44,900; 5,126); Sugarcane (56,800; 73,248); Tobacco (12,500; 3,038); Sesamum (127,000; 20,000); Groundnut (55,300; 16,018); Mustard (1,27,000; 2,574); Linseed (2,40,200; 20,195); Castor (52,000; 4,000).

Cotton (23,200; 2,023 bales); Jute (98,500; 1,77,320 bales); Millet (1,12,600; 13,693).

Total production of crops (food grains) 1959-60) 24,71,318 tons.

Soil conservation measures adopted in 40,609 acres (1955-59).

LAND REFORMS

The Orissa Land Reforms Bill has been enacted, being duly assented to by the President of India. Certain provisions of the Act were expected to be enforced before 30th of June 1961 and the rest will be enforced in due course.

The Act provides for a ceiling of Land holdings at five basic holdings or 25 standard acres for a family not exceeding 5 members. For each additional dependent member one more basic holding is allowed up to two ceiling areas on the aggregate.

As regards resumption of tenanted lands the Act provides that holders of land of more than 15 standard acres can resume up to ¾ of such lands and others upto three fourths only.

FORESTS

Forests occupy nearly 42·3 per cent of the land area of the State.

Total forest area of the State: 25,449·72 square miles. They are classified as follows: Reserved forests: 8,677·40 sq. miles; Demarcated protected forests, Reserve lands and forests demarcated for reservation: 2,062·51 sq. miles; Protected and unreserved forests: 14,637·33 sq. miles; Lakraj and Debottar forests 72·48 sq. miles.

The forests occur in all the thirteen districts of the State, but their distribution is rather uneven in the coastal districts, *e.g.*, Puri, Cuttack and Balasore.

Sal is the most important species in the State. The other important timber species are Bija, Sissoo, Kusum, Semul, Bandhan, Gambhar, Champa and Teak etc. Bamboos occur extensively in the State and besides meeting the local requirements for various purposes, feed the various paper mills. Kendu leaves bring in a substantial revenue to the State.

Total revenue from the forest for the year 1959-60: Rs. 3,13,410-87.

Total expenditure on the State forests during 1959-60: Rs. 91,14,179·68.

LAND RECLAMATION

Reclaimed land: 10,286·14 acres in reclamation centre.

Destumped land: 1,344 acres.

Till the end of December 1960, 7,113·35 acres of the reclaimed lands had been allotted leaving a balance of 3,172·89 acres.

By this time 2,116 families consisting of a total population of 8,506 from 42 villages have been settled in re-settlement camps.

TRANSPORT

Position in 1958:

Total mileage of roads: 6,282 (so far as it relates to Works Deptt.).

Mileage of metalled roads: 3,568 (so far as it relates to Works Deptt.).

Mileage of unmetalled roads: 2,714 (so far as it relates to Works Deptt.).

Total mileage of railways in the State: 900 (1960).

Total mileage of water-ways: All the canals and some of the rivers are also navigable (767 miles).

Number of aerodromes: 2 (Bhubaneshwar and Jharsuguda). Airstrip: 1 (Jamadarpali near Hirakud).

Number of passenger service buses: 1,206 (April 1, 1960).

Number of goods-carrying trucks, lorries: 6,529 (April, 1959).

Number of motor cars: 5,992 (April 1, 1959).

State Transport
(as on 31st March 1960)

Transport has been nationalised in the State from 1-1-48.

Name of Transport Authority: The State Transport Services, Orissa.

Operates passenger transport service in the districts of Sambalpur, Sundergarh, Bolangir, Kalahandi, Keonjhar, Mayurbhanj, Dhenkanal and Balasore and on the north of the Mahanadi in Cuttack District.

Capital invested (Progressive): Rs. 82,29,890.

Number of routes covered: 185.

Number of passenger vehicles owned: 341.

Number of goods vehicles owned: 18.

Total number of passengers carried: 83,64,315.

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Total volume of goods carried : 3,80,100 mds.

	Rs.
Total expenses of authority ..	77,75,905
Total revenue	1,05,75,864 (approx.)
Profit	27,99,762 (approx.).

Number of men employed after nationalisation : 1,925.
Total mileage : 71,34,744.

Orissa Road Transport Company Ltd. (1959-60)

Operates passenger transport service only in the Districts of Ganjam, Phulbani and Puri and on the south of the Mahanadi in Cuttack district.

Capital invested : Rs. 29,99,925.
Total mileage covered : 39,42,224.
Number of routes covered : 77.
Number of passenger vehicles : 160.
Number of suburban bus services : Nil.
Total number of passengers carried : 56,32,440.
Total expenses of authority : Rs. 37,88,064.
Total revenue : Rs. 55,28,259.
Profit : Rs. 17,40,195.

CO-OPERATION

Position in 1959-60.

Total number of Co-operative Societies (including State Co-op. Bank and Central Corpn. Banks) ; 10,824.

Total membership of all types of societies : 11,32,851.

Paid-up Share Capital : 334·14 lakhs.

Total agricultural credit advances including loans advanced by Grain Golas : Rs. 342·39 lakhs.

Total working capital : Rs. 2,071·41 lakhs.

The Orissa State Co-operative Bank is one of the biggest organisations in the co-operative banking channel. Its financial particulars are given below :

Working Capital : Rs. 265·15 lakhs.

Deposits : Rs. 160·67 lakhs.

Paid-up Share Capital : Rs. 21·56 lakhs (of which Government contribution Rs. 9,00,000).
Reserve and other funds : Rs. 7·76 lakhs.
Net Profit for the year 1959-60 : 4·27 lakhs.
Usual rate of dividend : 6¼ per cent.

PUBLIC HEALTH

Commonest diseases in State and mortality from each of these in 1959 : Cholera (754) ; Smallpox (11,218) ; Fevers (includig Malaria, etc.) (73,340).

Figures received for the year 1960 so far : Cholera : 109 ; Smallpox 1,602 ; Fevers including Malaria 73,340.

Number of allopathic hospitals (functioning up-to-date) : 156 (including T.B. and Leprosy hospitals).

Number of allopathic dispensaries (functioning up-to-date) : 228.

Total number of beds in allopathic hospitals and dispensaries including T.B. and Leprosy hospitals : 4,640.

Number of primary health centres : 111.

Number of Ayurvedic and Unani Hospitals and dispensaries : Ayurvedic Hospitals 2 ; Ayurvedic Dispensaries 148 ; Unani Dispensary 1.

Total number of beds in Ayurvedic hospitals 68.

Total number of allopathic doctors : (*a*) Total number serving in all classes of allopathic hospitals and dispensaries including Medical College : 675 ; (*b*) Total number of doctors registered so far : 1,495.

Number of Ayurvedic and Unani practitioners now serving in all classes of Ayurvedic hospitals and dispensaries including Unani dispensaries : 156.

Total number of nurses employed : 237 (including male nurses).

Total number of nurses registered so far : 471.
Total number of Midwives employed : 178.
Total number of Midwives registered so far : 327.
Total number of dais employed : 484.
Total number of dais registered so far : 370.

EDUCATION (1959-60)

	Primary Schools	Middle Schools	High Schools	Higher Secondary Schools
Number of Schools	18,883	1,028	399	5
Total enrolment	9,55,233	86,620	90,405	2,691
Number of Teachers ..	29,927	4,242	4,233	129
Total direct expenditure (Rs.)	1,54,71,787	42,62,422	79,36,317	2,81,560

(See under article on education for other particulars).

UTKAL UNIVERSITY

Cuttack 1.

Chancellor, Governor of Orissa.

Vice-Chancellor, Lt. Col. Dr. P. K. Parija, Padmabhushan, O.B.E., D.Sc., M.A. (Cantab.), I.E.S. (Retd.), F.N.I.

Registrar, G. C. Rath, M.A., Dip-in-L.Sc.

Asstt. Registrar, D. P. Boarai, M.A., Dip. Ed.

Affiliating-cum-Teaching University.

Subjects for Post-graduate teaching and Research : Oriya, Sanskrit, Philosophy, English, Economics, History, Mathematics, Physics, Chemistry, Botany, Geology, Psychology, Political Science, Statistics and Anthropology.

The medium of instruction at the University stage is English.

Number of colleges affiliated to the University : 35.

Number of teaching departments under its control : 15 including University College of Engineering, and M. S. Law College.

Total number of students and Women (1960) : 11,872.

Annual income (including Government grants, donations and endowments during the Calendar year 1959) Rs. 53,760.

Grant from State Government : Rs. 12,66,859.
Central Government grant 1,58,832.
University Grants Commission : Rs. 11,02,887.

AFFILIATED COLLEGES

Bhadrak College, Bhadrak (Balasore).
Bhanjanagar College, Bhanjanagar, Ganjam.
B. J. B. College, Bhubaneshwar, Puri.
Bargarh College, Bargarh, Sambalpur.
Christ College, Cuttack.
Dhenkanal College, Dhenkanal.
Fakir Mohan College, Balasore.
Gangadhar Mehar College, Sambalpur.
Government College, Phulbani.
Government Training College, Angul (Dhenkanal).
Gramapanchayat College, Baragarh.
Intermediate College for Women, Berhampur (Ganjam).
Intermediate Science College, Angul (Dhenkanal).
Intermediate Science College, Keonjhar, Keonjhar Garh.
Kalahandi Science College, Kalahandi.
Kendrapara College, Kendrapara, (Cuttack).
Khallikote College, Berhampur (Ganjam).
Khurda College, Khurda, Puri.
Maharaja Purna Chandra College, Baripada (Mayurbhanj).
Medical College, Burla, Sambalpur.
Narsing Chaudhury College, Jaipur (Cuttack).
Nirakarpur College, Nirakarpur, Puri.
Orissa College of Veterinary Science and Animal Husbandry, Cuttack.
Purna Chandra College, Baripada (Mayurbhanj).
Radhanath Training College, Cuttack.
Rajendra College, Bolangir.
Ravenshaw College, Cuttack.
Shailabala Women's College, Cuttack.
Samanta Chandra Sekhar College, Puri.
Sri K.C.G. College, Parlakhimedi (Ganjam).
S.C.B. Medical College, Cuttack.
Stewart Science College, Cuttack.
Utkal Krushi Mahavidyalaya, New Capital, Bhubaneshwar (Puri).
Vikram Dev College, Jeypore (Koraput).
Women's College, Sambalpur.

UNIVERSITY TEACHING DEPARTMENTS

University College of Engineering, Burla, P.O. Hirakud Colony, Dt. Sambalpur.

Madhusudan Law College of the Utkal University, Cuttack 3.

Modern European Languages Teaching Department of the Utkal University, Cuttack 3.

Post-Graduate Department in Geology.
Post-Graduate Department in Philosophy.
Post-Graduate Department in Sanskrit.
Post-Graduate Department in Zoology.
Post-Graduate Department in Political Science.
Post-Graduate Department in Anthropology.
Post-Graduate Department in Psychology.
Post-Graduate Department in Statistics.
Post-Graduate Department in History.
Department of Rural Economics and Sociology.
Diploma Course in Statistics.
Diploma Course in Social Science, Methodology.

LABOUR, HOUSING

Position in 1960 :

Names of industries in which minimum wage is fixed : Rice Mill, Flour Mill and Dal Mill, Tobacco (including bidi and gudakhu making) manufactory, road construction, building operations and stone breaking or stone crushing, Public Motor Transport, employment in agricultural operations and employment under Local Authority (excepting Gram Panchayats, Anchal Sasan and Notified Area Councils for a period of five years with effect from 30th December 1954).

The minimum rates for wages in respect of the following scheduled employments were revised with effect from 26-11-1960 : (1) Rice Mill, Flour Mill or Dal Mill, (2) Tobacco (including bidi making and gudakhu making) manufactory, (3) Agricultural operation, (4) Road Construction or building operation and stone breaking or stone crushing within the notified area of Rourkella.

Number of registered factories : 673.

Average daily number of workers in registered factories : 23,446.

Average monthly earnings of industrial workers : Rs. 71·78.

Number of Trade Unions in the State : 143.

Total membership of trade unions : 67,647.

Number of Labour Welfare Centres : 37 (34 managed by private bodies and three managed by State Govt.).

Number of houses built through Subsidised Industrial Housing Scheme : By private enterprises : 1,474. By Government : 374.

Number of houses constructed under the Low Income Group Scheme upto the end of 1959-60 : 680.

POWER, IRRIGATION

For statistical particulars see under 'Electric Power Development'.

Chief Hydro-Electric Schemes under execution in the State :

Machkund Hydro-Electric Scheme (Koraput) and Hirakud Hydro-Electric Scheme (Sambalpur).

The following are the more important thermal power houses. The first figure within the brackets shows the installed firm capacity in kW, the second the units generated in kW hrs. and the third the units sold : Choudwar (5,000 kW ; 1,40,70,000 kW hrs. ; 1,12,85,322 Kwgs.).

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The following are the more important diesel stations showing within brackets firstly the installed firm capacity and secondly the number of units generated. Rajgangpur (816 kW); Hirakud (C.W.P.C.) (2,665 kW; 4,92,337 kW hrs.); Burla (1,620 kW).

The following are the licensee undertakings: Cuttack Electric Supply Co., Puri Electric Supply Co.

A sum of Rs. 93 lakhs has been provided for the Talcher Thermal Plant in Orissa in the Orissa Budget Estimates for 1961-62.

Machkund Scheme

This is a joint scheme of Orissa and Andhra Governments and is located in Koraput District for harnessing Hydro-Electric Power from the Machkund river. Orissa's share is 30 per cent. Work on this scheme was started in 1946.
Ultimate installed capacity: 1,15,500 kWs.
Total cost: Rs. 1,536·93 lakhs.
Orissa's share: Rs. 461·08 lakhs.
Expenditure upto end of First Five Year Plan: Rs. 306·96 lakhs.
Provision in the Second Five Year Plan: Rs. 161·30 lakhs.
Present stage of the Scheme: Six generating sets of total capacity of 1,15,500 kW have already been installed and the project is almost completed.

Hirakud Scheme

(See under 'Irrigation')

The Hirakud Dam Project was transferred to the Orissa Govt. and its administration was taken over by the State Government from the Govt. of India with effect from 1st April 1960.

By the end of Oct. 1960, the irrigation potential to almost the entire Ayacut of 3·80 lakh acres have been created at the 1st stage.

The three units in Chiplima Power House are expected to be completed and commissioned by March 1962, Sept. 1962 and March 1963 respectively at the 2nd Stage of the project. On completion the total installed capacity at the Power House No. I of Chiplima Power house project will be 1,98,000 kW and at Power House No. II will be 72,000 kW. respectively.

Transmission Schemes

Duduma Transmission Scheme: Total cost: Rs. 157·69 lakhs upto Rayagada (1st stage); Rs. 142·00 lakhs upto Berhampur (2nd stage).

Expenditure upto end of First Five Year Plan: Rs. 112·46 lakhs.

Provision in the Second Five Year Plan: Rs. 154 lakhs. The scheme envisages extension of power transmission to Berhampur, Rayagada, Jeypore, Koraput, Nawrangpur and Borigumma.

Cuttack Thermal Scheme:
Plant Capacity: 5,000 kW.
Total cost: Rs. 59·28 lakhs.
Expenditure upto end of First Five Year Plan: Rs. 62·46 lakhs.

This supplies power to Cuttack, Puri and Dhenkanal districts through the transmission lines constructed under the Hirakud Power Utilisation Scheme and the Rural Schemes. The work is almost completed.

Small Towns and Rural Schemes:
Total cost: Rs. 89·02 lakhs.
Expenditure upto First Five Year Plan: Rs. 49·20 lakhs.
Provision in the Second Plan: Rs. 150·00 lakhs.

IRRIGATION

(See also tables under 'Irrigation').

Gross area irrigated: 1,054,812 acres.

Minor Irrigation Schemes:

Total area irrigated and/or benefited by minor irrigation projects: 595,350 acres.

The following are some of the more important minor irrigation projects with their location, area irrigated in acres and cost in lakhs of rupees respectively within brackets: Suk Pika (Cuttack District; 6,068; 13·11); Uchhai Naghar (Puri District; 4,000; 4·08); Derras (Puri District; 5,500; 13·00); Dasmauza (Balasore District; 8,880; 1·76); Projects connected with Subamarekha problem, Balasore District; (10,000; 6·00); Bauli (Dhenkanal District; 7,600; 1·35); Extension of No. 2 Distributary Rushi-Kulya Canal (Ganjam District; 6,000; 4·00).

Major Irrigation Schemes; Name with location, area in acres and cost in lakhs respectively within brackets: Hirakud Dam (Sambalpur & Bolangir Patna Districts; 3,80,000; 7,078·00); Delta Irrigation Project (Cuttack and Puri Districts, 10·77 lakhs (CCA); 25 crores).

The six medium irrigation projects of Salandi, Salki, Budhabudhiani, Ghodchada, Dhanei and Darjang will cost Rs. 709·01 lakhs and will irrigate 3·04 lakh acres.

The foundation of Salandi irrigation project was laid on April 29, 1960. Estimated cost Rs. 4·65 crores; area to be irrigated 2,25,000 acres. The work on the project will be completed during the 4th Plan period.

Total irrigation potential created upto March 1961 (estimated): 13 mln. acres. Total area irrigated as a result of this newly created potential upto March 1961 (estimated): 10 mln. acres.

Percentage of utilization at the end of March 1961 (estimated): 76.

COMMUNITY DEVELOPMENT

(See under article on Community Development projects.)

PANCHAYATS

A three-tier system, viz. Grama Panchayats, Panchayat Samitis and Zila Parishads, at the Village, Block and District levels, respectively, is envisaged. Under the Orissa Gram Panchayat Act, 1948, Gram a Panchayats at Village level and Adalati Panchayats (for every circle) have already been established.

The Orissa Zila Parishads Act, 1959 has been enforced and 307 Panchayat Samitis covering the entire State have been constituted on Jan. 26, 1961. The Zila Parishads have also been constituted at the District level. The Zila Parishad will be a supervisory and advisory body and the Panchayat Samiti will be an executive body with functions, e.g. the execution of development works, management and control of primary education, etc.

BUDGET 1961-62

(*See Late Particulars*)

ASSOCIATIONS

THE BERHAMPUR CHAMBER OF COMMERCE, BERHAMPUR (Dt. Ganjam).—The Berhampur Chamber of Commerce was formed soon after the formation of Orissa State. It maintains a library and an information service, arranges commercial arbitrations and makes commercial opinion available to Government. It has about 171 members on its roll and publishes a monthly review.

President:—P. Parthasarathi, F.C.A.; *Vice-President*:—Agent, Messrs. Haji Jamal Nur Mahmed & Co.; *Secretary*:—I. Ramamoorti; *Joint Secretary*:—V. Kadareenathan Raju.

CUTTACK CHAMBER OF COMMERCE
Railway Dockyard, Cuttack 3.

President: B. Mahanti, *Vice-President*: H. Kassam, *Secy.*: G. N. Agarwala.

INDIAN POLITICAL SCIENCE ASSOCIATION
Ravenshaw College, Cuttack 3.*

President: Prin. S. V. Kogekar, Fergusson College, Poona. *Gen. Secretary and Treasurer*: Dr. S. A. H. Haqqi, Muslim Univ., Aligarh. *Managing Editor of the Journal*: Dr. C. J. Chacko, Delhi Univ., Delhi.

INSTITUTION OF ENGINEERS (INDIA
3-A, Cantonment, Cuttack 1.

MAYURBHANJ CHHOW NRUTIYA PRATISTHAN
Baripada.

President: S. N. Sharma, I.A.S., Dist. Magistrate; *Vice-President*: M. S. Nath, A.D.M.; *Secretary*: S. C. Das, M.A., B.L.

MUKTI KALA MANDIR
Bakharabad, Cuttack 2.

President: Muralidhar Mohanty; *Working President*: Baidyanath Rath; *General Secretary*: Bhupen Ghosh; *Treasurer*: Ranjit Singh.

NATIONAL MUSIC ASSOCIATION
Buxi Bazar, Cuttack 1.

President: Dr. Sadashiv Misra, M.A., Ph.D., Principal, Ravenshaw College, Cuttack; *Vice-Presidents*: J. B. Patnaik, M.A., J. N. Das, K. B. Prasad, B.A., LL.B.; *General Secretary*: Dr. Bibhuti Bhusan Tripathy, M.D. (Pharm.), M.D. (Med.), Asst. Prof. in Medicine, S. C. B. Medical College, Cuttack.

ORISSA CHAMBER OF COMMERCE AND INDUSTRY
Barbati Stadium, Cuttack 1.

President: N. K. Mohanty.
Vice-Presidents: S. N. Patnaik, B. Mohanty.
Hon. General Secy.: S. M. Agarwal.
Hon. Treasurer: K. G. Ghatak.
Secretary: P. C. Padhi.

ORISSA SAHITYA AKADEMI
P.O. Box 56, Bhubaneswar.

President: Padmasri Dr. L. N. Sahu, M.A., D. Litt.; *Secretary*: G. K. Brahma, M.A., D.Ed.; *Treasurer*: B. C. Das, M.A. (Pat.), B.A. (Hons.) (Lond.).

ORISSA SANGITA PARISADA
Chitrakara Lane, Puri.

President: Gangadhar Mohapatra; *Secretaries*: Gopinath Mishra, Ramnath Pujapanda.

UTKAL NATYA SANGHA
Regional Branch of Bharatiya Natya Sangh (T.C.I.).
K. V. K. Buildings, Cuttack 1.

Working-President: Bimal Chandra Ghosh; *General Secretary*: Babulal Doshi.

UTKAL SAHITYA SAMAJ
Sriramchandra Bhaban, Cuttack 1.

President: Dr. P. K. Parija (Vice-Chancellor, Utkal University); *Vice-President*: Dr. K. B. Tripathy (Prof., Ravenshaw College); *Secretaries*: B. N. Kar (Joint Editor, *Daily Matrubhumi*), Janaki Ballar Mohany (Lecturer, Ravenshaw College, Cuttack).

UTKAL SANGEET SAMAJ
Near Rasbehari Math, Cuttack 1.

President: Nimal Charan Das; *General Secretary*: Nadia Behari Mohanty; *Secretaries*: B. Ghosh, U. Mahapatra.

PUNJAB

(*See Late Particulars*)

* The office is now at Muslim University, Aligarh.

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RAJASTHAN STATE

Area : 132,147 sq. miles (according to Surveyor General); 131,943 * sq. miles (according to village papers).

Population (1961 census) : 20,146,093.

Capital : Jaipur.

Rajasthan is divided into 26 districts, 82 sub-divisions and 212 tehsils.

The following names of the Sub-divisions follow the names of the districts concerned. The names given in brackets are Headquarters of the Sub-divisions.

Ajmer :—Ajmer, Beawar, Kekri, Kishangarh.

Alwar :—Alwar, Behror, Rajgarh (Alwar), Tijara (Kishangarh).

Bharatpur :—Bayana, Bharatpur, Deeg, Dholpur.

Jaipur :—Amber (Jaipur), Dausa, Jaipur, Kotputli, Sambhar.

Jhunjhunu :—Jhunjhunu, Khetri, Nawalgarh.

Sawai Madhopur :—Gangapur, Hindaun, Karauli, Sawai Madhopur.

Sikar :—Fatehpur, Neem-ka-Thana, Sikar.

Tonk :—Malpura, Tonk.

Bikaner :—Bikaner North, Bikaner South.

Churu :—Rajgarh, Ratangarh.

Ganganagar :—Ganganagar, Hanumangarh, Karanpur, Nohar, Raisinghnagar.

Barmer :—Baltora, Barmer.

Jaisalmer :—Jaisalmer, Pokran.

Jalore :—Bhinmal, Jalore.

Jodhpur :—Jodhpur, Phalodi.

Nagaur :—Deldwana, Merta, Nagaur, Parbatsar.

Pali :—Bali, Jaitaran, Pali, Sojat.

Sirohi :—Abu, Sirohi.

Bundi :—Bundi, Nainwa.

Jhalawar :—Aklera, Jhalawar.

Kota :—Baran, Chabra, Chechat, Kota.

Banswara :—Banswara, Khushalgarh,

Bhilwara :—Bhilwara, Gulabpura, Mandalgarh, Shahpura.

Chittorgarh :—Begun, Chittorgarh, Kapasin, Nimbahera, Pratapgarh.

Dungarpur :—Dungarpur.

Udaipur :—Bhim, Phalasia (Udaipur), Rajsamand, Sarada, Udaipur, Vallabhnagar.

No. of village panchyats : 7,394 ; No. of tehsil panchayats 212 (as on Dec. 31, 1960).

Rajasthani in its various dialects is spoken all over the State. The common language is Hindi.

The switchover from English to Hindi in the Devnagri script in all Government offices in the State (except technical departments) was expected to be completed in April 1960. Trial by Jury has been abolished.

Among castes and tribes in Rajasthan are the Brahmins, Jats, Mahajans, Chamars, Rajputs, Meenas, Gujars, Bhils, Malis or Kachhis and Balais.

DISTRICTS & TEHSILS—AREA

See article "Population" for area and population of districts.

Districts showing within brackets the names and area in sq. miles of the tehsils in each district :

Ajmer District (Ajmer, 914 ; Beawar, 612 ; Kekri, 894 ; Arain, 215 ; Kishangarh, 245 ; Rupnagar, 204 ; Sarwar, 239).

Alwar District (Alwar, 705 ; Bansur, 256 ; Behror, 282 ; Lachhmangarh, 450 ; Rajgarh, 384 ; Thanagazi, 347 ; Kishangarh, 288 ; Mandawar, 223 ; Tijara, 264).

Bharatpur District (Bayana, 310 ; Rupbas, 213 ; Weir, 237 ; Bharatpur, 368 ; Nadabai, 173 ; Deeg ; 193 ; Kaman ; 284 ; Nagar ; 181 ; Bari, 395 ; Baseri, 385 ; Gird (Dholpur), 231 ; Rajakhera, 151).

Jaipur District (Amber, 402 ; Jamwa Ramgarh, 548 ; Baswa, 246 ; Dausa, 343 ; Lalsot, 325 ; Sikrai, 216 ; Bassi, 266 ; Chaksu, 362 ; Jaipur, 192 ; Sanganer, 306 ; Bairath, 451 ; Kotputli, 287 ; Dudu, 496 ; Phagi, 441 ; Phulers, 573).

Jhunjhunu District (Chirawa, 483 ; Jhunjhunu, 633 ; Khetri, 605 ; Udaipurvati, 601).

Sawai Madhopur District (Bamanwas, 267 ; Gangapur, 258 ; Nadoti, 240 ; Hindaun, 236 ; Mahwa, 186 ; Toda Bhim, 208 ; Karauli, 690 ; Sapotra, 501 ; Borli (Malarna), 418 ; Khandar, 416 ; Sawai Madhopur, 637).

Sikar District (Fatehpur, 413 ; Lachhmangarh, 460 ; Danta Ramgarh, 513 ; Neemkathana, 560 ; Sikar, 615 ; Sri Madhopur, 472).

Tonk District (Duni, 470 ; Malpura, 655 ; Toda Raisingh, 315 ; Aligarh, 358 ; Niwai, 398 ; Tonk, 575).

Bikaner District (Bikaner, 3,912 ; Lunkaransar, 3,143 ; Magra (Kolayat), 1,344 ; Nokha ; 1,320).

Churu District (Churu, 683 ; Rajgarh, 1,000 ; 781 ; Dungargarh, 463 ; Ratangarh, 396 ; Sardarsahar, 1,860 ; Sujangarh, 1,070).

Ganganagar District (Ganganagar, 539 ; Sadulgarh, 1,154 ; Suratgarh, 1,480 ; Karanpur, 317 ; Padampur, 324 ; Bhadra, 669 ; Nohar, 1,678 ; Anupgarh, 1,300 ; Raisinghnagar, 510).

Barmer District (Pachpadra, 1,284 ; Siwana, 760 ; Barmer, 4309 ; Chohtan, 1,532 ; Shiv, 2,448).

Jaisalmer District (Fatehgarh, 1,692 ; Jaisalmer, 3,620 ; Ramgarh, 2,800 ; Sam, 4,100 ; Nachna, 1,350 ; Pokran, 2,500).

Jalore District (Jaswantpur, 1,360 ; Sanchore, 1,219 ; Ahore, 802 ; Jalore, 750).

Jodhpur District (Bilara, 1,112 ; Jodhpur, 1,606 ; Shergarh, 1,700 ; Osian, 1,461 ; Phalodi, 3,127).

Nagaur District (Deedwana, 649 ; Ladnu, 487 ; Degana, 809 ; Merta, 808 ; Jayal, 896 ; Nagaur, 1,712 ; Nawa, 560 ; Parbatsar, 865).

Pali District (Bali, 834 ; Desuri, 710 ; Jaitaran, 519 ; Raipur, 414 ; Pali, 1,024 ; Karchi, 600 ; Sojat, 572).

Sirohi District (Abu Road, 304 ; Pindwara, 434 ; Reodhar, 473 ; Sheoganj, 345 ; Sirohi, 453).

Bundi District (Bundi, 316 ; Patan, 457 ; Talera, 509 ; Hindoli, 452 ; Nainwa, 439).

Jhalawar District (Aklera, 239 ; Bakani, 216 ; Khanpur, 329 ; Monoharthana, 223 ; Dag, 251 ; Gangdhar, 185 ; Jhalarpatan, 270 ; Pachpahar, 177 ; Pirawa, 399).

Kotah District (Anta, 207 ; Baran, 239 ; Kishanganj, 594 ; Mangrol, 174 ; Shahbad, 592 ; Atru, 330 ; Chabra, 310 ; Chinpabarod, 327 ; Chechat, 159 ; Kanvas, 270 ; Ramganjmandi, 134 ; Sangod, 197 ; Barod, 160 ; Digod, 189 ; Itawa, 148 ; Ladpura, 558 ; Pipalda, 294).

Banswara District (Banswara, 440 ; Gadhi, 271 ; Gatole, 498 ; Bagidora, 328 ; Khushalgarh 409).

Bhilwara District (Banera, 282 ; Bhilwara, 359 ; Mandal, 475 ; Raipur, 210 ; Sahara, 228 ; Asind, 431 ; Hurda, 254 ; Kotri, 368 ; Mandalgarh, 610 ; Jahazpur, 427 ; Shahpura 404).

Chittorgarh District (Begun, 381 ; Bhainsrorgarh, 634 ; Chittorgarh, 326 ; Gangral, 279 ; Rashmi, 187 ; Kapasin, 200 ; Barisadri, 214 ; Bhadesar, 236 ; Chhotisadri, 268 ; Dungla, 230 ; Kanera, 86 ; Nimbahera, 207 ; Achhanara, 226 ; Partapgarh, 671).

Dungarpur District (Aspur, 288 ; Dungarpur, 689 ; Sagwara, 483).

Udaipur District (Bhim, 229 ; Deogarh, 262 ; Kotra, 704 ; Phalasia, 579 ; Amet, 194 ; Kumbhalgarh, 348 ; Railmagra, 219 ; Rajsamand, 229 ; Kherwada, 414 ; Salumber, 395 ; Sarada, 397 ; Girwa, 665 ; Gogunda, 346 ; Nathdwara, 359 ; Bhopalsagar, 158 ; Lasadia, 562 ; Mavli, 299 ; Vallabhnagar, 418).

Note : Area (1956) : Reported by Board of Revenue (Land Records), Rajasthan.

BUDGET FOR 1961-62

(*See under Late Particulars*)

MINERALS

Rajasthan is an important mineral and building stone producing State. It ranks next to Bihar in Mica which is chiefly found in Ajmer, Udaipur, Bhilwara and Jaipur Districts.

The non-metallic minerals are Silica sand, Felspar, Asbestos, Barytes, Clays, Emerald, Fuller's earth, Bentonite, etc. The metallic minerals are lead, zinc, silver ore, iron ore and manganese ore. Lead concentrates and zinc concentrates are prepared at Zawar mines in Udaipur. Appreciable tonnage of iron and manganese ores has also been produced. The State is the sole supplier of gypsum for fertiliser manufacture to Sindri plant.

Lignite (coal) is mined near Palana in Bikaner District. There are vast deposits of high quality building stones such as marbles, sandstones and limestones. Limestone is used for the manufacture of cement at Lakheri and Sawai Madhopur and for lime at a number of places. Marble quarried at Makrana in Nagaur District is famous as building stone.

Large resources of sodium sulphate and salt also occur at Deedwana and Sambhar lake. Uranium deposits have been found at Umra and Udaisagar in Udaipur District.

Production in thousand tons of some important Minerals in 1959 : Coal (Lignite), 24·43 ; Metallic minerals : (*a*) Ferrous (i) Iron ore 84·29, (ii) Manganese ore 5·83 ; (*b*) Non-ferrous (i) Lead (concentrate) 7·33, (ii) Zinc (concentrate) 10·64 ; Non-Metallic minerals : Asbestos 1·14 ; Barytes 1·68 ; Calcite 5·86 ; Emeralds (Sold) † 0·05 ; Felspar 5·99 ; Garenet 0·36 ; Dolomite 5·98 ; Graphite 0·05 ; Fuller's earth 6·00 ; Glass Sand 16·67 ; Gypsum 741·63 ; Kyanite 0·05 ; Mica cut 98·80 ; Selenite 0·04 ; Soapstone 52·72 ; Building materials : Quartz 5·36 ; Marble 28·97 ; Bentonite 3·05 ; Limestone (for cement making) 1,417·30 ; Lime stone (for lime making) 173·70 ; Dimensional stone 2,142·69; Phyllites & Quartzites 228·00 ; Kankar Bajri, Mohrum 1,715·70 ; Masonry Stone 553·00 ; Brick earth 586·79 ; Sand stone 592·21 ; Building stone 503·82 ; Ordinary clay 4·28.

INDUSTRIES

Among the large-scale industries of Rajasthan, cotton textile, cement, glass and sugar are important. There are seven cotton textile mills (working), 2 cement factories, 1 glass factory and 2 sugar mills (working) in the State. The industrial production of some commodities during 1959 was as under :—

Cloth—lakh kg. : 64 (474 lakh metres) ; Yarn—lakh kg. : 135 ; Glass—Metric tonnes : 841 ; Cement—lakh metric tonnes : 9·3 ; Salt —lakh metric tonnes : 3·1 ; Ball Bearings—No. in '000 : 1658·4 ; Electric metres—No. in '000 : 100·5 ; Sugar (1957-58)—'000 metric tonnes : 7·2 ; Sodium Sulphate—lakh metric tonnes (1957-58) : 1·1 ; Foreign Spirit—'000 litres : 257·8 ; Rectified Spirit—'000 Litres : 957·4 ; Denatured Spirit— '000 Litres : 74·1 ; Country Spirit—'000 L. P. Gal. 382·8.

The most important cottage and small-scale industries are Tie and Dye Fabrics, Gota Kinari (Silver and Gold laces), wooden toys, Handmade paper, Papier Mache toys, Gem cutting, cloth printing, manufacture of agricultural tools and implements, Embroidered shoes (Jutiyan) and leather bags, water bottles (Badlas) and handloom weaving.

* Provisional.

† Thousand pounds.

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AGRICULTURE

Main Food Crops of the State: Cereals—Bajra, Jowar, Wheat, Maize, Barley, Small millets, Rice; Pulses: Gram, Tur, other Rabi pulses, other Kharif pulses.

Main cash crops of the State: Oilseeds: Sesamum, Rape and Mustard, Linseed, Groundnut; Cotton, Sugarcane, Tobacco, Chillies, Potatoes.

Production of principal food crops in '000 metric tonnes and area in '000 hectares for the year 1958-59 respectively are as follows:—

Cereals: Bajra 9,88; 40,02; Jowar 3,35; 10,89; Wheat 10,49; 11,87; Maize 5,41; 5,80; Barley 6,12; 5,39; Small Millets 37; 85; Rice 85; 79.

Pulses: Gram: 11,40; 15,55; Tur 4; 17; Other Rabi pulses: 8; 18; Other Kharif pulses: 3,55; 16,71.

Oilseeds: Sesamum: 1,16; 4,88; Rape & Mustard: 79; 291; Linseed: 27; 1,21; Groundnut: 47; 68.

Cotton: N.A.; 2,10; Sugar cane: 4,42; 20; Tobacco: 3; 6; Chillies: 11; 19; Potatoes: 4; 1.

Fish: Variety of Fish produced: There are large numbers of tanks, lakes and rivers in which inland fishes are found. The main species are the major carps, *viz.* Rohu, Migal, Kalbasu and Katla; Minor carps, *viz.* Mahaseer; Cat Fishes: Launchi and Seenghara; Live Fish: Sol, Magur and Singhi.

Revenue obtained during 1959-60 by way of public fish auctions was, Rs. 3·13 lakhs.

The Central Mechanised Farm, Suratgarh: The Central Mechanised Farm at Suratgarh in Rajasthan came into operation on Aug. 15, 1956. The farm was set up with the help of a Rs. 7·8 million worth gift of agricultural machinery to constitute a standard compact unit (including 69 tractors, 75 ploughs, 50 cultivators, 80 seed drills, 500 harrows, 60 harvestor/combines etc. and 15 trucks, 4 bulldozers, 2 jeeps and 2 passenger cars, etc. from Russia.

Suratgarh covers 30,670 acres including 23,355 acres of waste land. This area consists of 18,300 acres of good land, 4,800 acres of easily reclamable alkali land, and 7,500 acres of difficult land with a high salt content. On the whole, the land is alluvial and flat, and therefore reclamation is not difficult. It gets perennial water for irrigation from Bhakra. Adequate communication and transport facilities exist. The land has been taken over by the Central Government on lease for 15 years, initially.

The farm employed about 200 ex-servicemen initially; now its worker strength is about 500. The acreage sown in different years, the outturn and their value are as follows:—

Period	Area sown in acres		Total outturn (in maunds)	Value of the products (in rupees)
	Rabi	Kharif		
1956–57 ..	2,993·29	..	20,793	4,43,650
1957–58 ..	2,484·00	1,864·00	18,093	2,90,100
1958–59 ..	11,230·25	2,923·55	147,084	..
1959–60 ..	15,843·75	6,989·05	..	..

Horticultural and Animal Husbandry projects have been taken up on a pilot project scale since 1959-60. When fully developed, the farm will have 22,000 acres under crops, 2,000 acres under orchards and 1,500 acres under animal husbandry projects.

COMMUNITY DEVELOPMENT AND NATIONAL EXTENSION SERVICE

(See article on Community Development Projects).

FORESTS

(See article on Forests).

LIVESTOCK

Number of Veterinary Hospitals (1959): 64 and dispensaries (1959): 111.
Artificial Insemination Centres: 14.
Key Village Centres: 80.
Mobile dispensaries: 12.
Mass Immunisation Centres: 7.
Total livestock population: 335·36 lakhs (April 1961)

(See also article on Livestock).

LAND TENURE

Land Tenure Systems in the State:

There are three kinds of land tenure in the State *viz.*, Ryotwari, Jagirdari and Zamindari.

The Rajasthan Tenancy Act aims at introducing a uniform Tenancy Law for the whole of the State and will remove the diversity of conditions prevailing in different parts of Rajasthan in respect of Land Tenures and relations of tenants and landlords or tenants and Government.

The Rajasthan Land Reforms and Resumption of Jagirs Act, 1952 was enacted for the resumption of Jagir Lands, with the exception of jagirs utilised for the maintenance of any place of religious worship or for the performance of religious service. An Amendment was enacted in 1954. It contains provisions for allotment of Khudkast land to Jagirdars and removes the exemption from resumption to Jagirs with annual income below Rs. 5,000. It provides for a scale of compensation including rehabilitation grant.

The Act came into force from 18th February 1952. Resumption of Jagirs was started immediately after the Amendment Act was passed on 15th June 1954. This Act was further amended and the Rajasthan Cash Jagirs Abolition Act, 1958 was passed with a view to abolishing certain classes of cash jagirs.

The number of jagirs thus resumed is 2,43,157 with an estimated annual income of Rs. 437 lakhs. The total estimated rental income of all jagirs is Rs. 3·39 crores. Of an estimated total of Rs. 34·39 crores payable as compensation in 15 annual instalments, a sum of Rs. 684·56 lakhs was paid as final compensation to 12,181 jagirdars during 1959-60.

Steps have been taken to resume all the settled zamindaris and biswedaris in the State. Besides, all religious jagirs having a rental income of more than Rs. 5,000, totalling 48, were resumed by the end of March 1960.

Source of acquisition of compensation money: From the annual income of resumed jagirs, surplus funds if required, are paid out of the Exchequer of the State.

The Bhoodan Yagna Act was passed in 1954 and the Bhoodan Yagna Board created by it started functioning in January 1955. During 1959 the Board received 3,369 acres of land from as many as 37 donors. It has distributed 17,277 acres of land among 1,224 families.

PANCHAYATS

Under the Rajasthan Panchayat Samitis and Zila Parishads Act, 1959, 232 Panchayat Samitis and 26 Zila Parishads have been set up in all the blocks and districts of the State respectively.

The Panchayat Samitis are the executive bodies with wide powers including those for formulating and executing the development programmes, and for imposing taxes. The Zila Parishads are the supervisory and coordinating bodies.

IRRIGATION

Area irrigated more than once (1958): 698,000 acres.

Names of irrigation projects in operation in the respective divisions showing the area irrigated in acres (1957-58):

Udaipur Division: Madar 537; Fateh Sagar Lake with channels 550; Swaroop Sagar and Pichola with channels 249; Bhupal Sagar Tank 2,290; Jaisamand Lake 12,325.

Kankroli Division: Rajsamand 4,877; Nahar Sagar 4,804; Ummed Sagar 5,314.

Kotah Division: Ummed Sagar tank including Ramgarh Canals 5,064; Parvati Canals 8,985.

Jaipur West Division: Chapperwara 4,272; Kalakho Sagar 6,568; Toti Sagar 5,106.

Jaipur East Division: Sainthal Sagar 2,116; J. Ramgarh 13,125; Mansarowar 1,453; Galia Sagar 185; Dhil 4,729.

Jawai Division: Jawai 17,387; Jaswant Sagar 1,506; Sardar Samand 3,009.

Matsya Division: Sikri 21,426; Jaisamand 4,777; Mangalsar 300; Boochara 550; Ajan Bund 19,710; Pichuna Canal 8,477; Ramsagar Tank & Canal 6,574; Urmila Sagar Tank & Canal 4,919; Talshani Tank and Channel 700.

Ganganagar Division: Gang Canal 712,806.

In 1959-60 three major canals namely Gang Canal, Bhakra and Ghaggar irrigated 8·27 lakh acres, 3·53 lakh acres and 0·17 lakh acres of land respectively.

Irrigation works under the Second Five-Year Plan:

Multi-purpose schemes showing within brackets the location, estimated cost and area to be irrigated on completion: Bhakra Nangal* (Ganganagar District; Rs. 2,275·00 lakhs; 570,000 acres); Works in Rajasthan (Rs. 447·39 lakhs); Share of common works (Rs. 1,827·61 lakhs); Chambal Project (Kota and Bundi, Rs. 3,414·25 lakhs; 700,000 acres); Kota Barrage, Rs. 382·55 lakhs; Right main canal, Rs. 1,046·09 lakhs; Left canal, Rs. 219·44 lakhs; Rana Pratap Sagar dam, Rs. 1,766·17 lakhs.

Major and medium works showing the cost in lakhs of rupees, expenditure during 1956-59 in lakhs of rupees and the annual irrigation in acres on completion respectively: Banas 480·00; N.A.; 225,000; Jhakham 117·00; 2·47; 53,000; Mahi 315·76; N.A.; 70,000; Berach Badgaon 63·77; 0·04; 18,290; Berach V. Nagar 49·47; N.A.; 14,000; Wagan 64·95; N.A.; 20,900; Alnia 35·45; 0·22; 11,800; Sabi 25·00; N.A.; 46,000; Khari Feeder 20·00; N.A.; 8,000; Khari Storage 30·00; N.A.; 8,000; Bandi 26·00; N.A.; 8,000; Sukli 18·00; N.A.; 8,000; West Banas 48·75; 0·50; 13,364; Sawan Bhadon 11·00; 0·01; 10,000; Narayan Sagar 38·13; 0·13; 8,000; Bharatpur Feeder from Agra Canal 14·76; 0·06; 18,000; Parbati 87·10; 24·47; 37,000; Meja 95·00; 23·18; 37,000; Gudha 42·35; 21·06; 36,700; Jawai 300·00; 15·83; 48,000.

Names of other schemes, expenditure during 1956-59 in Rs. lakhs, irrigation benefits in acres on completion and estimated cost of each project respectively:

Continuing Schemes:—Kalisil 16·00; 4·52; 14,000; Morel 41·00; 5·92; 34,000; Jugar 19·50; 0·87; 9,000; Lodisarka Naka 14·29; 8·90; 6,940; Bagolia 11·90; 2·35; 6,680; Gambheri 44·23; 19·08; 33,300; Sareri 38·43; 18·48; 19,500; Arwar 34·83; 17·19; 20,800; Khari 30·41; 20·15; 26,100; Namona Canal

* Irrigation already started.

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30·82; 29·09; 13,000; Ora 14·96; 7·31; 8,900; Galwa 20·82; 7·78; 16,600; Mashi 22·39; 13·74; 12,800; Parwan 11·20; 6·69; 30,000; Kalisindh 13·92; 10·27; 30,000; Bhimsagar 18·19; 3·41; 16,000; Minor irrigation works 276·30; 86·68; 2,12,000.

Number of wells constructed during the First Five-Year Plan: 25,000.

Number of wells constructed during the Second Plan: 35,220 (by the year ending Sept. 1960).

Total area irrigated as a result of this newly created potential during 1959-60: 683,750 acres.

Famine hit 4,000 villages in the State as a result of the failure of both *Kharif* and *rabi* crops, because of monsoon failure last year (1960).

The State was expected to produce five million tons of food grains during the year 1961.

Rajasthan Canal

Rajasthan Canal Construction: The construction work of the Rajasthan Canal, which is being done from the Harike barrage across the Sutlej, was started in April 1959 near Hanumangarh. The present work relates to earth work, compaction, lining and masonry.

The Rajasthan Canal, which is a Second Five-Year Plan project, outside State plan ceiling, will have a discharge of 18,500 cusecs at the head. About 425·8 miles in length, it will benefit extensive areas in Ganganagar, Bikaner and Jaisalmer Districts of Rajasthan State. The project will be developed in two stages. The length of the branch canals cover a distance of 400 miles and the distributaries 2,000 miles.

The main canal will be in two parts (*a*) Rajasthan Feeder 134·2 miles long (110·8 miles in Punjab and 23·4 miles in Rajasthan); (*b*) Rajasthan Canal 291·6 miles long lying entirely in Rajasthan territory.

Estimated to cost Rs. 66·47 crores* for unlined canal, the canal will provide irrigation facilities to a gross area of 6·8 million acres, with a total culturable commanded area of 5·8 million acres (by flow). On full development the area irrigated annually will be about 3·629 million acres, yielding about 2·7 million tons of crops annually valued at Rs. 66 crores.

The building of this canal will involve 10,000 million cft. of earthwork and 400 million sq. ft. of lining for the main canal only and will create employment for over half a lakh of people during construction period. The project will bring under irrigation a large desert area.

About 50,000 men are working round the clock over the 37-mile stretch of the canal in Rajasthan. Earthwork in 23 miles of the feeder, scheduled to take in water in June, is almost complete (March 1961). Work is also in progress on Naurangdasar and Rawatsar distributaries which are expected to start irrigating about 27,000 acres from the next Kharif season.

Direct revenue from this project after full development of the area in the pre-storage period will be about Rs. one crore by way of water rates only. Betterment levy will bring to the exchequer Rs. 45 crores and sale of Government waste land another Rs. 67 crores. Indirect revenue such as rise in income from income-tax, excise, posts and telegraphs, railway, etc. will also be considerable.

POWER PROJECTS

Installed capacity (1959): 57,750 kW.

Position in 1959: (in thousand K.w.h.).

Electricity Generated: Steam or Gas—66,218; Diesel—34,276.

Electricity purchased from non-electric utilities—187.

Total electricity generated and purchased—1,00,681.

Electricity sold as percentage of electricity generated—71·8.

K.w.h. generated and purchased per thousand of population—6,304.

K.w.h. generated and purchased per square mile—763.

Electricity Consumption:—Domestic or residential: 1) Heating and small power—1,668,000 K.w.h.(2) Lights and Fans—160,14,000 K.w.h.

Commercial:—(1) Heating and small power 27,02,000 K.w.h. (2) Lights & Fans 90,62,000 K.w.h.

Industrial Power:—(1) Low & Medium Voltage 215,16,000 K.w.h. (2) High Voltage 17,43,000 K.w.h. Public lighting 37,71,000 K.w.h.; Irrigation and Agricultural Dewatering 21,56,000 K.w.h; Public water works and Sewage Pumping 200,23,000 K.w.h.

At the end of 1959-60 in addition to the 26 Government-owned power houses there were privately-owned power houses at the following places: Bundi, Udaipur, Pali, Rajgarh, Abu Road, Bhawani-mandi, Ladnu, Nawalgarh, Pratapgarh, Banswara, Hanumangarh, Suratgarh, Garhi, Nathwara, Pilani, Merat, Kuchaman, Ajmer and Beawar.

The schemes of rural and urban electrification provide for the installation of diesel and steam generating sets providing 5,391 kW installed capacity along with transmission and distribution lines for 270 miles by the end of the Second Plan.

Bhakra Nangal Project: A total firm power amounting to 105,000 kW would be available for Rajasthan in the post-Bhakra Stage. Share of Rajasthan in the Bhakra Nangal Project is 15·2 per cent. The share of Rajasthan during the Second Plan amounts to 16,437 kW.

The total capital cost upto the end of 1963-64 of the whole project for Rajasthan would be about Rs. 829 lakhs.

Estimated rise in output after completion: 15,000 kW by the end of the 10th year of operation. For more details see Bhakra-Nangal under article "Irrigation."

The following places will get electricity from Bhakra Nangal project: Rajasthan grid substation at Rajgarh, Gajsinghpur, Kesrisinghpur, Karampur, Raisinghnagar, Hanumangarh, Sangria Mandi and Suratgarh; also all important points in Sri-Ganganagar and Bikaner districts. Four towns *viz* Sriganganagar, Sadulshahar, Hanumangarh, Hanumangarh fort had received Bhakra Power by the end of the Second Plan period.

Chambal Hydro-Electric Scheme: It is a multi-purpose scheme and will serve 29 localities in Rajasthan. The project has been divided into three stages. The first stage will comprise the Gandhi Sagar Dam and the Kota Barrage and a net-work of canals on either side of the barrage for irrigating 11 lakh acres in Madhya Pradesh and Rajasthan. Power generation in the 1st stage will be 75,000 kW and the total area to be irrigated would be 5·5 lakh acres in Rajasthan. The revised cost of stage I is estimated at Rs. 63·59 crores. For more details see under "Irrigation".

The first hydro-electric unit of the project was expected to start generating electricity from August 1960.

The project will be financed by the Madhya Pradesh and Rajasthan Governments.

CO-OPERATION

(See main article on "Co-operative Movement").

MEDICAL & PUBLIC HEALTH

Kinds of Hospitals: Figures for 1959: *T.B. Hospitals:* (*i*) Sanatorium 1; (*ii*) Hospitals 4; (*iii*) Clinics** 9; (*iv*) Wards in other hospitals 3; *Maternity:* (*i*) Hospitals 3; (*ii*) Wards in ladies & other hospitals 29; (*iii*) Maternity & child welfare centres 65; *Leprosy hospitals:* 2; *Mental hospitals:* 2; *Isolation:* (*i*) Hospitals 2; (*ii*) Wards in other hospitals 7; *Other hospitals:* 244; *Dispensaries:* 207.

In 1959, there were 1,278 doctors, 901 nurses, 700 midwives including untrained dais, 2,085 compounders, 253 sanitary inspectors and malaria surveyors, 122 vaccinators and 181 health visitors.

There were in 1959, 15 Ayurvedic and Unani hospitals, 204 beds, 1,059 Ayurvedic and Unani dispensaries, 1,107 vaidyas, 22 hakims, 775 compounders and nurses. During 1958-59, 10,048,330 out-patients were treated.

Patients treated in Government Medical Institutions (Allopathic) (1959) indoor 176,854; outdoor 9,419,650.

There are two medical colleges, the Sawai Mansingh Medical College at Jaipur and the Medical College, Bikaner.

TRANSPORT

Position in 1958-59†

Total length of roads in Kilometres: 25,544.

Cement Concrete roads: 40 Kilometres.

Painted roads: 5,557 Kilometres.

Metalled roads: 6,353.

Gravelled roads: 5,131.

Fair weather and dressed up tracks: 8,463.

Total number of Aerodromes: 5.

Total vehicles (1959): 28,703‡

Number of private cars and jeeps 10,704; Private buses 381; Motor cycles and tricycles 2,339; Taxis, cabs and contract carriages 198; Stage carriages 3,923; Public carriers 6,173; Private carriers 1,057; Tractors 3,608; Others 320.

LABOUR (1959)

Number of registered factories: 492.

Number of registered trade Unions in State: 249.

Total membership: 48,725.

Industrial Disputes: Disputes 26; Workers involved 5,200; Man-days lost 31,944.

Accidents (enquired into): Fatal 1; Non-Fatal 765.

Workmen's compensation: cases decided 80; amount paid Rs. 33,793.

Employees' Provident Fund Scheme: No. of factories covered 44; Workers benefited 20,650; contribution from the workers Rs. 18,33,934.

Labour Welfare Centres have been opened at 22 places namely Jaipur, Bhilwara, Pali, Sri Ganganagar, Sawai-Madhopur, Kota, Jodhpur, Udaipur, Chambal, Bikaner, Bundi, Bijaynagar, Tonk, Beawar, Lakheri, Ajmer, Kekri, Makrana, Ramganjmandi and Dholpur.

No. of labourers benefited: 30,969.

No. of children benefited: 15,999.

No. of factories covered by State insurance: 90.

No. of workers insured: 29,402.

Fourteen Employment Exchanges function at Jaipur, Udaipur, Jodhpur, Kotah, Bikaner, Bhilwara, Ajmer, Alwar, Bharatpur, Sawai-Madhopur, Sri Ganganagar, Sirohi, Tonk and Pali.

Number of applicants on live register at the end of 1959: 43,180. Registration during 1959: 109,597. Placings during 1959: 21,886.

EDUCATION, 1957-58

(*See under main article on Education for more statistics.*)

Social Education: (1957-58):

Centres for social education: 1,052.

Number of adults under training: 42,576.

Elementary education is not compulsory. It is free throughout the State.

Place of language in the education system: Regional language is not in force. Hindi is compulsory. English is compulsory after VI. Hindi is the medium of instruction.

* Revised proposals under consideration. ** One clinic is treated as hospital. † At the end of the year. ‡ Provisional.

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FIVE-YEAR PLANS

The total allotment for the Second Five-Year Plan for Rajasthan State : Rs. 105·27 crores. Plan allotment for 1956-59 : Rs. 62·11 crores. Expenditure during 1956-59 : Rs. 49·35 crores. Allotment for 1959-60 : Rs. 24·05 crores ; expenditure during 1959-60 : Rs. 21·94 crores.

On May 21, 1960 the Rajasthan Government took a step forward in democratic decentralisation, introduced on October 2, 1959, by entrusting the formulation of the State's Third Five-Year Plan to village bodies. The newly-created Panchayat Samitis, in consultation with Panchayats and Gaon Sabhas, will draw up their block plans which will be co-ordinated at the district level and then passed on to the State Government for finalisation.

Third Plan : The total outlay for Rajasthan for the 3rd Plan has been fixed at Rs. 236 crores. During the Plan, a target of 16 lakh tons of additional food production has been proposed. The State is already surplus in food grains. A new university is also proposed to be established.

JAIPUR MUNICIPALITY

Jaipur

The Municipal Council was superseded and an Administrator was appointed on July 17, 1958 and is still under administrator's rule.

The Municipality's revenue and expenditure figures for 1960-61 are respectively Rs. 54,71,473 and Rs. 54,47,285.

Administrator : Himat Singh, I.A.S.
Municipal Commissioner : Shiv Ram Jain, R.A.S.
Health Officer : Madan Gopal Mathur.
Municipal Engineer : D. K. Kripalani, B.E. Civil.
Revenue Officer : Mohan Lal Sharma, B.Com.
Auditor : Dharam Chand Jain.
Accountant : Hem Dutt Mathur.
Office Supdt. : Deep Chand Balodia.

UNIVERSITY OF RAJASTHAN

Jaipur

Chancellor

Gurumukh Nihal Singh, Governor of Rajasthan.

Vice-Chancellor

Dr. Mohan Sinha Mehta, M.A., LL.B., Ph.D. Bar-at-law.

Registrar, K. L. Varma, M.A.

Total number of colleges affiliated to the University : 64.

Total number of male students in 64 colleges at the end of the Session 1959-60 : 17,897.

Total number of female students in 64 colleges at the Session 1959-60 : 3,342.

LIST OF AFFILIATED COLLEGES

Maharaja's College, Jaipur ; Maharani's College, Jaipur ; Commerce College, Jaipur ; Rajasthan College, Jaipur ; Birla College of Arts, Pilani ; Birla College of Science and Commerce, Pilani ; Seth G. B. Podar College, Nawalgarh ; Jaswant College, Jodhpur ; Dungar College, Bikaner ; Lohia College, Churu (Bikaner Division) ; Maharana Bhupal College, Udaipur ; Government College, Kotah ; Raj Rishi College, Alwar ; M. S. J. College, Bharatpur ; S. K. N. Government College of Agriculture, Jobner (Jaipur Division) ; Maharaj Kumar College, Jodhpur ; Government College, Sri Ganganagar (Bikaner Division) ; Teachers' Training College, Bikaner ; Vidya Bhawan Govindram Seksaria Teachers' Training College, Udaipur ; Basic Teachers' Training College, Sardarshahr ; Sawai Mansingh Medical College, Jaipur ; Birla Engineering College, Pilani ; Mugne Ram Bangur Memorial Engineering College, Jodhpur ; Shree Swarup Govind Pareek College, Jaipur ; B. J. S. R. Jain College, Bikaner ; M. S. College for Women, Bikaner ; Rajmahal Girls' College, Jodhpur ; Rajasthan Mahila Vidyalaya, Udaipur ; Government College, Bhilwara ; Government College, Sirohi ; Shri Jain College, Bikaner ; Agarwal College, Jaipur ; Rajasthan College of Veterinary Science and Animal Husbandry, Bikaner ; Rajasthan College of Agriculture, Udaipur ; Shramjivi College (Night Degree College), Rajasthan Vidyapeeth, Udaipur ; Government College, Ajmer ; Savitri Girls' College, Ajmer ; D. A. V. College, Ajmer ; S. D. Government College, Beawar ; Government Teachers' Training College, Ajmer ; Banasthali Vidyapeeth, Banasthali (Jaipur) ; Bangur College, Didwana ; Shri Rajendra College, Jhalawar ; Maharani's Girls' College, Kotah ; Government College, Banswara ; S. K. College, Sikar ; S. P. U. College, Falna ; Seth Motilal College, Jhunjhunu ; Chirawa College, Chirawa ; Sophia Girls' College, Ajmer ; Government Girls' College, Udaipur ; Government College, Bundi ; Government College, Kishangarh ; Government College, Tonk ; Seth G. L. Bihani S. D. College, Sri Ganganagar ; Seth P. R. Saharia College, Kaladera ; S. G. N. Khalsa College, Sri Ganganagar ; Sharda Sadan College, Mukundgarh ; Government Inter Girls' College, Sri Ganganagar ; Government Inter College, Sardarshahr ; S. S. Jain Subodh Inter College, Jaipur ; Government Inter College, Dausa ; Rajasthan Vidyapeeth, Udaipur ; Udaipur School of Social Work ; Bikaner Medical College, Bikaner.

LIST OF UNIVERSITY TEACHING DEPARTMENTS

University Department of Economics & Public Administration, Jaipur ; University Department of History, Jaipur ; University Department of Philosophy, Jaipur ; University Department of Geology, C/o M. B. College, Udaipur ; University Law College, Jaipur ; University Department of Mathematics, Jaipur ; University Department of Physics, Jaipur ; University Department of Chemistry, Jaipur ; University Department of Zoology, Jodhpur ; University Department of Botany, Jodhpur ; University Department of Library Science, Jaipur ; University Department of Foreign Languages, Jaipur.

COMMERCIAL, EDUCATIONAL, RELIGIOUS SOCIETIES, INSTITUTIONS, Etc.

AJMER MUSIC COLLEGE

Malpua Road, Ajmer.

Classes upto post-graduate course. Affiliated to the Indira Kala Sangeet Vishwavidyalaya, Kariagarh (M.P.).

President : Sir Bhag Chand Soni ; *Secretary :* M. C. Saxena ; *Principal :* Govindrao Rajurkar.

BANASTHALI VIDYAPITH

P.O.Banasthali Vidyapith.

President : R. R. Diwakar ; *Working President :* Pandit Hiralal Shastri ; *General Secretary :* Smt. Ratan Shastri ; *Education Secy. :* Prem Narain Mathur ; *Secy., Standing Cttee. :* Prakash Chandra Goyal.

BASKETBALL FEDERATION OF INDIA

C/o Nagina Bagh, Ajmer.

President : V. N. Kak ; *Hony. Secretary :* R. N. Vaikuntam ; *Hony. Treasurer :* K. Parmeswaram Pillai.

BHARTIYA LOK KALAMANDAL

Udaipur.

President : R. R. Diwakar ; *Director :* D. L. Samar ; *Working President :* P. P. Singhal ; *Vice-President :* G. D. Somani ; *Organising Secretary :* R. L. Shah.

BIKANER VYAPAR MANDAL

K.E.M. Road, Bikaner.

President : Makhan Lal Damani ; *Vice-President :* Shankarlal Biyani ; *Secretary :* Dusyant Gupta.

BIKANER WOOL TRADERS ASSOCIATION

Near Daga High School, Bikaner.

President : Chajpalal Byas ; *Vice-President :* Chhotulal Kalla ; *Secretary :* Jugal Kishore Agarwal.

CENTRAL ARID ZONE RESEARCH INSTITUTE

Rai-ka-Bagh Palace, Jodhpur.

Director : Dr. P. C. Raheja.

CHAMBER OF COMMERCE & INDUSTRY

Bharatpur.

President : Yad Ram Chaturvedi ; *Vice-Presidents :* Hari Charan Lal ; Moti Lal Arora ; *Secretaries :* R. N. Chaturvedi, L. S. Gupta.

THE CHAMBER OF COMMERCE

Sadar Bazar, Bundi.

CHAMBER OF COMMERCE

Bara Bazar, Udaipur.

DIVISIONAL CHAMBER OF COMMERCE & INDUSTRY

Bahadur Bazar, Kota.

President : Ghasi Lal ; *Secretary :* Ram Kalyan Malviya.

THE FAMILY PLANNING ASSOCIATION

The Domes, Ajmer.

President : Mrs. S. P. Wanchoo ; *Hon. Gen. Secretary :* Dr. Marian B. Hall ; *Treasurer :* A. J. Bijlani.

INDIAN SOCIETY OF HAEMATOLOGY

Bungalow No. 13, Opp. Mental Hospital, Adarsh Nagar, Jaipur, Rajasthan.

President : Dr. C. R. Das Gupta ; *Vice-President :* Dr. J. G. Parekh ; *Secretary :* Dr. Soonu B. Vyas.

INSTITUTION OF ENGINEERS (INDIA)

C-46, C Scheme, Jaipur.

JAIPUR CHAMBER OF COMMERCE AND INDUSTRY

Johari Bazar, Jaipur City.

President : Kanhaiyalal Tiwari ; *Vice-President :* P. D. Bhaiya ; *Hony. Secretary :* B. L. Ajmera ; *Treasurer :* Kushalchand Surana.

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JODHPUR BULLION MERCHANTS ASSOCIATION LTD.

Khejerla House, Jodhpur.

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President : I. C. Ghosal ; *Hon. Secretary :* C. M. Agrawal ; *Hon. Treasurer :* N. L. Kabra.

MAHA BODHI ASHOKA MISSION

Dhamma Kuti, Buddha Vihara, Mayo Link Road, Ajmer.

The Institution conducts a journal entitled *Samyak Dristi* (Right View)—The trilingual International monthly. (*Editor :* Mrs. Quin Moi Rahula.

Founder Director : Rahula Suman Chhawara. *General Secretary :* Mrs. Quin Moi Rahula. *Treasurer :* Nathu Singh Rathore.

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Birla College, Pilani.

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RAJASTHAN BIDI WORKERS' FEDERATION
Sadar Bazar, Bundi.

RAJASTHAN CHAMBER OF COMMERCE AND INDUSTRY
Johari Bazar, Jaipur City.

This is the most representative Chamber in Rajasthan to which all other Divisional Chambers & Trade Associations in this State are affiliated.

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RAJASTHAN INDUSTRIAL AND MINING ASSOCIATION
Pusa Nivas, Bhilwara.

RAJASTHAN LALIT KALA AKADAMI
260-D, Bani Park, Jaipur.

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RAJASTHAN SHIKSHAK SANGH
Janki Niwas, 1-B, Sardarpura, Jodhpur.

An organisation of primary, secondary and university teachers of Rajasthan.

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Power House Road, Jaipur.

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Rare Sculptures, Architectural carvings, old coins, interesting epigraphs, Rajput paintings, arms and armour of Rajasthan.

Superintendent : U. C. Bhattacharya, M.A.

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SAHITYA SANSTHAN, RAJASTHAN VIDYAPEETH
Near Town Hall, Udaipur.

Chancellor : Suniti Kumar Chatterjee ; *Pro-Vice-Chancellor :* Janardan Ray Nagar ; *Director :* Giridhari Lal Sharma.

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Activities : Sans College, Secondary School, Bal Mandir, Kala Niketan, Rashtra Bhasha College, Ayurvedic Deptts., etc.

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SETH SOHAN LAL MEMORIAL INSTITUTE OF PARAPSYCHOLOGY
Sri Ganganagar.

President : Seth Lachhi Ram ; *Hon. Director and Editor :* H. N. Banerjee ; *Secretary :* S. C. Mukherjee.

Official Quarterly Journal : Indian Journal of Parapsychology.

STUDY CIRCLE
Haldiyon - Ka - Rasta, Jaipur.

Runs nine free dispensaries in slum areas of Jaipur, one free High School and one Chronic Patients' Home for destitute patients. Upto Dec. 1960, given free medical benefits to 239,990 patients in the slum areas, 10,000 students in the High School and 77 indoor patients in the Chronic Patients' Home.

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VIDYA BHAWAN RURAL INSTITUTE
Udaipur.

Director : K. L. Bordia, M.A. Acad. Dip. in Edn. (Lond.).

VIDYA BHAWAN SOCIETY
Udaipur.

Founder and President : Dr. Mohan Sinha Mehta ; *Hon. Secretary :* Lakshmilal Joshi.

THE WOOL MERCHANTS' ASSOCIATION
Mewari Bazar, Beawar.

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COMMERCIAL FIRMS

Agencies (Rajasthan) Ltd., Purohitji-ka-Katla, Jaipur.

Ambica Engineering Works, Jodhpur.

Amar Automobiles, Jalori Gate, Jodhpur.

Anand Theatres Ltd., Jodhpur.

Arjun Medical and Provision Stores, Station Road, Jaipur.

Arora Bros., Station Road, Jodhpur.

Arora Crockery House, Minerwa Building, Railway Road, Jodhpur.

Aseri Brothers, opp. Railway Station, Jodhpur.

Associated Films Distributors, Station Road, Jodhpur.

Associated Stone Industries (Kotah) Ltd., Ramganj Mandi.

Associated Stone Distributing Co. Private Ltd., Johari Bazar, Jaipur.

Bankidass Moolraj & Co., Jalorigate, Jodhpur.

Bansilal Chowthmal, Katla Bazar, Jodhpur.

Bhandari Brothers, opp. Mahatma Gandhi Hospital, Jodhpur.

Bharat General & Seed Stores, Minerva Building, P.B. No. 52, Jodhpur.

Bhargava & Company, opp. Prem Prakash Talkies, Sawai Mansingh Highway, Jaipur.

Bhargava Scientific Corporation, Devi Bhavan, Kutchery Road, Ajmer.

Bhatia Bros., Chopasani Road, Jodhpur.

Bothra Films Exchange, H.O.: Bikaner ; Branch, Jaipur.

Bijoy Mica Mining Ltd., Bhopalganj, Bhilwara.

Bombay Watch Co., Inside Sojatigate, Jodhpur.

B. N. Bhargava & Bros., Station Road, Ajmer.

Burmah-Shell Co. Ltd., Kamani House, Tholia Circle, Ajmer Road, Jaipur.

Caltex Motors, Kutcheri Road, Jodhpur.

Central Radio & Service Co., Radio House, Ajmer.

Chandra Industrial and Commercial Corporation, Kutcheri Road, Jodhpur.

Chitra Cinema, Mehta Market, Jodhpur.

Chitraprakash Film Exchange, Ajmer Road, Jaipur City.

Chopani Ice Aerated Water & Oil Mills Ltd., Jodhpur.

Cinema Publishers, 2, Hyder Building, Sojatigate, Jodhpur.

Delhi Mishthan Bhandar, Chaura Rasta, Jaipur.

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D. P. Bhargava, B.Sc., LL.B., Press Representative and Advertisement Bookings, opp. Railway Station, Jodhpur.

D. R. Sharma & Sons, Sojatigate, Jodhpur.

D. S. & Co., Johari Bazar, Jaipur.

Durgasingh & Sons, Gramophone Dealers, Sojatigate, Jodhpur.

Dwarka Dass Rathi, Bookseller and Newspaper Agent, Jodhpur.

East India Mineral Development Syndicate Ltd., Jaipur.

Eastern Motor Company, Station Road, Jodhpur.

Electric Radio Corporation, Station Road, Jodhpur.

Elite Engineering, Kuchaman House, Jodhpur.

Empire Stores, Sir Mirza Ismail Road, Jaipur.

English Watch Company, Jalorigate, Jodhpur.

Fatehpuria Trading Co. Ltd., Ramganj Bazar, Jaipur.

Phone: 2425 Grams: FURNISHERS
GENERAL MARKETING COMPANY
Hind Hotel Bldg., Jaipur.
Stockists of
Jute Carpets, Coir Mats & Mattings, Linoleums, Plywood, Veneer Boards, Folding Chairs, Table Fans, etc.

Gajadhar Sitaram Mineral Co., Bhopalganj, Bhilwara.

Gargia & Co., B. D., Mirza Ismail Road, Jaipur.

General Assurance Society Ltd., Khetan Bhavan, M. I. Road, Jaipur.

General Marketing Co., Hind Hotel Bldg., Chaura Rasta, Jaipur.

Girdhar Ganesh Trading Co. Bhomiyonji-ki-Ghati, Jodhpur.

Gopal Watch Co., Sojatigate, Jodhpur.

Gotan Lime Syndicate, C/o Anand Theatres Ltd., Jodhpur.

Globe Motors Private Ltd., Mirza Ismail Road, Jaipur.

G. S. & Co., Rasta Gopalji, Jaipur.

Govindram Ramchand, Ajmer Road, Jaipur.

Grand Hotel, Railway Road, Jodhpur.

Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.

H. C. Brothers, Watch Merchants, Tripolia Gate, Jaipur.

Heera Crushing Private Ltd., Masuria Colony, Jodhpur.

Hind Mica Ltd., C-23, Prithviraj Road, Jaipur.

Hindustan Engineering Works, Jalorigate, Jodhpur.

H. S. Elahibux & Sons, Mirchi Bazar, Jodhpur.

India Agencies, Riyan House, Sojatigate, Jodhpur.

India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.

Indian Industrial Command, Kutchery Road, Jodhpur.

Indra & Company, General Merchants, Station Road, Jodhpur.

Industrial Command of India Ltd., Kutchery Road, Jodhpur.

Industrial Trust Ltd., Khetan Bhawan, Ajmer Road, Jaipur.

Jaipur Art Studio, Kutchery Road, Jodhpur.

Jaipur Bikaner Trading Co. P. Ltd., Chandpole Bazar, Jaipur.

Jaipur Development Co. Ltd., Johari Bazar, Jaipur.

JAIPUR METALS & ELECTRICALS LTD., Near Rly. Station, Jaipur. Manufacturers of Hard Drawn Bare Copper and Cadmium Copper Conductors, Electrolytic Copper, Cadmium Copper and Arsenical Copper Rods, Copper Strips, Brass Rods and Wires and Jaipur H. S. Electricity Meters. Phones : 4172, 4338, 3556 ; Grams : "METALS"—Jaipur.

Jaipur Mineral Development Syndicate Private Ltd., Johari Bazar, Jaipur.

Jaipur Paper Mart, Tripolia Bazar, Jaipur City.

Jaipur Wine Stores, Mirza Ismail Road, Jaipur.

J. Santosh & Sons, Engineers & Contractors, Sojatigate, Jodhpur.

Jodhpur Zinc Metal Works, Ada Bazar, Jodhpur.

Kachhwaha Brothers, Kutchery Road, Jodhpur.

Kaluram Shiam Dass, Opp. Ratanada Bridge, Jodhpur.

Kamla Optical Company, Station Road, Jodhpur.

Karamchand Thapar & Bros., Tripolia Bazar, Jaipur.

Khadi & Cottage Industries Ltd., Jodhpur.

Khairatilal & Sons, Electric Dealers, Station Road, Jodhpur.

K. H. Thanvi & Company, Jalorigate, Jodhpur.

Kitabghar, Outside Sojatigate, Jodhpur.

K. N. Gutgutia & Co., Ajmeri Gate, Jaipur.

Kota Bone Products Ltd., C/o Messrs. Raj Traders Private Ltd., "C" Scheme, Jaipur.

Kuchaman Electric Co., Ltd., Jodhpur.

Kumbhat Binding Works, Jodhpur.

Krishna Kumar & Co., Chaughan, Gagnori Bazar, Jaipur.

LAXMI MOTOR CO., Ajmer Road, Jaipur. Automobile Engineers & Dealers in Spare parts, Exide Batteries, Tyre Tubes of all make and Engine reconditioners. Phone : 2305 (Office), 4283 (Res.).

Laxmi Pen Company, Jodhpur.

Lokvani, Hindi Daily, Jaipur.

Lunkar & Co., Kapra Bazar, Jodhpur.

Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur City.

Maharaja Shri Umaid Mills Ltd., Pali, Marwar.

Man Radio & Electricals Ltd., Near Rly. Station, Jaipur.

Manmohan Opticals, Sojatigate, Jodhpur.

Marudhar Industries Ltd., Jodhpur.

Marwar Cement Company, Station Road, Jodhpur.

Marwar Cold Storage Company, Ratanada Bridge, Jodhpur.

Marwar Industries Private Ltd., Kuchaman House, Jodhpur.

Marwar Textiles, Keshar Bag, Jodhpur.

Merchandise & Stores Ltd., Johari Bazar, Jaipur.

Metal Corpn. of India Ltd., Zawar Mines, Udaipur.

Minerva Cinema, Station Road, Jodhpur.

Mital Stores, Ajmer Road, Jaipur.

Mohan Brothers, Outside Jalorigate, Jodhpur.

M. Kumbhat & Sons, Jodhpur.

M. Suraj Raj & Co., Ganchha Bazar, Jodhpur.

Nagaur Electricity Co., Ltd., Jodhpur.

Narsinghmal Mehta & Co., Sojatigate, Jodhpur.

National Engineering Industries Ltd., Khatipura Road, Jaipur.

National Motors, Chopasni Road, Jodhpur.

National Tractors, Chopasni Road, Jodhpur.

National Traders Ltd., Podar Park, Statue Circle, Jaipur.

National Weaving Industries, Nagaurigate, Jodhpur.

Navin Bharat Industries, Ltd., New Colony, Jaipur.

Northern India Machinery Corporation, Ras House, Jodhpur.

PADAM SINGH & CO. PRIVATE LTD., Sole Agents: USHA Sewing Machines & Fans, Durlabh Bhavan, Mirza Ismail Road, Jaipur.

Pall Electricity Co., Ltd., Jodhpur.

Paradise Trading Corporation, Station Road, Jodhpur.

Patwa & Co., Kapra Bazar, Jodhpur.

Perfect Advertisers, Sojatigate, Jodhpur.

Phalodi Electricity Co., Ltd., Jodhpur.

P. M. Allah Baksh & Son, Mirza Ismail Road, Jaipur.

Poonamchand & Bros. Ltd., Near Rly. Station, Jaipur.

Praja Sewak (Weekly), Outside Jalorigate, Jodhpur.

Prakash Optical & General Mart, Minerva Talkies Building, Shop No. 9, Jodhpur.

Pratap Engineering Works, Sardarpura, Jodhpur.

Prem Universal Stores, Kutchery Road, Jodhpur.

Publicity Studio, Station Road, Jodhpur.

Pustak Bhandar, Chopani Road, Jodhpur.

Raj Traders P. Ltd., "C" Scheme, Jaipur.

Rajasthan Central Stores Private Ltd., Bhagat Bhawan, Mirza Ismail Road, Jaipur.

Rajasthan Electric Products Private Ltd., Chandpole Bazar, Jaipur.

Rajasthan Industries Ltd., Jwala Bldgs., Bhagwandas Road, Jaipur.

Rajasthan Industries, Behind Power House, Jodhpur.

Rajasthan Metal & Rolling Mills, Ltd., Ratanada (Rajasthan).

Rajasthan Mineral Co., Ltd., Fort Road, Jaipur.

Rajasthan Traders, 1/B Road, Sardarpura, Jodhpur.

Rajasthan Trading Corporation, Station Road, Jodhpur.

Rajkumar & Bros., Rasta Mishra Rajaji, Jaipur.

Rajputana Agencies, Jaipuria Mansion, Mirza Ismail Road, Jaipur.

Rajputana Corpn. Ltd., 12, Prithviraj Road, "C" Scheme, Jaipur.

Rajputana General Dealers Ltd., Purohitji-ka-Katla, Jaipur.

Rajputana Metal Works, 1/B Road, Sardarpura, Jodhpur.

Rajputana Stationery Mart Sojatigate, Jodhpur.

Rajputana Trading Co., Ltd., Jodhpur.

Rakesh & Co., Hospital Road, Jodhpur.

Ramesh Films Motion Picture Distributors, Olympic Cinema Building, Jodhpur.

Ram Sewashram, Perfumed Hair Oil Manufacturers, Jalorigate, Jodhpur.

Regal Sports, Station Road, Jodhpur.

Remington Rand of India Ltd., Mirza Ismail Road, Jaipur.

R. P. Agdayemawer & Sons (Regd.), Mot Doongri Road, Jaipur.

Sainik Motors, Sojatigate, Jodhpur.

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Scientific Apparatus & Chemical Works, Kankaria Building, Jalorigate, Jodhpur.

Shah & Co., Chaura Rasta, Jaipur.

Shankerlal & Sons, Station Road, Jodhpur.

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Shri Mahalaxmi Colour Mfg. Co., Ltd., Erinpura.
Shri Marwar Printers Ltd., Jodhpur.
Shri Shardadevi Moondhra Motor Company, Station Road, Jodhpur.
Supreme General Film Exchange Ltd., Johari Bazar, Jaipur.
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Surana & Co., Minerva Building, Jodhpur.
Tak Studios, Opp. Prem Prakash, Jaipur.
THAHRYAMAL BALCHAND, Mirza Ismail Road, Jaipur.
Thakar Das Khatri & Sons, Tripolia Bazar, Jodhpur.
Toshnival Bros. Private Ltd., Kutchery Road, Ajmer.
Udaipur Distillery Company Limited, The, Udaipur.
Udaipur Mineral Development Syndicate, Bhilwara.
Ugamraj & Co., Kutchery Road, Jodhpur.
United Motors, Chopasani Road, Jodhpur.
Universal Trading Co., Jwala Bldg., Bhagwandas Road, Jaipur.
Voltas Limited, Mirza Ismail Road, Jaipur.
Vyas, P. B., & Co., Jalorigate, Jodhpur.
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Willcox Buckwell India P. Ltd., New Colony Jaipur.
Zoraster, S. & Co. (Supplies) P. Ltd., Johari Bazar, Jaipur.

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Agarwal Crystal Ice Factory, Jaipur.
Ajmer Ice & General Mills, Foysagar Road, Ajmer.
Amar Nath Arora, Jodhpur.
Bach Raj Kundan Mal, Sujangarh, Churu Dist.
Balchand Ghi Mal, Barmer.
Bansilal Vyas, Maheshwari-ka-Rasta, Manak Chowk, Jodhpur.
Bhansiwala Distilled Water Ice Factory, Foysagar Road, Ajmer.
Bhanwar Lal Kachawa, C/o Gheaneras Building, Jodhpur.
Bharatpur Ice Factory, Gopal Garh, Bharatpur.
Brij Ice Factory, Kotah.
Brijwani Soda Factory, Udaipur.
Chand Ice Factory, Fateh Tiba, Jaipur.
Chhot Mal Mohan Lal, Behind Power House, Jodhpur.
Chopasni Ice & Oil Mills, Jodhpur.
Dholpur Ice Factory, Dholpur, Bharatpur Dist.
Gehalot Bros., Atmaram Bldg., Station Road, Jodhpur.
Gopal Dass, Sardarpur, Jodhpur Dist.
Gopal Dass Ratan Lal Ice Factory, Churu.
Government Ice Factory, Bikaner.
Government Ice & Aerated Water Factory, Jodhpur.
Gupta Soda Factory, Station Road, Jaipur.
Hira Ice Factory, Alwar.
Ice Factory of Brijlal Jethi, Udaipur.
Ice Factory of Kanak Malfgarwal, Bhilwara.
Jai Gopal Satyanarain, Mishrawadi, Nagore Dist.
Jaipur Ice & Oil Mills, Jaipur.
Jawahar Industries, Kotah.
Jeth Mal Moti Lal, C/o Chunni Lal Karwar, Pali.
Lalchand Soda Factory, Udaipur.
Madan Sarup & Bros., Pali.
Mahesh Ice & Oil Mills, Phulera.
Mangi Lal, Champasi Road, Jodhpur.
Mewar Ice & General Industries, Udaipur.
Mohan Singh Bariyan, Outside Sojati Gate, Jodhpur.
Munna Lal, Bari Kuwa, Nagore.
Nagu Mal Niharchand, Fatehpuriyonka Bazar, Pali.
Nar Singh Ice Factory, Bikaner.
National Ice Factory, Fateh Tiba, Jaipur.
Patel Soda Factory, Udaipur.
Periwal Ice Factory, Ganganagar.
Phalodi Ice Co. Ltd., Phalodi, Jodhpur Dist.
Pilani Industrial Corpn., Pilani.
Punjab Soda Water Factory, Mohri Bazar, Jaipur.
Ragunath Chajera, Dhan Mandi, Nawa, Nagore Dist.
Raghunath Prashad Mathur, Nawa, Nagore Dist.
Rajasthan Industries, Jodhpur.
Rajasthan Industries Corpn., Madan Ganj, Jaipur.
Ram Dhan Magilal, Barmer.
Ramesh Chandra Chhagan Lal, Kuchaman Road, Nawa, Nagore Dist.
Rampuria Ice Factory, Bikaner.
Sardar Mal Har Sukh Rai (Kuchaman Ice & Aerated Co.), Kuchaman, Nawa, Nagore Dist.
Sewa Ram Assa Ram, Fatehpuriya Bazar, Pali.
Shankar Lal Parwal, Paliwalon-ka-Bas, Pali.
Shri Fouj Mal Hazari Mal, Shiv Ganj, Jodhpur.
Sikar Ice Factory, Station Road, Sikar.
Sind Soda Water Factory, New Colony, Jaipur.
Soda Lemon Factory, Ganganagar.
Sojat Ice & Oil Mills Ltd., Sojat Road, Pali District.
Udaibhan Industries Ltd., Dholpur, Bharatpur District.
Vijai Ice & Cold Storage, Jodhpur.
Wadhawa Mal & Sons, Ganesh-ki-Bagicha, Jodhpur.

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Marwar Agricultural Tools & Implements Mfg. Co-operative Society Ltd., Jodhpur.
M. Kumbhat & Sons, H.O. Jodhpur.
National Motors, Mirza Ismail Road, Jaipur.
National Motors, Chopasni Road, Jodhpur.
Rajasthan Arhat Factory, Ghasmandi, Jodhpur.
Sainiks Motors, Sojatigate, Jodhpur.
Western Indian States Motors, Jaipur.

AUTOMOBILE & SPARE PARTS MFRS. & DEALERS

Amar Automobiles, Jalori Gate, Jodhpur.
Ambica Engineering Works, Chopasni Road, Jodhpur.
Automobile Works, Chopasni Road, Jodhpur.
BAKLIWAL & CO., Ajmer Road, Jaipur.

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Phones: Jodhpur: 562
Ajmer: 383
Kotah: 70

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Specialists:
Tata Mercedes Benz, Perkins Diesel Spares & Jeep Parts.

SAINIKS MOTORS, Sojati Gate, Jodhpur (Rajasthan). Phone: 473. Grams: "SAINIKS". Dealers: Ford Spare Parts. Hindustan, Ambassador Cars, Chevrolet & Bedford Trucks and Massey-Ferguson Tractors.
Sanghi Brothers, Jodhpur.
SHREE AUTOMOBILE WORKS, Chopasni Road, Jodhpur, Distributors for "MICO BOSCH" Diesel & Electrical products and Auto Engineers and Dealers. Grams: "AUTOMOBILE." Phones:—Office: 474; Workshop: 474; Res.: 113.
UNITED MOTORS OF RAJASTHAN, Jaipur. Dealers for Willys Jeeps for Rajasthan.
WESTERN INDIAN STATES MOTORS, Mirza Ismail Road, Jaipur. Automobile Engineers & Dealers; Distributors for Bedford Trucks, Buses, Siemens Electric Motors, Cables & Switchgears. Phone: 4123; Grams: "SANGHI".

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Bharat Celluloid Industries, Riyan House, Jodhpur.
Likmi Chand Jethmal & Bros., Gancha Bazar, Jodhpur.
Mustak Ahmed Khalit Ahmed, Churigar Bazar, Jodhpur.
Rajasthan Celluloid Industries, Mirchi Bazar, Jodhpur.
Scimoloid Bangles, Churigar Bazar, Jodhpur.

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Rashtriya Pustak Bhandar, Chopasni Road, Jodhpur.

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Jaipur Metal & Electricals Ltd., Johri Bazar, Jaipur.
Laxmi Metal Industries Ltd., Tripolia Bazar, Jaipur.
Sri Mahesh Metal Works Ltd., Madanganj, Kishangarh.

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P. M. Allah Bux, Ajmer Road, Jaipur.
Thahryamal Balchand, Ajmer Road, Jaipur.

BUILDING MATERIALS

General Marketing Co., Hind Hotel Bldg., Chaura Rasta, Jaipur.

Gram: "INDRACO". Phone: 164.
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(Estd. 1935).
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M. Kumbhat & Sons, H. O. Jodhpur.
Marwar Cement Co., Station Road, Jodhpur.

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CARPET MANUFACTURERS & DEALERS

Gobindram Ramchand, Ajmer Road, Jaipur.
Indian Industries Palace, Ajmer Road, Jaipur City.
Thahryamal Balchand (Estd. 1918), Ajmer Road, Jaipur.

CEMENT

Associated Cement Cos. Ltd., Abu Road.
Associated Cement Cos. Ltd., Lakheri Cement Works, Lakheri.
Dalmia Cement Co., Sawai Madhopur.
Jaipur Udog Ltd., Ramkrishna Lok, Sawai Madhopur.

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J. Santosh & Sons, Jodhpur.
M. Kumbhat & Sons, Jodhpur.

CHEMISTS & DRUGGISTS

Asoka Medical Stores, Opp. M. G. Hospital, Jodhpur.
Bhagwan Medical Stores, Jalori Gate, Jodhpur.
Bhandari Brothers, Opp. Mahatma Gandhi Hospital, Jodhpur.
Bombay Medical Stores, Station Road, Jodhpur.
Cash Chemists, Station Road, Jodhpur.
Chaturbhuj & Co., Katla Bazar, Jodhpur.
Jain Brothers, Station Road, Jodhpur.
Laung Medical Stores, Sardar Market, Jodhpur.
Porwal Brothers, Station Road, Jodhpur.
Rajputana Medical Stores, Sojati Gate, Jodhpur.
Sohan Medical Stores, Sojati Gate, Jodhpur.
Uma Medical Stores, Khandaphalsa Road, Jodhpur.
Vijaya Medical Stores, Jodhpur.

CINEMAS & THEATRES

Anand Theatres Ltd., Jodhpur.
Bhawani Talkies, Jaipur.
Charbhuja Talkies, Jodhpur.
Chetak Cinema, Udaipur.
Chitra Cinema, Jodhpur.
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Delhi Cloth Mills Branch, Sojati Gate, Jodhpur.
India Agencies, Riyan House, Jodhpur.
Surajmal & Sons, Minerva Building, Jodhpur.
Surana & Company, Minerva Building, Jodhpur.

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Haroti Cotton Press, Ltd., Beawar.
Jaipur Spg. & Wvg. Mills Ltd., Jaipur.
Krishna Mills Ltd., Beawar.
Mahalaxmi Mills Ltd., Beawar.
Maharaja Kishangarh Mills, Kishangarh.
Mewar Textile Mills Ltd., Beawar.
Shree Gopal Industries Ltd., Kotah.
Shree Sadul Textiles Ltd., Sri Ganganagar.

CURIOS AND ANTIQUITIES

R. B. Moondhra & Co., Mundhra Palace, Jodhpur.
Thahryamal Balchand, Ajmer Road, Jaipur.

DECORATORS & FURNISHERS

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Hindustan Engineering Works, Jalori Gate, Jodhpur. Phone : 345.
M. Kumbhat & Sons, H.O. Jodhpur.
Voltas Limited, Ajmer Road, Jaipur.

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Ofa Pharma Pvt. Ltd., Station Road, Jaipur.
Rolabs Pharmaceutical Works, Udaipur.

ELECTRIC SUPPLY COMPANIES

Abu Road Electricity & Industries Co. Ltd., Abu Road.
Amalgamated Electricity Co. Ltd., Ajmer.
Banswara Electric Supply Co., Banswara.
Beawar Electric Supply Co. Ltd., Beawar.
Bhawanimandi Electricity & Development Co. Ltd., Bhawanimandi.
Bundi Electric Supply Co. Ltd., Bundi.
Ladnun Electric Supply Co. Ltd., Ladnun.
Maharana Bhupal Electric Supply Co. Ltd., Udaipur.
Pali Electricity Co. Ltd., Pali.
Rajgarh Electric Supply Co., Rajgarh (Dt. Alwar).

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Girdhar Ganesh Trading Co., Bhomiyonji-Ki-Ghati, Jodhpur.
Hari Narain Kacholia & Co., Ajmer Road, Jaipur.
India Radiogram Corporation, P.O. Box 63, Kutchery Road, Jodhpur.

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Angira Engineering Works, I. C. Road, Sardarpura, Jodhpur.

HINDUSTAN ENGINEERING WORKS, Jalori Gate, Jodhpur (Rajasthan). Engineers, Founders, Manufacturers and Contractors. Phone: 345.
Modern Engineering Works, Opp. Anand Cinema, Jodhpur.
Pratap Engineering Works, C. Road, Sardarpura, Jodhpur.

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FILM DISTRIBUTORS

Associated Film Distributors, Station Road, Jodhpur.
B. K. Films, Minerva Cinema, Jodhpur. Phone: 494 pp.

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Bothra Film Exchange, Jodhpur.
Chitraprakash Film Exchange, Ajmer Road, Jaipur City.

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Phones: Jodhpur: 208; Godown: 636; Ajmer Rep.: 638; Jaipur Rep.: 2006; Indore: 7106 pp
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Lakharon Ka Bas, P.O. Box. No. 106, Jodhpur (Rajasthan).
Branch:
Krishna Cinema Bldg., Indore City (M.P.)

Jagdamba Film Distributors, Jodhpur.
Kamal Pictures, Jodhpur.

NAVRATNA FILM EXCHANGE, Post Box No. 9, Jodhpur (Rajasthan). Partners: S. R. Khajanchi, N. R. Khajanchi. Phone: Office 350; Res. 758. Grams: "SAMPATTI."

RAJLAXMI PICTURES, Motion Picture Distributors, Anand Cinema Building, Jodhpur. Grams: "RAJLAXMI." Phone: 261 (Res.); 471 PP. (Office). Proprietor: Premsingh Kachhwaha.

Purnima Film Exchange, Jodhpur.

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Ramesh Films, Olympic Cinema Building, P.O. Box No. 57, Jodhpur.
Saraswati Film Exchange, Jodhpur.

TALKIE FILM DISTRIBUTORS (PRIVATE) LTD., 2909, Mirza Ismail Road, Jaipur. Phone: 497. Grams: "PARAMOUNT." Manager: G. P. Sharma. Head Office: 45, Maharani Road, Indore. Phone: 3497. Grams: "PARAMOUNT." Managing Director: B. L. Salgia.

YASWANT FILM EXCHANGE, Motion Picture Distributors, Sawai Mansingh Highway, Jaipur; Branch: Film Colony, Indore. Phone: 6643. Grams: "CHANDFILMS." Jaipur Phone: 3778; Bombay Branch: 6, Bhaveshwar Bldg., Worli, Bombay-18; Grams: "YASHFILMS".

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Indra & Co., Station Road, Jodhpur.
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Marudhar Stores, Railway Road; Branch: Kutchery Road, Jodhpur.

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Anand Cinema Restaurant, Jodhpur.
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Edward Memorial Hotel, Ajmer Road, Jaipur.
Grand Hotel, Railway Road, Jodhpur.
Hind Hotel, Chaura Rasta, Jaipur.

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Khasakothi, Jaipur.
Lake View Hotel, Udaipur.
Mohmmadi Hotel, Station Road, Jodhpur.

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Rajasthan State Hotel, Rambag Palace, Jaipur.
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Surana & Co., Minerva Building, Jodhpur.
Thahryamal Balchand, Kundan Niwas Building, Ajmer Road, Jaipur.

INK MANUFACTURERS

Milak Brothers, Madar Gate, Ajmer.
Nandkishore Ink Mfg. Co., Inside Nagorigate, Jodhpur.
Writex Ink Co., Gancha Bazar, Jodhpur.

INDUSTRIAL & MINING COMPANIES

Abhai Kumar Jain, Mandal.
Associated Cement Companies Ltd., Lakheri.
Bansilalji Chowdhry, Mandal.
Bhagirath Srigopal Nathaney, Bhilwara.
Duduwala & Co., Bhilwara.
Mansinghka Brothers Pvt. Ltd., Bhilwara.
Mewar Textile Mills Ltd., Bhilwara.
Pioneer Minerals, Udaipur.
Pratap Commercial Co. Pvt. Ltd., Bhilwara.
Pusalal Mansinghka Pvt. Ltd., Bhilwara.
R. B. Seth Moolchand Nemichand, Mandal.
Shree Bijay Mica Mining Ltd., Bhilwara.
Sudarshan Mineral Co. P. Ltd., Bhilwara.
Udaipur Mineral Development Syndicate Pvt. Ltd., Bhilwara.

INSURANCE AGENTS AND SPECIALISTS

Chandra Industrial and Commercial Corporation, Kutchery Road, Jodhpur.
M. Kumbhat & Sons. H. O.: Jodhpur. Branch : Jaipur.
New Asiatic Insurance Co., Ltd., Kutchery Road, Jodhpur. Phone : 21. Grams : "NAFMI".

IRON & STEEL MERCHANTS

GANESH DAS JIWANLAL.—Regd. Stockists of Iron and Steel, Station Road, Jodhpur (Rajasthan). Telegram : "INDRA-CO." Phone : 164.

IVORYWARES

GOBINDRAM RAMCHAND (Estd. 1925), Ajmer Road, Jaipur (India). Manufacturers and Exporters of Ivory dainties, Brass Artwares, Sandalwood Carvings, Horn and Rosewood artwares, Embroidery works, Jewellery, Precious Stones and curios etc. Grams : GOBINDRAM RAMCHAND, Jaipur, Phone : 3097.

Indian Industries Palace, Ajmer Road, Jaipur City.
P. M. Allah Buksh & Son, Mirza Ismail Road, Jaipur.

RATOOMAL'S, Khetan Bhawan, Ajmer Road, Jaipur (India), Manufacturers and Exporters of Ivory, Brass, Sandalwood, Horn, Precious, Semi-Precious, Synthetic Stones, Tie-Die Scarves, Zari Hand Bags, Belts & Collars : Phone : 4228, Grams : "DEEJAY".

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Gobindram Ramchand, Jaipur.
KHETSIDASS SADASUKH DUGAR, Lalkatra, Jaipur City.
Madan Gopal Zaveri & Co., Tripolia Bazar, Jaipur.
Thahryamal Balchand, Kundan Niwas, Ajmer Road, Jaipur.

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Northern India Machinery Corporation, Ajmer Road, Jaipur.

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Voltas Limited, Ajmer Road, Jaipur.

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General Marketing Company, Hind Hotel Building, Chaura Rasta, Jaipur.
India Radiogram Corporation, Sojatigate, Jodhpur.
Jaipur Paper Mart, Tripolia Bazar, Jaipur.
M. Kumbhat & Company, Jodhpur.
Prems, Universal Stores, Jodhpur.

MILL GIN STORES

A. Lalchand, Inside Sojati Gate, Jodhpur.
Chandra Industrial and Commercial Corporation, Kutchery Road, Jodhpur.
Hari Narain Kacholia & Co., Ajmer Road, Jaipur.

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Ramlal Kachwala & Sons, Station Road, Jodhpur.
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NEWSPAPERS AND PERIODICALS

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Hindu Sandesh (Weekly), Jodhpur.
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Grams : "JAGANWEEKLY" Phones: *Office:* 429 *Res.:* 535

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Lokraj (Weekly), Minerva Building, Jodhpur.
Lokvani, The Hindi Daily of Rajasthan, Jaipur City.
Marwar Times (Daily), Jodhpur.
Navjyoti (Daily), Ajmer.
Navyug (Daily), Jaipur.
Praja-Sewak (Weekly), Inside Sojati Gate, Jodhpur.

PREET, Hindi Cine Monthly, Ghodon-Ka-Chowk, P.B. No. 140, Jodhpur; Publisher, Editor and Printer Shri P. C. Singhi.

Raildoot (Fortnightly), Jodhpur.
Rajasthan Affairs, Jaipur.
Rajputana Herald (Weekly), Jodhpur.
Rashtradoot (Daily), Jaipur.
Seedha Rasta, Jaipur.
Yug Jeevan (Weekly), Jodhpur.

NON-FERROUS METAL MERCHANTS

PRAKASH METAL CO., Dargah Bazar, Ajmer; Phone : 377; Grams : "METALCO". Branch Office : Inside Sojati Gate, Jodhpur; Phone : 764, Grams : 'AJMERWALA'.

PAPER MERCHANTS

Jaipur Paper Mart, Tripolia Bazar, Jaipur City.
Kitabgher, Outside Sojati Gate, Jodhpur.
Kumbhat Binding Works, Jodhpur.
Rajputana Stationery Mart. Sojati Gate. Jodhpur.
Subhu Traders, Pokaran Ki Haveli, Jodhpur.

PETROLEUM DEALERS AND AGENTS

Bankidass Moolraj & Co., Jalorigate, Jodhpur.
R. B. Moondhra & Co., Station Road, Jodhpur.
Shankerlal & Sons, Kutchery Road, Jodhpur.

PHOTOGRAPHERS AND PHOTOGRAPHIC MATERIAL DEALERS

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K. H. Thanvi & Company, Jalorigate, Jodhpur.
Tak Brothers, Sojatigate, Jodhpur.

PLASTIC MOULDERS & FABRICATORS

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PRINTERS, PUBLISHERS AND STATIONERS

Adhunik Printers, Hanuman Ka Rasta, Jaipur.
Agrawal Press, Kishanpole Bazar, Jaipur.
Ajanta Printers, Gheewalon ka Rasta, Jaipur.
Ajmera Printing Press, Gheewalon ka Rasta, Jaipur.
Anand Printing Press, Gopalji ka Rasta, Jaipur.
Bafna Printers, S. Mansingh Highway, Jaipur.
Bhagwati Press, Choura Rasta, Jaipur.
Bharat Bhushan Press, Churunko Ka Rasta, Jaipur.
Bharti Press, Kishore Niwas, Tripolia Bazar, Jaipur.

CHOPRA BROTHERS, Agents for Government of India Publications, Government of Rajasthan Publications; Proprietors : Chopra Printing Press—deals in all Panchayat & Legal Forms & Books; Tripolia Bazar, Jodhpur (Rajasthan); Phone : 646. Grams : "CHOPRABROTHERS." Branch : Minerva Bldg., Jodhpur.

Diamond Printing Press, Gopalji ka Rasta, Jaipur.
Duharia Printing Press, Hanumanka Rasta, Jaipur.
Friends Printers, Johari Bazar, Jaipur.
Garg Printing Press, Hanuman ka Rasta, Jaipur.
Geeta Press, Johari Bazar, Jaipur.
Hanuman Press, Radha Damodarji ki Gali, Sawai Mansingh Highway, Jaipur.
Jai Ambe Press, Mizra Rajaji ka Rasta, Jaipur.
Jaipur Electric Printing Press, Sawai Mansingh Highway, Jaipur.
Jaipur Printer, Mirza Ismail Road, Jaipur.
Jeenwani Press, Ramganj Bazar, Jaipur.
Jyoti Printers, Sawai Mansingh, Highway, Jaipur.
Khandelwal Printers, Khejraka Rasta, Chandpole Bazar, Jaipur.
Kishore Printing Press, Karansar House, Tripolia Bazar, Jaipur.
Kismat Press, Tripolia Bazar, Jaipur.
Liberty Press, Partamyon ka Rasta, Jaipur.
Lokwani Press, Sawai Mansingh Highway, Jaipur.
Madhu Printers, Sawai Mansingh Highway, Jaipur.
Mahabhasha Press, Tikkiwalon ka Rasta, Kishanpole Bazar, Jaipur.
Mahaveer Press, Mirza Ismail Road, Jaipur.
Manorajan Press, Johari Bazar, Jaipur.
Nav Bharat Press, Mirza Ismail Road, Jaipur.
National Printers, Jodhpur.
Praja Sewak Press, Jodhpur.
Pramod Co-operative Printers, Mirza Ismail Road, Jaipur.

RAJPUTANA STATIONERY MART.—Stationers and Paper Merchants, Outside Sojati Gate, Jodhpur; Distributors—Titaghur Paper Mills Co. Ltd., and dealers in Engineering & Survey equipments & Educational Suppliers; Phone : 57.

Rajasthan Electric Press, Sawai Mansingh Highway, Jaipur.
Rajasthan Printing Press, Kishanpole Bazar, Jaipur.
Rashtradoot Press, Haldiyon ka Rasta, Johari Bazar, Jaipur.
Sarvodaya Press, Karansar House, Tripolia Bazar, Jaipur.
Shanker Press, Nawab Sahib Ki Haweli, Tripolia Bazar, Jaipur.
Sumer Printing Press, Sojatigate, Jodhpur.
Swastik Printers, Chandpole Bazar, Jaipur.
United Printers, Radha Damodarji Ki Gali, Jaipur.
Veer Press, Maniharon Ka Rasta, Jaipur.
Vijya Art Printing Press, Sawai Mansingh Highway, Jaipur.

PROVISION MERCHANTS

Delhi Mishthan Bhandar, Chaura Rasta, Jaipur.
Empire Stores, Mirza Ismail Road, Jaipur.
M. R. & Sons, Opposite Railway Station, Ajmer.
Bharat General and Seed Stores, Minerva Building, Jodhpur.

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Radio Electric Corporation, Station Road, Jodhpur.
R. C. Bhargava & Co., Chaura Rasta, Jaipur.

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J. Santosh & Sons, Jodhpur.
O. P. Sanghi & Co., Jodhpur.

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HIND SPORTS.—Beawar Road, Ajmer (Rajasthan). Manufacturers of High Class Sports Goods.

Mittal Sports, Ajmer Road, Jaipur.

REGAL SPORTS, Station Road, Jodhpur (Rajasthan); Manufacturers of high class Gymnasium and Children Play Center Equipments; Grams: "REGALSPORTS"; Phone: 36; Estd.: 1925.

TAILORS AND OUTFITTERS

Bombay Tailoring House, Kutchery Road, Jodhpur.
Hirasingh & Sons, Martindale bridge, Ajmer.
Modern Tailors, Outside Sojatigate, Jodhpur.

TIMBER MERCHANTS

SHAH MANMAL BHIKAMCHAND SURANA, Timber Merchants and Commission Agents; Pali House, Jodhpur; Phone: 412, Grams: "MANSURANA".

TRACTOR DEALERS & IMPORTERS

Hari Narain Kacholia & Co., Mirza Ismail Road, Jaipur.
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H. C. BROTHERS, Importers & Dealers in Watches, Clocks and Time-Pieces; Manufacturers of Suman & Stamen Sewing machines; Tripoli Gate, Jaipur (Rajasthan). Phone: 2484. Grams: "RODEX."

Pusaram Bhikaram, Ghasmandi, Jodhpur.
R. C. Bhargava & Co., Chaura Rasta, Jaipur.
Shankerlal & Sons, Station Road, Jodhpur.
Surana Brothers, Sojati Gate, Jodhpur.
Surana & Company, Sojati Gate, Jodhpur.
Thakar Das Khatri & Sons, Tripolia Bazar, Jaipur.

WINE & SPIRIT MERCHANTS

Arjun Medical & Provisions Stores, Station Road, Jaipur.

JAIPUR WINE & GENERAL STORES, Mirza Ismail Road, Jaipur; Stockists: Wine, Provision, Medicines, Toilets. Recognised Tourists dealers. Phone: 3193, (Res.) 3232.

Mohan Brothers, Outside Jalori Gate, Jodhpur.

TRADES & PROFESSIONS IN AJMER

Ajmer Medical Stores (Bijlani Brothers), Station Road, Ajmer.
Bhargava Brothers, Madargate, Ajmer.

Phone: 122 Estd.: 1930.

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General Medical Stores, The Kutchery Road, Ajmer.

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Jindel & Company, P.O. Box 58, Ajmer.
J. S. Mehta & Bros., Sarai Chisty Chaman, Station Road, Ajmer.
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M. R. & Sons, Opposite Railway Station, Ajmer.
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P. N. KAPOOR & COMPANY.—Station Road, Post Box No. 50, Ajmer, Importers and Dealers in Watches. Repairs under Expert Supervision. Estd. 1930.

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Rajasthan Civil & Electrical Works, Near Martindale Bridge, Ajmer.
R. D. Maniar & Co., Imperial Road, Ajmer.
Royal Bar & Restaurant, opp. Railway Station, Ajmer.
Sharda Brothers, Imperial Road, Ajmer.

STANDARD ELECTRIC CO.—Licensed Government Contractors; Dealers in Electrical goods. Prop.: P. C. Goyal, Post Box 142, Kaisarganj, Ajmer.

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TRIPURA

Capital : Agartala.

Area : 4,036 sq. miles ; Population (1961 Census) (Provisional) 1,141,492 (males 591,214 ; females 550,278). See article "Population" for more details.

The number of refugees was 3,69,000 as on 31st December 1959.

Tripura is a Union Territory.

The agricultural wealth of the Territory consists of paddy, jute, cotton, tea and fruit such as pineapple, jackfruit, etc., while forests yield timber, firewood, bamboo and charcoal. Paddy is the main source of revenue.

There are only one District—Tripura, one municipality and Panchayat.

The Territory is divided into ten administrative Sub-Divisions—Sadar, Khowai, Kailasahar, Dharmanagar, Sonamura, Udaipur, Belonia, Sabroom, Kamalpur and Amarpur.

Sadar Sub-Division is divided into ten Tahsils —Sadar, Puranagartala, Bamutia, Mohanpur, Simna, Ishanchandranagar, Kamalasagar, Takarjala, Bishalgar, Charilam.

Khowai Sub-Division is divided into four Tahsils—Khowai, Kalyanpur, Asharambari and Teliamura.

Kailasahar Sub-Division is divided into two Tahsils—Kailasahar and Fatikroy.

Dharmanagar Sub-Division is divided into five Tahsils—Dharmanagar, Brajendranagar, Kurti, Kanchanpur and Longai.

Sonamura Sub-Division is divided into five Tahsils—Sonamura, Kathalia, Bakshanagar, Dhanpur and Matinagar.

Udaipur Sub-Division is divided into two Tahsils—Radhakishorepore and Salgarh.

Belonia Sub-Division is divided into seven Tahsils—Belonia, Rajnagar, Radhanagar, Puranrajbari, Sidhinagar, Rishyamukh and Muhuripur.

Sabroom Sub-Division is divided into five Tahsils—Sabroom, Manu, Amilghat, Samarendraganj and Gorakapa.

Kamalpur Sub-Division is divided into two Tahsils—Kamalpur and Kulai.

Amarpur Sub-Division is divided into three Tahsils—Birganj, Omphi and Dumboornagar.

The Chief Commissioner who is the head of the Territory, is assisted by Secretaries, each in charge of several Departments.

There are also a District Magistrate and two additional District Magistrates and for each of the Sub-Divisions an A.S.D.O. On the judicial side there is a Judicial Commissioner's Court which is the highest Court in the Territory. There are also a District and Sessions Court, one Court of Subordinate and Assistant Sessions Judge and eight Munsiff Courts.

A Territorial council has been established and it has been entrusted with the administration of welfare activities such as education, medical services, agriculture, etc.

Budget for 1961-62 : *See under "Late Particulars".*

ECONOMY

The area in acres under the crop and the production are given below (1959-60) :

Rice 426,000 ; 153,000 tons ; Jute 20,000 ; 60,000 bales ; Mesta 25,000 ; 50,000 bales ; Cotton 18,000 ; 6,500 bales ; Rape and Mustard 9,000 ; 1,250 tons ; Sesamum 7,600 ; 1,000 tons ; Sugarcane 6,700 ; 7,500 tons (Gur) ; Kharif pulses 900 ; 163 tons ; Rabi pulses 2,300 ; 390 tons ; Tea 12,140 ; 5,466,548 lbs ; Tobacco 2,200 ; 300 tons ; Chillies 2,400 ; 410 tons ; Dry Ginger 380 ; 150 tons ; Banana 8,500 ; 25,500 tons ; Turmeric 1,200 ; 460 tons (dry) ; Papaya 550 ; 2,200 tons ; Sweet Potato 2,200 ; 4,280 tons ; Potato 4,000 ; 6,000 tons.

Total cropped area : 611,300 ; Net area sown : 511,300 ; Area of the State : 2,634,240 ; Forest area : 1,573,000.

Proposed Plan expenditure during 1960-61 : Rs. 13·933 lakhs. Proposed non-Plan expenditure during 1960-61 : Rs. 6·277 lakhs. Expenditure during 1960-61 (upto October 1960) on Plan : Rs. 1·76 lakhs. Expenditure during 1960-61 (upto October 1960) on non-Plan Rs. 3·339 lakhs.

More money, better seeds and improved implements are being distributed to increase food production. In Tripura the expenditure went up from Rs. 4·6 lakhs to Rs. 31 lakhs in 1958.

Total cattle 302,865 ; Total buffaloes 40,477 ; Horses and ponies 746 ; Sheep 6,774 ; Goats 101,332 ; Other livestock 40,114. (1956 Cattle Census).

The fishing population may be reckoned as 2,500 families.

Road mileage 762. Of this motorable 424, metalled 288, unmetalled 474.

There is no railway or water-way in the Territory. There are however four aerodromes.

Tripura, which at present is cut off from the rest of the country, is being linked by road with Assam through the Assam-Agartala road. More than Rs. 300 lakhs are to be spent on road development.

There are no irrigation works in the Territory.

Power position in 1959 : Installed capacity of plants 863 kW. No. of units generated 1,086,387 kWh. No. of units supplied to industry 155,930, for domestic purposes 638,917, for commercial 809,534, for public lamps 30,391.

The source of power is the Agartala Electric Supply in Agartala town and Dharmanagar, Kailasahar and Udaipur. This has been nationalized and expanded. Expansion work will soon be completed and the capacity of the plant is expected to increase to 1,000 kW.

Average daily number of workers employed in registered factories 2,700.

Minimum wages have been fixed in tea plantations and bidi factories.

Total no. of members of registered trade unions : 8,615.

Employment Exchange : The District Employment Exchange started functioning from March 15, 1957.

Figures for 1960 (Oct.) : Number registered 4,466 ; Number of vacancies notified 849 ; Number of candidates who submitted applications 5,242 ; Number of placements 480 ; Number in the waiting list in the register 3,430.

In the public sector 52 establishments have been furnishing employment information quarterly.

There are no large-scale industries in the Territory. Cottage and small-scale industries include handlooms, carpentry, black-smithy, bidi making, soap, basketry, pottery, leather works, tannery and paper making. The total value of the finished goods will be about Rs. 2·5 crores. Most of these are co-operative undertakings. In the cottage and small-scale industries 16,000 persons are engaged.

LAND REFORMS

Present System : The Tribals resort to shifting cultivation called jhuming. The Administration is trying to settle the jhumias on settled cultivation.

Settled cultivation falls into the following main land system :

Kayemi Taluks : The kayemi talukdars own their land with full proprietory rights including the right of transfer. The revenue payable by them has been fixed in perpetuity.

Takshishi Taluk : Takshishi Taluks are held on settlement mostly for 20 years with successive right of renewal on enhanced revenue. Most of the takshishi taluks are tea estates.

Khas Mahal : Khas mahal lands are settled on the raiyatwari system, usually in small holdings. The raiyats of khas mahal land have permanent and heritable rights and also the right of transfer, in areas where such a right is recognized by custom.

Niskar lands : During Maharaja's time, people who, by their sustained loyalty, good services, or otherwise could win the favour of the Maharaja, were granted Niskar lands (rent free lands).

Proposed Land Reforms : With a view to providing for the abolition of intermediaries, regulation of rights of owners and tenants, fixation of ceilings on existing holdings and future acquisitions and prevention of fragmentation, "The Tripura Land Revenue and Land Reforms Act, 1960" has been passed and has received the assent of the President. Rules under different sections of the Act (Act 43 of 1960) are being framed.

Displaced Persons (1959-60) : New families settled under : (*a*) Colony Schemes 200 families—900 displaced persons ; (*b*) Type Schemes 2,500 families—11,000 displaced persons.

Expenditure incurred : Relief Rs. 7 lakhs ; Rehabilitation Rs. 111 lakhs (Rehabilitation Rs. 32·3 lakhs ; Loan Rs. 78·77 lakhs).

Tribes : Sixteen Tribal colonies have been set up for the Jhumias (shifting cultivators) at various places and the people are gradually taking to settled cultivation. A sum of Rs. 7·976 lakhs has been spent on these schemes upto 1959-60. Betterment of ex-servicemen and labourers is also receiving due attention.

Second Five-Year Plan : The Second Plan provision for Tripura stood at Rs. 9·26 crores. Total expenditure for the 1st three years of the Plan Rs. 438·82 lakhs ; Revised estimates for 1959-60 : Rs. 88·40 lakhs ; Approved Plan ceiling for 1960-61 : Rs. 106·33 lakhs.

Education

The number of primary schools has risen from 1,041 in 1958 to 1,069 including Junior Basic Schools in 1960. The number of Secondary Schools (including higher Secondary High Schools, Senior Basic, Middle Junior High Schools) 105 (1960). (Note :—The number of Middle Junior High Schools has decreased from 114 in 1959 to 105 in 1960 due to non-functioning of the Schools which had been running with only class VI after opening of Senior Basic Schools in those areas and the students of those schools have already been admitted in the Senior Basic Schools). No. of students in Schools 93,490 (which includes 29,600 girls) (1959-60). No. of Colleges (including Basic Training College, Hindi Training Institution, one Polytechnic, Music and Fine Arts College) 7.

Agricultural training centre 1 ; Art & Craft centres 24 ; Nursing training centre 1 ; Oriental studies schools 19 ; Janata College (for the training of Social workers) ; Social education centres (for adults) 419 ; Rashtra Bhasha Learning centres 30.

(*For more statistical information see article on Education.*)

Health

Position 1959-60 : There are 6 hospitals, 6 primary health centres and 109 dispensaries including those under the Tripura Territorial Council and Rehabilitation Department. One family planning centre, one M. & C. W. Centre, dental clinic, leprosy clinic, V. D. Clinic and eye clinic, T.B. clinic also function in the V. M. Hospital, Agartala.

Total No. of beds 289 ; no. of medical officers 135 including homoeopaths and kavirajs ; no. of nurses 97 ; no. of dais 35 ; no. of lady health visitors 3.

Construction work of the 250 bed Rs. 38·57 lakh New Hospital at Agartala is in progress.

Co-operation

Position as upto June 1960 : State Co-operative Union 1, State Co-operative Bank 1, Land Mortgage Bank 1, Central Weavers' Societies 2, Agricultural Credit Societies with multipurpose societies 265, Supervising Unions 2, Farming Societies 22, Fishermen Societies 8, Marketing Societies 6, Agricultural Purchase and Sale Societies 39, Non-Agricultural Credit Societies 9, Non-Agricultural Buying and Selling Societies 16, Weavers' Societies 51, Milk Supply Societies 2, Khadi & Village Industries 70 and Social & Others 15.

During 1959 a sum of Rs. 10,55,000 was advanced by the State Co-operative Bank to Agricultural Societies as loan.

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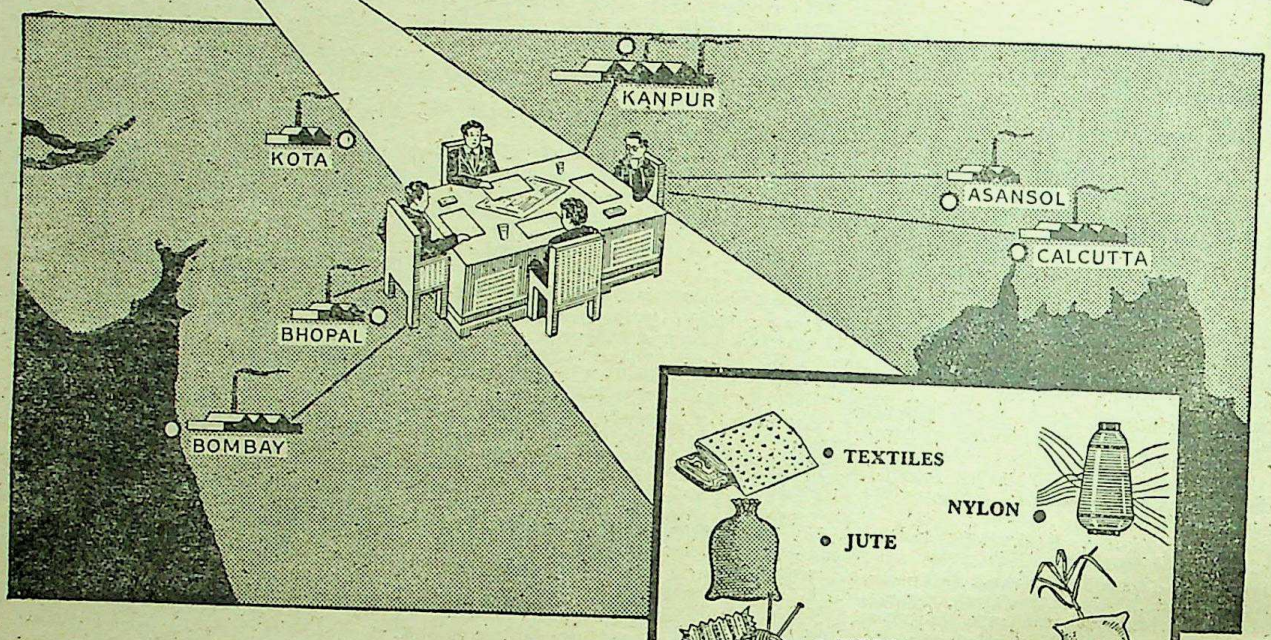
Visualising TOMORROW'S NEEDS Today



Progress is not achieved in a day. It is the result of Forethoughts, Sweat, Toils and Tears and when one plan is executed you have to think ahead of future plans so that progress could be continuous.

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UTTAR PRADESH

Area : 113,454 square miles.

Population : 73,752,914 (1961 census) (Provisional).

Males : 38,664,463 ; Females : 35,088,451. Density : 650 per sq. mile. Percentage of increase 16.67 from 1951 Census.

Capital : Lucknow.

Uttar Pradesh is a member of the Central Zone of which the other member is Madhya Pradesh. The headquarters of the zone is at Allahabad.

Number of Districts : 54 ; Tahsils : 233 ; Antarim Zila Parishads : 57 ; Municipalities : 132 ; Town Areas : 278 ; Notified Areas : 28 ; Panchayats : 72,409 ; Villages : 1,11,742.

There are eleven revenue divisions under 11 full-fledged commissionerships namely Meerut (Hqrs. Meerut), Allahabad (Hqrs. Allahabad), Varanasi (Hqrs. Varanasi), Lucknow (Hqrs. Lucknow), Agra (Hqrs. Agra), Gorakhpur (Hqrs. Gorakhpur), Faizabad (Hqrs. Faizabad) and Rohilkhand (Hqrs. Bareilly), Jhansi (Hqrs. Jhansi), the Kumaon (Hqrs. Nainital) and Uttarakhand (Hqrs. Lucknow).

Names of the eleven revenue divisions with the districts comprising each :

Meerut Division : Dehra Dun, Saharanpur, Muzaffarnagar, Meerut, Bulandshahr.

Agra Division : Aligarh, Agra, Mainpuri, Etah, Mathura.

Allahabad Division : Farukhabad (Fategarh), Etawah, Kanpur, Fatehpur, Allahabad.

Rohilkhand Division : Bareilly, Bijnor, Budaun, Moradabad, Rampur, Shahjahanpur, Pilibhit.

Jhansi Division : Jhansi, Jalaun (Orai), Hamirpur, Banda.

Varanasi Division : Varanasi, Mirzapur, Jaunpur, Ghazipur, Ballia.

Gorakhpur Division : Gorakhpur, Deoria, Basti, Azamgarh.

Kumaun Division : Naini Tal, Almora, Garhwal (Pauri), Tehri-Garhwal (Narendranagar).

Lucknow Division : Lucknow, Unnao, Rae Bareli, Sitapur, Hardoi, Kheri (Lakhimpur).

Faizabad Division : Faizabad, Gonda, Bahraich, Sultanpur, Pratapgarh, Barabanki.

Uttarakhand Division : Uttar Kashi, Chamoli, Pithorgarh.

PANCHAYATS

Under the U.P. Panchayat Raj Act, 1947, Gaon Panchayats at the village level and Nyaya Panchayats for every circle have already been established. District Boards have ceased to exist, and their functions have been temporarily assigned to an interim Zila Parishad.

Under the provisions of the Zila Parishads Bill, the Zila Parishad will combine the functions of the erstwhile District Boards and District Planning Committees and will be in charge of the execution of development plans, either by themselves or through the Block Development Committees and Gaon Panchayats. The existence of Block Development Committees has been statutorily recognised, and the Bill provides for such committees at Block level. The Zila Parishad shall delegate such powers and functions to these committees, as it thinks fit. These committees will be governed by regulations to be framed by the Parishad.

DISTRICTS & TALUKAS—AREA

Names of Districts with the names of talukas and their area in square miles respectively within brackets :

Dehra Dun District (Chakrata 447 ; Dehra Dun 742 ; Mahoba 354 ; Maudaha 604 ; Rath 655).

Saharanpur District (Deoband 385 ; Nakur 430 ; Roorkee 706 ; Saharanpur 626).

Muzaffarnagar District (Budhana 288 ; Jansath 440 ; Kairana 438 ; Muzaffarnagar 468).

Meerut District (Baghpat 400 ; Ghaziabad 445 ; Hapur 407 ; Mawana 421 ; Meerut 286 ; Sardhana 341).

Bulandshahr District (Anupshahr 456 ; Bulandshahr 476 ; Khurja 459 ; Sikandrabad 521).

Aligarh District (Atrauli 351 ; Hathras 291 ; Iglas 214 ; Khair 402 ; Koil 355 ; Sikandra Rao 337).

Mathura District (Chhata 407 ; Mat 331 ; Mathura 410 ; Sadabad 308).

Agra District (Agra 219 ; Bah 338 ; Etmadpur 278 ; Fatehabad 241 ; Firozabad 203 ; Kheragarh 308 ; Kiraoli 273).

Mainpuri District (Karhal 218 ; Jasrana (Mustafabad) 317 ; Bhongaon 459 ; Mainpuri 386 ; Shikohabad 294).

Etah District (Aliganj 517 ; Etah 482 ; Jalesar 227 ; Kasganj 487).

Bareilly District (Aonla 317 ; Baheri 369 ; Bareilly 441 ; Faridpur 244 ; Nawabganj 221).

Bijnor District (Bijnor 482 ; Dhampur 458 ; Nagina 457 ; Najibabad 438).

Budaun District (Bisauli 360 ; Budaup 454 ; Dataganj 419 ; Gunnaur 359 ; Sahaswan 422).

Moradabad District (Amroha 383 ; Bilari 333 ; Hasanpur 569 ; Moradabad 316 ; Sambhal 475 ; Thakurwara 240).

Shahjahanpur District (Shahjahanpur 395 ; Pawayan 591 ; Jalalabad 361 ; Tilhar 413).

Pilibhit District (Bisalpur 365 ; Pilibhit 466 ; Puranpur 512).

Rampur District (Bilaspur 205 ; Huzur 180 ; Milak 156 ; Shahabad 167 ; Suar 130 ; Tanda 61).

Farrukhabad District (Chhibramau 418 ; Farrukhabad 485 ; Kaimganj 364 ; Kannauj 393).

Etawah District (Aurajya 415 ; Bharthana 417 ; Bidhuna 429 ; Etawah 427).

Kanpur District (Akbarpur 368 ; Bhognipur 380 ; Bilhaur 387 ; Derapur 403 ; Ghatampur 423 ; Kanpur 418).

Fatehpur District (Fatehpur 642 ; Khaja 485 ; Khajuha 514).

Allahabad District (Chail 303 ; Handia 297 ; Karchhana 521 ; Manjhanpur 274 ; Meja 658 ; Phulpur 289 ; Sirathu 233 ; Soraon 264).

Jhansi District (Garautha 594 ; Jhansi 482 ; Lalitpur 1,059 ; Mahroni 887 ; Mau Ranipur 424 ; Moth 438).

Jalaun District (Jalaun 514 ; Konch 409 ; Kalpi 480 ; Orai 358).

Hamirpur District (Hamirpur 416 ; Kulpahar 591 ; Mahoba 354 ; Maudaha 604 ; Rath 655 ; Charkhari 159).

Banda District (Banda 614 ; Baberu 610 ; Naraini (Girwan) 523 ; Karwi 822 ; Mau 317).

Varanasi District (Varanasi 596 ; Chandauli 510 ; Bhadohi 418 ; Chakia 474).

Mirzapur District (Chunar 562 ; Dudhi 988 ; Mirzapur 1,186 ; Robertsganj 1,633).

Jaunpur District (Jaunpur 288 ; Kirakot 246 ; Machhlishahr 344 ; Mariahu 320 ; Shahganj 361).

Ghazipur District (Ghazipur 558 ; Mohammadabad 313 ; Saidpur 428).

Ballia District (Ballia 446 ; Bansdih 374 ; Rasra 421).

Gorakhpur District (Bansgaon 531 ; Gorakhpur 655 ; Maharajganj 682 ; Pharenda 569).

Deoria District (Deoria 493 ; Hata 546 ; Padrauna 559 ; Salempur 495).

Basti District (Bansi 614 ; Basti 553 ; Domariaganj 586 ; Harraiya 500 ; Khalilabad 565).

Azamgarh District (Azamgarh 313 ; Mohammadabad 358 ; Sagri 350 ; Ghosi 364 ; Phulpur 441 ; Lalganj 384).

Naini Tal District (Haldwani 1,279 ; Kashipur 189 ; Kichha 820 ; Naini Tal 433).

Garhwal District (Lansdowne 1,056 ; Pauri 961).

Lucknow District (Lucknow 387 ; Malihabad 327 ; Mohanlalganj 275).

Unnao District (Hansanganj 440 ; Purwa 551 ; Safipur 409 ; Unnao 402).

Rae Bareli District (Dalmau 472 ; Maharajganj 464 ; Rae Bareli 375 ; Salon 444).

Sitapur District (Biswan 558 ; Misrikh 596 ; Sidhauli 542 ; Sitapur 511).

Hardoi District (Bilgram 588 ; Hardoi 632 ; Sandila 555 ; Shahabad 539).

Kheri District (Lakhimpur 1,053 ; Muhamdi 663 ; Nighasan 1,251).

Faizabad District (Akbarpur 539 ; Bikapur 460 ; Faizabad 355 ; Tanda 350).

Gonda District (Gonda 619 ; Tarabganj 663 ; Utraula 1,560).

Bahraich District (Bahraich 931 ; Kaisarganj 683 ; Nanpara 1,022).

Sultanpur District (Amethi 366 ; Kadipur 439 ; Musafirkhana 397 ; Sultanpur 508).

Pratapgarh District (Kunda 543 ; Pratapgarh 437 ; Patti 467).

Bara Banki District (Fatehpur 500 ; Haidarganj 290 ; Nawabganj 360 ; Ramsanehighat 584).

Particulars about talukas in Uttar Kashi Dist., Almora Dist., Chamoli Dist., Tehri Garhwal Dist. and Pithorgarh Dist. are not available.

AGRICULTURE

Main food crops : Wheat, barley, gram, rice, jowar, bajra and maize.

Main cash crops : Sugar-cane, linseed, rape seed, mustard, groundnut, til, cotton and jute.

Figures are for 1958-59. Latest available :

Total foodgrains (cereals and pulses) production (1958-59) : 12,814,672 tons.

Production of individual food crops in tons for 1958-59 : Rice 29,84,450 ; Barley 13,95,449 ; Bajra 5,54,442 ; Kodon 2,20,678 ; Maize 6,11,255 ; Peas 6,53,106 ; Potatoes 7,84,050 ; Wheat 30,36,278 ; Juar 6,24,442 ; Mandua 95,625 ; Sawan 77,174 ; Gram 17,58,452 ; Arhar 6,50,480 ; Kakun 4,412 ; Kutki 1,422 ; Masur 79,753 ; Urd 57,968 ; Moong 4,152 ; Moth 5,134 ; Sugarcane 3,07,64,700 (in terms of cane).

Production of individual non-food crops in tons for 1958-59 : Linseed 1,07,070 ; Rapeseed and Mustard 5,19,794 ; Groundnut 1,42,537 ; Til 1,08,570 ; Cotton 34,022 bales ; Jute 94,567 bales ; Indigo (for dye) not available ; Tobacco 12,971 ; Castor 1,811 ; Oilseeds 8·80 lakh tons.

Position as in 1958-59 :

Area of State in acres : 7,41,41,284.

Area cultivated : 4,21,22,446 acres ; Area of uncultivated land = 3,20,18,838 acres ; Area cultivated more than once = 1,16,72,016 acres.

Area under wet cultivation : 1,21,36,855 acres ; Area under dry cultivation : 2,99,85,591 acres.

Area under food crops : 5,00,25,260 acres ; Area under Non-food crops : 37,69,196 acres.

Area under individual food crops (in acres) for 1958-59 : Rice 1,02,06,115 ; Wheat 95,64,091 ; Barley 45,91,387 ; Juar 22,59,617 ; Bajra 26,66,517 ; Maize 27,01,501 ; Mandua 4,85,147 ; Sawan 5,12,371 ; Kodon 9,93,377 ; Kakun 32,916 ; Kutki 12,449 ; Gram 67,26,494 ; Peas 24,13,421 ; Arhar 15,84,148 ; Masur 4,98,465 ; Urd 4,02,089 ; Moong 30,236 ; Moth 38,448 ; Potato 2,71,943 ; Other fruits and vegetables 5,06,421 ; Sugarcane 27,46,911 ; other food crops 7,81,202.

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Area under individual non-food crops (in acres) for 1958-59 : Linseed 2,02,867 ; Rapeseed and Mustard 3,72,882 ; Groundnut 4,78,059 ; Til 2,02,440 ; Castor 6,934 ; Cotton 1,97,155 ; Jute 36,228 ; Sanai 2,47,171 ; Tobacco 41,939 ; Opium 17,642.

Area possibly available for further cultivation through reclamation measures :—74,69,002 acres (for plains only).

Total forest Area of State = 1,05,81,299 acres.

Three types of trees are planted in the State : (*a*) Fruit trees, (*b*) Fuel trees and (*c*) Timber trees.

Area of plantation and new orchards in 1958-59 : 20,008 acres.

Number in plantation : Fruit trees 19,18,112 ; Fuel & Timber trees 8,81,019.

LIVESTOCK

The following figures are for the period ending June, 1960 : No. of cow bulls 748 ; No. of buffaloe bulls 346 ; No. of rams 327 ; No. of bucks 79 ; No. of boars 316 ; No. of horse and donkey stallion stands 46 ; No. of circle laboratories 4 ; No. of central laboratory 1 ; No. of veterinary hospitals 343 ; No. of stockmen centres 939.

Cattle Breeding : Intensive cattle breeding work was done during the year throughout the State. At all the 14 State Cattle Breeding Farms, pure bred cattle and buffaloes of the allocated breeds were maintained in each of the 9 cattle breeding zones of the State. A total of 11 cattle breeding extension centres are functioning where 5,270 animals were bred and the 15,116 castrations and 2,36,114 inoculations performed.

The Key Village Scheme was implemented to bring about all round development in the State. 83 Artificial Insemination Centres were established in the State under Key Village Scheme, 40 functioning with the financial assistance from the Government of India while the remaining 43 were run entirely at the expense of the State Government.

New Artificial Insemination Sub-Centres were established in 100 Key Village Blocks.

1,12,148 animals (53,861 cows and 58,287 buffaloes) were inseminated while 47,217 males were castrated. The total number of inoculations done in the areas covered by the Key Village Scheme : 9,70,361.

About 900 calves were subsidised with a subsidy of Rs. 10 P.M. between the ages of 6 to 30 months.

At the close of the year there were 10 sheep farms and 20 stud ram centres in the hills and one sheep farm and 22 stud ram centres in the plains. Besides this 20 sheep and wool extension centres were functioning in the State. A total number of 316 rams were issued during the year.

Intensive horse, mule and donkey breeding operations were carried out in 17 districts of the State.

Disease control : No. of outbreaks of animal contagious diseases during the year : 2,511. 2,626 villages involving 49,072 animals were affected by these outbreaks.

No. of cattle heads inoculated against rinderpest : 18,10,475.

No. of veterinary hospitals in the State : 343. No. of indoor patients treated during the year 11,763 ; outdoor patients 15,37,454.

In order to eradicate the menace caused by the stray and wild cattle in urban and rural areas the animal husbandry dept. launched the schemes of licensing cattle, rounding up of stray cattle and catching and taming of wild cows.

Position 1960 :

No. of fry and fingerlings collected from the old and newly tapped spawning grounds and stored in nurseries : 4,17,89,135 and 22,09,703 respectively.

Departmentally 134 tanks covering an area of 1,621·52 acres were stocked with 31,03,115 fingerlings of major carps. About 7,600 mds. of fish were netted out.

Export of fish from 14 selected centres of the State : 1,86,059 maunds. Quantity of fish sold to the public : 4,730 mds. valued at Rs. 1,99,743.

Twenty-seven nurseries were acquired and 44 were improved, 17,72,525 fingerlings were distributed to private pisciculturists, Gram Samaj, community projects, extension blocks and other interested parties at subsidised rates. Financial assistance amounting to Rs. 0·70 lakhs was granted to 12 fishermen co-operative societies organised by the departmental staff.

Poultry Development : Number of State Poultry Farms at the close of June 1960, 11 ; Number of Poultry Development Blocks 281 ; Number of Poultry Demonstration Units in Hills 15 ; Number of Poultry Extension Centres 21 ; Number of farms birds issued 35,880 ; Number of farm eggs issued 1,95,964 ; Number of Private Poultry Farms subsidised 3.

Central Dairy Farm, Aligarh :

During the calendar year 1959 a total quantity of 4,48,103 lbs. of milk was collected and sold.

Quantity of dairy products produced : Butter 2,35,118 lbs. ; Ghee 80,976 lbs. ; Cream cheese 7,330 lbs. ; Casein 36,654 lbs. ; Lunch cheese 337·4 lbs. The Bacon factory at the farm produced 1,29,606 lbs. of Sausages, 23,843·0 lbs. Ham, 11,287·6 lbs. Pork, 31,914 lbs. Bacon and 34,167·8 lbs. Lard during the calendar year 1959.

FOOD & CIVIL SUPPLIES

Foodgrains distribution through fair price shops remain in force. The number of fair price shops in the State on Nov. 26, 1960 was 5,287.

The releases of foodgrains from the Government stocks during the financial year up to Nov. 26, 1960, were : wheat 1,33,947 tons ; rice 63,819 tons and coarse grain 17,784 tons.

During the financial year 1960-61, the State Government obtained from the Government of India 97,126 tons of wheat upto Nov. 26, 1960.

The purchases of rice are being made through the levy system. The purchases of wheat were suspended with effect from August 8, 1960. The total purchases during the financial year upto Nov. 26, 1960, were : wheat 40,947 tons and rice 44,615 tons.

The State was allotted a monthly quota of 25,000 tons of sugar which has now been reduced to 20,000 tons with effect from Nov. 1960. Supplies from sugar mills are lifted by the U.P. Co-operative Federation along with licensed wholesale dealers on ex-factory price fixed by the Government of India.

LAND TENURE

With the vesting of zamindaris, following the enforcement of the U.P. Zamindari and Land Reforms Act, 1950, on July 1, 1952 in 48 out of the State's 51 districts, estates of nearly 20 lakh zamindars were taken over resulting in direct contact with 12,800,000 Kisans. The area of land taken over from intermediaries is about 6 crore acres.

Liquidated zamindars retain such of Sir, Khudkast and groves of which they have become Bhumidhars.

The new land tenures under the U.P. Zamindari Abolition and Land Reforms Act are : Bhumidhar, Sirdar and Asami.

The main features of the Zamindari Abolition, and Land Reforms Act are : Extinction of intermediaries' rights ; Payment of equitable compensation ; Payment of rehabilitation grant to ex-intermediaries who paid land revenue upto Rs. 10,000 per annum ; Undisturbed possession of land by actual tillers of soil and conferment of greater rights upon them ; Undisturbed possession by every person of his house, well or grove ; No landlord-tenant system to be in force in future *i.e.* prohibition of sub-letting except in restricted cases of disabled persons ; Prevention of uneconomic holdings ; Village community to own all common lands and to have powers of land management ; The entire body of bhumidars and sirdars to be jointly and severally responsible for the payment of land revenue ; and a provision for co-operative farming.

Every ex-intermediary (ex-zamindar) is entitled to compensation at the rate of eight times his net assets. In addition, every ex-intermediary, whose land revenue did not exceed Rs. 10,000 would be given rehabilitation grant at a graduated specified scale.

Uttar Pradesh denies landlords the right to evict tenants even for self-cultivation of the vacated holdings.

The abolition of zamindaris released 43,969,300 acres, that is, 96·3 per cent of the total land holdings, in the State. Two classes of cultivators, *bhumidhars* (owners of land) and *sirdars* (wielders of the plough), enjoy different rights.

Of the alienated lands, nearly nine million acres of waste land were made over to the village communities for management. Another 2,400,000 acres of waste land and private forests were handed over to the Forest Department for development.

The final zamindari abolition compensation payable to ex-intermediaries is assessed at Rs. 68·83 crores. Upto the end of July 1960, compensation to the tune of Rs. 65,24,74,119 had been paid to them of which a sum of Rs.16,20,96,119 was in cash and Rs. 49,03,78,000 in 2½ per cent interest bearing transferable 40 year bonds.

Rehabilitation grants payable to ex-intermediaries have been estimated at about Rs. 70 crores. Upto the end of July 1960, grants totalling about Rs. 41,92,50,000 had been paid in cash and in 25 years non-interest bearing transferable bonds.

The State Government are also paying compensation to former landholders of adhivasis who were declared as sirdars in 1954. Their number is about 40,40,830. The amount of compensation payable to their erstwhile landholders is estimated at about Rs. 13 crores. Till the end of July 1960, compensation on this account amounting to Rs. 5,95,22,645 has been paid to them in cash and Rs. 21,86,900 in bonds.

In future, no more than 12½ acres including the existing holdings can be acquired by a person in his and in the name of his family which includes wife or husband, as the case may be, and minor children. The corresponding limit in the trans-Yamuna portions of the State, the Tarai and Kashipur sub-divisions and certain areas in Mirzapur District has been fixed at 25 acres.

According to official estimates, over 7·5 lakh families in this State are landless. The percentage of landless labourers to tenure holders works out at 16·1 against 51 in Bihar, 54·4 in Rajasthan, 71·4 in Madras and 73·2 in Kerala.

Likewise, the cultivated land available for an average family in Uttar Pradesh is the lowest in India and does not exceed 4·8 acres against 13·1 in north-west India, 11·7 in Central India, 6·3 in Eastern India and 5·7 in south India.

There are only 9,976 holdings, each more than 50 acres and totalling 13,19,515 acres. Excluding about 2,100 mechanised farms from the operation of ceilings proposed by the Planning Commission's directive, only about five lakh acres would be available for distribution among the landless.

Consolidation of holdings : Operations under the scheme are being carried out in 58 tehsils of 35 districts of the State, comprising 22,887 villages having a cultivated area of about 93·35 lakh acres. Till Sept. 30, 1960 the scheme of consolidation had been completed and chaks transferred in 11,012 villages while demarcation of chaks had been made in 11,310 villages. The scheme affected 12,51,357 tenure holders who held 1,12,24,446 plots, which were transformed into 30,29,001 chaks.

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Bhoodan: Land gifts amounted to 2,95,431 acres at the end of Sept. 1959 out of which 97,383 acres had been distributed by the Bhoodan Committee.

IRRIGATION

Area irrigated by State Irrigation works (1959-60): 90·8 lakh acres.

Number of tube-wells energised and brought into operation till March 1960: 6,429. Area irrigated by tube-wells 19,71,000 acres; by canals 71,09,000 acres.

Total additional area brought under irrigation from State irrigation works of the first and second plans during 1959-60 was 21·00 lakh acres. Total estimated rise in output was about 5·25 lakh tons.

Names of irrigation projects in execution with the area in acres which will be irrigated, total cost in lakhs of rupees and probable date of completion wherever available, respectively within brackets:

803 miles extension of Sarda Canal (1,76,000; 49·00; 1956-57). 1,062 miles extensions of Sarda Canal (176,000; 137·77; 1956-57); Pratapgarh Branch (extension of Sarda Canal) (59,400; 73·71; 1958-59); Transkalyani Project (Extension of Sarda Canal (47,100; 81·61; 1956-57); Sarda Canal Reservoir in Tarai Forest Stage I including Jaunpur Branch and increasing capacity of Sarda Canal (1,67,400; 479·49; 1959-60); Increasing capacity of Ganga Canal (1,12,320; 15·85; 1957-58); Irrigation schemes in Kumaon (19,800; 54·50; 1960-61); Banganga Canal (22,000; 43·10; 1957-58); Mata Tila Dam Stages I & II (412,500; 1139·00; III Plan); Arjun Dam (26,600; 115·00; 1956-57); Belan and Tons Canal (1,01,500; 241·16; 1958-59); Ahraura Dam (21,930; 59·02; 1956-57); Chandraprabha Dam (35,000; 87·72; 1957-58); Shahaganj Distributary (20,000; 18·69; 1956-57); Tanda Pumped Canal (67,900; 84·49; 1961); Naugarh Dam (86,000; 132·97; 1959-60).

Continuing Schemes: Names of the schemes not mentioned in the above list with the irrigation benefits in thousand acres and probable or actual date of completion respectively within brackets: Dohrighat Pumped Canal (118·80; 1960-61); Remodelling Eastern Yamuna Canal (118·80; 1961); Remodelling of Agra Canal (27·40; 1961); Narayani Gandak Pohkra Canal (50·50; 1960-61); Afzalgarh Canal (10·00; 1957-58); Remodelling Jani Escape (benefits included in increasing capacity of Upper Ganga Canal; 1958-59).

Second Plan schemes with irrigated benefits in thousand acres and probable date of completion within brackets: Ohen Reservoir (15·50; 1960-61); Tumaria Reservoir (40·00; 1960-61); Nanak Sagar (131-72; 1960-61); Upper Khajuri (18·00; 1960-61); Jirgo Reservoir (64·00; 1960-61); Kwano Pumped Canal (21·22, 1960-61).

Drainage and floods: 349 miles of bunds completed, about 4,178 villages raised, 632 miles long drains completed, 60 miles of roads raised, besides protection to a number of towns and wide-scale flood surveys and discharge observations.

Names of certain irrigation systems with the area irrigated in acres by each during 1959-60: Upper Ganga Canal 17,23,150; Lower Ganga Canal 14,81,017; Eastern Yamuna Canal 4,73,351; Agra Canal 3,98,006; Betwa Canal 2,88,623; Ramganga Canal 16,474; State Tube-wells 19,70,988; Banganga Canal 14,568; Sarda Canal 14,81,265; Rohilkhand Canals 52,551; Ghagra Canal 52,551; Ken Canal 2,39,424; Canals in Tarai Division 36,783; Canals in Kumaon Division 22,101; Dhasan Canal 87,732; Belan Canals 64,927; Dohrighat 21,468; Chakia & Chandauli Canal 1,74,669; Lakes and Tanks 38,205; Bundhis 25,656; Rampur Canals 53,433; Dum Canals 27,545.

Total irrigation potential created by Plan projects upto March 1960: 21,00,000 acres; Total area irrigated as a result of this newly created potential upto March 1960: 12,60,000 acres.

Community Projects: The community development programme covers about 62,000 villages with a population of 284 lakhs. This is 52 per cent of the total rural population of the State.

During the year ended March 1960 about 71 pre-extension blocks were opened in two series, 56 blocks entered stage I, 28 blocks (of 1955-56 series whose life in the intensive development phase had been extended by one year for the utilization of unspent balances) entered stage II.

The total number of blocks of various types functioning in March 1960 was 597. Of these 71 were pre-extension 311 stage I, 61 stage II and 54 Intensive development blocks. Till the end of October 1958 there were in the State 370 development blocks covering 46·2 per cent of the total area of the State and 40·4 per cent of the population spread all over its 51 districts. The percentage of the rural population, however, comes to 46·8, with a population of 2,009,024.

(See main article "Community Development Projects".)

POWER

Total installed capacity in State: 359,224 kW. (1959).

Total installed capacity of the Power Stations under the Hydel Unit of U.P. State Electricity Board till March 1960 .. .. 1,89,279 kW.

Total effective capacity of Power Houses under the Hydel Unit of U.P. State Electricity Board .. .. 1,37,859 kW.

Total production including units purchased during the year 1959-60 (Hydel unit, of State Electricity Board U.P.), 59,21,36,000 units.

The Rihand costing Rs. 46 crores (capacity 2,50,000 kW) is to be completed in 1961-62.

Units in KWH sold under different categories during the year 1959-60 in millions (pertains to the Hydel units of State Electricity Board).

Domestic—42·481; Industrial—126·795; Street Lighting—3·358; Agriculture—13·157; State Tube-wells—144·149.

Bulk supply to licensees whose consumption under different categories is not available—46·472; Railways, Cantonments & Pumping—42·880; Free Supplies—19·836.

The following are the names of power houses in operation in March 1960 showing their location and installed capacity in kW within brackets.

Palra Hydro (Bulandshahr: 600); Bhola H. (Meerut: 2,700); Nirgajni H. (Muzaffarnagar: 5,000); Chitaura H. (Muzaffarnagar: 3,000); Salwa H. (Muzaffarnagar: 3,000); Sumera H. (Aligarh: 1,200); Mohammedpur H. (Saharanpur: 9,300); Pathri H. (Saharanpur: 20,400); Tehri H. (Tehri: 20); Khatima H. (Nainital: 41,400); Bageswar H. (Almora: 30); Chandausi Thermal (Moradabad: 9,000); Harduaganj T. (Aligarh: 20,000); Sohwal T. (Faizabad: 19,500); Mainpuri T. (Mainpuri: 10,000); Rampur T. (Rampur: 3,000); Mau T. (Azamgarh: 15,000); Gorakhpur T. (Gorakhpur: 15,000); Moradabad Diesel (Moradabad: 650); Aligarh Diesel (Aligarh: 400); Tundla D. (Agra: 200); Laksar D. (Saharanpur: 50): Meerut D. (Meerut: 250); Saharanpur D. (Saharanpur: 250); Bahraich D. (Bahraich: 3,136); Dhakrani D. (Dehra Dun: 1,400): Pauri D. (Garhwal: 162); Sisiva Bazar D. (Gorakhpur: 127); Hamirpur D. (Hamirpur: 211); Mahoba D. (Hamirpur: 331).

The following are particulars about power-houses after completion of the 2nd Five Year Plan schemes, showing their location and installed capacity in kW. within brackets: Harduaganj T. (Aligarh: 60,000).

These are included in a fuller table given below.

Projects Under Execution

Name of Power House	Installed Capacity	District	Cost in lakhs of rupees	When started	Completion
Harduaganj T	60,000	Aligarh	300·00	1958–59	1962
Matatila H	30,000	Jhansi	645·00	1960–61	1965
Yamuna H	216,000	Dehra Dun	4,244·00	1960–61	1966

LARGE-SCALE INDUSTRIES, MANUFACTURES

Important large-scale industries in the State are Textile (Cotton, Woollen and Jute), Sugar, Power, Alcohol, Glass, Leather and Tanning, Oils, Vanaspati, Rosin and Turpentine, Lantern, Paper and Paper Board, Hosiery, Bobbins, Starch, Agricultural Implements, Catechu, Match, Metal Rolling, Engineering, Cigarettes, Precision instruments and Cement.

The State is not poor in minerals. Limestone, iron and copper ores, glass, sand, mica, gypsum, lead, soapstone, sulphur, fire-clay, magnetite are found in the Himalayan region and elsewhere.

Coalfields exist in the District of Mirzapur in Tehsil Sanghrauli. Gold is found in minute quantities by washing the sands in some of the rivers in the hills. Limestone is found in Mirzapur and stone is largely quarried in the districts of Allahabad, Hamirpur, Banda and Mirzapur. At Churk in Mirzapur District, Government have set up a cement factory with an installed capacity of manufacturing 700 tons of cement per day. An expansion programme to double its capacity is under way. The first kiln was expected to go into production by March 1961. The second was to go into production by July 1961. A firebrick manufacturing plant has also started functioning as a subsidiary unit of the cement factory.

The Government Precision Instrument Factory at Lucknow is engaged in the manufacture of water meters and microscopes of the student and research types.

Kanpur is the chief centre for cotton spinning and weaving mills. According to the latest figures available about 600 persons are employed in registered cotton ginning and baling factories and about 58,000 in spinning and weaving mills.

Agra, the principal centre of shoemaking, is rightly called the Northampton of India and produces shoes worth over a crore of rupees a year. Kanpur is next to it in importance.

There are over 100 tanning centres and three training centres in the State for the development of tanning industry. A research and testing laboratory has been established at Kanpur for the purpose.

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The glass industry is an important industry at Bahjoi, Balawali, Sasni, Harangau, Shikohabad, Naini (Allahabad), Ghaziabad and Varanasi. Firozabad is the chief centre for manufacturing glass bangles in India.

A Govt. sand-washing plant is functioning at Shankergarh in Allahabad Dist. for ensuring supply of iron-free silica sand for manufacturing of quality glasswares.

There are about 25 general glass factories in the State. They produce approximately 40,000 tons of goods per year, worth Rs. five crores. These factories manufacture different varieties of glass articles.

At Firozabad in Agra District, there are 88 glass bangle factories manufacturing bangles. These factories produced approximately 16,000 tons of bangles worth Rs. 3·5 crores. In addition to these factories, there are 15 other small factories in different parts of the State making general goods.

There are four factories manufacturing vegetable ghee (Vanaspati) with a capacity of about 150 tons per day. Their total monthly average outturn during 1958 was about 4,390 tons. The oil crushing industry is well developed in the State since U.P. produces about 2¼ crore maunds of oilseeds. There are over 106 big oil mills registered under Factories Act and over 250 small oil mills working with power. About half a dozen oil mills are equipped with refining plant.

There are about a dozen organised soap factories manufacturing superior quality soap on scientific lines by boiled process besides a number of small scale and cottage industry units. During 1958-59 the production of soap by the organised factories and small scale units, was estimated at 4,000 tons and 7,700 tons respectively.

The paints and varnishes industry is located at Kanpur, Meerut, Bareilly and Lucknow. There are over a dozen medium and small scale factories with a total production capacity of 5,500 tons of paints and enamels and 6 lakh gallons of varnishes. These factories produced 2,000 tons of paints and enamels, 350 tons dry colour and pigments and 2,50,000 gallons of varnish during the year 1958-59. Nearly 50 per cent of the total production is exported outside the State.

Tin canisters are made at Agra, Hathras, Etawah, Mainpuri and Ghaziabad.

There are Fruit Preservation and Canning Institutes at Lucknow and Ramgarh, under the Director of Fruit Utilisation with headquarters at Ranikhet. A fruit processing factory has also been established by the State at Ramgarh.

The sports goods industry in the State is mainly concentrated in Meerut. In order to improve the quality of its products, the industry has been brought within the fold of the Quality Marking Scheme.

There are 68 sugar mills in the State. Production of sugar in U.P. totalled 12·20 lakh tons during the season 1959-60.

The Soda Ash-cum-Ammonium Chloride factory, which went into production in 1959, has an annual capacity of 40,000 tons each of the two fertilisers. The factory has been licensed for doubling its production capacity.

The recently commissioned J. K. Rayon plant at Kanpur produces six tons of viscos yarn, 25 tons of sulphuric acid and five tons of bio-sulphide daily.

The Union Govt. has plan to establish a fertilizer factory at Gorakhpur.

(*For sugar industry see article "Sugar Industry".*)

In the private sector work has started on the aluminium factory at Pipari in Mirzapur and synthetic rubber factory at Bareilly.

A fertilizer factory, an antibiotics factory and a heavy electricals plant have been sanctioned for the State in the public sector.

COTTAGE INDUSTRIES

Main cottage Industries in the State: Textile, leather, brass and copper (utensils), locks, cutlery and building fittings, iron and steel, glass, ceramics and potteries, ghee, oil, soap and gur, wood working, cane and reed furniture and basketry, fibre, essential oils and perfumery, and miscellaneous.

In cottage industries Agra Footwear, Varanasi and Moradabad artistic Brasswares, Varanasi Silk and Brocade, Wooden toy making and glass beed, Saharanpur Wood Carving, Farrukhabad Prints, Lucknow Bidar and Chikan works and Handloom fabrics, Carpet and Shellac industries of Mirzapur, Moradabad horn comb and artistic brassware, Bareilly and Agra durrie making, Meerut, Lucknow and Kanpur musical instruments, Mathura durrie and niwar weaving and calico printing and Pratapgarh Tat-patti are noteworthy.

The German Electroplating Plant has started functioning at Moradabad under foreign experts' guidance.

Cheap credit facilities have been made available for the development of small-scale and cottage industries.

Under the Handloom Development Scheme besides the 162 sales depots and 63 dye houses, as many as 1,177 textile cooperative societies embracing 1,42,164 handlooms out of a total of 2,61,876 registered handlooms, were organized till the end of June 1960. Out of these 429 societies are production-cum-marketing societies. These produced 5,81,23,592 yards of cloth valued at Rs. 5·75 lakhs. A dyeing and finishing factory has also been established at Mau, District Azamgarh. Medium-sized dye houses have also been opened at Meerut and Barabanki.

The handlooms, numbering 2·6 lakhs, directly engage more than 8 lakhs of people to produce annually 300 million yards of cloth. Besides the weavers, there are more than 2 lakhs of other people who earn their livelihood indirectly from this industry.

Annual sales total about Rs. 7 crores through 485 handloom marketing and production societies, 171 co-operative sales depots, 10 government show-rooms, 5 inter-state sales depots, 3 central sales depots, and 5 mobile vans. As many as 66 dye-houses and 2 medium sized dye-houses have been set up in the State for the purpose of fast colour dyeing.

The industry is being strengthened by the setting up of a co-operative spinning mill with 12,000 spindles for providing quality yarn to weavers at Etawah, introduction of powerlooms and establishment of a weavers' colony at Varanasi.

With a view to rendering common facilities of processing scissors and razors, their heat treatment, technical advice and availability of the right type of raw materials, a cutlery has been further expanded at Meerut and Hathras (Aligarh).

A Central Design Centre was established at Lucknow in 1956-57.

The Centre provides for the training of 20 apprentices per year, at a monthly stipend of Rs. 100 each.

For the development of cottage and small scale industries 871 industrial co-operatives have also been organised.

TRANSPORT (31-3-1960)

Total mileage of roads: 38,062.

Mileage of metalled roads: 15,180 under the P.W.D. and 1,716 under District Boards.

Number of passenger service buses: 3,532 (excluding roadways vehicles). Number of goods carrying lorries, trucks: 12,211. Number of taxis: 467.

Fleet of motor vehicles (roadways fleet): Passenger buses 2,914; trucks 162; taxis 50 (excluding withdrawn staff cars used as taxis).

The State owns a transport service under the name of U. P. Government Roadways, managed as a Government Department with the Transport Commissioner as the head.

The State is divided into seven regions namely Agra, Allahabad, Bareilly (with which has been amalgamated the Kumaun region), Gorakhpur, Kanpur, Lucknow and Meerut (with which has been amalgamated the Garhwal region). Each region is in the charge of a General Manager.

The U.P. Road Transport Service (Development) Act, 1955, provides for the grant of compensation to the displaced operators who were not provided alternative routes.

The headquarters of the Transport Commissioner is Lucknow.

Capital invested: Rs. 9,53,45,110 approximately.

Number of routes operated 608. Mileage of routes: 31,078·7. Road mileage covered: 7,735.

By the end of the Second Five Year Plan it was expected to cover 8,000 miles of roads in the State.

Total mileage covered (1959-60): 8,37,55,780.

Number of vehicles owned by authority on September 30, 1960: Buses: 2,972; Trucks: 153; Taxis: 50.

Number of nationalised city bus services: 44.

Cities where Roadways operate city bus services: Allahabad, Bareilly, Lucknow, Varanasi and Agra.

Names of places where suburban bus services operate: Mathura-Vrindaban, Fatehgarh-Farrukhabad and Dehra Dun-Premnagar-Clement Town.

Names of inter-State routes operated by the Government Roadways: Varanasi-Bhabua, Allahabad-Rewa, Agra-Gwalior, Dehra Dun-Ambala and Hardwar-Pehowa.

Roadways have 55 depot workshops and regional workshops undertaking maintenance and repairs of Roadways fleet. There is a Central Workshop at Kanpur undertaking heavy repairs, reconditioning of engines, chassis, manufacture of bus bodies and batteries, etc. in addition to training of technical personnel.

Special tourist buses have been provided to carry tourists to places of interest and scenic beauty.

Number of passengers carried by Roadways buses (1959-60): 11,25,87,801.

Total revenue (1959-60): Rs. 8,83,69,950.

Profit: Rs. 203 lakhs approximately.

No. of persons employed (March, 1960): 14,928.

Rate of bus fare for lower class: 7·5 pies per passenger per mile.

Goods service has not been nationalised.

CO-OPERATION

More than 40,000 Gram Sabhas having almost 30 lakh families as members operated in the State in 1960-61. The loan sanctioned by the co-operative institutions has increased from Rs. 4 crores to 25 crores.

The Reserve Bank of India sanctioned credit limits to the extent of Rs. 10 crores without any guarantee from the State Govt. The primary societies increased their owned funds from a sum of Rs. 3·99 to 9 crores during the 2nd Plan. The rise in the owned funds of the Central Bank and co-operative banks reached Rs. 6·50 crores from Rs. 1·64 crores, while the owned fund of the co-operative banks was Rs. 2·55 crores.

More than 10,000 service cooperatives now function in the State. They distributed loans to the tune of Rs. 4 crores and handled large quantity of fertilizers. Over 1,527 seed stores distributed seed worth Rs. 4 crores on *sawai* to cultivators during 1960.

(See main article "Co-operative Movement").

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HOUSING

Under the Subsidised Industrial Housing Scheme construction of 25,588 houses were undertaken at an estimated cost of Rs. 8,00,55,864 during the First and Second Plan period. Construction of 13,426 tenements were completed during First Plan and 8,400 tenements during the Second Plan period. The remaining 3,762 tenements are under construction.

The townwise distribution of houses constructed so far: Kanpur 15,484; Lucknow 1,046; Agra 1,296; Firozabad 1,000; Allahabad 504; Saharanpur 792; Mirzapur 96; Govindpuri 276; Rampur 384; Hathras 216; Bareilly 108; Gorakhpur 108; Naini 516.

During the Third Plan period it is proposed to undertake construction of 9,500 houses. The total allocation proposed for the Subsidised Industrial Housing Scheme during the Third Plan period is Rs. 400·00 lakhs. The houses are proposed to be constructed at Kanpur, Lucknow, Pipri, Sahupuri, Govindpuri, Ghaziabad, Shikohabad and Naini.

Under the Low Income Group Housing Scheme 6,499 houses have been completed so far. A sum of Rs. 462·55 lakhs had been earmarked for the scheme during the Second Five Year Plan for construction of 3,675 houses and development of 186·75 acres of land. Since the inception of the Scheme a total amount of Rs. 5;52,53,943 has been disbursed to various local bodies, U.P. Co-operative Bank, educational and charitable institutions.

Slum Clearance Scheme: Under the Slum Clearance Scheme the Government of India had sanctioned project costing Rs. 196 lakhs envisaging construction of 5,369 houses and 17 plots in kayal towns in U.P. during the Second Plan period. The Central Government will contribute Rs. 82·84 lakhs as loan and Rs. 64·15 lakhs as subsidy and the remaining Rs. 49 lakhs will be contributed by the State Government as loan and subsidy.

A sum of Rs. 147·50 lakhs had been released to the executing agencies till the end of 1959-60. A sum of Rs. 48·50 lakhs was to be disbursed during the year 1960-61 under the Scheme. Taking into account the progress already made under the Scheme a provision of Rs. 300 lakhs has been recommended by the Working Group on Housing for the Third Plan period.

Village Housing Projects Scheme was another important scheme included in the housing programme of the Second Five-Year Plan. A sum of Rs. 57 lakhs was expected to be distributed as loan during the Second Plan period and the scheme was proposed to be implemented in 850 villages. 507 villages have been selected for the scheme. Socio-economic survey has been completed in 371 villages and physical engineering survey in 410 villages. Master Plans have also been prepared for 420 villages. So far an expenditure of Rs 23·22 lakhs has been incurred on this scheme.

Other housing schemes in the State include Middle Income Group Housing Scheme, Plantation Labour Housing Scheme, Sugar Factory Labour Housing Scheme and the scheme of housing municipal sweepers in 37 towns. Work in regard to construction of quarters for sweepers is nearing completion.

MEDICAL AND PUBLIC HEALTH

Vital Statistics (1959):

Death Rate (per thousand) 9·68; Birth Rate (per thousand) 15·83 (1958).

Total number of deaths from: Cholera 6,751; Plague Nil; Small-Pox 28,336; Malaria 53,300 (1958).

Number of State Hospitals and Dispensaries:

Allopathic 668; Indigenous 600.

Maternity & Child Welfare Centres 1,148; Maternity Houses 7.

Number of patients treated in State Hospitals and Dispensaries: Indoor 5,06,870; Outdoor 1,84,39,646.

Number of beds in State Hospitals: 18,928.

Number of operations performed in State-owned hospitals and dispensaries: 6,76,013.

Number of Doctors in Government Service: 2,096.

Number of Doctors registered in U.P.: 7,942.

Number of Nurses: 1,343.

Number of Registered Vaids and Hakims: 30,615.

Number of Vaids and Hakims in Government service: 602.

Number of State allopathic dispensaries in the countryside: 630.

Number of Ayurvedic and Unani dispensaries: 600.

State Expenditure on Medical Department: Rs. 4,63,76,865 (1959-60).

State Expenditure on Public Health (1959-60): Rs. 2,44,90,231.

With the assistance of the W.H.O. and UNICEF, 200 child welfare centres have been opened since 1947.

Number of T.B. Sanatoria: 10; T.B. Clinics: 21. Total number of beds in the T.B. Sanatoria and clinics: 1,378; T. B. Wards 15 (1960).

Number of leprosy asylums: 18.

Number of beds: 1,484.

One study and treatment centre at Dehra Dun and 8 subsidiary centres at Gorakhpur, Basti, Varanasi, Bahraich, Moradabad, Kheri, Barabanki and Azamgarh also function in the State under Government of India's Pilot Project Scheme for control of leprosy. Also there are 3 leprosy clinics at Kanpur, Varanasi and Deoria and 2 mobile leprosy units at Hamirpur and Jhansi.

A venereal disease hospital functions at Chakrata in Dehra Dun District. No. of V. D. Clinics 2.

Number of women's hospitals: 153.

The Employees' State Insurance scheme is in operation in Kanpur, Lucknow, Agra, Saharanpur, Allahabad, Varanasi, Rampur, Aligarh, Hathras, Bareilly, Shikohabad, Modinagar, Ghaziabad, Mirzapur and Sahjanwa in Gorakhpur District.

From November 1959, families of workers insured under this scheme are also being provided medical treatment. The total number of dispensaries opened under the scheme has since risen from 40 to 62.

LABOUR

Total number of registered factories in the State 2,411, of which 1,986 have submitted returns (1958); Daily average number of the workers as per returns submitted 268,612.

Total no. of women workers 3,521 (1958).

Industries in which minimum wage is fixed: Rice, Flour, or Dal Mills, Tobacco (including Bidi making), Manufactory Cinchona Rubber, Tea or Coffee Plantation in Dehra Dun District only, Oil, Road Construction or Building operations, Stone Breaking or Stone Crushing, Lac Manufactory, Tanneries and Leather Goods Manufactory, Public Motor Transport and Woollen Carpet Industry.

Total number of man days lost 447,073; Lockouts and Strikes: 77 (1958).

State Govt. Acts for the welfare of the labourers:

(1) U.P. Shops and Commercial Establishment Act (1947), (2) U.P. Industrial Disputes Act, (3) U.P. Maternity Welfare Act, (4) U.P. Sugar and Alcohol Industry Labour Welfare and Development Fund Act, (5) U.P. Industrial Housing Act (1955).

Trade Unions: 1,095.

Labour Welfare Centres 65: Total annual expenditure on them Rs. 18 lakhs.

Under subsidised Industrial Housing Scheme 21,906 houses were constructed. Under the sugar factory labour housing scheme, 1,380 houses were constructed in 61 sugar mills at a cost of Rs. 36,45,689.

Provident Fund Scheme covers 1,62,000 employees in 413 factories. Employees' State Insurance Scheme has been enforced in 15 industrial towns, covering 1,78,000 employees.

Upto November 1960, old age pension for the destitute septugenarians was sanctioned for 7,123 persons. Number of employment exchanges and that of Industrial Training Institutes, both run by the Directorate of Training Employment, are 51 and 15 respectively.

The Directorate has also started a scheme for collection of employment market information and vocational guidance.

Social Welfare Department: The Department runs a scheme for women welfare in 33 districts, looks after the administration of Suppression of Immoral Women and Children's Institution Act and Probation Acts, runs a couple of centres for youth and child welfare.

The department runs five homes at the State level and 21 centres at the district level for the after-care treatment of destitute persons, both men and women.

The Samaj Kalyan Samiti Scheme is one of the most important schemes of the Department run for creating community consciousness in urban people in all district level quarter cities.

EDUCATION (1959-60)

Total number of Basic Primary Schools 39,689; total enrolment; 40,43,000; total number of teachers 99,885.

Total number of Junior High Schools 4,173; total enrolment 8,60,000; total number of teachers 22,000.

Total number of Higher Secondary Schools 1,732; total enrolment 10,00,000; total number of teachers 35,000.

Total number of Universities 9; total enrolment 30,727 *; total number of teachers 1,732.*

Total number of Degree Colleges 150; total enrolment 54,872*; total number of teachers 2,676.*

Total number of Sanskrit Pathshalas 1,059; total enrolment 40,644*; total number of teachers 4,545.*

Primary education upto class VI was made free from 1957–58.

Compulsory education for boys introduced in 95 municipalities; for girls in the whole area of ten municipalities.

Budget for education in 1959-60 was Rs. 16,20,71,800 while budget for 1960-61 is Rs. 17,22,96,200.

JUDICIARY

A scheme of separation of judiciary from executive was introduced in 1949 in eight selected districts. It was extended to other districts. The scheme was working (April 1960) in 34 districts—Muzaffarnagar, Mathura, Mainpuri, Bareilly, Bijnor, Badaun, Bulandshahr, Moradabad, Jhansi, Lucknow, Shahjahanpur, Farrukhabad, Fatehpur, Unnao, Rai Bareili, Sitapur, Gonda, Bahraich, Etah, Jalaun, Saharanpur, Meerut, Aligarh, Agra, Allahabad, Hamirpur, Banda, Mirzapur, Ghazipur, Ballia, Gorakhpur, Bansi, Baizabad and Pratapgarh. The Govt. has proposed to extend the scheme to 13 more districts (April 1961). Trial by jury has been abolished in the State.

* Figures for 1958-59.

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BUDGET (1961-62)
(See 'Late Particulars')

U.P. FINANCIAL CORPORATION

(See State Financial Corporations under 'Late Particulars').

UNIVERSITIES

Agra University

Chancellor: Governor, Uttar Pradesh (*Ex-officio*).
Vice-Chancellor : C. B. Aggarwal, M.A., B.L.
Registrar : R. S. Agarwal.
Affiliated Colleges 101 ; Students 41,643 (approx.).

CONSTITUENT COLLEGES

K. M. Institute of Hindi Studies, Agra.
Agra University Institute of Social Sciences, Agra.

AFFILIATED COLLEGES

Agra College, Agra ; Agricultural College, Kanpur ; A. K. College, Shikohabad ; A. S. Jat College, Lakhaoti ; Almora Degree College, Almora ; Babu Shivnath Agarwal Degree College, Mathura ; Balwant Rajput College, Agra ; Barhseni College, Aligarh ; Bareilly College, Bareilly ; Brahman Sanskrit Mahavidyalaya, Roorkee ; Bundelkhand Degree College, Jhansi ; Christ Church College, Kanpur ; D. A. V. College, Bulandshahr ; D. A. V. College, Dehra Dun ; D. A. V. College, Kanpur ; D. A. V. College, Muzaffarnagar ; D. N. Degree College, (Fatehgarh) ; D. S. B. Government's Degree College, Nainital ; D. S. M. College, Kanth (Moradabad) ; Dayanand College of Law, Kanpur ; Dayanand Subhas National College, Unnao ; Dayanand Vedic College, Orai ; Dayanand Women's Training College, Kanpur ; Deva Nagri College, Meerut ; Dharmsamaj College, Aligarh ; Digamber Jain College, Baraut ; Engineering College, Dayalbagh, Agra ; G. F. College, Shahjahanpur ; Ganjdundwara Degree College, Ganjdundwara (Etah) ; Gokal Dass Hindu Girls' College, Moradabad ; Govt. Central Textile Institute, Kanpur ; Govt. Raza College, Rampur ; College of Science, Gurukul, Kangri ; Harcourt Butler Technological Institute, Kanpur ; Hindu Degree College, Moradabad ; Post Graduate College of Animal Science (I.V.R.I.), Izatnagar ; J. V. Jain Degree College, Saharanpur ; Jat Vedic Agricultural College, Baraut ; K. G. K. College, Moradabad ; K. V. Degree College, Machhra (Meerut) ; Kishori Raman College, Mathura ; Kishori Raman Girls' College, Mathura ; K. N. Govt. College, Gyanpur (Varanasi) ; Mahadevi Kanya Pathshala, Dehra Dun ; Maharaj Singh Degree College, Saharanpur ; Meerut College, Meerut ; M. M. H. V. College, Ghaziabad ; Multanimal Modi Degree College, Modinagar (Meerut) ; N. R. E. C. College, Khurja ; Nanak Chand Anglo-Sanskrit College, Meerut ; Narain College, Shikahabad ; Phool Chand Degree College, Hathras ; Radhaswami Educational Institute, Dayalbagh, Agra ; Ragunath Girls' College, Meerut ; Raja Mahendra Pratap Prem Vidyalaya College, Narsan (Saharanpur) ; Rastriya Kisan College, Shamli (Muzaffarnagar) ; R. S. K. College, Shimbhaoli (Meerut) ; R. S. M. College, Dhampur (Bijnor) ; S. D. College, Muzaffarnagar ; Shri Saraswati Vidyalaya Degree College, Hapur ; S. M. College, Chandausi ; S. N. Medical College, Agra ; S. N. Sen Balika Vidyalaya Degree College, Kanpur ; St. John's College, Agra ; Tika Ram Kanya Mahavidyalaya, Aligarh ; U. P. College of Vet. Science and Animal Husbandry, Mathura ; Vaish Degree College, Shamli (Muzaffarnagar) ; V. S. S. D. College, Kanpur ; Women's Training College, Dayalbagh, Agra ; Y. D. College, Lakhimpur-Kheri ; Arya Kanya Pathshala Degree College, Hapur ; Bipin Bihari College, Jhansi ; Dayanand Brijendra Swarup Degree College, Kanpur ; Dayanand Girls' College, Kanpur ; Gujar Agricultural College, Rampur Manhyaran (Saharanpur) ; Halim Muslim College, Kanpur ; Janta College, Ajitmal (Etawah) ; Janta College, Bakewar (Etawah) ; Jat College, Muzzaffarnagar ; Jatan Swaroop Degree College, Sikandrabad (Bulandshahr) ; Krishak College, Mewana (Meerut) ; Kurmi Kshattriya College, Etawah ; M. M. College, Khekra (Meerut) ; P. P. N. Degree College, Kanpur ; S. R. K. Degree College, Firozabad, (Agra) ; Sir Chhadami Lal Jain Degree College, Firozabad ; Attarra Degree College, Attarra ; K. L. D. A. V. College, Roorkee ; Kubair College, Dibai (Bhulandshahr) ; Sri Vardhman College, Bijnor ; Baldeo Arya Kanya Pathshala, Moradabad ; B. N. V. College, Rath (Hamirpur) ; Kanya Mahavidyalaya College, Bareilly ; Rajput Shiksha Shivir Degree College, Dhaulana (Meerut) ; Badri Vishal College, Fatehgarh ; J. S. Hindu College, Amroha ; Bhartana Degree College, Bhartana ; Rae-Bareli Degree College, Rae-Bareli ; Guru Ram Rai Degree College, Dehra Dun ; Kulbhaskar Ashram Degree College, Allahabad ; Lala Moti Ram Babu Ram College, Haldwani.

The medium of instruction and examination is English. But the teachers have the option to give lectures in Hindi. Students have the option to answer question papers in Hindi for the B.A., M.A., B.T., B.Com., M.Com. and B.Sc. (Ag.) examinations.

BUDGET ESTIMATES FOR 1961-62

Total income : Rs. 27,95,940.
Total expenditure : Rs. 29,13,258.

Aligarh Muslim University

Aligarh

Chancellor : His Holiness Dr. Sardar Syedna Tahir Saifuddin.
Pro-Chancellor : Nawab Saidul Mulk Dr. Hafiz Mohd. Ahmad Said Khan of Chhatari.
Vice-Chancellor : Col. B. H. Zaidi.
Pro-Vice-Chancellor : Dr. Yusuf Husain Khan.
Registrar : Y. D. Khan.
Residential Students 5,000 (approx.).

MAINTAINED INSTITUTIONS

Women's College, Aligarh ; College of Engineering and Technology, Aligarh ; University Polytechnic, Aligarh ; Tribbiya College, Aligarh ; Institute of Islamic Studies, Aligarh ; Institute of Ophthalmology, Aligarh ; Muslim University High School, Aligarh ; Muslim University City High School, Aligarh ; Muslim University Girls' High School, Aligarh.

BUDGET ESTIMATES FOR 1960-61

	Rs.
Anticipated Income	53,51,990
Anticipated Expenditure	58,22,842
(*a*) Central Govt. grants :	Rs.
Block grant including grant for D.A.	37,90,000
(*b*) U. P. Govt. grants ..	2,03,525
(*c*) Former Ruling States grants	6,000
(*d*) Fees from students ..	9,68,300
(*e*) Other income	3,84,165
Total	53,51,990

With effect from the academic year 1957-58, the University has instituted a one-year Pre-University and a three year integrated degree course in place of the Intermediate and the two year degree courses.

The medium of instruction in all classes of the University is English except in Pre-University and B.A. Part I and B.Com. Part I where a candidate may answer in Urdu or Hindi.

Allahabad University

Chancellor : Dr. B. Ramakrishna Rao, Governor of U.P.
Vice-Chancellor : P. K. Kaul.
Registrar : O. P. Gupta, M.Sc., LL.B., F.R.E.S. (Lond.).
Unitary, teaching, residential ; Colleges 4 ; Students 6,270.

LIST OF COLLEGES

Allahabad Agricultural Institute, Naini, Allahabad.
Chaudhari Mahadeo Prasad Degree College, Allahabad.
Ewing Christian College, Allahabad.
Agarwal Vidyalaya College, Allahabad.

BUDGET ESTIMATES, 1960-61

Total income : Rs. 40,36,465.
Total Expenditure : Rs. 40,36,465.

	Rs.
State Govt. Grant : Recurring ..	25,97,089
Total ..	25,97,089

ACTUALS FOR 1959-60

Total income : Rs. 48,87,030.
Total expenditure : Rs. 47,56,417.
State Govt. Grant : Rs. 19,91,782.

English and Hindi are the media of instruction for graduate course and English is the medium of instruction for post-graduate course.

Banaras Hindu University

Varanasi 5.

Chancellor : His Highness Jaya Chamaraja Wadeyar, Governor of Mysore.
Pro-Chancellor : His Highness Yuvraj Karan Singh, Sadar-i-Riyasat, Jammu & Kashmir.
Vice-Chancellor : Lt.-Col. N. H. Bhagwati, M.A., LL.B.
Pro-Vice-Chancellor : M. C. Bijawat, B.Sc., B.E.
Registrar : Major S. L. Dar, M.A., LL.B.
Residential ; Constituent Colleges 14 ; Affiliated Colleges 7 : Students 7,563 (1960-61).

CONSTITUENT COLLEGES

Central Hindu College ; Central Hindu College (Kamachha) (Intermediate Section), Varanasi ; College of Agriculture ; College of Indology ; College of Mining and Metallurgy ; College of Music and Fine Arts ; College of Science ; College of Technology ; Engineering College ; Law College ; Sanskrit Mahavidyalaya ; Teachers Training College ; Women's College ; College of Medical Sciences.

AFFILIATED COLLEGES

Besant College, Rajghat, Varanasi ; D. A. V. (Degree) College, Varanasi ; Harish Chandra College, Varanasi ; Udai Pratap College, Varanasi ; Vasanta College for Women, Rajghat, Varanasi ; Arya Mahila Degree College, Varanasi ; Vasant Kanya Mahavidyalaya, Varanasi.

BUDGET ESTIMATES FOR 1960-61

Income : Rs. 2,44,20,842.
Expenditure : Rs. 2,45,20,083.

Gorakhpur University

Chancellor : Governor, Uttar Pradesh (*Ex-officio*).
Vice-Chancellor : Brindabasini Prasad.
Registrar : K. J. Majmudar, M.A., B.T.
Teaching and Affiliation.
Constituent College : M. P. Degree College, Gorakhpur.
Affiliated Colleges : 24.
Students : 10,000 (Approximate).

AFFILIATED COLLEGES

Buddha Degree College, Kushinagar, Deoria ; B. R. D. Degree College, Deoria ; Degree College, Ghazipur ; D. A. V. College, Azamgarh ; Harish Chandra Degree College, Varanasi ; Udai Pratap College, Varanasi ; Hindu Degree College, Zamania Ghazipur ; Hobert Triloknath Degree College, Tanda, Faizabad ; K. S. Saket Mahavidyalaya, Faizabad ; K. B. Degree College, Dubhar, Ballia ; K. B. Degree College, Mirzapur ; Kisan Degree College, Basti ; Kisan Degree College, Bahraich ; M. L. K. Degree College, Balrampur, Gonda ; National Degree College, Barhalganj, Gorakhpur ; R. S. K. D. Degree College, Jaunpur ; R. R. Degree College, Amethi, Sultanpur ; St. Andrew's College, Gorakhpur ; S. C. College, Ballia ; S. N. College, Azamgarh ; S. D. D. College, Azamgarh ; T. D. College, Ballia ; T. D. College, Jaunpur ; Tilak Degree College, Pratapgarh.

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BUDGET ESTIMATES FOR 1959-60

Total income : Rs. 27,47,093.
Total Expenditure : Rs. 24,35,815.
State Govt. Grant : Recurring Rs. 17,41,302.

The medium of instruction in all undergraduate classes of the University is Hindi and for post-graduate classes English.

Lucknow University

Residential and Teaching University.
Chancellor, Governor of Uttar Pradesh.
Vice-Chancellor : Randhir Singh.
Registrar, K. D. Tewari, M.A., LL.B.

Number of students : 12,828 including 2,143 women students and 407 research scholars for 1959.

LIST OF ASSOCIATED COLLEGES

Isabella Thoburn College, Lucknow ; Kanya Kubja College, Lucknow ; Karamat Husain Muslim Girls' College, Lucknow ; Lucknow Christian College, Lucknow ; Mahila Vidyalaya College, Lucknow ; Shia College, Lucknow ; Kanya Kubja Vocational College, Lucknow ; D. A. V. College, Lucknow ; Vidyan Hindu College, Lucknow ; Jubilee Girls' College ; Louto Convent Girls' College, Lucknow ; Khunkhunji Girls' College, Lucknow, Shashi Bhushan Balika Vidyalaya Degree College, Lucknow.

The medium of instruction in graduate classes is Hindi.

Roorkee University

Roorkee

Chancellor : Dr. B. Ramakrishna Rao, Governor of Uttar Pradesh.
Pro-Vice-Chancellor : Prof. K. N. Kathpalia, I.S.E. (Retd.).
Vice-Chancellor : G. Pande, M.I.E.
Registrar : S. S. Sharma, M.A.

Unitary, Teaching and Residential ; Students (1959-60) : Full Time 1,476 (men 1,468 ; women 8) ; New admissions 582 (men 576 ; women 6) ; Post-graduate full time 55 ; New admissions 39 ; Post-graduate part-time 34 ; Fresh admissions 55.

Students from other countries : 62 (Nepal 40, Sikkim 2, British East Africa 7, Gold Coast 2, Malaya 3, Burma 2, Sudan 1, Goa 1, Indonesia 1, Mauritius 2.

The medium of instruction is English.

BUDGET FOR 1960-61

Income :

	Rs.
Grant-in-Aid from State Government	21,71,812·00
Grant from Govt. of India ..	1,71,898·75
Loan from Central Government for construction of hostels ..	13,85,600·00
Grant from the University Grants Commission	18,01,884·77
Grants from C.S.I.R., New Delhi and Atomic Energy Commission, Bombay ..	1,61,581·12
Other sources (students' fee, rent income from building and miscellaneous income ..	11,50,663·18
Total	74,43,439·82
Expenditure	85,60,921·29

ASSOCIATIONS, ETC.

ACADEMY OF ZOOLOGY
164, Civil Lines, Agra.

President : Beni Charan Mahendra ; *Secretary :* G. N. Pachori ; *Treasurer :* S. S. P. Capoor.

THE AGRA MERCHANTS' CHAMBER LTD.
Bari Kothi, Belanganj, Agra.

Chairman : Amar Nath Agarwal ; *Vice-Chairman :* R. K. Khandelwal ; *Secretary :* Hoti Lal Jain.

AGRA PAPER MERCHANTS' ASSOCIATION
Rawat Patra, Agra.

AGRA SHOE MANUFACTURERS' ASSOCIATION
1244, Peli Kothi, Shahganj, Agra.

President : A. N. Verma ; *Vice-President :* S. P. Dhir ; *Hony. General Secretary :* H. C. Dewan.

AKATHIT GYAN KENDRA ACADEMY
"Nand Bhavan", Gautam Budh Marg, Lucknow.

Secretary and Director : Dr. S. N. Pandia, M.A., Ph.D.(U.S.A.), C.E.T.D. (London), C.T.D. (Birm.).

AKHIL BHARAT SARVA SEVA SANGH
Sadhna Kendra Rajghat, Kashi.

The Sangh was founded consequent on a resolution passed at a meeting of the representatives of several constructive work organisations (formerly working under the guidance of Mahatma Gandhi) held on the 13th of March 1948 at Sevagram (Wardha).

The Sangh was originally formed as a federation of these organisations. Later, several of these organisations merged themselves into the Sangh, which has thus become the chief executive organ for constructive work. The objects of the Sangh are as follows :—

"To establish a social order free from all exploitation and based on the principles of Truth and Non-violence, and with this object, to foster village-mindedness in the citizens of India.

The programme includes various constructive work items like communal harmony, Khadi, removal of untouchability, basic education, relief to the poor (by securing employment, living wage, security and unemployment benefit, educational and medical facilities), research in hand spinning and weaving.

The Sangh believes in decentralisation of authority whether economic or political. In the political sphere it has faith in direct democracy which it calls 'Gram Swaraj'. The village is accepted by the Sangh as the basic unit for political organisation and economic self-sufficiency.

At present the Sangh is concentrating on the Bhoodan Yajna, Sarvodaya Patra and Shanti Sena movements started by Acharya Vinoba Bhave, a close associate and disciple of Mahatma Gandhi.

Literature about Bhoodan, Sampattidan and other Dan Yajna movements can be had from Akhil Bharat Sarva Seva Sangh, Publication Division, Rajghat, Kashi (Banaras) ; or Navajeevan Prakashan Mandir, Ahmedabad ; or Sarvodaya Prachuralaya, 24, Srinivaspuram, Tanjore, South India. The Sangh also publishes two weekly papers namely *Bhoodan Yajna* (Hindi), *Bhoodan* (English) and one fortnightly paper namely *Bhoodan Tahrik* (Urdu).

The Sangh has its headquarters at Kashi (U.P.).

The Sangh has a general body consisting at present of 298 members, unanimously elected by Lok-sewaks, of their respective districts. The Executive organ of the Sangh is known as the Prabandh Samiti of 25 members. It has a President, a Secretary, two Joint Secretaries and a Treasurer. The Sangh has a Board of Trustees who hold the property of the Sangh in trust.

Four well-known associations which merged into the Sarva Seva Sangh are : All-India Spinners' Association ; All-India Village Industries Association ; Go-Sewa Sangh and Hindustani-Talimi Sangh.

ALIGARH LOCK MANUFACTURERS & TRADERS' ASSOCIATION
Aligarh.

ALL INDIA CRIME PREVENTION SOCIETY
(Recognised by the Social Defense section of the United Nations).

Offices : Behari Niwas, Kanpur and Council House, Lucknow.
President : Paripurnanand Varma.
General Secretary : Dr. B. S. Haikerwal.
Supported by : M.P., U.P. and Bihar Govts. and Government of India.

ALL INDIA FEDERATION OF EDUCATIONAL ASSOCIATIONS
Jha-Seshadri-Khattri Bhawan, P. Box 52, Kanpur.

President, D. C. Sharma, M.A., M.P., 19, Windsor Place, New Delhi ; *Vice-President*, Rev. Fr. M. M. Balaguer, M.A., Principal, Xavier College, Nagpur ; *Jt. Secy. & Treasurer*, A. P. Khattry, B.com., LL.B., Nirbal-ka-Balram House, 16/8A, Civil Lines, Kanpur.

ALL INDIA KASHIRAJ TRUST
Fort Ramnagar, Varanasi.

Objects : Among others, advancement and propagation of the Sanskrit language, Sanskritic learning and Indology.

H.H. the Maharaja of Banaras, *Chairman ;* Dr. Panna Lal, *Trustee nominated by the Govt. of India ;* Dr. Sampurnanand, M.L.A., U.P. and Pt. Kamlapati Tripathi, M.L.A., U.P., *Trustees nominated by the Govt. of Uttar Pradesh ;* Dr. Suniti Kumar Chatterji, Chairman, West-Bengal Legislative Council, Maharaj Kumar Dr. Raghibir Sinh, M.P. and Pt. Murari Lal Mehta, *Trustees nominated by H. H. the Maharaja of Banaras.*

ALL-INDIA NATURE CURE ASSOCIATION
52, Gwynne Road, Lucknow.

President : Kameshwar Dayal ; *Hony. Secretary :* Dr. S. J. Singh.

ALL INDIA SEVA SAMITI
Seva Samiti Buildings,
Seva Samiti Road, Allahabad 3.

The Samiti conducts a library called the Chintamani Memorial Library with over 12,000 volumes, which is also on Seva Samiti Road. The Samiti conducts at Allahabad in addition a hospital called the Seva Samiti Hospital and several other dispensaries in pilgrim centres elsewhere.

It also runs a Seva Samiti Vidyamandir Higher Secondary School in which girls also read upto sixth standard. The Samiti has affiliated branches in various places and has a Northern India branch office at Ambala.

President, G. S. Pathak.
General Secretary, Dr. H. N. Kunzru.
Organizing Secretary, S. R. Bharatya, M.A.

ALLAHABAD AGRICULTURAL INSTITUTE
Allahabad.

Principal : Dr. J. B. Chitambar ; *Registrar :* C. Rawat ; *Treasurer :* B. S. Massey.

ALLAHABAD PAPER MERCHANTS' ASSOCIATION
11, Sheocharan Lal Road, Allahabad.

President : K. M. Dawu ; *Secretary :* L. B. Varshney ; *Treasurer :* K. C. Bhargava.

ALLAHABAD TRADERS' ASSOCIATION
125, Kamta Prasad Kacker Marg, Allahabad 3.

President : Beni Prasad Agarwal ; *Vice-President :* Ram Charan Das ; *Secretary :* Luxmi Narayan Agarwal.

ARCHAEOLOGICAL MUSEUM
Dampier Park, Mathura.

This Museum was established in 1874.

It has a rich collection of about 10,000 antiquities consisting of stone sculptures, inscription, bas-reliefs, pottery, inscribed bricks, terracottas, clay seals, coins, a few bronze objects and some paintings. It has also a very unique collection from Kushana and Gupta periods. The collection includes a beautiful life size Buddha in red sandstone which is sometimes ranked as world's best life size image of Buddha. Amongst the earliest sculptures the colossal Parkham Yaksha of the Sunga period is noteworthy. The railing pillars, cross bars and coping fragments (with exquisite carvings of the early Mathura School including lovely Yakshis from Bhuteswar and other architectural pieces beautifully embellished with sculptures like torana architraves) are excellent specimens of their type. There are several beautifully carved heads representing princes, noblemen and warriors, some with foreign caps and headgears.

Officer on Special Duty, V. P. Mathur.

ARYA BHASHA PUSTAKALAYA
Banaras

The biggest Hindi public library in India, maintained by the Nagari Pracharini Sabha. No. of books, over 40,000. Specially rich in ancient mss. and early Hindi books and periodicals, of great use to research scholars. Combined Reading Room. All leading Hindi papers and journals, and selected English periodicals also available.

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ASSOCIATION OF SCIENTIFIC WORKERS OF INDIA
8/60, Arya Nagar, P.O. Box No. 388, Kanpur (U.P.)
Affiliated to the World Federation of Scientific Workers. Has branches in all the main centres of Scientific activity in India.
President : Prof. M. S. Thacker ; *Vice-Presidents :* Prof. P. C. Mahalanobis ; Dr. S. Husain Zaheer, Dr. B. Mukerji, Dr. D. S. Kothari ; *General Secretary (Org.) :* M. R. Raman ; *General Secretary (Pub.) :* S. Ramabhadran. *Treasurer :* J. N. Misra.

BALWANT VIDYAPEETH RURAL INSTITUTE
P.O. Bichpuri (Agra).
Educational Institute sponsored by the Government of India.
Hon. Director : Dr. R. K. Singh ; *Superintendent :* Babu Singh.

THE BANARAS INDUSTRIAL & TRADE ASSOCIATION
Chowk, Banaras.
President : Brijpaldas ; *Hony. Secretary :* Prahlad Das, B.A. ; *Treasurer :* Anand Prasad Agrawal.

BANARAS PAPER MERCHANTS' ASSOCIATION
39/80, Chowk, Banaras.

BHARAT KALA BHAVAN
(Museum of Indian Art and Archaeology).
Banaras Hindu University, Banaras 5.
Hony. Director : Rai Krishnadasa ; *Asstt. Curator :* Vijay Krishna ; *Asstt. Editor, 'Kala-Nidhi' :* Dr. Anand Krishna, M.A., Ph.D.

THE BHARAT SCOUTS AND GUIDES UTTAR PRADESH
17, Katra Road, Allahabad.
President : A. G. Kher, Speaker, Leg. Assembly, U.P. ; *State Chief Commissioner :* B. N. Lahri ; *State Secretary :* P. N. Sharma.

BHARATA GANITA PARISAD (FORMERLY BENARES MATHEMATICAL SOCIETY)
Address : Lucknow University, Lucknow.
President : Dr. Gorakh Prasad.
Secretary : Dr. A. Sharma ; *Editor :* Dr. Ram Ballabh.

BHARATIYA HINDI PARISHAD
Office : Hindi Department, University of Allahabad, Allahabad.
Patron : Dr. Dhirendra Varma ; *President :* Dr. Nagendra, M.A., D. Litt. ; *Vice-Presidents :* Pt. U. M. Shukla, M.A., Prof. A. Chandra Hasan, M.A.

BHARATIYA SANGEET TATHA LALITKALA VIDYAPITH
British Radio Building, The Mall, Kanpur.
Kulpati : Virendra Swaroop, M.L.C. ; *Pro-Kulpati :* Mahapandit Sangeet Krishna Rao Shanker Pandit ; *Founder and Upa-Kulpati :* S. C. Kaushal, B.Sc., LL.B.

BHATKHANDE SANGIT VIDYAPITH
1, Kaiserbagh, Lucknow.
Raja Raghvendra Pratap Singh, M.L.A., *President ;* Rai Uma Nath Bali, M.L.C., *Vice-President ;* Lal Udai Bhan Singh, *Treasurer ;* Dr. S. N. Ratanjankar, *Chief Director.*

BIRBAL SAHNI INSTITUTE OF PALAEOBOTANY
53, University Road, Lucknow (U.P.).
President : Mrs. Savitri Sahni ; *Director :* Dr. K. R. Surange.

PALAEOBOTANICAL SOCIETY
President : Mrs. Savitri Sahni ; *Secretary :* Dr. K. R. Surange.

BISAT BANA VYAPAR MANDAL
Raja Darwaza, Varanasi.
President : Md. Hussan ; *Secretary :* Seth Kedarnath ; *Treasurer :* Bechan Ram.

BRASS AND PRAYAGI LOTA MANUFACTURERS' ASSOCIATION
Babhnaiya Tola, Keserhatti, Mirzapur.
Chief Director : Jai Deo Verma ; *Secretary :* Suresh Chandra Verma.

THE CAWNPORE SUGAR MERCHANTS ASSOCIATION
51/57, Collectorganj, Kanpur.
President : H. Kanodia ; *Vice-Pres. :* V. R. Shah ; *Secretary :* G. S. Pandey.

THE CHAMBER OF COMMERCE
Chandausi.
Shrigopal, *President ;* Chowdhry Parameshwardas, *Hony. Secretary.*

THE CHAMBER OF COMMERCE
Hapur, Dist. Meerut.
President : Kailas Chandra Mittal ; *Vice-Presidents :* Jagdish Prasad, Om Prakash ; *Secretary :* R. S. Singh.

THE CHAPRA VYAPAR WARDHINI SABHA
Denssinganj, Mirzapur.
Honorary President : Kishanlal Goenka ; *Honorary Vice-President :* Ramesh Chand Jain ; *Honorary Secretary :* Suraj Mal.

COTTAGE INDUSTRIES DEVELOPMENT INSTITUTE
Tilpurwa, Hussainganj, Lucknow.
Director-in-Charge : P. Kapoor ; *Director of Organisation :* Chander Prakash Kapoor ; *Associate Director :* R. Prakash.

DISTRICT CRIME PREVENTION COMMITTEE
Midland House, Meston Road, Kanpur.
President : Gian Prakash, I.A.S. ; *Hon. Secretary :* U. C. Rastogi, M.A.

EMPLOYERS' ASSOCIATION OF NORTHERN INDIA
(14-77, Civil Lines, Post Box No. 344, Kanpur.)
Chairman : Kishan Narain.
Asstt. Secretary : Dr. K. P. Agarwal, D. Litt.

ETHNOGRAPHIC AND FOLK CULTURE SOCIETY
Lucknow University, Lucknow.
President: Dr. Sita Ram, D.Litt. ; *Vice-Presidents:* B. D. Sanwal, I.C.S., Dr. A. V. Rao ; *Hony. Secretary :* Dr. D. K. Sen.

FAMILY PLANNING ASSOCIATION
Commissioner's House, Agra.
President : Dr. Hem Sanwal ; *Vice-President :* S. D. Mathur ; *Secretary :* Mrs. Shankuntala Lalit.

GANGANATHA JHA RESEARCH INSTITUTE
Motilal Nehru Park, Allahabad.
President : Dr. S. Radhakrishnan ; *Secretary :* Mahamahopadhyaya Dr. Umesha Mishra, M.A., D.Litt. ; *Treasurer :* Dr. Rai Ram Charan Agarwal, M.A., D.Phil.

GOVERNMENT CENTRAL PEDAGOGICAL INSTITUTE
Mahatma Gandhi Marg, Allahabad.
Principal : Dr. S. Saran.

GOVERNMENT CENTRAL TEXTILE INSTITUTE
Smt. Parvati Bagla Road, Kanpur.
Principal : Dr. E. D. Daruvala.

GOVERNMENT CENTRAL WEAVING INSTITUTE
Varanasi.
Research Officer : J. C. Seth.

GOVERNMENT CENTRAL WOOD WORKING INSTITUTE
26, Civil Lines, Bareilly.
Principal : R. K. Sharma ; *Cabinet Instructor :* R. D. Singh Yadav.

GOVT. HANDLOOM PAPER PRODUCTION-CUM-RESEARCH CENTRE
Kalpi (Jalgaun), U.P.
Nature of Body : Scientific and Industrial. *Superintendent :* G. Y. Kannao ; *Research Assistant :* G. S. Kushwaha ; *Craftsman Inspector :* B. R. Panday.

GOVERNMENT PRECISION INSTRUMENTS FACTORY
Aishbagh Road, Post Box 153, Lucknow.
Engineer Manager : R. K. Singh ; *Workshop-in-Charge :* K. Schroeter.

GOVERNMENT TECHNICAL INSTITUTE
Lucknow.
Principal : D. N. Jayakar.

GOVERNMENT WOOD WORKING INSTITUTE
5, Katra Road, Allahabad.
Principal : P. V. Kurup.

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P.O. Gurukul Kangri (Dt. Saharanpur).
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H. B. TECHNOLOGICAL INSTITUTE
Company Gardens, Kanpur, U.P.
Principal : Dr. H. Trivedi, M.Sc. (Hons.), D.Sc. (Alld.), D.Met. (Sheffield), D. ING.
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Industrial Chemist to U.P. Government : Vacant.
Alcohol Technologist to U.P. Government : W. R. Damle, M.Sc. (Cham.), Alld. M.Sc. (Ind. Fermentation), Birmingham.

HIDE MERCHANTS' ASSOCIATION
Farrashkhana, Kanpur.

HIND KUSHT NIVARAN SANGH
(U.P. Branch).
C/o Director of Medical and Health Services, U.P., Lucknow.
Chairman : C. B. Gupta, Chief Minister-in-Charge of Health ; *Vice-Chairman :* Acharya Jugal Kishore, Minister of Social Welfare ; *Secretary :* Dr. K. M. Lal, Director of Medical and Health Services, U.P.

HINDI SAMITI
Royal Hotel Bldgs., Lucknow.

HINDUSTANI ACADEMY
4, Kamla Nehru Road, Allahabad.
President : Kamla Kant Verma ; *Hon. Secretary :* Vidya Bhaskar.

INDIA VILLAGE SERVICE
(Sattal, P.O. Bhowali, Dist. Naini Tal, U.P.).
The aim of the service is to enable the village people to meet their needs by living and working among them. The programme of work includes health, sanitation, agriculture, handwork, child care, literacy, citizenship and action research projects in rural development.

Work is located at Marehra (Dist. Etah), Mahanagar (Dist. Lucknow), Gillava (Dist. Etah), Sattal (Dist. Naini Tal), U.P. and in other Centres where co-operative agreements exist with the Y. W. C. A. and local church bodies. Enquiries, however, should be sent to Marehra. Funds are largely raised from private sources both in India and abroad.

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INDIAN BRISTLE MERCHANTS ASSOCIATION
18-45, Mahatma Gandhi Road, Kanpur.
President : S. R. Sood ; *Vice-President :* S. S. Yadav ; *Secretary :* J. M. Sadri.

INDIAN CERAMIC SOCIETY
Banaras Hindu University, Banaras 5.

INDIAN CONFERENCE OF SOCIAL WORK
J. K. Institute Bldg.,
Lucknow University, Lucknow.

INDUSTRIAL TRAINING INSTITUTE
Alambagh, Lucknow.
Principal : A. C. Sharma.

INSTITUTE OF OPHTHALMOLOGY
Gandhi Eye Hospital, Aligarh.
Director : B. R. Shukla.

Established in 1952 by the Aligarh Muslim University for post-graduate ophthalmic diploma. At present 20 medical graduates are admitted on all India basis. Session starts from July 16 every year. Last date for submitting the forms is June 30.

INSTITUTE OF ORIENTAL PHILOSOPHY
Vrindaban (Dist. Mathura).
Recognised by Punjab University, Chandigarh for Research & Post-Graduate Degrees and affiliated to UNESCO & International Federation of Philosophical Societies.
Rector : H. H. Swami, B.H.BON Maharaj ; *Director :* Prof. Dr. B. Schlarath (Frankfurt) ; *Secretary :* J. S. Pandit, M.A., B.T.

INSTITUTION OF ENGINEERS (INDIA)
River Bank Colony, Lucknow.

INTERNATIONAL HUMAN REFORM SOCIETY
Manavata Bhawan, 1, Gurudwara Road, Lucknow.
Patrons : Dr. S. Radhakrishnan ; Chandra Bhanu Gupta ; *President :* Mr. Justice Nasirullah Beg ; *Secretary-General :* Hari Ram.

ISHWAR DAS TECHNICAL INSTITUTE
Bahjoi (Dt. Moradabad.)

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J. K. INSTITUTE OF SOCIOLOGY, ECOLOGY AND HUMAN RELATIONS
University of Lucknow, Lucknow.

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564, Lashmi Bhawan, Meerut.
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KANPUR PAPER MERCHANTS' ASSOCIATION
C/o Bankey Behari Debi Singh Bhargava, General Gunj, Kanpur.

KASHI VYAPAR PRATINIDHI MANDAL
Bans-ka-phatak, Varanasi 1.
Kung Behari Gupta, *President ;* Anand Prasad Agarwal, *Vice-President ;* Raj Krishna Das, *General-Secretary.*

KURUKSHETRA UNIVERSITY
Kurukshetra.
Vice-Chancellor : Hardwar Lall.

LOK KALAKAR SANGH
Almora.
General Secretary : J. L. Sah.

LUCKNOW DIOCESAN TRUST ASSOCIATION
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34, Aminabad Park, Lucknow.
President : Vithal Dass Rastogi ; *Hon. Secretary :* J. B. Lall.

MAHILA AHSRAM
(Home for women in distress.)
Motinagar, Lucknow.
President : Smt. Saraswati Giri.

MANOVIGYAN SHALA
(Bureau of Psychology.)
Allahabad.
Nirdeshak : Dr. Jamuna Prasad ; *Sr. Research Psychologist :* Dr. Shambhu Nath Upadhyaya.

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Moreganj, Saharanpur.
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Asst. Secretary :—R. Chandra, M.A., B.Com.
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MORADABAD BULLION ASSOCIATION
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President : Rameshwar Saran.

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President : Raj Kumar ; *Hon. Secretary :* Narain Bajaj ; *Hon. Treasurer :* Ram Kumar.

NAGARI PRACHARINI SABHA BANARAS
Hindi institution devoted to the propagation and development of Hindi language and literature in particular, and Indian literature and culture in general.
It maintains the biggest Hindi Library in India—Arya Bhasha Pustakalaya containing Hindi manuscripts and periodicals.
It has published about 400 standard works in Hindi on different subjects and brought out Hindi dictionary, Hindi Grammar, English-Hindi Terminologies on various subjects and a Hindi Encyclopaedia is under compilation. Its main organ *Nagari Pracharini Patrika*, is one of the oldest Hindi Periodicals. It has its own printing Press.
President, Dr. Sampurnanand ; *Vice-Presidents*, Dr. Hazari Prasad Dwivedi, Raja Ram Shastri ; *Hon. General Secretary*, Dr. Jagannath Prasad Sharma (*Ex-Principal, College of Indology, Banaras Hindu University*).

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NORTH INDIA CHRISTIAN LITERATURE SOCIETY
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NUMISMATIC SOCIETY OF INDIA
C/o College of Indology
Banaras Hindu University, Varanasi 5.

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PROVINCIAL HYGIENE INSTITUTE
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RAMAKRISHNA MISSION SEVASHRAM
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Has a charitable dispensary with X-Ray, Dentistry, Physiotherapy and T.B. Clinic. Treated 205,038 patients in 1960 free of charge, without any distinction of caste, creed or colour. Conducts regular religious and philosophical discourses daily. Has a library and reading room with over 8,500 volumes and about 30 periodicals and 8 dailies.
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SANGIT PARISHAD
D. 50/143, Surya Kund, Varanasi.

SANSKRIT UNIVERSITY
Varanasi (Banaras) 2.
Chancellor : Governor of U.P. ; *Vice-Chancellor :* Prof. K. A. S. Iyer, M.A. (Oxon.) ; *Prastota :* K. N. Shukla ; *Director of Research Institute :* K. C. Chattopadhyay ; *Treasurer :* Dr. Govinda Chanda. Teaching cum affiliating. Has the largest collection of Sanskrit manuscripts. Has taken up the work of compilation of Bibliography of Sanskrit and Allied Subjects.

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SARVODAYA SAMAJ
Sadhna Kendra, Rajghat, Kashi.

The Samaj is not an organization in the accepted sense of the term. After the death of Mahatma Gandhi constructive workers from all over India met in a conference in March 1948 at Sevagram in Wardha. They decided to form a voluntary brotherhood of all who believe in the ideal of truth and non-violence.

The Samaj has, however, an executive organ, the Sarva Seva Sangh with its principal Centre at Kashi, U.P.

Loksevaks of every district form the district Sarvodaya Mandal and elect their representative for the All-India body, who again elect the president for a term of one year. The President nominates his executive, which is called the Prabandh Samiti. All the elections and decisions of the Sangh are unanimous. Apart from the president the Sangh has a Secretary and two Joint Secretaries and a Treasurer. The Sangh has a board of Trustees who hold the property of the Sangh in trust.

Moreover the Sangh has its Khadi Gramodyog Samiti with its headquarters at Kashi to co-ordinate and propagate Khadi and Village Industries throughout the country. Similarly the Krishi Goseva Samiti with its headquarters at Pipri works for the furtherance of agriculture and improvement of the cattle wealth. The Prayog Samiti or the research department has its headquarters at Sabarmati Ashram and works for the constant improvement of the Amber Charka.

The term Sarvodaya thus stands for the good of all, and is the name given collectively to the ideas and teachings of Mahatma Gandhi.

It insists on the purity of the means as that of the ends.

For the achievement of the aim, the following programme is followed :

Communal harmony (fellowship between followers of different faiths and sects) ; Removal of untouchability ; Abolition of class distinctions ; Prohibition ; Promotion of khadi and other home industries ; Village sanitation ; Basic Education ; Equality of status and rights, for both men and women ; Health and hygiene ; Development of provincial languages ; Removal of provincialism ; Propagation of Hindustani as the national language ; Economic equality ; Development of agriculture ; Organization of labour ; Welfare of aboriginals ; Organization of students ; Service of leprosy patients ; Relief-work ; Cow protection ; Naturopathy, etc.

The 30th January of every year when Mahatma Gandhi passed away is observed at all places as Sarvodaya day.

On 12th February every year, fairs are organized at places where Mahatma Gandhi's ashes were immersed.

The deliberations of the Samaj are of an advisory nature and not mandatory in any way.

SHAHJAHANPUR MERCHANTS' CHAMBER
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President : Sagar Mal ; *Secretary :* Kirpal Singh.

SHEILA DHAR INSTITUTE OF SOIL SCIENCE
University of Allahabad, 2-D, Beli Road, Allahabad.

Director : Dr. N. R. Dhar, D.Sc. (Lond. and Paris), F.R.I.C. (Lond.), F.N.I., I.E.S. (Retd.), Foreign Member of the French Academy of Agriculture.

SILK MERCHANTS' CHAMBER OF COMMERCE
Varanasi.

ST. JOHN AMBULANCE BRIGADE (INDIA)
No. VII (U.P.) District.

Office of the Director of Medical and Health Services, P.B. No. 67, Lucknow.

Asstt. Commissioner : Dr. K. M. Lal, P.M.S.I.

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THE TANNERS' FEDERATION OF INDIA
14/69, Civil Lines, Kanpur.

Chairman : K. S. Smith ; *Vice-Chairman :* Mohammed Yakub ; *Secretary :* R. K. Mehra.

TEXTILE ASSOCIATION (INDIA) REGD.
(U.P. Branch)
14/1, Civil Lines, Kanpur.

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(Kamachha, Banaras 1.)

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National Journal : *The Theosophical Review.*

TRADERS CHAMBER OF UTTAR PRADESH
Meston Road, Kanpur.

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UNITED SIKH MISSION
51, Gwynne Road, Lucknow.

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U. P. AGRICULTURAL UNIVERSITY
P.O. Phoolbagh, Nainital.

Vice-Chancellor : K. A. P. Stevenson ; *Registrar :* B. K. Singh ; *Librarian :* C. G. Vishwanathan.

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U.P. BASIC BOOKS PUBLISHERS' ASSOCIATION
Suraj Press Lane, 60, Gautam Budh Marg, Lucknow.

U. P. CHAMBER OF COMMERCE,
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U. P. GUR AND KHANDSARI ASSOCIATION
Alamgiriganj, Bareilly.

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(Post Box No. 63, Kanpur.)

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Vice-President, K. M. Wilcox, F.C.A.
Secretary : N. Bonerjee, I.C.S. (Retd.).

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UTTAR PRADESH PUBLISHERS' ASSOCIATION
21, Sheo Charan Lal Road, Allahabad 3.

UTTAR PRADESH TUBERCULOSIS ASSOCIATION
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THE VIJNANA PARISHAD
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Scientific—Hindi Science Academy of India for Propagation of Science in Hindi.

Publishes a popular monthly magazine "Vijnana" containing articles on scientific subjects in Hindi. Publishes a quarterly research journal "Vijnana Parishad Anusandhana Patrika" containing scientific subjects in Hindi. The academy has by now brought out more than sixty books on scientific subjects.

President : Dr. Gorakh Prasad, D.Sc.
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Behind Tehsil, Meerut City.

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Y.W.C.A. (WORKING WOMEN'S HOSTEL)
Barrow Road, Zahur Baksh, Lucknow

THE YOGA-VEDANTA FOREST ACADEMY
The Divine Life Society, Sivananda Ashram, Sivananda Nagar Post, *via* Rishikesh.

Nature of Body : Dissemination of knowledge and spiritual uplift of mankind ; teaches art of attaining health and longevity through Yoga ; gives training in the practice of the Synthesis of Yoga.

Founder-Director of the Academy and Founder-President of the Divine Life Society : Swami Sivananda ; *General Secretary of the Divine Life Society and Principal of the Yoga Vedanta Forest Academy :* Swami Chidananda.

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WEST BENGAL

Area: 33,945 sq. miles; Population: 34·97 million (1961 Census) (Provisional). Percentage of increase 1951-61: 32·94. Density: 1,031. Sex ratio 879 females per 1,000 males. Literacy: 291 per 1,000.

Capital: Calcutta.

There are two Divisions in the State, the Burdwan Division and the Presidency Division.

The Districts in the Burdwan Division with their headquarters in brackets are as follows:

Bankura (Bankura), Birbhum (Suri), Burdwan (Burdwan), Hooghly (Chinsura), Howrah (Howrah), Midnapore (Midnapore), Purulia (Purrlia).

The Districts in the Presidency Division with their headquarters in brackets are as follows:

Calcutta, Cooch-Behar (Cooch-Behar), Darjeeling (Darjeeling), Dinajpur* (Balurghat), Jalpaiguri (Jalpaiguri), Malda (English Bazar), Murshidabad (Berhampur), Nadia (Krishnagar), 24-Parganas (Alipur).

Panchayats: The State Government have already taken steps for partial democratisation at Block level. The Block Advisory Committees have been redesignated as Block Development Committees and have been given more executive and financial powers.

Under the West Bengal Panchayat Act, 1956, Gram Panchayats for every village and Anchal Panchayats for every 10 to 15 Gram Panchayats are being constituted. The Anchal Panchayat is an elected body and is given complete charge of administrative and development work. While it can impose taxes, Gram Panchayat cannot. For every Anchal Panchayat there will be a Nyaya Panchayat also.

The State Government decided on July 11, 1961 to abolish trial by jury in the district courts.

AREA OF DISTRICTS

Bankura 2,647 sq. miles; Birbhum 1,743 sq. miles; Burdwan 2,705; Cooch-Behar 1,324; Darjeeling 1,200; Hooghly 1,208; Howrah 568; Jalpaiguri 2,378·3; Malda 1,392; Midnapore 5,258·1; Murshidabad 2,072·1; Nadia 1,509; 24 Parganas 5,639·9; West Dinajpur 1,384·8; Purulia 2,407.

Names of districts showing within brackets the names of talukas and their area in square miles respectively under each district:

Bankura Dist. (Sadar, 1,933; Vishnupur, 714); Birbhum Dist. (Rampurhat, 606; Sadar, 1,137); Burdwan Dist. (Asansol, 624; Kalna, 385; Katwa, 409; Sadar, 1,287); Calcutta Dist. (Calcutta Municipal Area, 28 Acres); Cooch Behar Dist. (Dinhata, 272; Mathabhanga, 343; Mekliganj, 199; Sadar, 285; Tufanganj, 224); Darjeeling Dist. (Kalimpong, 408; Kurseong, 164; Sadar, 361; Siliguri, 266); Hooghly Dist. (Arambag, 413; Chandernagore, 388; Sadar, 446; Serampur, 160); Howrah Dist. (Sadar, 174; Uluberia, 386); Jalpaiguri Dist. (Alipur Duars, 1,079; Sadar, 1,296); Malda Dist. (Sadar, 1,296); Midnapur Dist. (Contai, 912; Ghatal, 369; Jhargram, 1,186; Sadar, 2,038; Tamluk, 749); Murshidabad Dist. (Jangipur, 437; Kandi, 454; Lalbagh, 522; Sadar, 659); Nadia Dist. (Ranaghat, 540; Sadar, 969); Purulia Dist. (—, 2,408); 24 Parganas Dist. (Bangaon, 320; Barasat, 384; Barrackpur, 119; Basirhat, 818; Diamond Harbour, 1,262; Sadar, 1,107); West Dinajpur Dist. (Balurghat, 580; Islampur, 759; Raiganj, 865).

POPULATION

(See under "Late Particulars").

AGRICULTURE

Acreage and production of principal crops in 1959-60 are as follows:

	Area (acres)	Production (tons)
Rice	10,915,600	4,170,800
Wheat	119,300	31,300
Sugarcane ..	80,600	1,277,900
Jute	823,600	2,169,600†

† Bales.

During 1959-60, 5 (bringing to a total of 99) improved seed multiplication farms were established and 52,816 mds. of improved seeds were distributed. In rural areas 925 demonstration centres were opened. Land covering 1,859·93 acres was reclaimed.

The total provision in the State's Second Plan in respect of agriculture and related subjects was of the order of Rs. 780·27 lakhs.

Under the Greater Calcutta Milk Supply Scheme, milk colony units are being established at Haringhata and Kalyani (five miles away).

Zamindaris and intermediary interests in West Bengal were abolished on April 15, 1956 corresponding to the 1st of Baisakh in the Bengalee Year.

All rent-receiving interests in agricultural lands vest in the State and the numerous tenants and sub-tenants, as the case may be, now hold land directly under the State Government. All forests too are now managed directly by the Government.

Under the Act, each intermediary is permitted to retain in his possession non-agricultural land up to 15 acres, homestead land which together with such non-agricultural land does not exceed 20 acres, agricultural land up to 25 acres, and tanks, fisheries and orchards. Calcutta is a notable exception in the Act.

There are roughly 1·28 million acres of cultivated land in the State, of which, according to preliminary but by no means accurate statistics, only 400,000 acres will be found surplus for redistribution among the tillers of the soil.

Compensation is payable on a slab system at rates varying between 20 times for the first and lowest slab of Rs. 500 of net income and twice for the highest slab of over Rs. 1 lakh.

Where, however, the interest of an intermediary is held under a *bona fide* trustee or other legal obligation for an exclusively charitable or religious purpose, the compensation payable is being assessed as a perpetual annuity equal to the annual net income of the interest.

Payment is to be made partly in cash and partly in non-negotiable annuity bonds at 3 per cent per annum and payable in 20 equal annual instalments.

Sonarpur-Arapaneh Scheme: The Sonarpur-Arapaneh-Matla Drainage Scheme of reclaiming vast water-logged tracts 105 sq. miles in area, with powerful pumping plants, is the first of its kind in India. Under the first part of the Scheme, a submerged area of 23,360 acres has been reclaimed for cultivation. The total yield of paddy from these large tracts of land was 21,000 maunds.

Bagjola Drainage Scheme: Rs. 104-lakh Bagjola Drainage Scheme is intended to improve the drainage of 116 square miles of area. The scheme when completed will reclaim 25,600 acres of water-logged lands and render them fit for cultivation, which will result in annual additional yield of 12,091 tons of paddy and 1,619 tons of rabi crops.

FORESTS

(See under article on Forests).

IRRIGATION

Area under irrigation (1959-60): over 30 lakhs acres.

In all over 27 lakh acres of land have been benefited since Independence by about 200 irrigation schemes big and small.

Total irrigation potential created upto March 1958: 801,560 acres. Total area irrigated as a result of this newly created potential upto March 1958: 495,947 acres. Percentage of utilisation at the end of March 1958: 62.

The Kangsabati Reservoir Project, included in the Second Five Year Plan, aims at irrigation of eight lakh acres of land in the Purulia, Bankura, Midnapore and Hooghly districts. The foundation stone was laid in January 1959. The Silabati Barrage, one of the features of the project, has been completed.

Some individual schemes are given below:—

	Total cost (Rs. lakhs)	Area in acres benefited (kharif season)
Mayurakshi Reservoir	15,85·00	600,000
Harahatuganj Drainage	12·94	16,000
Beral Canal	21·78	9,000
Jibanti-Banki	3·11	6,400
Jampot	0·52	800
Soadighi Gangakhali	24·08	29,400
Jhargram	7·74	5,000
Suvankar Daura	17·57	6,000
Trans-Damodar	4·27	32,900
Saraswati	6·25	7,100
20 Minor Schemes	6·18	45,292
52 Procurement Bonus Schemes	21·27	87,757
23 Emergency Schemes	10·70	62,880
5 New Minor Schemes	1·96	13,676
Excavation of Nonaganj river	5·14	4,860
Sonarpur-Arapaneh-Matla	126·30	46,400
Bagjola-Ghuni-Jatragachi	104·00	25,600
Improvement of Kamakhya Khal	3·52	3,840

Floods: The worst floods during recent years, hit the districts of Burdwan, Hooghly, Midnapore, Howrah, Nadia, Murshidabad, Bankura, 24-Parganas and Purulia, in September and October 1959. The Government has initiated a scheme of "Build your own House" in the flood affected areas.

The rivers swollen by continuous rains were Damodar, Ganges, Mayurakshi, Rupnarayan and their tributaries. According to official estimates, 517,000 tons of rice were perished, 254,568 houses collapsed and 51 persons lost their lives.

DAMODAR VALLEY CORPORATION

(*For details see under "Irrigation"*)

TWO DEVELOPMENT SCHEMES

The Ganga Barrage Scheme: Investigations in connection with the Ganga Barrage, also called Farakka Barrage Scheme, are now in an advanced stage. The current estimates of the cost of the project is Rs. 56 crores.

Benefits expected from the barrage: 1. Supply of water to resuscitate the moribund rivers in West Bengal and also improve the Sunderbans

* Also called West Dinajpur.

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rivers ; 2. Provision for irrigation and flushing on a vast scale ; 3. Improvement of the Calcutta Port ; 4. Provision of a direct railway and road link between the northern and southern parts of the State ; 5. Provision of an inland water route entirely through the Indian Union starting from Calcutta and going up to Bihar and Uttar Pradesh and ultimately to Assam.

Reclamation of Salt Lakes : The scheme for the reclamation of the swampy northern and southern salt lakes covering about 33 square miles on the eastern fringes of Calcutta aims at liquidating the scourge of malaria and at reclaiming the water-logged areas, partly for the extension of the City and partly for agricultural purposes.

POWER

Position 1958-59 :

No. of stations 50 ; installed capacity 603,747 kW ; energy generated 1,917·902 mln. kWh ; energy sold 2,115·285 mln. kWh.

The following power schemes included in the Second Plan are being executed by the West Bengal State Electricity Board.

Extension of Mayurakshi Hydro-Electric Scheme. Four places in Birbhum district will be electrified. Five-year cost : Rs. 9·99 lakhs.

Rural Electrification Scheme : Electrification of 62 villages at a total cost of Rs. 94·39 lakhs. Four hundred and fifty miles of 11 kV O-H line and 70 miles of low voltage distribution line would be laid.

Extension of North Calcutta Electrification Scheme : Stringing of the second circuit of 27 miles of the existing 66 kV double circuit tower line between Shamnagar and Ranaghat. Districts to be benefited : Nadia, Murshidabad and 24 Parganas. Estimated capital expenditure for the Plan period : Rs. 6·08 lakhs.

Jaldhaka Hydro-Electric Scheme : Tapping of river Jaldhaka in north Bengal to generate electricity. Generating capacity : 2–10 Mw ets. Provision for the scheme : Rs. 194·01 lakhs.

Balasun Hydro-Electric Scheme : Harnessing of river Balasun in Darjeeling District. Estimated expenditure : Rs. 158·53 lakhs. Scheme is kept in abeyance.

Kharagpur Midnapore Electrification Scheme: Purchase of power in bulk from D.V.C.'s Kharagpur sub-station and distribution in Midnapore district through a network of transmission lines. Length of overhead lines to be laid : 114 miles of 11 kV and 33 kV. Capital expenditure: Rs. 45·34 lakhs.

Howrah-Hooghly Rural Electrification Scheme : Length of overhead transmission lines to be laid : About 80 miles of 11 kV. Estimated cost : Rs. 25·89 lakhs.

Durgapur-Malda Transmission Scheme—Places to be supplied with power : Districts of Murshidabad, Malda and West Dinajpur. Provision during the 2nd Plan period : Rs. 34·86 lakhs.

Suburban-Electrification Scheme : Electrification of a few suburban areas on the outskirts of the licensed area of Calcutta Electric Supply Corporation Ltd. Total Plan provision for colliery electrification, tube-well irrigation, Central testing laboratory and suburban electrification schemes : Rs. 29·21 lakhs.

INDUSTRY

Principal industries of the State : Jute, tea, coal, cotton, textiles, paper, rubber, engineering, etc.

No. of registered factories : 4,159 (March 31, 1959). No. of workers : 750,000.

No. of jute mills : 89 in 1959 (employing 230,000 workers, 1959).

Total acreage under jute cultivation in West Bengal : 876,000.

No. of cotton mills : 40* (43,281 workers ; total no. of spindles 6,41,620 ; no. of looms 10,949 ; approximate quantity of cotton consumed 2,24,340 bales of 3½ cwts. each bale). (31st August 1960).

The Kalyani Spinning Mills, one of the major industrial ventures of the West Bengal Government is nearing completion.

The Company has an authorised capital of Rs. 250 lakhs, with the West Bengal Government taking up shares valued at Rs. 140 lakhs. The balance of shares will be raised mostly from semi-Government institutions.

Glass : Hindusthan Pilkington Factory at Asansol.

No. of tea gardens : 285 (245,000 workers). West Bengal produces about 90 million pounds of tea.

No. of coal mines : 220 (about 99,000 workers daily on an average). The total output of the West Bengal coal mines is about 14 million tons.

West Bengal's tea gardens are mostly in the Dooars, Terai and Darjeeling districts.

No. of paper mills : 5 (about 10,000 workers).

Jute, cotton and most of the other industries are located in the Greater Calcutta industrial area.

Main small scale industries : Handloom weaving, sericulture and silk, brass and bell metal, hand-made paper, palm gur and mat industries.

No. of looms engaged in handloom weaving : 1,50,000.

Principal centres of handloom weaving : Santipur (Nadia), Santiniketan (Birbhum), Rajbalhat, Dhaniakhali (Hooghly).

Principal silk industry Districts : Malda, Murshidabad and Birbhum.

Steel : Production target of steel at Indian Iron and Steel Works, Burnpore, one million ton, and at Durgapur in the public sector two million tons.

Ahmedpur Sugar Mills in the public sector at Ahmedpur, Birbhum, have gone into production.

LABOUR

No. of registered factories : 4,159. (July 31, 1959).

No. of workers : 750,000.

No. of registered trade unions : 2,040 (1959).

No. of members of trade unions : 838,032.

Eighteen Minimum Wages Advisory Committees have been appointed. Minimum Wage Committees were appointed for revision and fixation of wages for workers in unorganised industries, such as flour mills, oil mills, rice mills, public motor transport, tea plantations, etc. Tribunals for fixation of minimum wages were set up also in jute, textiles and engineering industries.

The Employees' State Insurance Act, which provides for sickness and other medical benefits, covers 280,000 workers in Calcutta and Howrah areas.

The Employees' Provident Funds Act covers 530,000 workers including workers in tea plantations.

No. of labour welfare centres : 46.

No. of tenements completed under the Subsidised Industrial Housing Scheme : 1,468 and 1,170 (Private Sector).

The Labour Department of the State took over the administration of the Employment Exchanges in West Bengal towards the end of 1956 from the Central Government.

CO-OPERATION

From 1948 to 1959 the number of co-operative societies increased from 12,946 to 19,029. The membership increased from 635,000 to 1,402,000.

ROADS

There are six national highways in West Bengal : Calcutta-Delhi (152 miles), Calcutta-Bombay/Madras (90 miles—common alignment in West Bengal), Bihar-Assam (181 miles), Siliguri-Gangtok (35 miles), Calcutta-Siliguri (203·5 miles) and Calcutta-Bongaon (43 miles).

The Second Five Year Plan envisaged construction and improvement of 2,200 miles of new State roads in addition to the spill-over from the First Plan.

The State spent Rs. 20·22 crores during the First Plan period, while the ceiling of expenditure for the Second Five Year Plan had been limited to less than Rs. 17·50 crores. In the first two years of the Second Plan, a sum of Rs. 590 lakhs was spent on road development.

With a view to the gradual nationalisation of road transport services, a number of bus routes in the City of Calcutta have already been taken over by the Government and other routes would be taken over under a phased programme.

The State Transport owns (1960) a fleet of 677 vehicles. The Calcutta State Transport Corporation, an autonomous body, has been formed to look after the State transport system in Calcutta.

The State Transport provides employment for 7,400 persons of whom about 60 per cent are displaced persons.

About 9,00,000 passengers are carried every day. The State buses cover about 53,000 route-miles daily.

Total mileage run by the State Transport in 1959-60 : 23,633,000.

No. of passengers carried : 283,900,000.

Total earnings : Rs. 270·58 lakhs.

The State Transport has a Central Workshop which employs about 700 persons. During 1959-60, 839 vehicles were repaired and rebuilt, 158 new bodies were built, 553 bodies were repaired and rebuilt, 516 fuel pumps were re-conditioned and 7,576 tyres were resoled and repaired.

Gross revenue of the State Transport Undertaking in 1960-61 : Rs. 397·50 lakhs. Budget estimates show a surplus of Rs. 6·16 lakh.

COMMUNITY DEVELOPMENT PROJECTS

The Community Development Projects now cover about half the population. The object of the programme is the development of rural township with a group of 100 villages in a block taken up for intensive development programme.

(*For more details see main article "Community Development Projects"*).

EDUCATION

(For statistical information see Education Tables in *Late Particulars*).

HEALTH (1959)

Birth rate : 25·9 ; Death rate : 7·6 ; Infant mortality : 59·7 ; Maternal mortality : 3·6 ; Death rate from T.B. : 0·2 ; Death rate from Cholera : 0·05 ; Death rate from small-pox : 0·1.

No. of hospitals, dispensaries and clinics : Urban 473 ; Rural 1,345 ; Rural Health Centres : 473 ; No. of beds : 4,056 ; Total no. of beds in hospitals : 26,749 ; No. of T.B. hospitals and Sanatoria : 9 ; T.B. chest clinics : 52 ; Mobile Units for domiciliary treatment of T.B. cases : 9 ; No. of T.B. beds : 3,397 ; Rural Health Centre beds : 4,056 ; Maternity

* Two mills not working.

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and child welfare centres: 334; Maternity homes and hospitals: 12; Maternity beds: 4,241; Medical colleges: 5; no. of students in colleges: 450 (M.B.B.S.); Nursing training centres: 15 (1956); no. of seats: 1,744; pharmacy training centre: 1; no. of students at the centre: 50; Mobile medical units: 242; no. of beds for treatment of leprosy: 2,384; for venereal diseases: 79; for treatment of mental diseases: 1,255 (including 862 beds maintained by West Bengal Govt. in two Mental Hospitals at Ranchi and 90 beds of Bangiya Unmad Ashram, Dum Dum); V. D. clinics: 39; Antimalaria units: 16; no. of beds for infectious diseases: 1,709; Family Planning centres: 46 (1958).

Per capita expenditure: Rs. 3·95.

Per capita expenditure in West Bengal is the second highest in India and exceeds that of the Bhore Committee recommendations in the Ten Year Plan.

REFUGEES AND REHABILITATION

(*See main article on Refugees and Rehabilitation*).

THIRD FIVE-YEAR PLAN

The estimated cost to finance the States development projects during the Third Plan has been placed at Rs. 341 crores by the National Development Council.

The estimated contribution of West Bengal in the early stage was Rs. 90 crores from the States resources and Rs. 160 crores from the Centre, *i.e.* Rs. 250 crores in all leaving a gap of Rs. 91 crores between the plan project and estimated resources.

The Council decided that the ceiling fixed could be raised to the extent that the State itself raised more resources. It may be possible to find additional resources amounting to Rs. 43 crores so that the total resources would amount to Rs. 293 crores leaving a gap of Rs. 48 crores. It was suggested, therefore, that the West Bengal Government might keep Rs. 341 crores as the physical target, the amount of expenditure which will actually be made would naturally depend on the resources available to the State.

Physical Targets.	(Rs. crores)
Agriculture and Minor Irrigation ..	81·45
Community Development & Co-operation.	25·42
Major & Medium Irrigation and Power.	57·86
Industry and Minerals.	13·14
Transport & Communication. ..	26·50
Education, Health and Social Services	94·38
Special projects including Salt Lake Reclamation and development of Durgapur industrial projects. ..	42·28
	Rs. 341 crores

BUDGET, 1961-62

(*See 'Late Particulars'*).

CORPORATION OF CALCUTTA

5, Surendra Nath Banerjee Road, Calcutta 13.

Telephone: 243471 (20 lines).

Mayor, Rajendranath Majumdar.
Dy. Mayor, Tulsi Charan Paul.
Commissioner, P. C. Majumdar, I.A.S. (Retd.).
Dy. Commissioners, A. K. Basak; Loknath Bal.
Secretary, B. J. Ghosh.
Chief Engineer, A. K. Sen.
Dy. Chief Engineer, S. Mitter.
Executive Engineer, Water Works, S. C. Mukherjee.
Executive Engineer, Drainage, K. L. Dey.
City Architect, P. B. Guha.
Health Officer, Dr. Anil Mukerji.
Dy. Health Officer, Maj. I. N. Sarkar.
Finance Officer and Chief Accountant, Paritosh Mitra.
Chief Law Officer, P. C. Dutt.
Civil Engineer, N. L. Bhattacharjee.
Revenue Officer, N. K. Mondal.
Assessor, A. K. Bhattacharjee.
Collector, Sunith Chandra Sen.
Licence Officer, A. K. Dutta.
Chief Valuer and Surveyor, A. K. Sircar.
Education Officer, Dr. Arabinda Barua.
Lighting Supdt., D. M. Saha.

Councillors

Sushil Kumar Paul (1); Ganapati Sur (2); Dr. K. J. Majumdar (3); Nandalal Banerjee (4); Dulal Chandra Mukherjee (5); Satyananda Bhattacharjee (6); Ranajit Coomar Mitter (7); Kumar Dutt (8); Purnendu Sen Gupta (9); Mihirlal Ganguli (10); Rathindra Krishna Deb (11); Sudhir Chandra Mukherjee (12); Pannalal Das (13); Biplab Das (14); Naren Sen (15); Kali Charan Paul (16); Tulsi Ch. Pal (17); Dr. A. C. Banerjee (18); Hara Prosad Chatterjee (19); Gobindo Chandra Dey (20); Badridas Burman (21); Krishna Chandra Kundu (22); Rouf Ansari (23); Dr. Sudhangsu Kumar Sett (24); Smt. Savitri Devi Chandak (25); Abanindra Roy (26); Purushotham Kejriwal (27); Dr. Prabodh Chandra Bhar (28); Samar Kumar Rudra (29); Barendra Krishna Daw (30); Dr. K. P. Ghosh (31); Nandadulal Srimany (32); Sankulal Biswas (33); Shiv Kumar Khanna (34); Dr. Sukhabehari Mukherji (35); Prabodh Kumar Bhattacharjee (36); Sailendranath Majumdar (37); Rajendra Nath Mazumdar (38); Mohanlal Ghose (39); Dr. Esmail Ebrahim (40); Debendra Lal Dutt (41); Tara Prosad Mitra (42); Dr. H. K. Das (43); Sudhangsu Shekhar Mitra (44); Dhirendra Nath Dhar, M.L.A. (45); Mukur Chandra Sarvadhikari (46); Dr. L. M. Bhattacherji (47); Bankim Chandra Sarkar (48); Amulya Charan Sirkar (49); Benoy Lal Ghose (50); Karam Hosain (51); Jogindra Lal Saha, M.L.C. (52); Abu Hafeez Md. Ismail (53); Dhirendra Nath Bose (54); Biman Bihari Mitra (55); Ratan Manick Chatterjee (56); Md. Salauddin (57); Sushil Ranjan Motayed (58); Bejoy Kr. Banerjee (59); Nil Ratan Sinha (60); Anil Maitra (61); Shyamal Kumar Dutta (62); Sachindra Kumar Sen (63); Dr. Birendra Ch. Basu (64); Dr. Parimal Kumar Sen Gupta (65); Chittaranjan Chatterjee (66); Kumar Benoyendra Deb Rai Mahasai (67); Dr. P. K. Roy Chowdhury (68); Parbati Prasuma Basu (69); Barindra Kumar Chattopadhyay (70); Dr. Kanai Lal Sarkar (71); Mani Sanyal (72); Gahar Alam Shami (73); Brojendra Nath Banerjee (74); Falai Bhusan Paul (75); Raj Satyendra Mitra (76); Nripendra Nath Banerjee (77); Deva Prosad Chatterjee, M.L.C. (78); Prasanta Kumar Sur (79); Dr. Arabinda Prosad Dasgupta (80); Karunaketan Sen, I.C.S., Chairman, Calcutta Improvement Trust (*ex-officio*).

Aldermen

Mahammad Yusuff; Anil Kumar Chatterjee; Dr. M. N. Sarkar; Bankim Chandra Dutta; Sachindra Kumar Banerjee.

EDUCATIONAL INSTITUTIONS

University of Calcutta

Chancellor, Smt. Padmaja Naidu (Governor of West Bengal).
Vice-Chancellor, Dr. Subodh Mitra,† M.D. (Cal.), M.D. (Berlin), F.R.C.S., F.R.C.O., F.N.I., F.A.C.S.
Treasurer, Satish Chandra Ghosh, M.A.
Registrar, Dr. Golap Chandra Ray Choudhry, M.A., LL.B., Ph.D. (Law).
No. of affiliated Colleges: 129.
No. of constituent colleges: 7.
Total no. of students: 109,495 boys and 27,780 girls (1958-59).

BUDGET (1961-62)

Receipts	Rs. 1,13,24,020
Expenditure	Rs. 1,30,11,029
West Bengal Govt. grant ..	Rs. 21,52,000

CALCUTTA COLLEGES

ALL-INDIA INSTITUTE OF HYGIENE AND PUBLIC HEALTH, 110, Chittaranjan Avenue, Calcutta-12; ASUTOSH COLLEGE, 92, Syamaprasad Mookerjee Road, Kalighat, Calcutta-26; BANGABASI COLLEGE, 19, Scotts Lane, Calcutta-9; BENGAL MUSIC COLLEGE, P398/1, Keyatala Lane, Calcutta-29; BENGAL VETERINARY COLLEGE, Belgachia, Calcutta-4; * BETHUNE COLLEGE, 181, Cornwallis Street, Calcutta-6; CALCUTTA DENTAL COLLEGE, 114, Lower Circular Road, Calcutta-14; CHARUCHANDRA COLLEGE, 22, Lake Road, Calcutta-29; CHITTARANJAN SEVA SADAN, Shyamaprasad Mookerjee Road, Calcutta-26; CITY COLLEGE, 102/1, Amherst Street, Calcutta-9; CITY COLLEGE (COM. DEPT.), 13, Mirzapur Street, Calcutta-12; COLLEGE OF LEATHER TECHNOLOGY, Canal South Road, Pagla Darga, Calcutta-15; DAVID HARE TRAINING COLLEGE, 25/3, Ballygunge Circular Road, Calcutta-19; * DESHBANDHU COLLEGE FOR GIRLS, 58A, Sadananda Road, Calcutta; GOENKA COLLEGE OF COMMERCE & BUSINESS ADMINISTRATION, 210, Bowbazar Street, Calcutta-12; GOKHALE MEMORIAL GIRLS' COLLEGE, 1/1, Harish Mukherjee Road, Calcutta-20; HIRALAL MAJUMDAR COLLEGE FOR WOMEN, Dakshineswar, Calcutta; INSTITUTE OF POST-GRADUATE MEDICAL EDUCATION AND RESEARCH, 244, Lower Circular Road, Calcutta; INDIAN INSTITUTE OF SOCIAL WELFARE AND BUSINESS MANAGEMENT, Calcutta-7; INSTITUTE OF CHILD HEALTH, 95, Dilkhusa Street, Calcutta-17; * INSTITUTE OF EDUCATION FOR WOMEN, Hastings House, Calcutta-27; J. N. ROY SISU SEVA BHAVAN, 58/15, Raja Dimendra Street, Calcutta-6; JOGAMAYA DEBI COLLEGE, 92, Syamaprasad Mukherjee Road, Calcutta-26; KSHUDIRAM BOSE CENTRAL COLLEGE, 71/2A, Cornwallis Street, Calcutta-6; LA MARTINEIRE, 11, London Street, Calcutta-16; * LADY BRABOURNE COLLEGE, P. 1/2, Suhrawardy Avenue, Calcutta-17; * LORETO HOUSE, 7, Middleton Row, Calcutta-16; MAHARAJA MANINDRACHANDRA COLLEGE, 20, Ramkanta Bose Street, Calcutta-3; MAULANA AZAD COLLEGE, 8, Wellesley Street, Calcutta-13; MEDICAL COLLEGE, 88, College Street, Calcutta-12; *MURALIDHAR GIRLS' COLLEGE, 4, Hindusthan Road, Calcutta-29; NARKELDANGA GURUDAS COLLEGE, Narkeldanga Syamaprasad Institute, Calcutta; NATIONAL MEDICAL COLLEGE, 32, Gorachand Road, Calcutta-14; NILRATAN SARKAR MEDICAL COLLEGE, 138, Lower Circular Road, Calcutta-14; PRESIDENCY COLLEGE, 86/1, College Street, Calcutta-7; R. G. KAR MEDICAL COLLEGE, 1, Belgachia Road, Calcutta-4; SANGIT BHARATI, Calcutta-25; SANKAR MITTER KIRTAN SIKSHALAYA, P-512, Lake Road Extension, Calcutta; SANSKRIT COLLEGE, Bankimchandra Chatterjee Street, Calcutta-12; SCHOOL OF ANAESTHESIOLOGY, 244, Lower Circular Road, Calcutta; SCHOOL OF TROPICAL MEDICINE, Chittaranjan Avenue, Calcutta-12; SCOTTISH CHURCH COLLEGE, 4, Azad Hind Bagh, Calcutta-6; SETH ANANDARAM JAIPURIA COLLEGE, 10, Raja Nabakissen Street, Calcutta-5; *SETH SOORAJMALL JALAN GIRLS' COLLEGE, 186, Chittaranjan Avenue, Calcutta; *SOUTH CALCUTTA GIRLS' COLLEGE, 72, Lansdowne Road, Calcutta-25;

* Women's Colleges. † Death was reported on 5th Sept. 1961.

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*SRI SIKSHAYATAN (College Dept.), 11, Lord Sinha Road, Calcutta-16; ST. JOSEPH'S COLLEGE, 69, Bowbazar Street, Calcutta-12; ST. PAUL'S C. M. COLLEGE, 38/1, Amherst Street, Calcutta-9; ST. XAVIER'S COLLEGE, 30, Park Street, Calcutta-19; SURENDRANATH COLLEGE, 24, Harrison Road, Calcutta-9; SURENDRANATH LAW COLLEGE, 24, Harrison Road, Calcutta-9; SURENDRANATH COLLEGE FOR WOMEN, 24, Harrison Road, Calcutta-9; SYAMAPRASAD COLLEGE, 92, Syamaprasad Mukherjee Road, Calcutta-26; UNIVERSITY COLLEGES OF ARTS & COMMERCE, Calcutta University; UNIVERSITY COLLEGE OF MEDICINE, Calcutta University, Calcutta-12; UNIVERSITY COLLEGES OF SCIENCE & TECHNOLOGY, 92, Upper Circular Road, Calcutta-9; UNIVERSITY LAW COLLEGE, Calcutta University, Calcutta; *VICTORIA INSTITUTION FOR GIRLS, 78-B, Upper Circular Road, Calcutta-9; VIDYASAGAR COLLEGE, 39, Shankar Gosh Lane, Calcutta-6; *VIDYANAGAR COLLEGE FOR WOMEN, 39, Shankar Ghosh Lane, Calcutta; VIJAYGARH JYOTISRAY COLLEGE, Jadavpur P.O., Calcutta-32; *WOMEN'S COLLEGE, 204, Cornwallis Street, Calcutta-6; *WOMEN'S CHRISTIAN COLLEGE, 6, Greek Church Row, Kalighat P.O., Calcutta-26.

MUFASSIL COLLEGES

ALIPURDUAR COLLEGE, Alipurduar; ANANDACHANDRA COLLEGE, Jalpaiguri; ANANDACHANDRA TRAINING COLLEGE, Jalpaiguri; BAGNAN COLLEGE, Bagnan, Howrah; BALURGHAT COLLEGE, Balurghat, West Dinajpur; BANKIMCHANDRA SARDAR COLLEGE, Tangrakhali, 24-Parganas; BANKURA SAMMILANI MEDICAL COLLEGE, Bankura; BARRACKPORE RASTRAGURU SURENDRANATH COLLEGE, Barrackpore, 24-Parganas; * BASANTI DEVI COLLEGE FOR WOMEN, 147-A, Rash Behari Avenue, Calcutta; BARASAT GOVT. COLLEGE, Barasat, 24-Parganas; BASIRHAT COLLEGE, Basirhat, 24-Parganas; BENGAL ENGINEERING COLLEGE, Botanic Gardens, Howrah; *BERHAMPORE GIRLS' COLLEGE, Berhampore Murshidabad; BAGOOLA SRIKRISHNA COLLEGE, Bagoola, Nadia; BIRLA COLLEGE OF AGRICULTURE, MOHANPUR, Haringhata, Nadia; BRAHMMANANDA KESABCHANDRA COLLEGE, Kamarhati, 24-Parganas; COLLEGE OF TEXTILE TECHNOLOGY, Berhampore, Murshidabad; COLLEGE OF TEXTILE TECHNOLOGY, Serampore, Hooghly; DARJEELING GOVT. COLLEGE, Darjeeling; DARJEELING ST. JOSEPH'S COLLEGE, North Point, Darjeeling; DARJEELING ST. PAUL'S COLLEGE, Jalapahar, Darjeeling; DINABANDHU ANDREWS COLLEGE, Garia, 24-Parganas; DINABANDHU INSTITUTION (COLLEGE), 412/1, G. T. Road, Sibpur, Howrah; DINABANDHU MAHAVIDYALAYA, Bongaon, 24-Parganas; DINHATA COLLEGE, Cooch Behar; DUM DUM MOTIJHEEL COLLEGE, Dum Dum, Calcutta-28; FAKIRCHAND COLLEGE, Diamond Harbour, 24-Parganas; GARBETA COLLEGE, Garbeta, Midnapore; GOBARDANGA HINDU COLLEGE, Gobardanga, 24-Parganas; *HOWRAH GIRLS' COLLEGE, 5/3, Mahatma Gandhi Road, Howrah; JANGIPUR COLLEGE, Jangipur, Murshidabad; JHARGRAM RAJ COLLEGE, Jhargram, Midnapore; JHARGRAM SEVAYATAN SHIKSHAN MAHAVIDYALAYA, Jhargram, Midnapore; KALYANI TEACHERS' TRAINING COLLEGE, Kalyani, 24-Parganas; KANDI COLLEGE, Kandi, Murshidabad; KHARAGPUR COLLEGE, Kharagpur, Midnapore; KRISHNAGAR COLLEGE, Krishnagar, Nadia; *KRISHNAGAR GIRLS' COLLEGE, Krishnagar, Nadia; KRISHNATH COLLEGE, Berhampore, Murshidabad; MAHARAJA BIR BIKRAM COLLEGE, Agartala, Tripura State; MAHISHADAL RAJ COLLEGE, Mahishadal, Midnapore; MALDA COLLEGE, Malda; MIDNAPORE COLLEGE, Midnapore; * MIDNAPORE WOMEN'S COLLEGE, Midnapore; NANDIGRAM SILANANDA COLLEGE, Nandigram, Midnapore; NARSINGH DUTT COLLEGE, 129, Belilios Road, Howrah; NEW BARRACKPORE COLLEGE, P.O. Aharampore, 24-Parganas; PRABHATKUMAR COLLEGE, Contai, Midnapore; *PRASANNADEV WOMEN'S COLLEGE, Jalpaiguri; RAMKRISHNA MAHAVIDYALAYA, Kailasahar, Tripura State; RAMAKRISHNA MISSION COLLEGE, P.O. Narendrapur, 24-Parganas; RAMKRISHNA MISSION SIKSHAN MANDIR, Belur Math, Howrah; RAMKRISHNA MISSION VIDYAMANDIR, Belur, Howrah; RAMPURHAT COLLEGE, Rampurhat, Birbhum; RAMSADAY COLLEGE, Amta, Howrah; RANAGHAT COLLEGE, Ranaghat, Nadia; RAIGANJ COLLEGE, Raiganj, West Dinajpur; RISHI BANKIMCHANDRA COLLEGE, Naihati P.O., 24-Parganas; SANTIPUR COLLEGE, P.O. Santipur, Nadia; SCOTTISH UNIVERSITIES MISSION COLLEGE, Kalimpong, Darjeeling; SILIGURI COLLEGE, Siliguri, Darjeeling; SONADA SALESIAN COLLEGE, Darjeeling; *SAROJINI NAIDU COLLEGE FOR WOMEN, Dum Dum, 24-Parganas; SREE RAMKRISHNA B. T. COLLEGE, Dareeling; SRI CHAITANYA COLLEGE, Habra, 24-Parganas; SRIPAT SINGH COLLEGE, Jiaganj, Murshidabad; TAKI GOVT. COLLEGE, Taki, 24-Parganas; TAMRALIPTA MAHAVIDYALAYA, Tamluk, Midnapore; ULUBERIA COLLEGE, P.O. Uluberia, Howrah; UNION CHRISTIAN TRAINING COLLEGE, Berhampore, Murshidabad; VICTORIA COLLEGE, Cooch-Behar; VIDYASAGAR COLLEGE, Nabadwip, Nadia; VIHARILAL COLLEGE OF HOME SCIENCE, Calcutta-27; VIVEKANANDA COLLEGE, Barisha.

SPECIAL INSTITUTIONS

Government.

GOVERNMENT COMMERCIAL INSTITUTE, 15, Netaji Subhas Road, Calcutta; GOVERNMENT SCHOOL OF ART, 28, Chowringhee, Calcutta; BAIGACHI GOVERNMENT BASIC TRAINING SCHOOL No. 1, Post Office Tababeria, 24-Parganas; BAIGACHI GOVERNMENT BASIC TRAINING SCHOOL No. 2, Post Office Tababeria, 24-Parganas.

TECHNICAL AND INDUSTRIAL INSTITUTIONS

MAHARAJA COSSIMBAZAR POLYTECHNIC INSTITUTE, 3, Nanda Lal Bose Lane, Calcutta; CALCUTTA DEAF AND DUMB SCHOOL, 293, Upper Circular Road, Calcutta; BHARATI VIDYALAYA, 35/2, Beadon Street, Calcutta; MUSLIM ORPHANAGE INDUSTRIAL SCHOOL, 8, Syed Saleh Lane, Calcutta; KARAYA INDUSTRIAL SCHOOL, 8, Nasiruddin Road, Calcutta; CALCUTTA ORPHANAGE TECHNICAL SCHOOL, 1/1, Balaram Ghose Street; THE REFUGEE, 125, Bowbazar Street, Calcutta; ALL-INDIA LIGHT-HOUSE FOR THE BLIND, 27, Russa Road; L. M. S. BOYS' INDUSTRIAL SCHOOL, Kaurapukur, Tollygunge; ST. GABRIEL'S INDUSTRIAL SCHOOL, Canning, 24-Parganas; CALCUTTA BLIND SCHOOL, Behala, 24-Parganas; SRIRAM INDUSTRIAL SCHOOL, Sultanpur, Birbhum; DEAF AND DUMB SCHOOL, Suri, Birbhum; BENGAL AFTER-CARE ASSOCIATION, Bally, Howrah; B. P. TECHNICAL SCHOOL, Krishnagar; DEAF AND DUMB SCHOOL, Murshidabad; MOBERLY TECHNICAL SCHOOL, Hooghly; MALIARA INDUSTRIAL SCHOOL, Bankura; COLLEGE OF AERONAUTICAL SERVICES, P-37, Mission Row Extension, Calcutta 13; *BANIPITH GIRLS' INDUSTRIAL SCHOOL*, 57/3, *Raja Dinendra Street, Calcutta; BANI MANDIR GIRLS' INDUSTRIAL SCHOOL*, 2, *Williams Lane, Calcutta; BALLYGUNGE SILPA VIDYALAYA*, 14, *Ballygunge Place, Calcutta; DESHABANDHU SILPA SIKSHALAYA*, 124/1, *Russa Road, Calcutta; SHAMSIA GIRLS' INDUSTRIAL SCHOOL*, 6, *Palm Avenue, Ballygunge, Calcutta; MUSLIM GIRLS' FREE INDUSTRIAL SCHOOL*, 52/1D, *Bright Street, Calcutta; LORETO CONVENT INDUSTRIAL SCHOOL, Morapai, Mograhat*, 24-*Phrganas; VAGINI NIVEDITA GIRLS' INDUSTRIAL SCHOOL, Uttarpara, Hooghly; MISSION GIRLS' INDUSTRIAL SCHOOL, Bankura; KRISHNAGAR MAHILA SAMITY, Krishnagar; R. C. GIRLS' INDUSTRIAL SCHOOL, Nabadwip;* Girls' institutions are in italics.

GOVERNMENT-SPONSORED TECHNICAL SCHOOLS

KALIKATA SHILPA VIDYAPITH, 13, Jamir Lane, Ballygunge, Calcutta 19; VISHNUPUR K. G. ENGINEERING INSTITUTE, Post Office Vishnupur, Bankura; THE MAHARAJADHIRAJ SIR BEJOY CHAND INSTITUTE OF ENGINEERING AND TECHNOLOGY, Burdwan.

BURDWAN UNIVERSITY

Burdwan, West Bengal

Vice-Chancellor, B. K. Guha, I.C.S. (Retd.) (Offg.)

Registrar, S. M. Chatterji, M.Sc.

Finance Officer, D. C. Guha, I.A. & A.S. (Retd.).

JADAVPUR UNIVERSITY

(P.O. Jadavpur University, Calcutta 32.)

Teaching :

Courses provided at present and Degrees :—

Engineering Courses :

Degree Courses in Mechanical Engineering (B.M.E.); Electrical Engineering (B.E.E.); Chemical Engineering—(B.Ch.E.); Civil Engineering (B.C.E.) and Tele-Communication Engineering (B. Tel. E.).

Post-Graduate Courses : Mechanical Engineering (M.M.E.); Electrical Engineering (M.E.E.); Chemical Engineering (M.Ch.E.), Civil Engineering (M.C.E.) and Tele-Communication Engineering (M. Tel. E.).

Arts & Science Courses :

Preparatory Course to 3 years' Honours Course in Arts & Science; 3 years' Honours Course in Arts in English, Bengali, History, Economics, International Relations, Philosophy Sanskrit and Comparative Literature (B.A.).

3 years' Honours Courses in Science in Chemistry, Mathematics, Physics, Geological Sciences (B.Sc.).

Post-graduate courses in Arts in English, History, Economics, Bengali, Philosophy, Sanskrit, International Relations, Comparative Literature (M.A.).

Post-graduate Courses in Science in Mathematics, Physics, Chemistry and Geological Sciences (M.Sc.).

University Colleges :—

College of Engineering & Technology, Bengal; College of Arts and Science.

Medium of instruction : English.

Number of Students :—2,759.

President, Dr. B. C. Roy, M.D., M.R.C.P., F.R.C.S. (Eng.); *Vice-Chancellor*, Dr. T. Sen, Dr. Ing. (Munich), M.I.E. (Ind.); *Registrar*, P. C. V. Mallik, M.A. (Cantab.); *Treasurer*, S. S. Bagchi, B.E.E., M.I.E. (Ind.).

BUDGET, 1960-61

Income : Rs. 16,90,685.

Expenditure : Rs. 43,74,828.

* Women's Colleges.

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VISVA-BHARATI UNIVERSITY

Santiniketan, West Bengal.

Founded by Rabindranath Tagore in 1921; incorporated as a Central University, 1951.

Visva-Bharati maintains the following Institutions:

Patha-Bhavana (School), Siksha-Bhavana (College of Under-Graduate Studies), Vidya-Bhavana (College of Post-Graduate Studies and Research), Vinaya-Bhavana (Teachers' Training College), Kala-Bhavana (College of Fine Arts and Crafts), Sangit-Bhavana (College of Music and Dance). The University maintains also the following Research Departments: (1) Cheena-Bhavana, (2) Indo-Tibetan Institute, (3) Hindi-Bhavana, which organises teaching and Research in Chinese, Tibetan and Hindi respectively.

The Visva-Bharati central library contains 1,12,127 volumes including periodicals. There are sectional and seminar libraries attached to various departments. The University has its own hospital with a Chief Medical Officer and his assistants. The Guest House, which makes catering arrangements of its own, is open to visitors and guardians.

Besides the academic institutions, the University conducts two Departments: one for Rural Reconstruction and the other for Publication of Books.

A two-year Certificate Course in Indian and Foreign languages viz. Sanskrit, Bengali, Hindi, Oriya, Chinese, Japanese, Tibetan, French, German and English is available to Post-Graduate and Under-Graduate students. Those who have successfully completed the Certificate Course may continue another year's further study for the Diploma in the same languages.

Silpa-Sadana (Cottage Industry Training Centre) provides 2-year Certificate course followed by a further 1-year Diploma course in Weaving and Woodwork.

The Social Education Organizers' Training Centre, started under the Community Project Scheme, provides for training of organizers deputed by the different States of the Indian Union.

Siksha Charcha (Junior Basic Teachers' Training College), sponsored by the West Bengal Government, provides one year certificate course in both theory and practice of Basic Education.

The Institute of Rural Higher Education, sponsored by the Council of Rural Higher Education (Govt. of India) and started at Sriniketan in December, 1956, offers the following courses: (1) 3-Yr. Diploma course in Rural Service; (2) 2-Yr. Certificate course in Agricultural Science; (3) 1-Yr. Preparatory course.

Budget for 1960-61:

Govt. Grants	Rs. 15,90,169
Other Sources	Rs. 5,80,604
Total	Rs. 21,70,773
Expenditure	Rs. 26,91,761

Chancellor: Jawaharlal Nehru, M.A. (Cantab.).
Vice-Chancellor: Dr. S. R. Das, Bar-at-Law, LL.D.
Registrar: Vacant.

SOCIETIES, ASSOCIATIONS, ETC.

ACADEMY OF FINE ARTS

Cathedral Road, Calcutta 16.

President: Smt. Ranu Mookerjee; *Jt. Hon. Secretaries:* Rathin Maitra, Gopal Ghose; *Hon. Treasurer:* T. N. Hor, B.A., A.C.A. (U.K.).

THE ALL BENGAL PHYSICAL CULTURE ASSOCIATION

5, Krishna Bihari Sen Street, Calcutta 7.

President: Bhupati Majumdar; Minister, Government of Bengal; *Hon. Secretary:* Dr. H. C. Ray, M.A., P.R.S., Ph.D., D.Lit. (Lond.), F.A.S.

ALL-BENGAL TEACHERS' ASSOCIATION

15, Bankim Chatterjee Street, Calcutta 12.

Office-Bearers: Amulyanath Lahiry (*President*); Satyapriya Roy (*General Secretary*).

ALL BENGAL WOMEN'S UNION

89, Elliot Road, Calcutta 16.

President: Smt. Padmaja Naidu, Governor of W. Bengal; *Chairman:* Smt. S. C. Mukherji; *Hon. Gen. Secy.:* Smt. S. Davar; *Chairman, Adult Home:* Smt. Romola Sinha; *Chairman, Children's Home:* Smt. Maneek Modi.

ALL-INDIA ASTROLOGICAL AND ASTRONOMICAL SOCIETY

"Jyotish-Samrat Bhaban", 50/2, Dharamtala Street, Calcutta 13.

President: Jyotish-Samrat Pt. Ramesh Ch. Bhattacharya, Jyotisharnab, Samudrikratna, Raj-Jyotishi, M.R.A.S. (Lond.); *Secretary & Librarian:* Dr. Prof. Pt. K. Roy, Jyotishacharyya, M.A., Ph.D., M.A.A.S.; *Manager:* P. K. Bhattacharyya, B.Com.; *Administrative Officer:* D. N. Ganguly, B.A.

ALL INDIA CANTONMENTS ASSOCIATION

P-1, New C.I.T. Road, Calcutta 14.

President: Seth Govind Dass, M.P.; *Hon. Secretary:* Kidar Nath, M.A., LL.B.

ALL INDIA INSTITUTE OF HYGIENE AND PUBLIC HEALTH

110, Chittaranjan Avenue, Calcutta 12.

Director: Dr. (Mrs.) Muktha Sen, M.B.B.S., D.M.C.W., M.P.H.

ALL INDIA INVESTORS' ASSOCIATION

7, Lyons Range, Calcutta 1.

To serve the cause and safeguard the rights of shareholders and investors in India.

President: B. N. Chaturvedi; *Secretaries:* P. N. Vajpeyi, O. S. Gupta; *Treasurer:* C. L. Jhunjhunwala.

ALL-INDIA JUTE MILL BOBBIN MANUFACTURERS' ASSOCIATION

P-11, Mission Row Extension, Calcutta 1.

President.—S. N. Khaitan.

ALL INDIA LAWN TENNIS ASSOCIATION

90-A, Bokulbagan Road, Calcutta 25.

President: Sardar Surjit Singh Majithia; *Hon. Secretary:* Shamshere Singh.

ALL-INDIA MARWARI FEDERATION

152-B, Mahatma Gandhi Road, Calcutta 7.

Office-Bearers, Govinddas, M.P. (*President*); Iswar Das Jalan and Govardhandas Binani (*Vice-Presidents*); Nand Kishore Jalan (*General Secretary*).

ALL INDIA RADIO MERCHANTS' ASSOCIATION

16, Mangoe Lane, Calcutta 1.

ALL-INDIA S. P. C. A.

276, Bowbazar Street, Calcutta.

Office-Bearers: Lt. Col. J. M. Lahiri (*President*); Leslie W. Newbond (*Secretary*).

ALL INDIA WOMEN'S CONFERENCE

CALCUTTA BRANCH,

11, Palit Street, Calcutta.

President: Smt. Charulata Mukherjee; *Hon. Gen. Secretary:* Smt. Chitralatha Tagore; *Hon. Treasurer:* Smt. Sati Sinha.

AMATEUR ATHLETIC FEDERATION

City Athletic Tent, Maidan, Calcutta 13.

Chairman: Pankaj Gupta; *Hon. Secretary:* Bola Nath Chatterjee.

ANJUMAN MUFIDUL ISLAM

31, Mufidul Islam Lane, Calcutta 14.

President: Khan Bahadur Sk. Md. Jan, M.L.C.; *Trustee & Vice-President:* Alhaj Seth Md. Yousuf Saheb.; *Chief Admn. Officer:* Janab S. M. Salahuddin Saheb.

AROMATIC TRADERS' ASSOCIATION

34-A, Brabourne Road, Calcutta 1.

President: S. R. Jhunjhunwalla; *Secretary:* B. L. Anand; *Treasurer:* S. K. Paul.

ARYA SAMITY

Arya Samity Road, Behala, Calcutta 34.

Office-Bearers: President, D. N. Dhar, F.R.G.S., M.R.P.S. (Lond.); *Jt. Gen. Secretaries:* D. D. Ganguly, A. K. Banerjee; *Seva Secretary:* Sudhir Biswas; *Treasurer:* L. M. Dutt.

THE ASIATIC SOCIETY

1, Park Street, Calcutta 16.

ASSOCIATED CHAMBER OF HIDES & SKINS TRADERS

Regd. Office: 9, Maharani Swarnamoyee Road, Calcutta 9; *Working Office:* 52, Narkeldanga North Road, Calcutta 11.

THE ASSOCIATION OF ENGINEERS

24, Netaji Subhas Road, Calcutta 1.

President: A. K. Sen, B.Sc. (Glas.), C.P.E., M.A.E., M.T.E., F.V.I. (Lond.); *Vice-Presidents:* N. N. Rudra, B.Sc., M.A.E., A.M.I.E.; G. S. Mitter, M.A.E.; *Hony. Treasurer:* K. K. Sen Gupta, B.E., A.M.A.E.; *Hony. Secretary:* A. Deb, B.E., C.E., A.M.A.O.; *Hony. Editor:* S. Basu, B.Sc. (Glas.), C.P.E., A.M.Inst.W. (Lond.), M.A.E., M.I. Mar.

ASSOCIATION OF MASTER PRINTERS WEST BENGAL LTD.

32, Acharya Profulla Chandra Road, Calcutta 9.

President: A. P. Bhargava; *Hon. Secretary:* S. C. Ghose.

ASSOCIATION FOR THE PREVENTION OF BLINDNESS

94, Chittaranjan Avenue, Calcutta 12.

President: S. Banerjee; *Jt. Hon. Secretaries:* Dr. N. K. Munshi, Dr. M. Sen Gupta; *Hon. Treasurer:* S. B. Bose.

ASSOCIATION OF RUBBER MANUFACTURERS IN INDIA

Dunlop House, 57-B, Free School Street, Calcutta 16.

Chairman: Dr. D. Banerjee; *Secretary:* A. T. Mathyoo.

ASWINI KUMAR INSTITUTE

5, Janak Road, Calcutta 29.

Office-Bearers: President, Dr. Atulchandra Gupta, L.L.D.

Hon. Treasurer, Dr. S. K. Dutt, Bar-at-Law.

General Secretary, Jites C. Guha, M.A., LL.B., Principal of Deshbandhu College.

AUTOMOBILE ASSOCIATION OF EASTERN INDIA

13, Ballygunge Circular Road, Calcutta 19.

President: Raja B. N. Ray Chowdhury, M.A., LL.B., Bar-at-Law; *Vice-Presidents:* K. Mitra, H. N. Ghosh, Bar-at-Law.

AUTOMOTIVE MANUFACTURERS' ASSOCIATION

India Exchange, India Exchange Place, Calcutta 1.

BAGHBAZAR PALLIMANGAL SAMITY

Lakshmi Nibas, 1, Lakshmi Dutta Lane, Calcutta 3.

President, Kiran Chandra Dutta; *Hony. Secretary,* Narendra Nath Banerjee; *Treasurer,* Kanai Lal Neogi.

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BANGIYA BIJNAN PARISHAD
(Publishes the only scientific Bengali Journal "Jnan-o-Bijnan").
294/2/1, Acharya Prafulla Chandra Road, Calcutta 9.
President, Prof. S. N. Bose; *Vice-President*, Dr. N. R. Sen; *Secretary*, Dr. M. S. Sinha.

BANGIYA SAHITYA PARISAD
243-1, Upper Circular Road, Calcutta 6.
President, Dr. Sushil Kumar De; *Vice-President*, Sajani Kanta Das; *Hony. Secretary*, Purna Chandra Mukherjee.

BANI MANDIR WOMEN'S EDUCATION SOCIETY
2, Williams Lane, Calcutta 9.

BANTRA ANATH BANDHU SAMITY
31-18, Brindaban Mullick Lane, Howrah.
President, Bhupendra Nath Basu; *Secretary*, Surendranath Chatterji; *Treasurer*, Amulya Ratna Ghosh.

THE BENGAL BONDED WAREHOUSE ASSOCIATION
25, Netaji Subhas Road, Calcutta-1.
Directors: Jagneshwar Roy, Kumar Dinendro Mullick, Siddheswar Sen (Attorney-at-Law), Murari Mohan Dey, Hiralal Pyne, Ranadev Choudhuri (Barrister-at-Law).

BENGAL BRATACHARI SOCIETY
191/1, Bepin Bihari Ganguly Street, Calcutta 12.
President: Dr. S. K. Chatterji; *Hony. Treasurer:* Gostha Behari Sett; *Hony. General Secy.:* P. Bhattacharjee.

BENGAL BUS SYNDICATE
6, Dharamtolla Street, Calcutta 13.
President, Seth Anandilal Poddar, M.L.A.
Secretary, H. S. Sodhi.

BENGAL CHEMISTS' & DRUGGISTS' ASSOCIATION
10, Bonfield Lane, Calcutta 1.
President: B. N. Dey; *Vice-President:* J. K. Das; *Secretary:* T. K. Ghosh.

BENGAL GALVANIZED SHEET MERCHANTS' ASSOCIATION
20, Strand Road, Calcutta.
Secretary, N. R. Dalal.

BENGAL GLASS MANUFACTURERS' ASSOCIATION
P-11, Mission Row Extension, Calcutta 1.
President: H. K. Sinha; *Vice-Presidents:* P. P. Chandra, G. D. Bagree; *Hony. Treasurer:* H. P. Nathani.

BENGAL HOSIERY MANUFACTURERS' ASSOCIATION
219, Bowbazar Street, Calcutta 12.
President: S. C. Ghose; *Vice-Presidents:* A. R. A. Rahim, S. M. Palchoudhury; *Hon. Secretary:* K. L. Mehra.

BENGAL IMMUNITY RESEARCH INSTITUTE
39, Lower Circular Road, Calcutta 16.
Director: Dr. U. P. Basu, D.Sc., F.N.I.

THE BENGAL JUTE DEALERS' ASSOCIATION
4, Commercial Buildings,
23A, Netaji Subhas Road, Calcutta.
Chairman: Gajraj Sarawgi; *Vice-Chairmen:* Nathmall Sethi, Rameshwar Agitsaria; *Hony. Secretary:* Prakaschand Sarawgi; *Jt. Hony. Secretary:* Ghasiram Saraf; *Treasurer:* Madanlal Pandya; *Secretary:* B. N. Mathur, M.A.

BENGAL LIBRARY ASSOCIATION
Central Library, Calcutta University, Ashutosh Building, Calcutta 12.
Patron: Smt. Padmaja Naidu, Governor, West Bengal; *President:* Tincori Dutta; *Secretary:* Bejoyanath Mukerji.

BENGAL MASONIC ASSOCIATION
Freemasons' Hall, 19, Park Street, Calcutta.
K. B. Large (*President*); Dr. R. C. Sen (*Chairman*); P. A. Krishnaswami (*Secretary*).

BENGAL MILLOWNERS' ASSOCIATION
2, Church Lane, Calcutta 1.

BENGAL MOTION PICTURE ASSOCIATION
2, Madan Street, Calcutta 13.

BENGAL OIL MILLS ASSOCIATION
156, Acharya Profulla Chandra Road, Calcutta 6.
President: S. N. Chatterjee; *Vice-Presidents:* B. N. Sadhukhan, M. C. Banerjee; *Hon. Secretary:* N. R. Sadhukhan; *Hony. Jt. Secretary:* S. N. Paul.

BENGAL OLYMPIC ASSOCIATION
City Athletic Club Tent, Maidan, Calcutta 13.
President: Bhupati Majumdar; *Hon. Jt. Secretaries:* Bala Nath Chatterjee, S. M. Roy Chowdhury.

BENGAL PHARMACEUTICAL ASSOCIATION
2, Heysham Road, Calcutta 20.
President: Alexander McGu; *Secretary:* S. K. Mitra; *Treasurer:* S. N. Banerji.

BENGAL PROVINCIAL BANK EMPLOYEES' ASSOCIATION
20, Strand Road, Calcutta 1.
President: Probhat Kar, M.P.; *General Secretary:* Sushil Ghose.

BENGAL SILK & ART SILK MILLOWNERS' ASSOCIATION
C/o Swadeshi Industries Ltd., 142-A, Jamunalal Bajaj Street, Calcutta 1.

BENGAL SOCIAL SERVICE LEAGUE
1/6, Raja Dinendra Street, Calcutta 9.
President: Dr. Kalidas Nag; *Secretary:* S. N. Maitra.

BENGAL SUGAR MERCHANTS' ASSOCIATION
2C, Ramkumar Rakhit Lane, Calcutta 7.
President: B. L. Newar; *Vice-President:* Prabhudayal Dabriwala; *Hon. Secretary:* Santosh Kumar Sreemany.

BENGAL TABLE TENNIS ASSOCIATION
86, College Street, Calcutta 12.
President: Pankaj Gupta, M.B.E.; *Jt. Secretaries:* R. Narayan, B.Sc., B.L., D. Ray Chaudhuri.

BENGAL TEXTILE DEALERS' ASSOCIATION
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Banerjea & Sons, H.K., 24, Chowringhee Road, Calcutta 13.

Banerjee & Nandy Co., 65-1, Kalachand Nandy Lane, Howrah.

Banerjee & Co., A.N., 71-A, Netaji Subhas Road, Calcutta 1.

Banerjee A.P. & Co., 84-A, Netaji Subhas Road, Calcutta 1.

Banerjee Bros., 44, Raja Basanto Roy Road, Calcutta 29.

Bannerjee Bros., 28, Strand Road, Calcutta 1.

Banerjee & Co. Ltd., S.N., 14-2, Old China Bazar Street, Calcutta 1.

Banerjee Chakraborty & Co. Ltd., 135, Canning Street, Calcutta 1.

Banerjee Santosh Ch. & Sons Ltd., 7, Swallow Lane, Calcutta 1.

Banerji & Co. Pvt. Ltd., G.C., 74-A, Nalini Seil Road, Calcutta 7.

Bangur Brothers Ltd., 14, Netaji Subhas Road, Calcutta 1.

Banka & Sons, 8, India Exchange Place, Calcutta 1.

Banku Behari Paul & Co. Pvt. Ltd., 133, Old China Bazar Street, Calcutta 1.

Bansal & Co. Ltd., 16, Noormal Lohia Lane, Calcutta 7.

Bansal & Co., R.D., 20-1, Lall Bazar Street, Calcutta 1.

Banwarilall Purshottamdas, 29, Banstalla Street, Calcutta 7.

Basak & Co., P., 9, Chidam Modi Lane, Calcutta 6.

Basmack & Co., 2-A, Nabakumar Raha Lane, Shambazar, Calcutta 4.

Basmall & Co. India Ltd., 296-98, Jessore Road, Calcutta 28.

Basu & Co., C.L., 49, Raja Dinendra Street, Calcutta 9.

Basu & Sons, S., 7, Bejoy Mukherjee Lane, Bhowanipur, Calcutta 25.

Bata Shoe Co. Pvt. Ltd., 30, Theatre Road, Calcutta 16.

Bathgate & Co. Ltd., 17, 18 and 19, Old Court House Street, Calcutta 1.

Batliboi & Co., Gandhi House, P-10, Mission Row Extension, Calcutta 1.

BAWA IRON & STEEL WORKS LTD., 33, Brabourne Road, Calcutta-1. Manufacturers of wire Rods, H.B. wires, G.I. wires, Barbed wire, wire Nails, Panel Pins, Metric Weights & Measures, Re-rolling Mills, Wire drawing Plants, Barbed Wire making machinery, Wire Nails making machinery, Rivet making Machinery, Vices of all sorts and Bright Bars. Exporters of M.S. Billets, Manganese Ores, Iron Ores, Jute & Jute Products, Machinery etc.

B. B. Chatterjee & Co. Pvt. Ltd., 22, Raja Woodmunt Street, Calcutta 1.

B. C. Nawn & Bros. Ltd., 7, Bipin Behari Ganguly Street, Calcutta 12.

Beacon Brothers Pvt. Ltd., 17, Mangoe Lane, Calcutta 1.

Beardsell & Co. Pvt. Ltd., W.A., 8, Netaji Subhas Road, Calcutta.

Becker Gray & Co. Pvt. Ltd., 4, Netaji Subhas Road, Calcutta.

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Behar Firebricks & Potteries Ltd., 22, Strand Road, Calcutta 1.

Behar Rubber Industrial Co., 14-1, Bibibagan Lane, Calcutta 15.

Beharilal Bempershad Exports & Imports Pvt. Ltd., 144, Cotton Street, Calcutta 7.

Beharilal Khandelwal & Co., 20, Maharshi Debendra Road, Calcutta 7.

Bell's Asbestos & Engineering India Pvt. Ltd., 24, Chittaranjan Avenue, Calcutta 12.

Bengal Acid & Chemical Mfg. Co., 27-A, Upper Circular Road, Calcutta 9.

Bengal Belting Works Ltd., 2, Dalhousie Square East, Calcutta 1.

Bengal Board Mfg. Co., 12, Ramnath Kaviraj Lane, Calcutta 12.

Bengal Box Mfg. Co., 1 & 4, Rajkumar Chatterjee Road, Calcutta 2.

Bengal Builders & Traders Pvt. Ltd., P-13, Mission Row Extension, Calcutta 1.

Bengal Cardboard Box Co., 14, Amherst Street, Calcutta 9.

Bengal Cardboard Industries & Printers Pvt. Ltd., 72, Tiljala Road, Calcutta 17.

Bengal Castings & Engg. Co. Pvt. Ltd., 117, Barrackpore Trunk Road, Calcutta 35.

BENGAL CHEMICAL & PHARMACEUTICAL WORKS LTD., 6, Ganesh Chunder Avenue, Calcutta-13.

Bengal Chemicolour Co., 10, Armenian Street, Calcutta 1.

Bengal Collapsible Gate & Engg. Works, 1-2, Canal West Road, Calcutta 13.

Bengal Cordage Co., 113, Monohardas Chowk, Netaji Subhas Road, Calcutta 1.

Bengal Corporation Pvt. Ltd., 14, Netaji Subhas Road, Calcutta 1.

Bengal Dental Supply Co. Pvt. Ltd., 275-4, Bowbazar Street, Calcutta.

Bengal Drugs & Pharmaceutical Works Ltd., "Lakshmi Bilas House", 11, Raja Raj Narayan Street, Calcutta 9.

Bengal Dyestuff Syndicate, 3, Armenian Street, Calcutta 1.

Bengal Electric Lamp Works Ltd., 7, Old Court House Street, Calcutta 1.

Bengal Enamel Works Ltd., 60-2, Dharamtala Street, Calcutta 13.

Bengal Engineering Co., 24, Netaji Subhas Road, Calcutta 1.

Bengal Engineering Co. Ltd., 12, Dalhousie Sqr. (East), Calcutta 1.

Bengal Engineering and Trading Co., 30, Diamond Harbour Road, Calcutta 38.

Bengal Export & Import Corporation, 12-1, Belliaghatta Main Road, Calcutta 10.

Bengal Hardware & Tin Sheet Mfg. Co., 70, Netaji Subhas Road, Calcutta 1.

Bengal Immunity Co. Ltd., 153, Dharamtala Street, Calcutta 13.

Bengal Industries, 132, Cotton Street, Calcutta 7.

Bengal Ingot Co. Pvt. Ltd., 5, Hide Road, Kidderpore, Calcutta 23.

Bengal Jewellery Mfg. Co., 234, Chittaranjan Avenue, Calcutta 6.

Bengal Jute Baling Co. Ltd., 9, Brabourne Road, Calcutta 1.

Bengal Machinery Co., 24, Strand Road, Calcutta 1.

Bengal Machinery Corpn. Pvt. Ltd., 9, New Tangra Road, Calcutta 15.

Bengal Mercantile Co., 7, Swallow Lane, Calcutta 1.

Bengal Metal & Engineering Co., 20, Mullick Street, Calcutta 7.

Bengal Metal Product Co., 43-8, Strand Road, Calcutta 1.

Bengal Meteograph Co., 53, Pramanick Ghat Road, Calcutta 36.

Bengal Mill Stores Supply Co., 34, Netaji Subhas Road, Calcutta 1.

Bengal Minerals Supply Co., 71-A, Netaji Subhas Road, Calcutta 1.

Bengal Overseas Trading Co., 1, Bonfield Lane, Calcutta 1.

Bengal Paint Supply Co., 16, Bonfield Lane, Calcutta 1.

Bengal Paper Mills Co. Ltd., 21 Netaji Subhas Road, Calcutta.

Bengal Paper Tube & Box Mfg. Co., 18, Park Street, Calcutta 16.

Bengal Paste Co., 10, Delhi Entally Road, Calcutta 14.

Bengal Perfume Co., 3-37 & 38, College Street Market, Calcutta 12.

Bengal Phototype Co. Pvt. Ltd., 46-1, Amherst Street, Calcutta 9.

Bengal Porcelain Co. Ltd., 1/2, Moti Seal Street, Calcutta 13.

Bengal Potteries Ltd., 45, Tangra Road, P.O. Tangra, Calcutta 15.

Bengal River Service Co. Ltd., 22, Strand Road, Calcutta 1.

Bengal Salt Co. Ltd., 12-B, Netaji Subhas Road, Calcutta 1.

Bengal Scientific & Technical Works Pvt. Ltd., 20-3, Aswini Dutt Road, Calcutta 29.

Bengal Stationery Concern, 14-2, Old China Bazar Street, Calcutta 1.

Bengal Stone Co. Pvt. Ltd., 16, India Exchange Place, Calcutta 1.

Bengal Supply Co., 23-24, Strand Road, Calcutta 1.

Bengal Tar Products, 73, Netaji Subhas Road, Calcutta 1.

Bengal Tea Co. Ltd., 9, Brabourne Road, Calcutta 1.

Bengal Textile & Engineering Co., 40-1, Strand Road, Calcutta 1.

Bengal Timber Trading Co. Ltd., 4, Clive Row, Calcutta 1.

Bengal Tin Box Mfg. Co. Pvt. Ltd., I, Jadu Mitter Lane, Calcutta 4.

Bengal Trading Co., 70, Netaji Subhas Road, Calcutta 1.

Bengal Trading Co., 22, Strand Road, Calcutta 1.

Bengal Trading Corporation, 71, Canning Street, P.B. No. 2557, Calcutta 1.

Bengal United Co. Pvt. Ltd., 36, Strand Road, Calcutta 1.

Bengal Waterproof Works (1940) Ltd., 32, Theatre Road, Calcutta 16.

Bengal Wire Nails Co. Ltd., 37, Cross Street, Calcutta 7.

Benn, C. & Co. (India), 124-B, Dharamtala Street, Calcutta 13.

Bennett, Coleman & Co. Ltd., 13-1 & 13-2, Govt. Place, East, Calcutta 1.

BENSEN INDUSTRIES, 96, Shree Arobindo Road, Salkia, Howrah. Machine Fabricator for Tanning, Footwear and Leather Goods.

Bepin Pal Sons & Co., 174-A, Dharamtala Street, Calcutta 13.

Bery Brothers, 135, Canning Street, Calcutta 1.

B. G. Printers & Publishers Ltd., 80-6, Grey Street, Calcutta 6.

Bhadani Brothers Ltd., 15, Netaji Subhas Road, Calcutta 1.

Bhagat Singh Bugga & Co., 22, Canning Street, Calcutta.

Bhagwan Finance Corporation Pvt. Ltd., 10, Clive Row, Calcutta 1.

Bhalotia Coal Marketing Co., 8, Netaji Subhas Road, Calcutta.

BHALOTIA METAL MFG. CO., 2, Digamber Jain Temple Road, Calcutta-7. Phone: 33-7725. "HIND" brand bucket Manufacturers & Exporters.

Bharat Battery Mfg. Co. Pvt. Ltd., P/1A, Rash Behari Avenue, Calcutta 19.

Bharat Carbon & Ribbon Mfg. Co. Ltd., 19, British Indian Street, Calcutta 1.

Bharat Card Board Box Mfg. Co., 117, Keshab Sen Street, Calcutta 9.

Bharat Electric Bulb Works Ltd., 1-1, Uma Kanta Sen Lane, Dum Dum, Calcutta.

Bharat Electrical Industries, 6A, S. N. Banerjee Road, Calcutta 13.

Bharat Engineering Co., 8-B, S. N. Banerji Road, Calcutta 13.

Bharat Engineering Co., Bharat Bhawan, 3, Chittaranjan Avenue, South, Calcutta 13.

Bharat Hardware & Textile Syndicate, 138, Canning Street, Calcutta 1.

Bharat Industries & Commercial Corpn., Tower House, First Floor, Chowringhee Square, Calcutta.

Bharat Line Ltd., 13, Brabourne Road, Calcutta 1.

Bharat Overseas Pvt. Ltd., 18-A, Brabourne Road, Calcutta 1.

Bharat Produce Co. Ltd., 8, India Exchange Place, Calcutta.

Bharat Rubber Industries Pvt. Ltd., 17, Paymental Garden Lane, Calcutta 15.

Bharat Sheet Metal Industries Ltd., 6-A, S. N. Banerjee Road, Calcutta 13.

Bharat Spring Mfg. Co., 115, Netaji Subhas Road, Calcutta 1.

Bharat Tubewell Co. Pvt. Ltd., 118-A, Chittaranjan Avenue, Calcutta 7.

Bharat Typewriter Co., 1, Chandney Chowk Street, Calcutta 13.

Bharat Vegetable Products Ltd., 117, Harrison Road, Calcutta 7.

Bharatia Scales & Engineering Co., 4-1, Halderpara Lane, Khurut, Howrah.

Bhartia Commercial Co. Ltd., 23-24, Radha Bazar Street, Calcutta 1.

Bhartia Electric Steel Co. Ltd., 4, Old Court House Street, Calcutta 1.

Bharatiya Machine Tools Co. Ltd., 50, Stephen House, Calcutta 1.

Bhattacharjee Bros., 11, Sitala Lane, P.O. Hatkhola, Calcutta 5.

Bhattacharjee J. N. & Co., 24, Netaji Subhas Road, Calcutta 1.

Bhattacharjee S. K. & Co., 138, Canning Street, Calcutta 1.

Bhattacharrya & Co., 4, Ballav Dass Street, Calcutta 7.

Bhattacharya & Co., 12, Ezra Mansions, Govt. Place, East, Calcutta 1.

Bhattacharyya & Co., Mohta House, 29, Strand Road, Calcutta 1.

Bhattacharyya M. & Co., 73, Netaji Subhas Road, Calcutta 1.

Bhawani & Son Ltd., 5-B, Bharat Niketan, 72, Meredith Street, Calcutta 13.

Bholanath Dutt & Sons Ltd., Bholanath Bldgs., 167, Old China Bazar Street, Calcutta 1.

Bholanath Dutt (Paper Merchants) Pvt. Ltd., Raghunath Bldgs., 34-A, Brabourne Road, Calcutta.

Bholanath Paper House Pvt. Ltd., 32-A, Brabourne Road, Calcutta 1.

Bhowmik M. C. & Co., 42, Dharamtala Street, Calcutta 13.

Bhutoria Bros. Pvt. Ltd., 56, Netaji Subhas Road, Calcutta 1.

BHUWALKA & CO. PVT. LTD., 8, India Exchange Place, Calcutta 1.

BIDYUT SHILPA LTD., 372/66, Russa Road South, Calcutta-33. Phone: 46-4271. Manufacturers of 'BS' Brand B.C. Brass Lamp Holders of all Varieties, Porcelain B.C. Holder, Porcelain and Brass 3 slot Mercury Vapour Lamp holder, Porcelain Edison Screw holders, Porcelain Goliath Holders, Brass Body Edition Screw. Holders Brass Body Goliath holders, Water Tight Power Plugs, Cable Boxes, Glands, Bus Bar Chamber, Cable Sockets, Deck Fitting, Etc.

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Bijoya Chemical Works Ltd., Porui Road, Behala, Calcutta 34.

Bimal Bottle Stores Pvt. Ltd., 130, Radhabazar Street, Calcutta 1.

Binani Commercial Co. Pvt. Ltd., 42/1, Strand Road, Calcutta.

Binani Metal Works Pvt. Ltd., 38, Strand Road, Calcutta.

Biological Supply Concern Pvt. Ltd., 14, Hare Street, Calcutta 1.

Bird & Co. Pvt. Ltd., Chartered Bank Bldgs., Calcutta 1.

Birkmyre Bros Ltd., 4, Dalhousie Square East, Calcutta 1.

Birla Bros. Pvt. Ltd., 8, India Exchange Place, Calcutta 1.

Birmingham Iron & Steel Co., 8, Canning Street, Calcutta 1.

Bissendyal Gajanand, 41-A, Tarachand Dutt Street, Calcutta.

Biswas B. & Co., 56-B, Sikdarbagan Street, Calcutta 4.

Biswas Bros., 4, Sarkarbari Lane, Calcutta 3.

Biswas D. N. & Co., 10, Dalhousie Square East, Calcutta 1.

Biswas H. C. & Co., 11, Old China Bazar Street, Calcutta 1.

Biswas P. C. & Co., 42, Russa Road, East, Tollygunge, Calcutta 33.

Biswas S. K. & Co., 137, Bipin Behary Gangully Street, Calcutta 12.

Biyani & Sons Pvt. Ltd., 137, Canning Street, Calcutta 1.

B. K. Khanna & Co. Pvt. Ltd., 4, Council House Street, Calcutta 1.

B. K. Nayak & Brothers Pvt. Ltd., 141, Netaji Subhas Road, Calcutta 1.

B. K. Shaw Industries Pvt. Ltd., P.B. B. K. Paul Avenue, Calcutta 5.

Blacker & Co. Pvt. Ltd., 18, Strand Road, Calcutta 1.

Blackwood Hodge (India) Pvt. Ltd., Euclid Works, 139, Beliaghata Road, Calcutta 15.

Blackwoods India Ltd., 2, Mangoe Lane, Calcutta 1.

Bobb Framjee Private Ltd., 41-A, Free School Street, Calcutta 16.

Bokaro & Ramgur Ltd., 22, Chittaranjan Avenue, Calcutta 13.

Bolani Ores Pvt. Ltd., Chartered Bank Bldgs., Calcutta.

Bombay Ammonia & Refrigeration Co. Pvt. Ltd., 5, Mission Row, Calcutta.

Bombay Co. Pvt. Ltd., 18-A, Brabourne Road, Calcutta 1.

Bombay Trading Co. Pvt. Ltd., 14, Pageyapatti Street, Calcutta 7.

Bombay Safe & Steel Works Pvt. Ltd., 56, Netaji Subhas Road, Calcutta.

Bonard & Co. Ltd., 5, Council House Street, Calcutta 1.

Bookland Pvt. Ltd., 1, Sankar Ghose Lane, Calcutta 6.

Boral & Sen Private Ltd., 11/B, Romanath Biswas Lane, Calcutta 9.

Bose D. N. & Co. Pvt. Ltd., 12, Kalidas Singhee Lane, Calcutta.

Bose M. L. & Co. Pvt. Ltd., Lakshmibilas House, 14, Jagannath Dutt Lane, Calcutta 9.

Bose Sons & Co., 7 & 10, Biswas Nursery Lane, P.O. Beliaghatta, Calcutta.

Boseck J. & Co. Pvt. Ltd., Grand Hotel Arcade, 16-5, Chowringhee, Calcutta.

Boseck S. & Co., 15, Nanda Mullick Lane, Calcutta 6.

Bourne & Sheppard, 141, Corporation Street, Calcutta.

Boving & Co. Ltd., 21, Netaji Subhas Road, Calcutta 1.

B. P. Khemka Pvt. Ltd., 5, Clive Row, Calcutta.

BRADMA OF INDIA LTD., Addressing Machines & Business, System, 20-B, Park Street, P.O. Box No. 2098, Calcutta; Phone: 235747. Grams: "BRADMALT".

Brady W. H. & Co. Ltd., Mercantile Bldgs., Lall Bazar, Calcutta 1.

BRAITHWAITE BURN & JESSOP CONSTRUCTION CO. LTD., P-13, Mission Row Extn., Calcutta 1.

BRAITHWAITE & CO. (INDIA) LTD., Hide Road, Kidderpore, Calcutta-23.

Bridge & Roor Co. (India) Ltd., 21, Netaji Subhas Road, Calcutta 1.

Briggs R. V. & Co. Pvt. Ltd., 16, Old Court House Street, Calcutta 1.

Brijmohan Bros. Pvt. Ltd., 90, Stephen House, 4, Dalhousie Square East, Calcutta.

Britannia Biscuit Co. Ltd., 15, Taratolla Road, Calcutta 27.

Britannia Building & Iron Co. Ltd., Stephen House, 4, Dalhousie Square East, Calcutta.

Britannia Engineering Co. Ltd., 3, Netaji Subhas Road, Calcutta.

British Electrical & Pump Pvt. Ltd., 1-1-B, Mission Row, Calcutta 1.

British India Electric Construction Co. Ltd., 21, Netaji Subhas Road, Calcutta 1.

British India Export & Import Trading Co., 67-B, Raja Nabakissen Street, Calcutta 5.

British India Spring & Steel Co., 67-B, Netaji Subhas Road, Calcutta.

British India Steam Navigation Co. Ltd., 16, Strand Road, Calcutta.

British India Trading Co., 12, Waterloo Street, Calcutta.

British Insulated Callender's Cables Ltd., 9, Hare Street, Calcutta 1.

British Metal Corpn. (India) Pvt. Ltd., United India Life Bldgs., 22, Chittaranjan Avenue, Calcutta 13.

British Overseas Airways Corpn., 41, Chowringhee Road, Calcutta 16.

British Overseas Machineries Corpn., 41, Chowringhee Road, Calcutta 16.

British Paints (India) Ltd., 32, Chowringhee Road, Calcutta 16.

British Tabulating Machine Co. Ltd., 107, Stephen House, Dalhousie Square, P.B. No. 616, Calcutta.

Broadway Agency of India, 185-AB, Bow Bazar Street, Calcutta 12.

Broadway Publicity of India, 185-1-B, Bow Bazar Street, Calcutta 12.

Brocho & Co. Ltd., 36, Weston Street, Calcutta 13.

Brooke Bond India Pvt. Ltd., Brooke House, Calcutta 13.

Bryan Edwards & Co., 24, Chowringhee Road, Calcutta 13.

B. R. HERMAN & MOHATTA (INDIA) PRIVATE LTD. *Head Office:* Bombay. *Calcutta Office:* 19, British Indian Street, Calcutta-1. Tel./Cable: "ENLARGE". Phone: 23-5591/2/3, 23-1356. Importers and Exporters of Steel, Scrap, Engineering goods and Machinery. Manufacturers, Agents Controlled Stockists for Iron & Steel for the Government of India.

B. S. B. & Co. Pvt. Ltd., P-7, Mission Row Extension, Calcutta 1.

B. S. Engineering Corporation, 117, Raja Dinendra Street, Calcutta 4.

B. S. Industries, 435, Jessore Road, Calcutta 28.

Bubna More & Co. Pvt. Ltd., 5, Clive Row, Calcutta 1.

Buher (Asbestos) Pvt. Ltd., 12, Netaji Subhas Road, Calcutta 1.

Builders Publications of India Ltd., 47-E-6, Block B, Garden Reach, Calcutta 23.

Bunge & Co. Ltd., 8, Old Court House Street, Calcutta 1.

Burmah Oil Co. (India Trading) Ltd., India Exchange Bldgs., India Exchange Place, Calcutta.

Burmah-Shell Oil Storage & Distributing Co. of India Ltd., 31, Dalhousie Square, Calcutta 1.

Burn & Co. Ltd., 12, Mission Row, Calcutta 1.

Burnet, Davies & Co. Ltd., 22, Canning Street, Calcutta 1.

Butto Kristo Neogi & Co., 14-2, Old China Bazar Street, Calcutta 1.

Butto Kristo Paul & Co. Ltd., 1, Bonfield Lane, Calcutta 1.

Bysack K. L. & Co., 20, Netaji Subhas Road, Calcutta 1.

Cadbury-Fry (India) Ltd., 9-A, Esplanade East, Calcutta 11.

Calcutta Biscuit Co. Ltd., 155-8A, Upper Circular Road, Calcutta 6.

Calcutta Burlap Trading Co., 203/1, Mahatma Gandhi Road, Calcutta 1.

Calcutta Carbon Brush Mfg. Co., 21, Parsee Church Street, Calcutta 1.

Calcutta Chemical Co. Ltd., 35, Panditia Road, R. B. Avenue, Calcutta 29.

Calcutta Collapsible Gate Co. Ltd., 82, Netaji Subhas Road, Calcutta 1.

Calcutta Commercial Co., 37, Strand Road, P.B. No. 662, Calcutta 1.

Calcutta Constructors Pvt. Ltd., 34, Strand Road, Calcutta 1.

Calcutta Corrugated Paper Co., 36, Brabourne Road, Calcutta 1.

Calcutta Credit Corpn. Ltd., 36, Chowringhee Road, Calcutta 16.

Calcutta Electric Lamp Works Ltd., 3, Mangoe Lane, Calcutta 1.

Calcutta Electric Supply Corpn. Ltd., Victoria House, Chouringhee Square, Calcutta.

Calcutta Electrical Mfg. Co. Ltd., 33, Netaji Subhas Road, Calcutta 1.

Calcutta Engineering Co. (India) Ltd., British Indian Street, P.B. No. 589, Calcutta 1.

Calcutta Essence & Gas Supply Co., 2-A, Grants Lane, Calcutta 12.

Calcutta Expanded Metal Mfg. Co. Pvt. Ltd., P-16, Kalakar Street, Calcutta 7.

CALCUTTA FAN WORKS PRIVATE LTD., Manufacturers of Industrial and Domestic Fans. *Office:* 19/B, Chowringhee Road, Calcutta-13. Phone: 23-7552 & 23-7553; *Factory:* 4, Kusthia Road, Calcutta-39. Phone: 44-2094. Grams: "KALKATAFAN", Agents all over India.

Calcutta Filter Mfg. Co., 36, Beck Bagan Row, Calcutta 17.

Calcutta Hardware & Metal Supply Co., 25, Netaji Subhas Road, Calcutta 1.

Calcutta (India) Trading Co., 132, Cotton Street, Calcutta 7.

Calcutta Industrial Chemicals & Minerals Co. Pvt. Ltd., 43, Dharamtolla Street, Calcutta 13.

Calcutta Investment Co. Ltd., 9, Brabourne Road, Calcutta 1.

Calcutta Iron & Steel Co. Ltd., 65-A, Netaji Subhas Road, Calcutta 1.

Calcutta Iron Syndicate Ltd., 8-1, Maharshi Debendra Road, Calcutta 7.

Calcutta Job Press Pvt. Ltd., 35-B, Wellington Street, Calcutta 13.

Calcutta Jute Agency Pvt. Ltd., 2, Clive Row, Calcutta 1.

Calcutta Jute Mfg. Co. Ltd., 93, Narkeldanga Main Road, Calcutta 11.

Calcutta Machine Tools Corpn., 10, Clive Row, Calcutta.

Calcutta Mercantile Co., 161-1-A, Rash Behary Avenue, Calcutta 19.

Calcutta Metal Industries Ltd., P-3, Kalakar Street, Calcutta 7.

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Calcutta Metallic Co., 11, Harish Mukherjee Road, Calcutta 25.

Calcutta Mica Corporation Ltd., 161, Muktaram Babu Street, Calcutta 7.

Calcutta Mineral Supply Co. Ltd., 31, Jackson Lane, Calcutta 1.

Calcutta Motor & Cycle Co., 5, Bentinck Street, Calcutta 1.

Calcutta Motor Car & Electric Co., 9-A, Dalhousie Sqr. East, Calcutta 1.

Calcutta Motor Works, 54, Bentinck Street, Calcutta 1.

Calcutta Optical Co. Pvt. Ltd., 45, Amherst Street, Calcutta 9.

Calcutta Paint Colour & Varnish Works, 8, Chunapukur Lane, Calcutta 12.

Calcutta Paper Bag Co., 1, Bhabanath Sen Street, Shambazar, Calcutta 4.

Calcutta Phototype Co. Pvt. Ltd., 6, Chowringhee, Calcutta 13.

Calcutta Rope Mfg. Co. Ltd., 22, Raja Woodmunt Street, Calcutta 1.

Calcutta Rubber Mfg. Co. 92, Narkeldanga Main Road, Calcutta 11.

Calcutta Safe Deposit Co. Ltd., 102-A, Netaji Subhas Road, Calcutta.

Calcutta Spring Mfg. Co., 71-A, Netaji Subhas Road, Calcutta 1.

Calcutta Steam Navigation Co. Ltd., 5, Fairlie Place, Calcutta 1.

Calcutta Surgical Co., 33, Canning Street, Calcutta 1.

Calcutta Traders Co., 28, Amratolla Street, Calcutta 1.

Calcutta Trading Corpn., 12, Lower Chitpur Road, Calcutta.

Calcutta Tramways Co. Ltd., P-4, Mission Row Extension, Calcutta 1.

Calcutta Tube Co., 21-A, Canning Street, Calcutta 1.

Calcutta Wax Traders & Co. Pvt. Ltd., 22, Bonfield Lane, Calcutta 1.

Calendar Corporation (India) Ltd., 25, Chittaranjan Avenue, Calcutta 12.

Callarman J. Pvt. Ltd., P-34, Mission Row Extension, Calcutta 13.

Caltex (India) Ltd., 22, Chittaranjan Avenue, Calcutta 13.

Cambray R. & Co. Pvt. Ltd., Kent House, P-33, Mission Row Extn., Calcutta 13.

Cambridge Book & Stationery Co., 20-D, Park Street, Calcutta 16.

Campbell's Mineral Co., 6-1, Sudder Street, Calcutta 16.

Canton Carpentry Works Pvt. Ltd., 14, Radhanath Chowdhury Road, Calcutta 15.

Cantwell & Co., 28, Ezra Mansions, Calcutta 1.

Capco Pvt. Ltd., 14, Netaji Subhas Road, Calcutta 1.

Capital, 5, Mission Row, P.O. Box 14, Calcutta 1.

Caprihans (India) Pvt. Ltd., 53-D, Chowringhee Road, Calcutta 16.

Cardboard Materials & Printing Co. Ltd., 7, Convent Road, Entally, Calcutta 14.

CARE & CONSTRUCTION CO., Specialists in maintenance, erection, Conversion and repair of lifts, hoist etc., 44, Chittaranjan Avenue, Calcutta-12.

Carew & Co. Ltd., Fairlie Place, Calcutta 1.

Cargo Inspectors & Superintendence Co. Pvt. Ltd., 17, Brabourne Road, Calcutta.

Carlie Lawrie & Co., 1, British Indian Street, Calcutta 1.

Carr Allen & Co., 13-A, Russell Street, Calcutta 16.

Carr & Co. Ltd., 35, Chittaranjan Avenue, Calcutta 12.

Carrara Marble & Terrazzo Co. Ltd., P-21, Mission Row Extension, Calcutta 13.

Carrit Moran & Co. Pvt. Ltd., 9, Mission Row, Calcutta.

Carter Pooler & Co., 10, Clive Row, Calcutta 1.

Cartright H. D. & Co., 2, Clive Ghat Street, Calcutta 1.

Castings Corpn. (India) Pvt. Ltd., 44, Madhusudan Pal Chowdhury Lane, Howrah.

Castlewood (India), 12G, Park Street, Calcutta 16.

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Central Trading Co., 137, Canning Street, Calcutta 1.

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Chakraverty S. K. & Co., 8-A, Lall Bazar Street, Calcutta 1.

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Chancham & Worah Pvt. Ltd., 18, Netaji Subhas Road, Calcutta.

Chanda P. C. & Co. Ltd., P-2, Mission Row Extn., Calcutta 1.

Chandi Charan Dass & Co. Pvt. Ltd., 121/4-A, Maniktola, Main Road, Calcutta 11.

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Chandra & Sons Pvt. Ltd., 116/1-117, Bowbazar Street, Calcutta 12.

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Chatterjee S. N. & Bros., 38, Strand Road, Calcutta 1.

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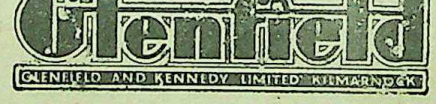

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Indian Hard Metals Pvt. Ltd., 20, Ballygunge Park Road, Calcutta 19.

Indian Hume Pipe Co. Ltd., 190-1, Rash Behari Avenue, Calcutta.

Indian Import & Export Co. Pvt. Ltd., 50, Ezra Street, Calcutta 1.

Indian Industrial Corpn., 10, Canning Street, Calcutta 1.

Indian Iron & Steel Co. Ltd., 12, Mission Row, Calcutta.

Indian Malleable Castings Ltd., 4, Lyons Range, Calcutta 1.

Indian Metal & Steel Products Ltd., 20-1, Lall Bazar, Calcutta 1.

Indian Mineral Industries Ltd., 22-1, 22-C, Dum Dum Road, Calcutta 2.

Indian Minerals & Associated Industries, 12-B, Netaji Subhas Road, Calcutta 1.

Indian Molasses Co. Pvt. Ltd., P-14, Prinsep Street, Calcutta 13.

Indian National Diesel Engine Ltd., Hall and Anderson Bldg., Park Street, Calcutta 16.

Indian National Petroleum Co. Ltd., 22, Canning Street, Calcutta 1.

Indian Patent Stone Co. Pvt. Ltd., Chartered Bldg., Netaji Subhas Road, Calcutta 1.

Indian Oxygen Ltd., 48/1, Diamond Harbour Road, Calcutta 27.

Indian Photo Engraving Co. Pvt. Ltd., 28, Beniatola Lane, Calcutta 9.

Indian Pin Mfg. Co. Ltd., 1, Satya Doctor Road, Calcutta 23.

Indian Press Pvt. Ltd., 93-A, Dharamtalla Street, Calcutta 13.

Indian Rubber Goods Mfg. Co., 30-H-2, Canal East Road, Calcutta 11.

Indian Rubber Manufacturers Ltd., 4, Lyons Range, Calcutta 1.

Indian Smelting and Refining Co. Ltd., 1, Royal Exchange Place, Calcutta 1.

Indian Spring Mfg. Co., 159, Panchanontala Road, Howrah.

Indian Standard Wagon Co. Ltd., 12, Mission Row, Calcutta 1.

Indian Steel & Wire Products Ltd., 7, Wellesley Place, Calcutta 1.

Indian Steelworks Construction Co. Ltd., Stephen House, Dalhousie Sqr., Calcutta 1,

Indian Terrazo & Patent Floors Ltd., 16, Mangoe Lane, Calcutta 1.

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Indian Textiles Co. Pvt. Ltd., 1-2-3, Old Court House Street, Calcutta 1.

Indian Tin Box and Metal Works Pvt. Ltd., 137-A, Jessore Road, Calcutta 28.

Indian Tools Corpn., 353 & 354, Upper Chitpore Road, Calcutta 6.

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Indian Union Traders Ltd., 12, Dalhousie Square East, Calcutta 1.

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Indo-British Spring Mfg. Co., 28, Christopher Road, Calcutta 14.

Indo-British Trading Syndicate, 192-B, Chttaranjan Avenue, Calcutta 7.

Indo-Burma Forest Syndicate, 65-A, Darmahatta Street, Nimtola, Calcutta 6.

Indo-Burma Petroleum Co. Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.

Indo-Burma Spring Mfg. Co., 22, Strand Road, Calcutta 1.

Indo-European Agency Pvt. Ltd., 67, Ezra Street, Calcutta 1.

Indo-European Machinery Co. Pvt. Ltd., 5, Bentinck Street, Calcutta 1.

Indo-Japanese Industries Ltd., 150, Dharamtolla Street, Calcutta 13.

Indo-Mineral Corpn., 32, Cross Street, Calcutta 7.

Indo-Overseas Trading Co. Pvt. Ltd., 2, India Exchange Place, Calcutta 1.

Indo-Phillips Industries Pvt. Ltd., 3, Bentinck Street, Calcutta 1.

Indo-Swiss Trading Co. Pvt. Ltd., Kent House, P-33, Mission Row Extn., Calcutta 13.

Indo-Trading Co., 18, Netaji Subhas Road, Calcutta 1.

Indo-World Trading Co. Ltd., 10, Armenian Street, Calcutta 1.

Indu Bhusan Dutt & Co., D-7, Juggernath Ghat, Calcutta 7.

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Industrial & Agricultural Engg. Co. (Calcutta) Pvt. Ltd., Gandhi House, 16, Ganesh Chandra Avenue, Calcutta 13.

Industrial Chemical Corpn. Ltd., 22, Swallow Lane, Calcutta 1.

Industrial Corporation, 138, Canning Street, Calcutta.

Industrial Importers Pvt. Ltd., 34, Stephen House, 4, Dalhousie Sqr. East, Calcutta 1.

Industrial Instrument Co., 30, Strand Road, Calcutta 1.

Industrial Leathers Co., 3-1, Indra Roy Road, Calcutta 25.

Industrial Machinery Co., 20, Netaji Subhas Road, Calcutta 1.

Industrial Machines Corpn., 138, Canning Street, Calcutta 1.

Industrial Syndicate Pvt. Ltd., 119-B, Ripon Street, Calcutta 16.

Industries (India) Ltd., 24, Ezra Mansions, Calcutta 1.

Industries Syndicate, Post Box 7828, Calcutta.

Ingersol-Rand (India) Pvt. Ltd., 7, Wellesley Place, Calcutta 1.

Inrupexco, P-16, Bentinck Street, Calcutta 1.

Instrument Research Laboratory Ltd., 309, Bowbazar Street, Calcutta 12.

Inter-Continental Trading Corpn., 12-B, Netaji Subhas Road, Calcutta 1.

International Aluminium Co. Ltd., 41, Chowringhee, Calcutta 16.

International Calendar Co., 35, Chittaranjan Avenue, Calcutta.

International Chemical Co., 146, Mahatma Gandhi Road, Calcutta.

International Combustion (India) Pvt. Ltd., 101, Park Street, Calcutta 16.

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International Electric & Engineering Co., 12, Lower Chitpur Road, Calcutta.

International Engineering Co., 7-1/C, Lindsay Street, Calcutta 16.

International Equipment Corpn. Pvt. Ltd., 7, Hare Street, Calcutta 1.

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International General Electric Co. (India) Pvt. Ltd., Wellesley Place, P.B. No. 2007, Calcutta 1.

International Hardware Co., 67-B, Netaji Subhas Road, Calcutta 1.

International Hardware Ltd., 86-B, Netaji Subhas Road, Calcutta 1.

International Industries Ltd., 32/1, Strand Road, Calcutta 1.

International Linkers Ltd., P-22, Swallow Lane, Calcutta 1.

International Lubricants Ltd., 12-A, Ashutosh Mukherjee Road, Calcutta 20.

International Machines Corpn., 16, Canning Street, Calcutta 1.

International Refrigeration Engineering Co., 5/2, Ripon Street, Calcutta 16.

International Remedies Ltd., 8-A, Rajendra Lal Street, Calcutta 6.

International Sales Corpn. Pvt. Ltd., 5, Clive Row, Calcutta 1.

International Tyres & Motors Pvt. Ltd., 2, Rowland Road, Calcutta 20.

International Tools Corpn., 138, Canning Street, Calcutta 1.

Inter Sales (India), 62, Netaji Subhas Road, Calcutta 1.

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Isaia G. & Co., 15, Free School Street, Calcutta 16.

Ispahani Ltd., 51, Ezra Street, Calcutta 1.

Ismail Mullick & Co., 5-4, Dharamtala Street, Calcutta 13.

Italab Pvt. Ltd., 10, Lall Bazar Street, Calcutta.

Itoo Pvt. Ltd., 4, Raja Woodmunt Street, Calcutta 1.

Ivan Jones Ltd., 18, B. Brabourne Road, Calcutta.

J. F. RUSTOMJEE & CO., 4, Madan Street, Calcutta-13; Grams: "DENTMEDIKO".

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Jagdishprashad Panna'al & Co. Pvt. Ltd., 27, Amratolla Lane, Calcutta 1.

Jaggi & Co., 12, Lindsay Street, Calcutta 16.

Jaipal Gupta & Co., 138, Canning Street, Calcutta 1.

Jaipuria Bros. Ltd., 33, Netaji Subhas Road, Calcutta 1.

Jaipuria Properties Ltd., 33, Netaji Subhas Road, Calcutta 1.

Jaiswal Trading Corporation, 62/1-A, Netaji Subhas Road, Calcutta 1.

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Jalan Bros. Pvt. Ltd., 178, Mahatma Gandhi Road, Calcutta.

Jalan Industries Pvt. Ltd., 62, Ballygunge Circular Road, Calcutta 19.

Jalan Modi & Co., 67-B, Netaji Subhas Road, Calcutta 1.

Jalan Trading Co., Jalan House, 124, Harrison Road, Calcutta 7.

Jalan S. L. & Sons, Shanker Villa, 105-G, Block F, New Alipur, Calcutta 33.

James & Co. Ltd., 25, Netaji Subhas Road, Calcutta 1.

James Alexander & Co. Ltd., 15, Watgunge Street, Kidderpore, Calcutta 23.

James Finaly & Co. Ltd., 2, Netaji Subhas Road, Calcutta 1.

James Glendye & Co. Pvt. Ltd., 6, Chowringhee, Calcutta 13.

James Lord & Sons Ltd., 5, Commercial Bldgs., Calcutta 1.

James Murray & Co. Pvt. Ltd., 5, Old Court House Street, Calcutta 1.

James Warren & Co., Ltd., 31, Chowringhee Road, Calcutta 16.

James Wright Ltd., 22, Chittaranjan Avenue, Calcutta 13.

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Jamnadas & Co., 27, Amratolla Lane, Calcutta 1.

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Jardine Menzies & Co., 2, Clive Row, Calcutta 1.

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Jayantilal Ojha & Co. Pvt. Ltd., 4, Dalhousie Square East, Calcutta 1.

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Jay Engineering Works Ltd., 183-A, Prince Anwar Shah Road, P. O. Dhakuria, Calcutta 31.

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Jessop & Co. Ltd., 63, Netaji Subhas Road, Calcutta 1.

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Jewell Filter Co. Ltd., 28, Chittaranjan Avenue, Calcutta 12.

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John Paterson & Co. (India) Ltd., 96, Garden Reach Road, Calcutta 23.

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Johnson & Co., S. S. Hogg Market, Lindsay Street, Calcutta 13.

Johnston Pumps India Ltd., 2, Fairlie Place, Calcutta 1.

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Jones J. D. & Co. Pvt. Ltd., C-5, Gillander House, Calcutta 1.

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Kalinga Tubes Ltd., 33, Chittaranjan Avenue, Calcutta 12.

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Kanoi (India) Pvt. Ltd., P-8, Mission Row Extension, Calcutta 1.

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Kashiram Banaresilal Pvt. Ltd., 83, Old China Bazar Street, Calcutta 1.

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Lakshmi Iron and Steel Works Pvt. Ltd., P-16, Kalakar Street, Calcutta 17.

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Ludlow Jute Co., Ltd., 7, India Exchange Place, Calcutta 1.

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London & Co., 29-31, Park Street, Calcutta 16.

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Lyons (India) Pvt Ltd., P. N. B. House, 18A, Brabourne Road, Calcutta 1.

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M. A. Eblagh & Son Pvt. Ltd., P/34, Mission Row Extn., Calcutta 13.

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Machine Tools (India) Pvt. Ltd. Wimet House, Russell Street, Calcutta 16.

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Machinery Manufacturers Corpn. Ltd., 207, Lower Circular Road, Calcutta 17.

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Mahindra & Mahindra Ltd., Hall & Anderson Bldg., Park Street, Calcutta.

Mahnandra Datta & Co., Pvt. Ltd., 153/1, Cotton Street, Calcutta 7.

Maihar Stone & Lime Co., Ltd., 14, Hare Street, Calcutta 1.

Main, A. & J. Co., Ltd., 16, Netaji Subhas Road, Calcutta 1.

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Plating & Polishing Materials Supply Agency, 27, Sashi Bhusan De Street, Calcutta 12.

Poddar Jaipuria & Co., 33, Netaji Subhas Road, Calcutta 1.

Poddar K. L. & Sons Ltd., 25, Netaji Subhas Road, Calcutta 1.

Poddar Land Development Trust Ltd., 36, Chowringhee Road, Calcutta 16.

Poddar Mining Corpn. Pvt. Ltd., 36, Chowringhee Road, Calcutta 16.

Polar Electric Fan Marketing Co., 168-B, Cotton Street, Calcutta.

Pols Spring & Steel Co., 111B, Netaji Subhas Road, Calcutta 1.

Polson Pvt. Ltd., 6-A, Sudder Street, Calcutta 16.

Popular Jute Trading Co. Ltd., 8, Dalhousie Sq. East, Calcutta 1.

Port Engineering Works Ltd., 8, Clive Row, Calcutta 1.

Power and Machinery Corporation Pvt. Ltd., 10/1/D, Lall Bazar Street, Calcutta 1.

Power Equipment & Construction Co., 91, Netaji Subhas Road, Calcutta 1.

Power Equipment & Electric Corpn., 36, Strand Road, Calcutta 1.

Power Equipment & Engineering Co., 70, Netaji Subhas Road, Calcutta 1.

Power Farming Pvt. Ltd., 3, Jagmohan Mullick Lane, Calcutta 7.

Powers-Samas Accounting Machines (Sales) Ltd., 2 & 3, Clive Row, Calcutta.

Power Tools & Appliances Co., 2, Dalhousie Sqr., East, Calcutta 1.

Power Transmission & Construction Co., 91, Netaji Subhas Road, P.B. No. 778, Calcutta.

Power Transmission Equipment Corpn., 37, Strand Road, Calcutta 1.

PRAVIN TRADING CO., Pipes & Pipe Fittings, Small Tools & Hardware Merchants; 56, Netaji Subhas Road, Calcutta-1; Phone: 22-4739; Grams: "MORLOCK"; *Branch Office & Works:* 1, Desh Pran Sasmel Road, Howrah; *Madras Office:* Lakshmi Bhawan, 222, Wall Tax Road, Madras-3.

Prawnkissen Law & Co., 63, Radha Bazar Street, Calcutta 7.

Precision Instrument Corpn. (India) Pvt. Ltd., 46, Dharamtala Street, Calcutta 13.

Precision Products of India, 10/A, Creek Lane, Calcutta 14.

Premier Dyes & Chemicals Pvt. Ltd., 9-A, Zakaria Street, Calcutta 1.

Premier Mica Mining & Mfg. Co., 32, Gopi Krishna Pal Lane, Calcutta 6.

Premier Scientific Glass Co., 26-2A, Prosanna Kumar Tagore Street, Calcutta 6.

PREMIER STORES SUPPLYING CO., LTD., 6/1, Dilarjung Road (Chopra Market), Cossipur, Calcutta-2; Manufacturers of Bolts, Nuts, Rivets, Cotter Pins, Baling Buckles and Baling Pins etc.

Premier Theatres Pvt. Ltd., 40-2, Harrison Road, Calcutta 9.

Premraj Ganpatraj & Co., 55, Canning Street, Calcutta 1.

Press Syndicate Ltd., 10, Govt. Place East, Calcutta 1.

Preston Electric Co. (India) Pvt. Ltd., 2, Madan Street, Calcutta 13.

Price, Waterhouse Peat & Co., Gillander House, Netaji Subhas Road, Calcutta.

Printers House Ltd., 32-A, Chittaranjan Avenue, Calcutta 13.

Pritchett & Gold Batteries (Eastern) Ltd., 31, Chittaranjan Avenue, P.B. No. 2685, Calcutta 12.

Process Control Equipment Co., 55, Joy Mitter Street, Calcutta 5.

Progressive Chemical Industries Pvt. Ltd., 20, Muktaram Babu Street, Calcutta 7.

Pronob & Co. Pvt. Ltd., 68, Chongrihata Road, Calcutta 15.

Protos Engineering Co. Pvt. Ltd., Post Box No. 2549, Calcutta.

Pure Food Products (India), 81, Sikdarbagan Street, Calcutta 4.

Purtabpore Co. Ltd., 9, Brabourne Road, Calcutta.

Purushottam Umedbhai & Co., 35, Canning Street, G. Block, Calcutta 1.

Purushottum Choubey & Co. Ltd., 183, Raja Dinendra Street, Calcutta 4.

Racek F. & Co. Pvt. Ltd., 57, Radhabazar Street, Calcutta 1.

RADHESHYAM PLASTIC INDUSTRIES, 65-A, Nimtolla Ghat Street, Calcutta-6; Phone: 55-4836; Grams: "PLASENTER"; Exporters, Manufacturers & Order Suppliers of Polythene Carboys for Storing Corrosive Acids, Alkalies and Chemicals, Moisture and Chemical resistant Containers, Jars, Bottles, Phials etc. for packing Pharmaceuticals preparations, Domestic Utility articles and high class toys; Undertake Jobs as per Specification or Blue-Print.

Rach Behary Sen (1897) Pvt. Ltd., P. Box No. 335, Calcutta.

Radiant Display (India) Pvt. Ltd., 29, Waterloo Street, Calcutta 1.

Raghunath Dutt & Sons, Pvt. Ltd., 32-B, Brabourne Road, Calcutta 1.

Railway Appliances & Engineering Co., 71-A, Netaji Subhas Road, Calcutta 7.

Railway Engineering Corporation, 4, Clive Ghat Street, Calcutta 1.

Rai Sahib Chandanmull Indrakumar Pvt. Ltd., 3, Synagogue Street, Calcutta 1.

RAJANIKLAL COMPANY (PRIVATE) LIMITED, 24, Brabourne Road, Calcutta-1 (Telephone 22-3255). Producers of: FERROLITE: Thermal & Acoustic Insulation Slabs etc. ABRASIVES: For Automotive, allied and other Engineering Industries. CERAMICS: Water Filters, Sanitary fittings, Porcelain Novelties, Toys etc.

Rajendra & Co., 33, Bowbazar Street, Calcutta 12.

Rajendra Nath Mullick & Co., Ltd., 20, Maharshi Debendra Road, Calcutta 7.

Rajgarhia Brothers, Ltd., 13, Harrington Street, Calcutta 16.

Rajgarhia Trading Co. Pvt. Ltd., 123, Grey Street, Calcutta 5.

Rajmahal Quartz-Sand & Kaolin Co., 31, Jakson Lane, Calcutta.

Rakhaldas Mullick & Co., D/14, Jagannath Ghat, Calcutta 7.

Rallis India Ltd., Ralli House, 16, Hare Street, Calcutta 1.

Ramdev & Sons Pvt. Ltd., 19, British Indian Street, Calcutta 1.

Ramnarain Shaw & Co., 4, Mission Row, 1st Floor, Calcutta 1.

Rana P. & Co., P-21, Mission Row Extension, Calcutta 13.

Randerian G. A. Pvt. Ltd., 16, Ganesh Chandra Avenue, Calcutta 13.

Rank Film Distributors of India Pvt. Ltd., Light House Cinema Bldg., 1, Humayun Place, Calcutta 1.

Rash Behary Sen (1897) Pvt. Ltd., 190-191, Old China Bazar Street, Calcutta 1.

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Ratan D. & Co., 22-1, Cornwallis Street, Calcutta 6.

Raunaq & Co. Pvt. Ltd., 85, Netaji Subhas Road, Calcutta 1.

Ray & Co. India Pvt. Ltd., P. C., 4, Lyons Range, Calcutta.

Raymond India Pvt. Ltd., 2, Brabourne Road, Calcutta 1.

R. B. Rodda & Co. Ltd., 2, Wellesley Place, Calcutta 1.

Reed Ward & Co., 7, India Exchange Place, Calcutta 1.

Reckit & Colman of India Ltd., 41, Chowringhee Road, Calcutta 16.

Refractories & Minerals Syndicate Pvt. Ltd., 20, Netaji Subhas Road, Calcutta 1.

REFRIGE PRIVATE LIMITED, 58C, Chowringhee Road, Calcutta 16. Refrigerating & Air-conditioning Engineers. Distributors for Hallmark Machinery Manufactured by J. & E. Hall Ltd. of Dartford, England.

Refrigeration Accessories Pvt. Ltd., 60, Dharamtala Street, Calcutta.

Refrigeration Equipment Pvt. Ltd., 32, Chowringhee, Calcutta.

Refrigerators (India) Pvt. Ltd., 59-C, Park Street, Calcutta 16.

Reliable Water Supply Service of India Pvt. Ltd., 10, Canning Street, Calcutta 1.

Reliance Firebrick & Pottery Co. Ltd., 4, Lyons Range, Calcutta.

Reliance Development & Engineering Ltd., P-14, Durga Charan Mitter Street, Calcutta 6.

RELIANCE DYES & CHEMICAL CO., 38, Armenian Street, Calcutta 1.

Reliance Firebrick & Pottery Co. Ltd., 4, Lyons Range, Calcutta 1.

Reliance Products Ltd., 15, Chittaranjan Avenue, Calcutta 13.

Reliance Spring & Steel Co., 15-A, Pottery Road, Tangra, Calcutta 15.

Reliance Trading Co., 8-B, Amratala Lane, Calcutta 1.

Relief Roller Castings Co., 4, Girish Chandra Bose Road, Calcutta 14.

Remfry & Son, Stephen House, Dalhousie Sqr., Calcutta 1.

Remington Rand of India Ltd., 3, Council House Street, Calcutta 1.

Republic Traders Corpn., P-12, Mission Row Extn., Calcutta 1.

Rex Engineering Co., 71-A, Netaji Subhas Road, Calcutta 1.

Reyrolle, A. & Co. Ltd., 12, Mission Row, Calcutta 1.

Ringer, C. & Co., Norton Bldg., 23, Lall Bazar, Calcutta 1.

Riten & Co., 87, Dharamtala Street, Calcutta 13.

Rivers Steam Navigation Co. Ltd., 2, Fairlie Place, Calcutta 1.

R. K. Cycle Industries Pvt. Ltd., 80, Lower Circular Road, Calcutta 14.

R. K. Millen & Co. (India) Pvt. Ltd., 38, Netaji Subhas Road, Calcutta 1.

R. K. Modi Pvt. Ltd., 12, Dalhousie Sqr. East, Calcutta 1.

RKO Radio Pictures Pvt. Ltd., New Empire Theatre Bldg., 1, Humayun Place, Calcutta 13.

R. L. Modi & Sons Pvt. Ltd., 2, Doyehatta Street, Calcutta 7.

R. McDill & Co. Pvt. Ltd., 34B, Ratu Sarkar Lane, Calcutta 7.

R. N. Saraogi & Co. Ltd., 56, Netaji Subhas Road, Calcutta 1.

Roadways (India) Transport Corporation, 3, Mitra Lane, Calcutta 7.

Robert Hudson (India) Pvt. Ltd., 12, Mission Row, Calcutta 1.

ROBERTS McLEAN & CO. LTD., Regd. Office: 2, Brabourne Road, Calcutta 1; Phone: 22-4341/4; Branches at: Ilaco House, Sir P. Mehta Road, Fort, Bombay; Phone: 26-1502; 200, Mount Road, Madras 2; Phone: 85364; 19-A, Najafgarh Road, New Delhi; Grams: "ROBLEAN"; Board of Directors: K. Tapuriah, Mg. Director, K. L. Thirani, Director, J. D. Gardom, Director and H. J. Silverston, Alternate Director.

R. N. Jhunjhunwala & Co. Pvt. Ltd., 9, Ezra Street, Calcutta 1.

Robsan & Co. Ltd., Windsor House, P14, Mission Row Extn., Calcutta 1.

Rodda, R. B. & Co. Ltd., 2, Wellesley Place, Calcutta 1.

Roneo Ltd., 13, Mission Row Extension, Calcutta.

Roofex (India) Pvt. Ltd., 135, Canning Street, Calcutta 1.

Rohtas Industries Ltd., 11, Clive Row, Calcutta 1.

Rosbay, & Co., 1-B, Gopal Neogi Lane, Calcutta 3.

Rostron, & Co. Pvt. Ltd., 10, Govt. Place, East, Calcutta 1.

Roy, A. C. & Co. Pvt. Ltd., 5, Mission Row (1st Floor), Calcutta 1.

Roy Choudhury, J. N., 18, Netaji Subhas Road, Calcutta 1.

Royal Elephant Twine Ball Mfg. Co., 12, Tamer Lane, Calcutta 9.

ROYSON & CO., 55, Gariahat Road, Calcutta-19; Phones: 47-4872/47-4309; Fire Protection Engineers Since 1932.

R. Sen & Co. (Agents) Pvt. Ltd., P-66, Circular Garden Reach Road, Calcutta 23.

R. Shantilal & Co. Pvt. Ltd., 31/C, Brabourne Road, Calcutta 1.

Rubber Moulding Co., 39, Strand Road, R. No. 32, Calcutta 1.

Rubber Products & Moulding Co., 9-A, Bechulal Road, Calcutta 15.

Ruby Engineering Corpn., 91, Netaji Subhas Road, Calcutta 1.

Rudra & Co. Pvt. Ltd., 32, Madan Mitter Lane, Calcutta 6.

Rungta Sons Pvt. Ltd., P-16, Kalakar Street, Calcutta 7.

Rupabani Theatres Pvt. Ltd., 32-A, Shyama Prosad Mukherjee Road, Calcutta 26.

Rustomjee, J. F. & Co., 4-D, Madan Street, Calcutta 13.

Ruth & Co., 11, Dalhousie Sqr. East, Calcutta 1.

S. A. Nasar & Co. Pvt. Ltd., 2, Chittaranjan Avenue, Calcutta.

S. A. Torab & Co., 55, Canning Street, Calcutta 1.

Sadani Brothers, Sadani House, 26, Sibu Thakur Lane, Calcutta 7.

Saha, B. K. & Bros. Pvt. Ltd., 5, Pollock Street, Calcutta 1.

Saha, C. C. Ltd., 45, Moti Sil Street, Calcutta 13.

Saha, R. N. & Co., 26, Gouribari Lane, Calcutta 4.

Saharia Industries, 12, Dalhousie Square East, Calcutta.

Sahib Singh Mfg. Co. Pvt. Ltd., Post Box 9104, Calcutta.

Sahu Cement Service, 18-A, Brabourne Road, Calcutta.

Sain, J. M. & Bros., 110, College Street, Calcutta 12.

Sakti Carbon Co., 60, Bose Pukur, Calcutta 31.

Sales & Industries Pvt. Ltd., 6, Old Post Office Street, Calcutta 1.

Salkia Paint Mfg. Co., 40-1, Strand Road, Calcutta 1.

Samson Spring & Engineering Co., 62, Panchanantala Road, Howrah.

Samuel Fitze & Co. Pvt. Ltd., 26, Chowringhee Road, Calcutta 13.

Samuel Osborn (India) Pvt. Ltd., 1, Lower Circular Road, Calcutta 20.

Sandoz Products Pvt. Ltd., 5, Bankshall, Street, Calcutta 1.

Sanganeria Co. Pvt. Ltd., 9, Jagmohan Mullick Lane, Calcutta 7.

Sanitary & Plumbing Stores Ltd., 138 & 146, Shyama Prasad Mukherjee Road, Calcutta 26.

Sankey Electrical Stampings Pvt. Ltd., Mookerjee House, 17, Brabourne Road, Calcutta 1.

Santos Chandra Banerjee & Sons Pvt. Ltd., 24, Mandeville Gardens, Calcutta 19.

Sarkar, Gupta & Co. Pvt. Ltd., 154/1, Mahendra Bhattacharjee Road, Howrah.

Sarkar, M. C. & Sons Pvt. Ltd., 14, Bankim Chatterjee Street, Calcutta 12.

Sarkar, S. C. & Sons Ltd., 1-1-C, College Sqr., Calcutta 12.

Sarkar, N. R. & Co. Pvt. Ltd., Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.

Sarker, P. R. Co. Pvt. Ltd., Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.

Sarmas (India) Pvt. Ltd., 9, Chowringhee Road, Calcutta 13.

Saroj Iron & Steel Co. Pvt. Ltd., 85-1, Upper Chitpur Road, Calcutta 6.

SARU SMELTING & REFINING CORPN. PVT. LTD., 161-1, Mahatma Gandhi Road, Calcutta, Phone: 335308 & 335312; Grams: "SARUCOR"; Manufacturers: All nonferrous Alloys, Resin Cored Solder wires, Silver Brazing Alloys and Welding Rods of all descriptions.

Saxby & Farmer (India) Pvt. Ltd., 17, Convent Road, Entally, Calcutta 14.

Scandinavian Airlines System, 18, Park Street, Calcutta 16.

Scientific Dyeing & Cleaning Co. Pvt. Ltd., 23, Free School Street, Calcutta 16.

Scientific Glass Apparatus Mfg. Co., 11-2, Harinath Dey Road, Calcutta 9.

Scientific Instrument Co. Ltd., 11, Esplanade East, Calcutta 1.

Scientific Instrument Mfg. Co., 3, Sastitala Road, Calcutta 11.

Scindia Steam Navigation Co. Ltd., 33, Netaji Subhas Road, Calcutta 1.

Scott & Pickstock Pvt. Ltd., P.B. No. 461, 5, Fairlie Place, Calcutta 1.

Scotts Pvt. Ltd., Queen's Mansions, 13-A, Russell Street, Calcutta 16.

Scott & Saxby Pvt. Ltd., 4, Netaji Subhas Road, Calcutta 1.

Screen Corpn., Pvt. Ltd., 76-3, Cornwallis Street, Calcutta 6.

Scroggie Bros. (India) Ltd., 2, Clive Ghat Street, Calcutta 1.

S. C. Sarkar & Sons Pvt. Ltd., 1-C, College Square, Calcutta 12.

S. C. Sons Pvt. Ltd., 4, Clive Ghat Street, Calcutta 1.

S. D. Shevalia & Co. Pvt. Ltd., 8, Netaji Subhas Road, Calcutta 1.

Seal, A. C. & Co., 10, Gopal Chandra Lane, Calcutta 12.

Siemens Corporation of India, 71, Raja Naba Kissen Street, Calcutta 5.

Selvel Syndicate (Calcutta), 21, Park Palace, Park Circus, Calcutta 17.

Sen Brothers Pvt. Ltd., 3, Amratolla Lane, Calcutta 1.

Sen, C. K. & Co. Pvt. Ltd., Jabakusum House, 34, Chittaranjan Avenue, Calcutta 12.

Sen, Law & Co., 52 & 52-1, Wellesley Street, Calcutta 16.

Sen, N. B. & Bros., 11, Esplanade East, Calcutta 1.

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Sen & Pandit Pvt. Ltd., Mercantile Bldgs., Lall Bazar, Calcutta 1.

Sen Ray & Co. Ltd., 15, College Square, Calcutta 12.

Sen-Raleigh Industries of India Ltd., Mercantile Bldgs., Calcutta 1.

Sen & Sen Pvt. Ltd., 10-A, Ram Pal Lane, Calcutta 5.

Sen, S. R. & Bros., 88-A, Durga Charan Doctor Road, Calcutta 13.

Senola Musical Products Co., 11, Esplanade East, Calcutta 1.

Sepulchre Bros. India Pvt. Ltd., P-8, Mission Row Extn., Calcutta 1.

Serajuddin & Co., P-16, Bentinck Street, Calcutta.

Sett & Co., 9, Digambar Jain Temple Road, Calcutta 7.

Sett & Dass Co. Ltd., 78-79, Beadon Street, Calcutta 6.

Sett, H. L. & Sons Pvt. Ltd., 21, Jadu Pandit Road, P.O. Beadon Street, Calcutta 6.

S. F. A. Corpn. India Pvt. Ltd., P-22, Swallow Lane, Calcutta 1.

S. G. R. Industries Pvt. Ltd., 10, The Mall, Dum Dum, Calcutta 26.

Shah, P. B. & Co. Pvt. Ltd., 34, Netaji Subhas Road, Calcutta 1.

Shaha, Sankhanidhi L. M. & Pvt. Ltd., 32-E, Jackson Lane, Calcutta 1.

Shahani, M. G. & Co. (Cal.), Ltd., 3, Chittaranjan Avenue, Calcutta 13.

Shalimar Paint Colour & Varnish Co., Pvt. Ltd., 6, Lyons Range, Calcutta 1.

Shalimar Rope Works Ltd., 14, Netaji Subhas Road, Calcutta 1.

Shalimar Wood Products Pvt. Ltd., 138, Canning Street, Calcutta 1.

Shalimar Works Pvt. Ltd., 6, Lyons Range, Calcutta 1.

Sham Lall Laha & Co., 7, Lyons Range (Top floor), Calcutta 1.

Shankar Distillery & Chemical Works Ltd., 2, Doyahatta Street, Calcutta 7.

Shankar Industries, 192, Jamunalal Bajaj Street, Calcutta 7.

Sharma Sports Co., 15/L, Lindsay Street, Calcutta 16.

Shaw, B.K. & Co., P-20, Radha Bazar Street, Calcutta 1.

Shaw Bros. & Co., 201, Harrison Road, Calcutta 7.

Shaw Wallace & Co., Ltd., Wallace House, 4, Bankshall Street, Calcutta 1.

Sheffield Spring & Steel Co., Commercial House, 135, Canning Street, Calcutta 1.

Shellim, A. J. & Co., Pvt. Ltd., 135, Canning Street, Calcutta 1.

Shethia, S. D. & Co., Pvt. Ltd., F/2, Gillander House, Calcutta 1.

Shilpa-Peeth Ltd., 111-1, Gopal Lal Thakur Road, Alambazar, Calcutta 35.

Shimwell & Bro. (Calcutta) Pvt. Ltd., 1, India Exchange Place, Calcutta 1.

Ship Repairers Pvt. Ltd., P-9, Taratalla Road, Paharpur, Calcutta 24.

Shree Bhajrang Electric Steel Co., 83, Old China Bazar Street, Calcutta.

Shiwnarayan Ramnarayan & Co., 3, Burtolla Street, Calcutta 7.

Shree Hanuman Industrial Corpn., 8, India Exchange Place, Calcutta 1.

Shreekant Trading Co. Pvt. Ltd., 1-3, Brabourne Road, Calcutta 1.

Shri Niwas Co. Pvt. Ltd., 14, Noormal Lohia Lane, Calcutta 7.

Siemens Edison Swan Ltd., 5, Clive Row, Calcutta 1.

Sigma Engineering Co., 60, Dharamtala Street, Calcutta 13.

Signograph Co., Signograph Bldgs., 173-175, Kashinath Dutt Road, Barnagore, Calcutta 36.

Sikri & Co., Pvt. Ltd., 9, Ezra Street, P.B. No. 2287, Calcutta 1.

Silliman I.D.D.A. & Co., 22-B, Theatre Road, Calcutta 16.

Simon Carves Ltd., 32, Dalhousie Square South, Calcutta 1.

Simplex Concrete Piles (India) Pvt. Ltd., 103-3, Diamond Harbour Road, Calcutta 38.

Simpson & Ferris, 49-A, Free School Street, Calcutta 16.

Simpson & Munro (India) Ltd., 4, Lyons Range, Calcutta 1.

Simpson, P. D. & Co., Kent House, P-33, Mission Row Extension, Calcutta 13.

Sinclair & Co., 23, Netaji Subhas Road, Calcuta 1.

Sinclair, Murray & Co., Pvt. Ltd., 6, India Exchange Place, Calcutta.

Singapore Cane Mfg., Co., 137, Canning Street, Calcutta 1.

Singer Sewing Machine Co., 29, Waterloo Street, Calcutta 1.

Singh, B. M. & Son, 1, Crooked Lane, Calcutta 1.

Singh, S. P. & Co., 20, Netaji Subhas Road, Calcutta 1.

Sinha, M. L. & Co., Pvt. Ltd., 50, Ezra Street, P.B. No. 516, Calcutta 1.

Siraj, A. H. & Co., 86-B, Netaji Subhas Road, Calcutta 1.

Sirajuddin H. M. & Co., 2-3, Colootola Street, Calcutta 1.

Sircar, H. D. & Co., 15, Jugipara Lane, P.O. Beadon Street, Calcutta 6.

Sircar S. & Co., Ltd., 16, Bonfield Lane, Calcutta 1.

Sircar S. C. & Co., 125-B, Bowbazar Street, and 167-B, Bowbazar Street, Calcutta 12.

Sizing & Finishing Materials Co., 60-2, Dharamtalla Street, Calcutta 13.

S. K. Chakravarti Pvt. Ltd., 1/1B, Mission Row, Calcutta 1.

S. K. F. Ball-Bearing Co. Pvt. Ltd., 18, Netaji Subhas Road, Calcutta 1.

S. K. Mitra Pvt. Ltd., 6, Mission Row, Calcutta 1.

S. L. Dutt & Co. Pvt. Ltd., 42/1/2, Murari-pooker Road, Calcutta.

S. M. Ali Pvt. Ltd., 40, Chittaranjan Avenue, Calcutta 12.

Small Machineries Mfg. Co., 22, R. G. Kar Road, Shambazar, Calcutta 4.

Small Tools Mfg. Co., of India Ltd., 35/1A, Upendra Chandra Banerjee Road, Calcutta 11.

Smith B. H. & Co., Pvt. Ltd., 46, Dharamtalla Street, Calcutta 13.

Smith Stanistreet & Co., Ltd., 18, Convent Road, Calcutta 14.

Snow White Food Product Co., Ltd., 18, Netaji Subhas Road, Calcutta 1.

Solomon N. & Co., Pvt. Ltd., 29, Strand Road, Calcutta 1.

Somani Brothers Pvt. Ltd., 21A, Canning Stret, Calcutta 1.

Sone Valley Portland Cement Co., Ltd., 31, Chittaranjan Avenue, Calcutta 1.

Sooleman Dadabhoy Bros. Pvt. Ltd., 130, Lower Chitpur Road, Calcutta 1.

Soor, Neogi Coomar & Co. Pvt. Ltd., 39, College Street, Calcutta 12.

Soorajmull Nagarmull, 61, Harrison Road, Calcutta 1.

Spark Engineering & Trading Co., 32, Jackson Lane, Calcutta 1.

Spence Ltd., P-38, Mission Row Extention, Calcutta 1.

Spencer & Co., Ltd., 70, Diamond Harbour Road, Calcutta 23.

Squareman Commercial Corpn., 25, Swallow Lane, R. No. 4, Calcutta 1.

SHREE KRISHNA PRIVATE LTD., Post Box No. 2092, 20, Mangoe Lane, Calcutta 1.

Sri Ram Machinery Corpn. Pvt. Ltd., 18, Netaji Subhas Road, Calcutta 1.

Stadmed Pvt. Ltd., 84, Chowringhee Road, Calcutta 20.

Standard Chemical & Pharmaceutical Works, 1, Jaghar Lal Dutta Lane, Calcutta 4.

Standard Engineering Co., Ltd., 62, Bow Bazar Street, Calcutta 12.

Standard Literature Co., Pvt. Ltd., 13/1, Old Court House Street, Calcutta 1.

Standard Machinery Co., 67-B, Netaji Subhas Road, Calcutta 1.

Standard Metal Co., 101, Netaji Subhas Road, Calcutta 1.

STANDARD RADIO & WINDING HOUSE PRIVATE LTD., Brabourne Court, 1, Chandney Chowk Street, Calcutta 13.

Standard Sewing Thread Co., 3, Portuguese Church Street, Calcutta 1.

STANDARD STEELS (INDIA) PRIVATE LTD., P-7, Mission Row Extn., Calcutta 1.

Standard Stores & Agency Pvt. Ltd., 24, Chittaranjan Avenue, Calcutta 12.

Standard Vacuum Oil Co., 6, Church Lane, Calcutta 1.

Star Minerals Syndicate Pvt. Ltd., 33, Canning Street, Calcutta 1.

Star Paper Mills Ltd., 27, Brabourne Road, Calcutta 1.

Statesman Pvt. Ltd., Statesman House, 4, Chowringhee Square, Calcutta 1.

Steel Age Industries Pvt. Ltd., 71, Ganesh Chandra Avenue, Calcutta 13.

STEEL & ALLIED PRODUCTS LTD., 17, Brabourne Road, Calcutta 1.

Steel Brothers & Co., Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.

Steam & Mining Equipment India Ltd., 101, Park Street, Calcutta.

Steel Equipment & Construction Pvt. Ltd., 22, Grand Trunk Road, Lillooah, Howrah.

Steel Furniture & Construction Co., 49, Bowbazar Street, & 6, Brabourne Road, Calcutta.

Steel Products Ltd., 96, Garden Reach Road, Kidderpore, Calcutta 23.

Steel, R. & Co. Pvt. Ltd., 4, Netaji Subhas Road, Calcutta 1.

Steelex Private Ltd., 38, Netaji Subhas Road, Calcutta 1.

Steelverse & Co. (1960) Pvt. Ltd., 152, Acharya Prafulla Chandra Road, Calcutta 6.

Stephens & Co., Pvt. Ltd., 23, Chowringhee, Calcutta 13.

Sterling India Co. Pvt. Ltd., Calcutta 14.

Sterling Pharmaceutical Products Co., Ltd., 72-2, Shambhunath Pandit Street, Calcutta 25.

Stewar & Co., 14, India Exchange Place, Calcutta 1.

Stewarts & Lloyds of India Pvt. Ltd., 41, Chowringhee Road, Calcutta 16.

Stirling & Co., 2, Lall Bazar, Calcutta 1.

Stirling & Co., Victoria Court, 91-C, Elliot Road, Calcutta 16.

Stone J. & Co. (India) Pvt. Ltd., 5, Hide Road, Kidderpore, Calcutta 23.

Stores Supply & Mfg. Co., 8-B, Lall Bazar Street, Calcutta 1.

Straw Products Ltd., 2, Mangoe Lane, Calcutta 1.

Structural Waterproofing Co. Pvt. Ltd., 21-1, Dover Road, Calcutta 19.

Subid Ali & Bros., Subid Ali Bldg., 1, Madan Street, Calcutta 13.

Subol Chandra Dutt Properties Pvt. Ltd., Subol Dutt Bldgs., 13, Brabourne Road, Calcutta 1.

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Sudhir Chatterjee & Co. Pvt. Ltd., 10, Ganesh Chandra Avenue, Calcutta 13.

Sudhir Kumar Ghosh & Co., 91, Netaji Subhas Road, Calcutta 1.

Sudsons Pvt. Ltd., 3, Esplanade East, Calcutta 1.

Sulekha Works Ltd., 300, Bowbazar Street, Calcutta 12.

Super Crafts Pvt. Ltd., 163, Kasba Road, Calcutta 42.

Superintendence Co. of India Pvt. Ltd., 35, Ezra Street, Calcutta 1.

Sur B. & Co., 69, Dr. Suresh Sarkar Road, Entally, Calcutta 14.

Sur Enamel & Stamping Works Pvt. Ltd., 24, Middle Road, Calcutta 14.

Sur Industries Pvt. Ltd., 163, Lower Circular Road, Calcutta 14.

Sur Iron & Steel Co. Pvt. Ltd., 15, Convent Road, Calcutta 14.

Surensons Pvt. Ltd., 3/1, Raja Kali Kissen Lane, Calcutta 5.

Surisons & Co. Ltd., 72-73, Old China Bazar Street, Calcutta 1.

Surveyors & Salvagers Ltd., Temple Chambers, 6, Old Post Office Street, Calcutta 1.

Sutton & Sons Ltd., 13-D, Russel Street, Calcutta 16.

Swaika Export & Import Ltd., Pollock House, 18-B, Brabourne Road, Calcutta 1.

Swaika Vanaspati Products Ltd., Pollock House, 18-B, Brabourne Road, Calcutta 1.

Swasti & Co., 5-A, Clive Ghat Street, Calcutta 1.

Swatantra Bharat Trading Co. Ltd., 208, Jamnalal Bajaj Street, Calcutta 7.

Symonds & Co., 18, Netaji Subhas Road, Calcutta.

Synthetic Moulders Ltd., 53, Netaji Subhas Road, 2nd Floor, Calcutta 1.

Talbot & Co., Tower House, Chowringhee Sqr., Calcutta 1.

TALUKDAR LAW & CO., PRIVATE LTD., Hindusthan Buildings, 4, Chittaranjan Avenue, Calcutta 13.

Talukdar S. & Co. Ltd., 5, Commercial Bldgs., 23, Netaji Subhas Road, Calcutta 1.

Tandan Bros., 3, Sukhlal Jahuri Lane, Calcutta 7.

Tantia Bros. Pvt. Ltd., Norton Bldg., Old Court House Corner, Calcutta 1.

Taparia & Co., 137, Canning Street, Calcutta 1.

Tarachand Gupta & Co., 24, Burtolla Street, Calcutta 7.

Targett & Co. Ltd., W.H., 5, Mission Row, Calcutta 1.

Tata Chemicals Ltd., Mercantile Bldgs., 10, Lall Bazar, Calcutta.

Tata Iron & Steel Co. Ltd., 23-B, Netaji Subhas Road, Calcutta 1.

Tatanagar Foundry Co. Ltd., 51, Stephen House, 4, Dalhousie Square, Calcutta 1.

Tatanagar Transport Corporation, 147, Mahatma Gandhi Road, Calcutta 7.

T. D. Kumar Brothers Pvt. Ltd., 20/1, Maharshi Debendra Road, Calcutta 7.

Tecalemit (India) Ltd., 31, Chittaranjan Avenue, Calcutta 12.

Technical (India) Pvt. Ltd., 62-1, Joy Narain Babu & Ananda Dutta Lane, Howrah.

Technico Enterprises Pvt. Ltd., P-22, Swallow Lane, Calcutta 1.

Textile Machinery Corpn. Ltd., 8, India Exchange Place, Calcutta 1.

Textile Waste Co., 113-G, Netaji Subhas Road, Calcutta 7.

Textiles Supply Co., 45, Stephen House, Dalhousie Square, Calcutta 1.

Thacker Spink & Co. (1938) Pvt. Ltd., 3, Esplanade East, Calcutta.

Thacker's Press & Directories Ltd., 6-B, Bentinck Street, Calcutta 1.

Thapar Financial Corporation, 29-A, Chandra Nath Chatterjee Street, Calcutta 25.

Thermolites Products Pvt. Ltd., 58-4, Barrackpur Trunk Road, Calcutta 2.

Thomas Duff & Co. (India) Pvt. Ltd., 2 & 3, Clive Row, Calcutta 1.

Thomas J. & Co., Pvt. Ltd., 8, Mission Row, Calcutta 1.

Thompson J. Walter & Co. Pvt. Ltd., 5, Bankshall Street, Calcutta 1.

Thomson T. E. & Co. Ltd., 9-A, Esplanade East, Calcutta 1.

Tideman & Co. (India) Pvt. Ltd., P-15, Bentinck Street, Calcutta.

Tide Water Oil Co. (India) Ltd., 8, Clive Row, Calcutta 1.

Times of India, 13/1, 13/2, Govt. Place East, Calcutta.

Tims Products Ltd., India Exchange Bldg., Calcutta 1.

Tincowry Ghosh & Co., 52-B, Hazra Road, Calcutta 19.

T. I. of India Ltd., 5 & 7, Netaji Subhas Road, Calcutta 1.

Tin Plate Co. of India Ltd., 4-5, Bankshall Street, Calcutta.

Titaghur Paper Mills Ltd., Chartered Bank Bldgs., Calcutta 1.

Torrington Needle Agency, 21-A, Gaur Laha Street, P.O. Beadson Street, Calcutta 6.

Tractors (India) Ltd., 1, Taratolla Road, Garden Reach, Calcutta 27.

Trade Land (India) Ltd., 22, Strand Road, Calcutta 1.

Traders Cartel Pvt. Ltd., 285-H, Bowbazar Street, Calcutta 12.

Traders' International Mercantile Agency Pvt. Ltd., 1-A, Russel Street, Calcutta 16.

Tribeni Tissues Pvt. Ltd., 37, Chowringhee, Calcutta 16.

True Ink Mfg. Co., 79, Wellesley Street, Calcutta 13.

Tungabhadra Industries Ltd., 8, India Exchange Place, Calcutta.

Turner Hoare & Co. Pvt. Ltd., 27, Brabourne Road, Calcutta.

Turner Morrison & Co. Pvt. Ltd., 6, Lyons Range, Calcutta 1.

Twentieth Century-Fox Corpn. (India) Pvt. Ltd., 19, Chowringhee Road, Calcutta 13.

Uberoi Ltd., 22-1, Chowringhee Road, Calcutta 13.

Uday Scientific Industries Pvt. Ltd., 5, Bhabhanath Sen Street, Calcutta 4.

Umakant & Co. Pvt. Ltd., 4, Mullick Street, Calcutta 7.

Union Carbide Pvt. Ltd., 1 & 3, Brabourne Road, Calcutta 1.

Union Metal Industries Ltd., 2, Clive Ghat Street, Calcutta 1.

Unique Cardboard Box Mfg. Co. Pvt. Ltd., 12, Grey Street, Calcutta 5.

United Commercial and Industrial Co. Pvt. Ltd., 20, Mangoe Lane, Calcutta 1.

United Commercial Trading Corpn. Ltd., 138, Canning Street, Calcutta 1.

United Electric & Engineering Co., 21, Ezra Mansions, Govt. Place, East, Calcutta 1.

UNITED ENGINEERING (EASTERN) CORPORATION, 22, Canning Street, P.O. Box 2112, Calcutta 1; Phone: 22-2426; *Workshop*: No. 10, Convent Road, Calcutta-14; Phone: 24-3752: One of the Leading Manufacturers and Exporters of Oil Mill Machinery and Spare parts.

United Flash Light Industries Pvt. Ltd., 14-2, Old China Bazar Street, Calcutta 1.

United Liner Agencies of India Pvt. Ltd., 17, Brabourne Road, Calcutta 1.

United Machine Co. Ltd., 2, Dalhousie Square East, Calcutta 1.

United Provinces Commercial Corporation, 6, Ganesh Chandra Avenue, Calcutta 13.

United Steel Companies (India) Pvt. Ltd., P-13, Mission Row Extension, Calcutta 1.

United Supply Agency Pvt. Ltd., 38, Strand Road, Calcutta 1.

United Trading Co., 172, Mahatma Gandhi Road, Calcutta 7.

Universal Drug House Ltd., 10, Bonfield Row, Calcutta 27.

Universal Importers Co., 32-E, Jackson Lane, Calcutta 1.

Universal Industrial & Mercantile Corpn., 13, Gope Lane, Calcutta 14.

Universal Railway Material Supply Co., 4, Commercial Bldgs., Netaji Subhas Road, Calcutta 1.

Universal Refrigeration Corpn. Ltd., 47, Southern Avenue, Calcutta 29.

Universal Safe & Tank Mfg. Co., 100, Harrison Road, Calcutta 7.

Universal Trading Co., 33, Canning Street, Calcutta 1.

Universal Trading Corporation, 20, Strand Road, Calcutta 1.

Varat Pump & Machinery Pvt. Ltd., 20, Netaji Subhas Road, Calcutta 1.

Vasanjee Topun Madhowjee & Co., 5-1, Portuguese Church Street, Calcutta 1.

Vasant Corporation Pvt. Ltd., 28, Amratolla Street, Calcutta 1.

V. D. Swami & Co. Pvt. Ltd., 2, Mangoe Lane, Calcutta 1.

Vensimal Bassarmal & Brothers, 9, Pagrapatty Burra Bazar, Calcutta, 7.

Victor R. D. & Co., 10, Jackson Lane, Calcutta 1.

Victory Trading Co., 172, Mahatma Gandhi Road, Calcutta 7.

Vidyodaya Library Pvt. Ltd., 72, Mahatma Gandhi Road, Calcutta 9.

Virchand Panachand & Co. (Calcutta) Pvt. Ltd., 87, Canning Street, Calcutta.

Vishnu Agencies Pvt. Ltd., Bharat Bhawan, 3, Chittaranjan Avenue, Calcutta.

Vishwa Bharati Trading Co., Post Box 2628, Calcutta.

VISHWAKARMA CONSTRUCTIONS (PRIVATE) LTD., 31, Chittaranjan Avenue, Calcutta 12.

Volkart Brothers, 8, Netaji Subhas Road, Calcutta 1.

Voltas Ltd., 8, Netaji Subhas Road, Calcutta 1. Head Office: Bombay 1; Branches and offices throughout the country; Departments: Agricultural Machinery, Construction Equipment, Air Conditioning and Refrigeration, Electrical, Mechanical, Textile Machinery and Paper Machinery, Machine Tool, Pharmaceutical, Chemicals, Vitamins, Canned and Bottled Food Products and Accessories.

Vulcan Electric & Engineering Co., 12-B, Lower Chitpur Road, Calcutta 1.

Vulcan Machine Tool Co., 218, Manicktala Main Road, Calcutta 11.

Vulcan Trading Co. Pvt. Ltd., 19, British Indian Street, Calcutta 1.

Wakefield C. C. & Co. Ltd., Allahabad Bank Bldgs., 14, India Exchange Place, Calcutta 1.

Waldie D. & Co. Ltd., Gillander House, Netaji Subhas Road, Calcutta 1.

Walford Transport Ltd., 71, Park Street, Calcutta 16.

Walker W. J. & Co., 6, Commercial Bldgs., Calcutta 1.

Walter Bennet & Co., 21-C, Gokul Mitra Lane, Calcutta 5.

Walter Bushnell Ltd., Grosvenor House, 21, Old Court House Street, Calcutta 1.

Walters M. & Co., 17, Chowringhee, Calcutta 13.

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Walworth International Co., 14-2, Clive Row, Calcutta 1.
Water Supply Specialists Pvt. Ltd., Gujrat Mansions, Mission Row Extn., Calcutta 1.
Waxpool Industries Ltd., Mitra House, 71, Ganesh Chandra Avenue, Calcutta 13.
Wearwell & Co., 1, New Market, Calcutta 13.
Weaver & Co., 20, Strand Road, Calcutta 1.
Weddel India Pvt. Ltd., 103, Park Street, Calcutta 16.
WEIGHTS & MEASURES SYNDICATE, 76/2, Ichapur Road, Howrah.
Wesman Engineering Co. Pvt. Ltd., 71, Ganesh Chandra Avenue, Calcutta 13.
West Bengal Safe Deposit Vault Ltd., 5, Clive Row, Calcutta 1.
West End Trading Co. Pvt. Ltd., 91, Netaji Subhas Road, Calcutta 1.
Western Bengal Co. Ltd., 8, Dalhousie Square East, Calcutta 1.
Western Brush Co., 18, Amherst Street, Calcutta 9.
Western India Arc Welding Co. Pvt. Ltd., 3, Esplanade East, Calcutta.
Western India Match Co. Ltd., Wellesley House, 7, Wellesley Place, Calcutta 1.
Western India Theatres Ltd., 136, S. N. Banerjee Road, Calcutta 13.
Western Oxy-Acetylene & Electric Welding Co., 233-4, Lower Circular Road, Calcutta 20.
Western Tools & Hardware Co., 89, Netaji Subhas Road, Calcutta 1.
W. H. Harton & Co. Ltd., 8, Dalhousie Square East, Calcutta 1.
Wharton H. W. & Co. Pvt. Ltd., 17, Brabourne Road, Calcutta 1.
Wheeler A. H. & Co., Pvt. Ltd., 18, Netaji Subhas Road, Calcutta 1.
Wiggins Teape & Alex Pirie (Export) Ltd., 18-A, Brabourne Road, Calcutta 1.
William Jacks & Co. Ltd., 16, Netaji Subhas Road, Calcutta 1.
Williams H. V. & Co., 29, Waterloo Street, Calcutta 1.
Williamson Magor & Co. Ltd., 4, Mangoe Lane, Calcutta 1.
Williamsons India Pvt. Ltd., 8, Netaji Subhas Road, Calcutta 1.
Wing Hing & Co. Pvt. Ltd., 18, Chandney Chowk Street, Calcutta 13.
Wire Machinery Manufacturing Corpn., 1/A, Vansittart Row, Calcutta 1.
W. Newman & Co. Ltd., 3, Old Court House Street, Calcutta.
Wolverhampton Iron & Steel Co., 137, Canning Street, Calcutta 1.
Wood Craft Products Ltd., 8, India Exchange Place, Calcutta 1.
Woodcrafts (Assam) Ltd., India Exchange, Calcutta 1.
Worah K. & Co. Ltd., 135, Canning Street, Calcutta 1.
Wren D. & Co., Warley House, 25, Swallow Lane, Calcutta 1.
Wright T. S. & Co. (India) Pvt. Ltd., P-5, Canning Street, Calcutta 1.
Young & Co., 44, Chittaranjan Avenue South, Calcutta 12.
Young Graduate & Co., 126-C, Dharamtala Street, Calcutta 13.
Ziffo & Co., 5, Garstin Place, Hare Street, Calcutta 1.

CLASSIFIED LIST OF TRADES AND PROFESSIONS

ABRASIVES MANUFACTURERS

Diamond & Co., Ltd.—20, Netaji Subhas Road, Calcutta.
Krishnalal Thirani & Co., Ltd.—8, India Exchange Place, Calcutta.

ACCOUNTING & STATISTICAL MACHINES

Adding Machines (India) Pvt. Ltd.—29, Ezra Mansions, 10, Govt. Place East, Calcutta 1.
Burroughs Adding Machine Co.—Suite No. 29, Ezra Mansions, 10, Govt. Place East, Calcutta 1.
Ciciko Office Machines Pvt. Ltd.—300, Bow Bazar Street, Calcutta.
Hollerith (India) Pvt. Ltd.—17, Chittaranjan Avenue, Calcutta 13.
IBM World Trade Corpn.—Mackinnon Mackenzie Building, 16, Strand Road, Calcutta 1.
National Cash Register Co.—4D, Dalhousie Sqr. East and 5, Park Street, Calcutta.

ACID MANUFACTURERS

Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta.
Howrah Chemical Works.—148, Mahatma Gandhi Road, Calcutta 7.
Mitra, A. K. & Co.—34, Muraripukur Road, Calcutta 4.
Pioneer Industrial Syndicate.—67, Ezra Street, Calcutta 1.

ADDING & ADDRESSING MACHINES AND CALCULATORS

Adding Machines (India) Pvt. Ltd.—29, Ezra Mansions, 10, Govt. Place East, Calcutta 1.
Addrema Ltd.—20B, Park Street, Calcutta 16.
Blackwoods India Ltd.—2, Mangoe Lane, Calcutta.
Burroughs Adding Machine Co.—29, Ezra Mansions, 10, Govt. Place East, Calcutta 1.
P. N. Ganesan & Sons.—P-35, Royal Exchange Place Extn., Calcutta 1.
Kilburn & Co. P. Ltd.—2, Fairlie Place, Calcutta 1.
Mullick & Co.H. Ltd.—65, Ganesh Ch. Avenue, Calcutta.
National Cash Register Co.—4-D, D. Square East, Calcutta.

ADVERTISING & PUBLICITY AGENTS & CONSULTANTS

Advertising & Sales Promotion Co.—P-35, India Exchange Place, Calcutta.
Alpha Advertising Service.—Marble House, 5/2 Garstin Place, Calcutta.
Associated Advertisers & Printers Ltd.—B-6, Bharat Bhavan, 3, Chittaranjan Avenue, Calcutta 13.
BHATTACHARYA PUBLICITY.—64, Colootola Street, Calcutta 1.
Broadway Publicity of India.—185-1-B, Bowbazar St., Calcutta 12.
Central Publicity Service.—161/1, Mahatma Gandhi Road, Calcutta 7.
Clarion Advertising Service Pvt. Ltd.—5, Council House Street, Calcutta.
Electrically Lighted Advtg. Pillars P. Ltd.—12-1, Kyd St., Calcutta 16.
Everest Advertising P. Ltd.—24, Park Street, Calcutta 16.
Ghose & Co.—219, Cornwallis Street, Calcutta 6.
Ideal Advertising Agency.—54, College Street, Calcutta 12.
Indian Publicity Bureau Pvt. Ltd.—6/2, Madan Street, Calcutta 13.
Kalpana Advertising & Public Relations.—"Commercial House", 135, Canning Street, Calcutta.
K. Shaw Sign & Neon Service Pvt. Ltd.—128/45, Cornwallis Street, Calcutta 4.
New India Publicity.—2-B, Scott Lane, Calcutta 9.
ORIENT PUBLICITY SERVICE.—Commercial Buildings, Block No. 2, Netaji Subhas Road, Calcutta 1. Phones: 22-4437 & 46-5413.
Phoenix Advertising Pvt. Ltd.—1-A, Vansittart Row, Calcutta 1.
Press & Publicity Syndicate Pvt. Ltd.—53, Radha Bazar Lane, Calcutta.
Press Syndicate Ltd.—10, Govt. Place East, Calcutta.
Progressive Publicity Service.—14, Bentinck Street, Calcutta.
Publicity Forum.—P-6, Mission Row Extension, Calcutta.
Publicity Society of India Ltd.—1, Waterloo Street, Calcutta 1.
Publishers & Publicity Ltd.—17, Mangoe Lane, Calcutta 1.
Radiant Display.—29, Waterloo Street, Calcutta 1.
Selvel Syndicate (Calcutta).—83, Theatre Road, Calcutta 17.

AERATED WATER

Bathgate & Co.—17, 18, 19, Old Court House Street, Calcutta.
Byron & Co.—Factory, 5, Chowringhee Place, Calcutta. (2) 39, Dharamtolla Street, Calcutta.
Calcutta Cold Storage Ltd.—D/1, Hide Road, Kidderpore, Howrah.
Campbells Minerals Co. Ltd.—6-1, Sudder Street, Calcutta 16.
Carlsbad Mineral Water Mfg. Co. P. Ltd.—14, Watkins Lane, Howrah.
City Ice Co.—23, Canal West Road, Ultadanga P.O., 24 Parganas Dt.
Club Mineral Water Co.—14, Watkins Road, Howrah.
Cotton & Co.—18, British Indian Street, Calcutta 1.
Crystal Ice Co.—50, Tangra Road, Entally, Calcutta 15.
Hind Ice & Cold Storage Ltd.—23 and 24/1, Canal West Road, Ultadanga P.O., Calcutta 4.
Hindustan Gas Co. Ltd.—22, New Tingra Road, Calcutta.
Hindustan Ice & Cold Storage Co., Ltd.—3, Gas Street, Amherst Street, Calcutta.
India Ice Aerated Water & Cold Storage.—138, Belliaghatta Road, Tangra P.O., 24 Parganas Dist.
India Ice, Aerated Water & Cold Storge Co., Ltd.—20-21, Stephen House, Dalhousie Sq., Calcutta.
Jesorya Rice Mill & Ice Factory.—Sakari, Pukur, Burdwan.
Pure Drinks (New Delhi) Ltd.—209, Karnani Estate, Lower Circular Road, Calcutta.
Rose & Thistle.—16, Sandel Street, Calcutta 16.
SPENCER AERATED WATER FACTORY PRIVATE LTD.—87, Dr. Suresh Sarkar Road, Entally P.O., Calcutta 14.

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AERATED WATER MACHINERY MFRS.

ESSENCE & BOTTLE SUPPLY (INDIA) PRIVATE LTD.—Manufacturers of Aerated Water Machines of all capacities, 14, Radha Bazar Street, Post Box 372, Calcutta 1. Phone: 22-7094. Grams: "ISACCHARIN."

AGENTS & GENERAL MERCHANTS

NETTLEFOLDS OF INDIA LIMITED.—P. 35, India Exchange Place Extension, Calcutta 1; Phone: 22-3361. Grams: "SCREW-GAUGE", Calcutta.

AGRICULTURAL MACHINERY AND IMPLEMENTS MANUFACTURERS & DEALERS

Anand Metal & Steel Works.—137, Canning Street, Calcutta 1.
Associated Aesby Industries Ltd.—22, Strand Road, Calcutta.
Associated Exports Imports Corpn.—8B, Lall Bazar St., Calcutta 1.
Bengal Iron & Steel Works.—8, Canning Street, Calcutta.
Bengal Iron Works P. Ltd.—16-2, Chatterjee Lane, Howrah.
Cosmopolite Engineering Works Ltd.—21, Mahendra Goswami Lane, Calcutta.
Dass, K. C. & Sons.—74-3, Harish Chatterjee St., Calcutta 25.
D. C. De & Sons.—150, Narasingha Dutta Road, Howrah.
East India Engg. & Agency Co.—63-1, Benara, Road, Howrah.
Ganges Galvanising Works (I) Pvt. Ltd.—14 & 14-1, Kissen Dayal Jalan Road, Salkia.
Gobindo Sheet Metal Works & Foundry.—210, Harrison Road, Calcutta 7.
Gopal & Kumar.—14, Netaji Subhas Road, Calcutta 1.
Great Eastern Cutlery Works.—20, Strand Road, Calcutta.
Great Eastern War Works.—165-B, Vivekananda Road, Calcutta 6.
Guchait, S. P. & Sons Ltd.—2, Madhusudan Paul Chowdhury Lane, Howrah.
Hind Enterprises.—4, Mission Row, Calcutta 1.
Hindustan Engineering Works.—35, Beadon Row, Calcutta 6.
Howrah Foundry Works Pvt. Ltd.—53-3, Ashu Bose Lane, off Belilios Road, Howrah.
Howrah Iron & Steel Works Pvt. Ltd.—90, Benaras Road, Salkia.
J. N. Puri.—206, Belilios Road, Howrah.
K. C. Dass.—32, Natabar Paul Road, Howrah.
Luxmi Engg. Co. Pvt. Ltd.—123, Narasingha Dutt Road, Howrah.
Marshall Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road, Calcutta 1.
Maya Galvanizing Works.—9, Upper Chitpur Road, Calcutta 7.
Metal Craft (India) Ltd.—96, Garden Reach Road, Calcutta 23.
Parveen & Co.—138, Canning Street, Calcutta.
Roger Engineering Works.—10, Clive Row, Calcutta 1.

TRACTORS (INDIA) LTD.—1, Tarafolla Road, Garden Reach, Calcutta 24.

United Provinces Commercial Corporation, The.—6, Ganesh Chandra Avenue, Calcutta 13.
Voltas Limited.—8, Netaji Subhas Road, Calcutta.
William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

AIR CONDITIONING & REFRIGERATION PLANTS

Air Conditioning Corpn. Pvt. Ltd.—Gillander House, Calcutta.
Air Equipment Works.—44/12, Barrackpore Trunk Road, Calcutta 36.
Alliance Trading Co.—15-A, Clive Row, Calcutta.
American Airconditioning Equipment Co.—40A, Free School Street, Calcutta.
American Refrigerator Co.—12/D, Park Street, Calcutta.
Arya Refrigeration & Air Conditioning Co.—36, J.K. Paul Road, Calcutta 36.
Asea Electric (I) Pvt. Ltd.—4, Lyons Range, Calcutta 1.
Calcutta Refrigerators Corpn.—4, Harington Street, Calcutta 16.
Century Components Co.—44/A, Wellesley Street, Opp. Lucas, Calcutta 16.
Century Refrigeration Co.—A/2-C, Kyd Street, Calcutta 16.
Chen's Carpentry Works Pvt. Ltd.—14, Black Burn Lane, Calcutta 12.
Corporated Engineers (India) Ltd.—2/1, Chetla Road, Tollygunge, Calcutta.
Cumberland & Martin Pvt. Ltd.—1A, Elgin Road, Calcutta 20.
Eastern Electric & Trading Co.—31, Chowringhee Road, Calcutta.
Gramophone Co. Ltd.—33, Jessore Road, Dum Dum Cantt., 24, Parganas Dist.
International Refrigerators Ltd.—87, Lower Circular Road, Calcutta 16.
National Refrigerators Pvt. Ltd.—30-A, Chowringhee, Calcutta 16.
New India Mercantile Co. Pvt. Ltd.—8, India Exchange Place, Calcutta 1.
R. L. Dolui & Sons.—10, Clive Row, Calcutta 1.
Refrige Private Ltd.—58C, Chowringhee Road, Calcutta 16.
Refrigeration Accessories Pvt. Ltd.—60, Dharamtalla Street, Calcutta 1.
Refrigerators (I) Pvt. Ltd.—59C, Park Street, Calcutta 16.
Sur Industries Pvt. Ltd.—163, Lower Circular Road, Calcutta 14.
Voltas Ltd.—8, Netaji Subhas Road, Calcutta.

ALLOY & TOOL STEELS

AMALGAMATED UNIVERSAL AGENCIES (CALCUTTA).—2nd Floor, Block C-211, 71, Canning Street, Calcutta 1.

ALUMINIUM MANUFACTURERS

A. G. Bros. & Co.—2, Neogipara Road, Calcutta 36.
Aluminium Corporation of India Ltd.—7, Council House Street, Calcutta 1.
Aluminium Hindustan P. Ltd.—2, Jessore Road, Calcutta 28.
Aluminium Manufacturing Co. Pvt. Ltd.—2, Jessore Road, Dum Dum, Calcutta.
Ashok Company.—157, Netaji Subhas Road, Calcutta 1.
Ashok Metal Industries Ltd.—157, Netaji Subhas Road, Calcutta 1.
Chandra Industries P. Ltd.—59, Cotton Street, Calcutta 7.
Crown Aluminium Works.—P.C. Belurmath, Dist. Howrah.
Indian Aluminium Co. Ltd.—31, Chowringhee, Calcutta 16.

INDIA ALUMINIUM PRODUCTS.—P-11, Howrah Bridge Approach Road, Calcutta 1. Specialists in all kinds of castings including pressure die casting and everything in aluminium.

Jeewanlal (1929) Ltd.—31, Netaji Subhas Road, Calcutta.
J. Nagardas & Co.—55, Canning Street, Calcutta.
Luxmi Metal Works.—40/A, Armenian St., Calcutta.

PROGRESSIVE ALUMINIUM TRADING ORGANISATION.—10, The Mall (Road), Dum Dum, Calcutta 28. Manufacturers of Beam Flanges, Bobbin Base Carriers for textile and jute mills; Specialists in pressure die casting.

ARC WELDING EQUIPMENT & ELECTRODES

GUEST, KEEN, WILLIAMS, LTD., Head Office: 41, Chowringhee Road, Calcutta 16; Works: Andule Road, Howrah.

AROMATIC TRADERS

Anand & Co.—34-A, Brabourne Road, Calcutta.
B. C. Patel & Co.—44/45, Ezra Street, Calcutta.
Bipradas Dutt.—7, Swallow Lane, Calcutta.
Calcutta Essence Supply Co.—44/45, Ezra Street, Calcutta.
Dass & Sons.—18/1, Ezra Street, Calcutta.

D. JAYANTILAL & CO.—8/2, Rupchand Rai Street, Calcutta. Dealers of Aromatic Chemicals, Natural and Synthetic Essential Oils, Perfumery Compounds, Essences, Harmless Food Colours, Saccharine, Liq. Glucose, Bakery and Peppermint Factories' requirements and general order suppliers.

Drug & Perfumery House.—4, Colootola Street, Calcutta.
F. N. Sirkar.—37, Canning Street, Calcutta.
Ghose Bros. (Perfumers).—50, Ezra Street, Calcutta.
Hind Perfumers Pvt. Ltd.—54, Ezra Street, Calcutta.
Hindustan Chemical & Industrial Corpn.—22, Brabourne Road, Calcutta.
Hindusthan Perfumers.—18, Ezra Street, Calcutta.
Kaisers Trading Co.—159, Lower Chitpur Road, Calcutta.
Kamal Mercantile Corpn.—1, Mangoe Lane, Calcutta.
K. H. Dhamdhere.—44/45, Ezra Street, Calcutta.
Khater Chemical Co.—5, Lucas Lane, Calcutta.
Lakshmi Bottle Stores.—17 Ezra Street, Calcutta.
M. J. Patel.—84, Dharamtolla Street, Block C.R. 19, Calcutta.
Makhulal Ayodhya Prasad.—4-B, Machua Bazar Street, Calcutta.
Moolraj & Co.—33, Brabourne Road, Calcutta
National Perfumery House.—45/46, Ezra Street, Calcutta.
Neshat Perfumery House.—21, Parsi Church Street, Calcutta.
Oswal Co.—14/2, Old China Bazar Street, Calcutta.

O. T. KADER BASHA SAHIB.—17, Ezra Street, Calcutta. Dealers of Aromatic Chemicals, Essential Oils, Essences, Perfume Compounds, Resinoids, Indian Attars, Saffron, Food Colours, Oil Colours, Empty Glass Bottles, Phials, Corks, Labels, Wrapping Papers.

Paradise Perfumery House.—6/2, Colootola Street, Calcutta 1.
Paul & Son.—18, Ezra Street, Calcutta.
Plummer Bros. & Co.—5 & 6, Fancy Lane, Calcutta.
Pt. Debi Pershad Prayag Dutt.—89, Lower Chitpur Road, Calcutta.
S. D. Bose.—63, Radha Bazar Street, Calcutta.
Sikri & Sons Pvt. Ltd.—55/8, Canning Street, Calcutta.
Sikri & Grover.—Sikri House, Ezra Street, Calcutta.
Shroff Perfumery Co.—47, Ezra Street, Calcutta.
S. Khushalchand & Co.—167, Old China Bazar Street, Calcutta.
S. N. Jhunjhunwalla.—Sikri House, Ezra Street, Calcutta.
Sohanlal Mohanlal.—5, Lucas Lane, Calcutta.
Synoflor Co. (Cal.).—21, Parsi Church Street, Calcutta.
United Trade Agency (Cal.).—39, Armenian Street, Calcutta.

AUCTIONEERS

DHARAM PAL CHADHA & SONS.—H.O. 3, Madan Street, Calcutta 13; Phone: 23-5318; Branch Office: F. 20, Shankar Market, Connaught Circus, New Delhi; Phone: 47200.

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AUTOMOBILES & AUTOMOBILE PARTS & ACCESSORIES DEALERS

A. K. Sinha.—15, Kent House, P-33, Mission Row Extn., Calcutta 13.
A. R. Mukherji & Co.—P-74, Bentinck Street, Calcutta 1.
Associated Accessories P. Ltd.—20, Mangoe Lane, Calcutta 1.
Associated Indian Enterprises Pvt. Ltd.—206, Lower Circular Road, Calcutta 17.
Austin Distributors Pvt. Ltd.—19, Chowringhee Road, Calcutta 13.
Auto Distributors Pvt. Ltd.—36, Chowringhee Rood, Calcutta.
Auto Friends P. Ltd.—P-74, Bentinck Street, Calcutta 1.
Bagla Motors.—7, Old P.O. Street, Calcutta 1.

BHARAT COMMERCIAL ENTERPRISES.—26, Chittaranjan Avenue, Calcutta 12. Phone : 23-3571.

Central Motor Parts & Accessories Co. Pvt. Ltd.—20, Mangoe Lane, Calcutta 1.
Calcutta Motor Works.—54, Bentinck Street, Calcutta 1.
Carbrush Engineering Co.—190, Maharshi Debendra Road, Calcutta 6.
Dewar's Garage (I) P. Ltd.—4, Council House Street, Calcutta 1.

DOMINION DISTRIBUTORS PRIVATE LTD.—7, British Indian Street, Calcutta 1. A Premier House of Quality Auto Rubber Accessories.

Dunlop Rubber Co. (India) Ltd.—57-B, Free School Street, Calcutta.
French Motor Car Co. Ltd.—234/3, Lower Circular Road, Calcutta 20.
G. M. C. Brothers & Co.—72, Meredith Street, Calcutta.
G. McKenzie & Co. (1919) Pvt. Ltd.—24-B, Park Street, Calcutta 16.
Goodyear Tyre & Rubber Co. Ltd.—60, Chowringhee Road, Calcutta.
Hindustan Auto Distributors.—62, Hazra Road, Calcutta 19.
Hindustan Motors Ltd.—8, India Exchange Place, Calcutta.
Howrah Motor Accessories Agency Ltd.—3-1, Mangoe Lane, Calcutta 1.
Ideal Engineering Works.—10, British Indian Street, Calcutta 1.

INDIA AUTOMOBILES.—12, Government Place East, Calcutta.

International Tyres and Motors P. Ltd.—2, Rowland Road, Calcutta 20.
Jaidka Motor Co. Ltd.—129, Park Street, Calcutta 16.
Jyoti Motor Stores.—P-38, Mission Row Extension, Calcutta 1.
Kaybee & Co.—13, Brabourne Road, Calcutta 1.
K. G. Industries & Motor Parts Co.—6/1-A, British Indian Street, Calcutta 1.
Lucas Indian Service Ltd.—46, Wellesley Street, Calcutta 16.
Motor Fuel Stores P. Ltd.—17, Beadon Street, Calcutta 6.
New Indo Trading Co.—3, Mangoe Lane, Calcutta 1.
Oriental Motor Accessories Agency Ltd.—30, Chittaranjan Avenue, Calcutta 12.
Pioneer Motors of India Ltd.—5-A, Clive Ghat Street, Calcutta 1.

PODDAR AUTOMOBILES.—36, Chowringhee Road, Calcutta 16.

Princep Motors.—13-B, Chittaranjan Avenue, Calcutta 13.
R. B. S. Rubber Mills Ltd.—3, Bentinck Street, Calcutta 1.
Sawalka Metal Products.—90, Muktaram Babu Street, Calcutta 7.

SEN'S AUTOMOBILES PRIVATE LTD.—2, Panditia Road, Calcutta 29. Buyers and Sellers of used cars.

United Automobiles P. Ltd.—20, Mangoe Lane, Calcutta 1.
Walford Transport Ltd.—71, Park Street, Calcutta.

BALL & ROLLER BEARINGS

The Ballmann Trading Co.—138, Canning Street, Calcutta 1.
Central Trading Co.—137, Canning Street, Calcutta 1.
Eastern Importers Syndicate.—10, Canning Street, Calcutta.
Hindustan Ball Bearing Corporation.—137, Canning Street, Calcutta 1.
Indian Stores Supplying Co.—137, Canning Street, Calcutta 1.
J. R. Co.—Khemka House, 4, Bhawani Dutt Lane, Calcutta 7.
Mohammed, A. & Co.—26, Netaji Subhas Road, Calcutta.
Nundlall Inderchand Pvt. Ltd.—10, Canning Street, Calcutta.
Parveen & Co.—138, Canning Street, Calcutta 1.
S. D. Sharma & Co.—20, Netaji Subhas Road, Calcutta 1.
SKF Ball Bearing Co. Pvt. Ltd.—18, Netaji Subhas Road, Calcutta 1.
Taparia & Co.—137, Canning Street, Calcutta 1.

UNITED STEEL & BEARING CO.—Importers & Stockists of Ball, Roller & Thurst Bearings, 5-B, Clive Ghat Street, Calcutta 1. Grams : "DAMASCEND."

William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.
Wren, D. & Co.—Wardley House, 25, Swallow Lane, Calcutta.

BATTERY CHARGERS

ELVOC PRIVATE LTD.—36, Panditia Road, Calcutta 29.

BATTERY MANUFACTURERS

Associated Battery Makers (Eastern) Pvt. Ltd.—59-C, Chowringhee Road, Calcutta 20.
Associated Motor & Electrical Works.—37-1, Dr. Abani Dutt Road, Howrah.
Bharat Battery Mfg. Co. (Pvt.) Ltd.—P-1A, Rash Behari Avenue, Calcutta 19.
Caesar Engineering & Accumulator Co.—6, Brahmanpara Lane, Calcutta 6.
Chloride & Exide Batteries (Eastern) Pvt. Ltd.—Barlow House, 59, Chowringhee Road, Calcutta 20.
Eastern Accumulator Co. Pvt. Ltd.—3-1, Mangoe Lane, Calcutta 1.
Eastern Electro-Chemical Co.—112, Narkeldanga Main Road, Calcutta 11.
Electrical Storage Co. Pvt. Ltd.—112, Narkeldanga Main Road, Calcutta 11.
Estrela Batteries Ltd.—22, Canning Street, Calcutta 1.
Free India Dry Accumulators Pvt. Ltd.—2, Brabourne Road, Calcutta 1.
General Lead Batteries Co. Pvt. Ltd.—9A, Ramdhone Mitter Lane, Calcutta 4.
India Accumulators.—13/2, Russa Road, Calcutta.
Indian Battery Mfg. Co. Ltd.—1-A, "Mitar", Lower Circular Road, Calcutta 20.
Kishor, P. & Co.—96-A, Central Avenue, Calcutta 12.
Lucas Indian Service Pvt. Ltd.—46, Wellesley Street, Calcutta 16.
National Carbon Co. (India) Ltd.—18-A, Brabourne Road, Calcutta.
New Star Motor & Electric Works.—192, Upper Circular Road, Calcutta.
Power Battery & Plates Mfg. Corpn. Pvt. Ltd.—72, Ganesh Ch. Avenue, Calcutta 13.
Pritchett & Gold & E. P. S. & Co. Ltd.—31, Chittaranjan Avenue, Calcutta 12.
Sakti Batteries Pvt. Ltd.—17-A, Russa Road, Calcutta 26.
Spark Engineering & Trading Co.—32, Jackson Lane, Calcutta.
Siemens Edison Swan Ltd.—8, Netaji Subhas Road, Calcutta.
Sun Battery Co.—166, Upper Circular Road, Calcutta 4.
Ultra Battery Co.—172-B, Madhu Sudan Pal Chowdhury Lane, Howrah.

BELTING (LEATHER, HAIR & COTTON) & MECHANICAL LEATHERS AND BELT DRESSING MANUFACTURERS & DEALERS

ASIA BELTING & SPINNING MILLS (PRIVATE) LTD.—91, Netaji Subhas Road, Calcutta 1. Manufacturers of Hair Beltings, Cotton Beltings, Hose Pipes, etc.

Basak, P. & Co.—9, Chidam Mody Lane, Calcutta 6.
Bengal Belting Works Ltd.—2, Dalhousie Square East, Calcutta.
Bharat Hardware & Textile Syndicate.—138, Canning Street, Calcutta.
Birkmyre Bros., Ltd.—87, Stephen House, Calcutta 1.
Brand & Co.—S.B., 80, Pathuriaghat Street, Calcutta 6.
Central Trading Co.—137, Canning Street, Calcutta 1.
D. Wren & Co.—Wardley House, 25, Swallow Lane, Calcutta 1.
Dutt, S. L. & Bros.—59, Netaji Subhas Road, Calcutta.

EASTERN BELTING & COTTON MILLS LTD.—Baidyabati, Hooghly (West Bengal).

Fenner, J. H., & Co. (India) Ltd.—10/3A, Mercantile Buildings, Calcutta.
F. Husain & Brothers.—28, Strand Road, Calcutta.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
Hindusthan Belting & Spinning Mills Ltd.—174, Mahatma Gandhi Road, Calcutta 7.
India Belting & Cotton Mills Ltd.—7/G, Clive Row, Calcuttta.
Indian Stores Supplying Co.—137, Canning Street, Calcutta 1.
Jones, J. & D. & Co. (Pvt.) Ltd.—C-5, Gillander House, 8, Netaji Subhas Road, Calcutta.
Kaybee & Co.—13, Brabourne Road, Calcutta.
McGregor & Balfour, Ltd.—18, Netaji Subhas Road, Calcutta 1.
Mohammed & Co., A.—26, Netaji Subhas Road, Calcutta.
Mundra & Co.—8, Canning Street, Calcutta.
Nundlall Inderchand Pvt. Ltd.—10, Canning Street, Calcutta.
Playfair, G. F. & Co.—4, Fairlie Place, Calcutta.
Rostron & Co. Pvt. Ltd.—12-A, Ezra Mansion, 10, Govt. Place, Calcutta 1.
Serampore Belting Works Ltd.—Serampore, Hooghly.
Vulcan Electric & Engineering Co.—12-B, Lower Chitpur Road, Calcutta.
Zenith Stores & Agency Pvt. Ltd.—19, Strand Road, Calcutta.

BEVERAGES

SPENCER AERATED WATER FACTORY PRIVATE LTD.—87, Dr. Suresh Sarkar Road, Entally P.O., Calcutta 14.

BICYCLE COMPONENTS & ACCESSORIES

Associated Machinery Co. Pvt. Ltd.—8, India Exchange Place, Calcutta.
Banerji Cycle Industries.—17, Weston Street, Calcutta.
Bharat Steel & Metal Industries.—Kali Muzumdar Road, Ghusuri P.O., Howrah.
Central India Machine Co.—155, Dharamtala Street, Calcutta 13.
Dunlop Rubber Co. (India) Ltd.—Dunlop House, 57-B, Free School Street, Calcutta.
Eastern Engineering Works.—56, Russa Road, Calcutta.

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Excell Lamps & Products (India).—75, Lower Circular Road, Calcutta.
Gobindo Sheet Metal Works & Foundry.—74, Narkeldanga Main Road, Calcutta.
H. D. Nundy & Co.—50/6, Dharamtolla Street, Calcutta 12.
India Cycle Manufacturing Co. Ltd.—8 & 9, Tiljala Road, Calcutta.
Indian Union Manufacturers Ltd.—190/2, Rash Behari Avenue, Calcutta.
Indophilips Industries P. Ltd.—3, Bentinck Street, Calcutta 1.
Nundy & Co.—6, G.E. Ghosh Road, Calcutta 37.
Pioneer Cycle Co.—66, Bentinck Street, Calcutta.
Senco Engineering Works & Co. P. Ltd.—55/2, Sastitala Road, Calcutta 11.

BISCUIT & CONFECTIONERY MANUFACTURERS

Arizona.—2, Lindsay Street, Calcutta 16.
Aryan Bakery.—53, Kali Temple Road, Calcutta 26.
Barua Bakery Pvt. Ltd.—123-A, Dharamtala Street, Calcutta 13.
Bengal Confectionery Works.—99-3, Canning Street, Calcutta.
Bharat Biscuit Co.—Raniganj, E. Rly.
BRITANNIA BISCUIT CO. LTD.—15, Taratolla Road, Alipore, Calcutta 27.
Calcutta Crown Biscuit Co.—99-C, Canning Street, Calcutta.
C. E. Morton (I.) Ltd.—8, Royal Exchange Place, Calcutta 1.
East Indian Bakery.—106, Lansdowne Road, Calcutta 29.
Empire Confectionery Co.—157-A, Dharamtala Street, Calcutta 13.
Ferrazzini's Pvt. Ltd.—Homayan Court, 21, Lindsay Street, Calcutta.
Flury's Swiss Confectionery, Pvt. Ltd.—18, Park Street, Calcutta.
G. S. Emporium Ltd.—47-A, Chittaranjan Avenue, Calcutta 12.
India Biscuit Co.—15-A, Badridas Temple Street, Calcutta 4.
James Lord & Sons Ltd.—5, Commercial Bldgs., Calcutta.
Kamala Biscuit Co.—113, Raja Dinendra Street, Nandan Bagan, Calcutta.
Kolay Biscuit Co., Pvt. Ltd.—100A, Charakdanga Road, Calcutta 10.
Lily Biscuit Co., Pvt. Ltd.—3, Ramakanta Sen Lane, Calcutta 4.
Lord's Bakery, Confectionery & Biscuit Co.—2, Prince G. M. Shah Road, Tollygunge, Calcutta.
Santosh Biscuit Co., Ltd.—121, Manicktolla Main Road, Calcutta 11.
Sett Brothers.—19, Murari Pukur Road, Calcutta 4.
Sudhamoyee Biscuit Factory.—60, Barrackpore Trunk Road, P.O. Cossipore, Calcutta.

BOARDS MILLS

Asiatic Board Mills Ltd.—29/B, Beerpara Lane, Calcutta 30.
Baranagore Board Mills.—312, Gopal Lal Tagore Road, Calcutta 36.
Bharat Board Mills Ltd.—32, Ezra Street, Calcutta 1.
Calcutta Board Mills.—43, Muraripukur Road, Calcutta 4.
Diamond Board Mills.—34-1, Gurudas Dutta Garden Lane, Calcutta 4.
EASTERN PAPER MILLS LTD.—2, Dakshindari Road, South Dum Dum, Calcutta 37.
Himalaya Paper & Board Mills.—20, Seven Tanks Lane, Calcutta 30.
Lata Board Mills.—22, Amratola Street, Calcutta 1.
Mahabir Paper & Board Iudustries.—6, Canal Road, Calcutta 33.
Pioneer Paper & Pulp (Pvt.) Ltd.—24, Netaji Subhas Road, Calcutta.
Sahapore Board Mills.—S. N. Roy Road, Calcutta 38.
Sree Arabindo Board Mills.—2-1, Chetla Road, Calcutta 27.
Swastik Board Mills Pvt. Ltd., C/o. Narsing & Co. Ltd.—51, Stephen House, Dalhousie Sq., Calcutta.
Union Paper & Board Mills.—18, Netaji Subhas Road, Calcutta.

BOBBIN AND SPOOL MANUFACTURERS

Bharat Industries Corpn. Pvt. Ltd.—88, Shambhu Halder Lane, Salkia.
Binayak Wood Works.—P.O. Khardah (Dt. 24 Parganas).
Greenway & Co.—3, Mangoe Lane, Calcutta 1.
National Industrial Works.—135, Canning Street, Calcutta 1.
P. K. Burke & Sons.—Serampore (Dt. Hooghly).
S. K. Wood Products Co.—86-2, Bahir Surah Road, Calcutta 10.
Woodcraft Products Ltd.—8, India Exchange Place, Calcutta 1.

BOBBINS (JUTE MILL) MANUFACTURERS

Bharat Industries Corpn. Pvt. Ltd.—88, Shambhu Halder Lane, Salkia.
B. K. Desai & Co.—40, Tangra Road, Calcutta.
Hindusthan Bobbin Industries.—15, Canal East Road, Calcutta 4.
Hindusthan Bobbin Mfg. Co.—8/1/1, Gurudas Dutt Garden Lane, Calcutta 4.
SHALIMAR WOOD PRODUCTS PRIVATE LTD.—138, Canning Street, Calcutta. Manufacturers of Jute Mill Bobbins, Shuttles, Card Staves, Card/Gill Pins and other Wooden accessories.

BODY BUILDERS

PAHARPUR TIMBERS PRIVATE LTD.—1-B, Judges Court Road, Calcutta 27. Manufacturers of Railway Coach, Body Builders, Building Joinery, Furnitures, Cooling Towers, Tea-chest Battens, Packing Cases, Cable Drums, Wood Wool.

BOLT, NUT & RIVET MANUFACTURERS & DEALERS

AGARWAL HARDWARE WORKS PRIVATE LTD.—167, Chittaranjan Avenue, Calcutta. Manufacturers of all kinds of Bolts, Nuts, Rivets, Washers, Dog Spikes, Nails, Baling Buckles & Pins.
Alliance Engineering Works.—Santragachi, Hinowrah.
Aminchand Pyarelal.—135, Canning Street, Calcutta.
ASSOCIATED STEEL PRODUCTS CORPORATION.—23-24, Radhabazar Street, Calcutta.

Ringup 67-3282 or Cable "BOLTNUT", HOWRAH
BASANT RAM KEDAR NATH
15, New Seal Lane, HOWRAH.
For 'J' Brand Bolts, Nuts, Rivets & Spikes.

Bhupendra Nath Das & Bros.—71-A, Netaji Subhas Road, Calcutta.
Bose & Co.—38, Narasinha Dutta Road, Howrah.
Bose Manna & Co.—74-2, Ichapore Road, Howrah.
C. G. Engineering Works.—233, Belilios Road, Howrah.
Chowdry, P. C. & Sons.—Santragachi New House, Howrah.
Dewanchand Nikkamal.—71-A, Netaji Subhas Road, Calcutta 1.
Dutson & Co.—10, Baburam Sil Line, P.O. Bowbazar, Calcutta 12.
Edward Miller & Co.—20, Strand Road, Calcutta.
Empire Trading Corpn.—10, Canning Street, Calcutta.
Fatick Chandra Mondal.—65, Kali Kundu Lane, Howrah.
GANESH INDUSTRIES.—2, Haren Mukherjee Road, P.O. Belur Math, Howrah; Phone: 66-3648. Manufacturers of Bolts, Nuts, Rivets, Dogspikes, Wire Nails according to I.R.S. & Customers Specification and Octagon Crowbars and other fastening material.
Ganguli & Co.—89, Netaji Subhas Road, Calcutta.
Ghose & Co.—11, Brindaban Mullick Lane, Howrah.
GUEST, KEEN, WILLIAMS, LTD.—Head Office: 41, Chowringhee Road, Calcutta 16; Works: Andul Road, Howrah.
Harrison Agency.—71-A, Netaji Subhas Road, Calcutta 1.
Herbert Doyle & Co. Pvt. Ltd.—Commercial Bldgs., Calcutta.
India Bolts & Rivets Co.—23, Brindaban Mullick Lane, Howrah.
Indo-Commercial Stores.—77-1, Netaji Subhas Road, Calcutta.
Jhunjhunwala Industries.—Raniganj, E. Rly.
Kasco Metal Products.—6, Mangoe Lane, Calcutta.
Khan Pal Chowdhury & Co., Pvt. Ltd.—71-A, Netaji Subhas Road, Calcutta.
King Engineering Co.—157, Belilios Road, Howrah.
Leather & Steel Products.—26, Burtolla Street, Calcutta 7.
L. Mullick & Co.—81, Netaji Subhas Row, Calcutta 1.
Lyall, M. T. & Co.—36, Strand Road, Calcutta.
Miscellaneous Engg. Stores Pvt. Ltd.—71/A, Netaji Subhas Road, Calcutta.
Motiram Agarwal & Co. Pvt. Ltd.—137, Canning Street, Calcutta 1.
Mullick, A. M. & Co.—71-A, Netaji Subhas Road, Calcutta.
Mullick, S. N. & Co.—37, Netaji Subhas Road, Calcutta.
National Bolts & Rivets Ltd.—44, Madhusudan Pal, Chowdhury Lane, Howrah.
National Machine Tools Co.—10/10, Brindaban Mullick Lane, Kadamtala, Howrah.
N. C. Paul & Co.—196, Panchanantola Road, Howrah.
NETTLEFOLDS OF INDIA LIMITED.—P-35, India Exchange Place Extension, Calcutta 1; Phone: 22-3361; Grams: "SCREWGAUGE" Calcutta.
New India Engineering Concern.—10-10, Brindaban Mullick Lane, Howrah.
Oriental Engineering Co.—13 & 14, Danesh Millah Lane, Howrah.
P. N. Dey & Co.—3-4, Kalachand Nandy Lane, Howrah.
Premier Stores Supplying Co. Ltd.—6-1, Dilarjung Road, Cossipur, Calcutta 2.
PROBHAT WORKS.—Works: Dassnagar, Howrah (West Bengal). Phone: 66-2938, Calcutta; Office: 67/A, Netaji Subhas Road, Calcutta 1; Phone: 22-1084; Grams: "PEE-BOLTS", Calcutta. All types of industrial and Railway fasteners of quality to specifications including fish bolts & nuts, Bridge bolts etc. under Government of India Licence.
RAMCHANDER HEERALALL.—138, Canning Street, Calcutta 1.
Shalimar Iron Works.—62, College Ghat Road, Howrah.
Shree Krishna Pvt. Ltd.—20, Mangoe Lane, Calcutta.
S. N. Mullick & Co.—37, N. Subhas Road, Calcutta 1.
Suburban Stores Supply Co.—10, Canning Street, Calcutta.
Traders Union.—84, Netaji Subhas Road, Calcutta.
Union Engineering Works.—4, Gopinath Choungdar Lane, Ramkristopore, Howrah.

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Universal Railway Material Supply Co.—4, Commercial Bldgs., Netaji Subhas Road, Calcutta.

BONE CRUSHING MILLS & MANURE WORKS

Atlas Fertilisers Ltd.—4, Bankshall Street, Calcutta 1.
Beegos Manure Works.—21, Barwaritola Road, Beliaghata, Calcutta 10.
Beleghata Bone Mills.—21, Barwaritola Road, Belliaghatta, Calcutta 10.
Chingreehatta Bone Mill Ltd.—4, Clive Ghat St., Calcutta 1.
Empire Bone Mills.—1 & 2, Old Court House Corner, Calcutta 1.
Mercury Manure & Bone Mills.—G. T. Road, Magra, Dt. Hooghly.

BOOKSELLERS, PRINTERS AND PUBLISHERS

ALLIED PUBLISHERS PRIVATE LTD.—17, Chittaranjan Avenue, Calcutta-13; Phone: 233104; Head Office: 15, Graham Road, Ballard Estate, Bombay-1; Branch 13/14, Asaf Ali Road, New Delhi.

Baikuntha Book House.—183, Cornwallis Street, Calcutta 6.
Bookland Pvt. Ltd.—1, Sankar Ghosh Lane, Calcutta 16.
Books of the World.—21, Old Court House St., Calcutta 1.
Cambridge Book & Stationery Co.—20-D, Park Street, Calcutta 16.
Chuckervertty Chatterjee & Co. Ltd.—15, College Square, Calcutta 12.

C. RINGER & CO.—Homoeopathic Chemists, Booksellers and Publishers, 23, Lall Bazar Street, Calcutta 1. Phone: 22-4747. Grams: "RINGERCOY." Business running 78 years.

Doodhnath Pustakalaya & Press.—63, Jamunalal Bajaj Street, Calcutta 7.
Essco P. Ltd.—25, Ganesh Chandra Avenue, Calcutta 13.
E. W. Stevens & Co. P. Ltd.—22, Chowringhee Road, Calcutta 13.
Guradas Chatterji & Sons.—203-1-1, Cornwallis Street, Calcutta 6.
Hahnemann Publishing Co. Ltd.—165, Bowbazar Street, Calcutta 12.
Indian Industrial Directory.—29-A, Chandra Nath Chatterjee Street, Calcutta 25.

INTERTRADE PUBLICATIONS.—2, Presidency Court, 55, Gariahat Road, Calcutta 19. Phones: 47-4872, 47-4309.

Jaico Publishing House.—35, Chittaranjan Avenue, Calcutta.

JNANODAYA PRESS.—12, Maharani Swarnamayee Road, Calcutta 9; Printers of Distinction—Equipped with Letter-presses & Lino-machines (English-Bengali).

K. K. ROY (PRIVATE) LTD.—2, Presidency Court, 55, Gariahat Road, Calcutta 19.

Macmillan & Co. Ltd.—294, Bowbazar Street, Calcutta 12.
M. C. Sarkar & Sons P. Ltd.—14, Bankim Chatterjee Street, Calcutta 12.
Modern Book Agency.—10, Bankim Chatterji Street, Calcutta 12.

NANIGOPAL CHATTOPADHYAY & CO., PRIVATE LTD.—1/1, Brindaban Mullick Lane, Calcutta 9.

National Book Agency Pvt. Ltd.—12, Bankim Chatterji Street, Calcutta 12.
Orient Book Co.—C-29-31, College Street Market, Calcutta 12.
Orient Longmans P. Ltd.—17, Chittaranjan Avenue, Calcutta 13.
Oxford Book & Stationery Co.—17, Park Street, Calcutta 16.
Oxford University Press.—Mercantile Buildings, Lall Bazar, Calcutta 1.
R. Cambray & Co. P. Ltd.—Kent House, P-33, Mission Row Extn., Calcutta 13.
Sanskrit Book Depot.—28-1, Cornwallis Street, Calcutta 6.
S. K. Bose.—162/12/2, Prince Anwarsha Road, Calcutta 33.
Society Publishers.—18, Baburam Seal Lane, Calcutta 12.
Standard Literature Co. P. Ltd.—13/1, Old Court House Street, Calcutta 1.
Tara Library.—105, Upper Chitpur Road, Calcutta 6.

VIDYODAYA LIBRARY PRIVATE LTD.—72, Mahatma Gandhi (Harrison) Road, Calcutta 9.

W. Newman & Co., Ltd.—3, Old Court House Street, Calcutta.

BOTTLE CAP AND CAPSULE MANUFACTURERS

Containers and Closures Ltd.—2, Fairlie Place, Calcutta 1.
Crown Cork Mfg. Co.—1, Umakanto Sen Lane, Calcutta 30.
P. Nundy & Sons.—35-6, Ratan Babu Road, Calcutta 2.
S. P. Dutt & Brothers.—7, Ezra Street, Calcutta 1.

BRASS & COPPER PRODUCTS

Binani Metal Works Ltd.—38, Strand Road, Calcutta.
Chandra Industries P. Ltd.—59, Cotton Street, Calcutta 7.
Ganga Metal Refining Co. Ltd.—C/o Binani Traders Ltd., 43, Strand Road, Calcutta.
General Metal Industries Ltd.—C/o Hanuman Prasad Pragdas, 62, Netaji Subhas Road, Calcutta.
Indian Copper Corpn., Ltd.—Ghatsila P.O., Eastern Railway.
National Pipe & Tubes Co. Ltd.—Stephen House, 4, Dalhousie Street, Calcutta.
S. C. Bodak & Co.—85-83, Netaji Subhas Road, Calcutta 1.
Union Metal Works.—169, Andul Road, Howrah.
United Metal Industries Ltd.—62, Netaji Subhas Road, Calcutta 1.

BRASS FOUNDERS

Annapurna Metal Works.—Tiljala, Calcutta 39.
Ashok Co.—157, Netaji Subhas Road, Calcutta 1.
Ashok Metal Industries Ltd.—157, Netaji Subhas Road, Calcutta 1.
Howrah Foundry Works.—53/3, Ashu Bose Lane, Off Belilios Road, Howrah.
M. Chowdhury & Co.—113-G, Netaji Subhas Road, Calcutta 1.
McMira & Co.—71-A, Netaji Subhas Road, Calcutta 1.
Sawalka Metal Products.—90, Muktaram Babu Street, Calcutta 7.
Western Brush Co.—18, Amherst Street, Calcutta 9.

BRUSH MANUFACTURERS

All India Engineering Spring Mfg. Co.—2/1/1, Ram Moy Road, Calcutta 25.
Amherst Brush Factory.—12-B, Amherst St., Calcutta 9.
B. C. Ghosh & Brothers.—44, Old China Bazar St., Calcutta 1.
Bengal Brush Factory.—20, Serpentine Lane, Calcutta 14.
Bepin Pal Sons & Co.—174-A, Dharamtala St., Calcutta 13.
Bharat Industries Corpn. P. Ltd.—88, Sambhu Halder Lane, Salkia.
Britannia Brush Works.—123-24, Canning Street, Calcutta 1.
Calcutta Brush & Fibre Co.—Barnagore, Calcutta 36.
Caledonian Brush Works.—20-1, Manick Bose Ghat St., Calcutta 6.
Climax Brush Works.—64-A, Mirzapur St., Calcutta 9.
India Carbon Brush Mfg. Co.—26, Pollock St., Calcutta 1.
National Brush Factory.—6, Pataldanga St., Calcutta 9.
Nibaran Chunder Ghose & Bro.—22, Old China Bazar St., Calcutta 1.
Pioneer Brush Factory.—11, Amherst St., Calcutta 9.
Standard Brush & Bellows Works.—11, Dayal Banerjee Road, Sibpur, Howrah.
Victor Works.—2, Parshi Bagan Lane, Calcutta 9.
Vulcan Brush Works.—1, Nabo Kumar Raha Lane, Calcutta 4.
Western Brush Co.—18, Amherst Street, Calcutta 9.

BUCKET MANUFACTURERS

Agarwal Hardware Industries.—3, Munshi Sadaruddin Lane, Calcutta.
Asian Industries.—9, Upper Chitpur Road, Calcutta 7.
Banwarilall Purshotamdass.—29, Banstolla Street, Calcutta 7.
Bengal Industries.—132, Cotton Street, Calcutta 7.
Bengal Iron Trading Co.—227/228, G. T. Road, Ghusury, Howrah.
Beriwala Hardware Industries.—221, G. T. Road, Lillooah, Howrah.
Bhagya Devi Factory.—213, Harrison Road, Calcutta 7.
Bhalotia Metal Manufacturing Co.—2, Doyehatta Street, Calcutta 7.
Bharat Steel & Metal Industries.—14/2, Old China Bazar Street, Calcutta.
Binapani Galvg. Works.—150, Ultadanga Main Road, Calcutta.
Calcutta Iron & Engg. Co. Pvt. Ltd.—77A, Benares Road, Howrah.
Cromelite (India) Pvt. Ltd.—149, Mahatma Gandhi Road, Calcutta 7.
East India Metal Co. Pvt. Ltd.—4A, Durga Charan Chatterjee Lane, Calcutta.
Ganga Iron & Galvg. Works Pvt. Ltd.—58, Clive Street, Calcutta.
Goodman & Co. (I.) Pvt. Ltd.—38, Netaji Subhas Road, Calcutta 1.
H. A. Nanji & Co.—46, Ezra Street, Calcutta.
Hariana Iron Works.—30/31, Kalakar Street, 5th Floor, Calcutta 7.
Hariganga Galvg. Works Pvt. Ltd.—58, Clive Street, Calcutta.

HINDUSTAN INDUSTRIAL CO.—192, Jamunalal Bazaz Street, Calcutta 7.

Howrah Galvg. Works.—71, Burtolla Street, 3rd Floor, Calcutta.
Imperial Bucket Co.—10, Rajendra Mallik Street, Calcutta.
Indian Steel Galvg. Works.—213, Harrison Road, Calcutta.

KEDARNATH PARSOTAMDAS & CO. (PRIVATE) LTD.—37, Netaji Subhas Road, Calcutta 1. Manufacturers and Exporters of 'KP' Brand Conduit Pipes, 'Camel' Brand G.I. Buckets, 'Steelelite' Brand Steel Furniture.

Krishna Galvg. Works.—20, Belur Road, Lillooah, Howrah.
Krishna Iron Foundry & Metal Works Pvt. Ltd.—Gopalpur, P.O. Asansol, Dist. Burdwan.
Ladhuram Rajkapoor.—49/1, Abani Dutta Road, Howrah.
Maya Galvg. Works.—9, Upper Chitpur Road, Calcutta.
M. G. R. Iron & Steel Works Pvt. Ltd.—P-16, Kalakar St., Calcutta 7.

METAL & ALLOY CORPORATION.—38-A, Belgachia Road, Calcutta 37.

Nathmall Girdharilall.—22, Burtolla Street, Calcutta.
Orissa Steel Corporation Pvt. Ltd.—2, Doyehatta Street, Calcutta 7.
Poddar Galvg. Works.—26, Burtolla Street, Calcutta 7.
Shiw Ganga Iron Galvg. Works.—22C, Canal West Road, Calcutta.
Shree Bishandas Iron Works.—22, Burtolla Street, Calcutta.
Shree Dhakalia Industries.—138, Canning Street, Calcutta.
Shree Hanuman Iron Works.—193/2, Mahatma Gandhi Road, Calcutta.
Shree Laxmi Industries.—46, Strand Road, Calcutta.

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SHREE VISHWAKARMA INDUSTRIES.—192, Cross Street, Calcutta 7.

Susil Iron & Galvg. Works.—56, Clive Street, Calcutta.
Victory Iron Works Pvt. Ltd.—48, Canning Street, Calcutta.
Vijay Industries.—2, Maharshi Debendra Road, Calcutta 7.

BUILDERS & CONTRACTORS

Bengal Builders and Traders.—P-13, Mission Row Extension, Calcutta.
Bhai Sundar Das Sarkar Singh Pvt. Ltd.—34, Ganesh Chandra Avenue, Calcutta.
Britannia Building & Iron Co. Ltd.—4, Dalhousie Square East, Calcutta.
Calcutta Builders Stores Pvt. Ltd.—32/A, Chittaranjan Avenue, Calcutta 12.
Calcutta Constructors P. Ltd.—34, Strand Road, Calcutta.
Chatterjee Bros.—14-A, Protapaditya Road, Calcutta 26.
Dakhineswar Sarkar & Bros. Ltd.—2, Maharshi Debendra Road, Calcutta 7.
Dalmiaya & Co., M. L.—76, Ashutosh Mukherjee Road, Bhowanipor, Calcutta.
Dharam Pal Chadha & Sons.—3, Madan Street, Calcutta.
Eastern Traders.—18, Harish Chatterjee St., Calcutta 25.
Engineers' Syndicate (India) P. Ltd.—21, Old Court House, Calcutta 1.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta.
Hind Construction Co. Ltd.—8, Royal Exchange Place, Calcutta.

HINDUSTHAN ENGINEERING & CONSTRUCTION CO.—Engineers, Builders and Contractors, 2, Church Lane, Calcutta.

Home Builders India P. Ltd.—12-P, Park Street, Calcutta 16.
J. N. Ghosh & Co.—71, Serpentine Lane, Calcutta.
Kumar Narayana P. Ltd.—28, Southern Avenue, Calcutta 26.
Mackintosh Burn Ltd.—8, Netaji Subhas Road, Calcutta 1.
Mansfield & Sons.—16, Radhanath Chowdhury Road, Post Box 124, Calcutta.
Modern India Construction Co. Pvt. Ltd.—9, Brabourne Road, Calcutta 1.
National Construction Corporation.—14, Netaji Subhas Road, Calcutta.
National Planning & Construction Co. Ltd.—16, Ganesh Chandra Avenue, Calcutta 13.
S. N. Roy & Sons P. Ltd.—10, Hastings St., Calcutta.
Sett & Co.—9, Digamber Jain Temple Road, Calcutta 7.
Sewak Ram & Co.—41/1, Bhupendra Bose Avenue, Calcutta 4.
Shalimar Tar Products (1935) Ltd.—6; Lyons Range, Calcutta.
Shaw & Co.—8, Prankrishna Mukherjee Road, Calcutta 2.

SUBODH ADITYA & CO.—36, Lake Temple Road, Calcutta. Builders—Specialised in Roof Waterproofing and damp proofing treatment.

Sudan & Co.—81, Panchanantala Lane, Calcutta 34.

CABLE & WIRE MANUFACTURERS

ELECTRICAL INDUSTRIES CORPORATION.—99, Motilal Gupta Road, Calcutta 41.

ELECTRICAL MACHINES CORPORATION PRIVATE LTD.—EMC Gardens, 136, Jessore Road, Calcutta 28. Manufacturers of Cables (ACSR, AAC) Ground & Stay Wires, Conductor Accessories, H.T. Disc Insulators, Insulator Hardware, Transmission Line Erection Tools, Poles, Air Break Switches, Non-ferrous Pressure & Gravity die Castings and Aluminium Extrusions.

CABINET MAKERS & FURNISHERS

Allied Furnishers.—266, Bowbazar Street, Calcutta 12.
Amkar Furnishers.—42, Chittaranjan Avenue, Calcutta 12.
Anandamayee Cabinet Stores.—44/1, Bowbazar Street, Calcutta 12.
Art Furnishers (P) Ltd.—3, Southern Avenue, Calcutta 26.
B. N. Ghosh & Bros.—28, Bowbazar Street, Calcutta 12.
Bengal Forward Furniture House.—27, Bowbazar Street, Calcutta 12.
Bengal Lumber Produce Co.—10/1, Nivedita Lane, Calcutta 3.
Botto Krishna Mondal.—225, Bowbazar Street, Calcutta 12.
Broadway Furnishing House.—172, Bowbazar Street, Calcutta 12.
Calcutta Cabinet Co. (P) Ltd.—66, Bowbazar Street, Calcutta 12.
Calcutta Furnishing Stores (P) Ltd.—62, Bowbazar Street, Calcutta 12.
Charu Furnishing Co.—79-B, Bowbazar Street, Calcutta 12.
Chatterji Furnishing Co. Pvt. Ltd.—2, Russell Street, Calcutta 16.
Chowringee Sale Bureau (P) Ltd.—24B, Park Street, Calcutta 16.
City Furnishers.—275, Bowbazar Street, Calcutta 12.
City Cabinet (P) Ltd.—57/2-E, College Street, Calcutta 12.
Cosmos Midways (P) Ltd.—Gangadhar Baby Lane, Calcutta 12.
Daffodil Furnishers.—240/2, Bowbazar Street, Calcutta 12.
Deb & Co.—268, Bowbazar Street, Calcutta 12.
Deluxe Furnishers.—53, Bowbazar Street, Calcutta 12.
Eastern Furnishers.—62, Bowbazar Street, Calcutta 12.
Fashion Furnishers.—264B, Bowbazar Street, Calcutta 12.
Fashion Furnishing Stores.—67, Bowbazar Street, Calcutta 12.
Genuine Furnishers Co.—263, Bowbazar Street, Calcutta 12.
Grant James (P) Ltd.—8-B, Lower Rowdon Street, Calcutta 20.
Guha Furnishers.—226/C, Bowbazar Street, Calcutta 12.
Guha & Sons.—267 & 268A, Bowbazar Street, Calcutta 12.
Haro Kumar Ghosh & Co.—226D, Bowbazar Street, Calcutta 12.
Hindusthan Wood Crafts (P) Ltd.—75-B, Wellesley Street, Calcutta 16.
J. Valji Bros.—47, Bowbazar Street, Calcutta 12.
K. B. Mondal & Sons.—42/3, Bowbazar Street, Calcutta 12.
Kamala Furnishing Stores.—158, Bowbazar Street, Calcutta 12.
Kastha Asbab Protisthan.—44, Bowbazar Street, Calcutta 12.
Koton Furnishing Co.—240/5, Bowbazar Street, Calcutta 12.
Krishna Chandra Dey.—64/2, Bowbazar Street, Calcutta 12.
Lakshmi Furniture Stores.—236, Bowbazar Street, Calcutta 12.
Madan Mohan Dey.—64/2, Bowbazar Street, Calcutta 12.
Model Building & Furnishing Co.—20/1B, Bowbazar Street, Calcutta 12.
Model Furnishers.—267, Bowbazar Street, Calcutta 12.
Modern Furnishers.—1, Gorachand Lane, Calcutta 16.
Modern Furnishing Stores.—67, Bowbazar Street, Calcutta 12.
Modern Wood Crafts.—26-2A, Sashi Bhusan Dey Street, Calcutta 12.
Mondal & Co.—225, Bowbazar Street, Calcutta 12.
National Cabinet Co.—62, Bowbazar Street, Calcutta 12.
National Furniture.—33, Bowbazar Street, Calcutta 12.
National Furnishing Co.—43, Bowbazar Street, Calcutta 12.
Neo Art Furnishers.—46, Bowbazar Street, Calcutta 12.
New Exchange House (P) Ltd.—42, Chittaranjan Avenue, Calcutta 12.
P. K. Hor & Co.—96/2B, Collin Street, Calcutta 16.
P. N. Dass & Co.—128/1, Bowbazar Street, Calcutta 12.
Paragon Furniture.—237, Bowbazar Street, Calcutta 12.
Paradise Furnishers.—264K, Bowbazar Street, Calcutta 12.
Parpia & Co.—45, Bowbazar Street, Calcutta 12.
Prabartak Furnishers Ltd.—61, Bowbazar Street, Calcutta 12.
Premji Karsen Das.—1, Giribabu Lane, Calcutta 12.
Quality Furnishers.—349B, Bowbazar Street, Calcutta 12.
R. C. Furnishers.—224/6, Bowbazar Street, Calcutta 12.
Republic Furnishers Ltd.—3/2, Madan Street, Calcutta 13.
R. N. Chakravarty.—66, Bowbazar Street, Calcutta 12.
S. B. & Co.—249, Bowbazar Street, Calcutta 12.

S. N. GHOSH & SONS.—44/1, Bowbazar Street, Calcutta 12.

S. S. Das & Bros.—47, Bowbazar Street, Calcutta 12.
Sarkar & Co.—246, Bowbazar Street, Calcutta 12.
Sk. Fazlay Karim & Co.—48, Bowbazar Street, Calcutta 12.
Standard Cabinet Co. (P) Ltd.—32, Chittaranjan Avenue, Calcutta 12.
Standard Furnishing Stores.—249/B, Bowbazar Street, Calcutta 12.
Steel Furniture & Construction Co.—49, Bowbazar Street, Calcutta 12.
Woodall Industries.—33, Bowbazar Street, Calcutta 12.
Wood & Steel Furnishing Co.—34, Bowbazar Street, Calcutta 12.
Wood Works.—64/1, Bowbazar Street, Calcutta 12.

CANNING AND CONDIMENT WORKS

Bengal Collective Industries & Farm Ltd.—56, Bentinck St., Calcutta 1.
Daw Sen & Co. P. Ltd.—29, Dr. Suresh Sarkar Road, Entally, Calcutta 14.
Farm & Fruit Products P. Ltd.—71-A, Chakrabere Road North, Calcutta 20.
Great Eastern Preserving Works.—18, Blochmann St., Calcutta 13.
Imperial Fruit Preserving Co.—35-A, Murari Pukur Road, Calcutta 4.

"MAYS"
FRUIT INDUSTRIES
I. MUSRY & CO.
Manufacturers of
Fruit Squashes, Syrups, Jellies & Chutneys, etc.
36, Mott Lane (Dharamtalla), Calcutta-13.

Mida & Co. P. Ltd.—150, Manicktola Main Road, Calcutta 11.
Mitter Sircar & Co.—68, Serpentine Lane, Calcutta 14.
Sreekissen Dutta & Co.—128, Middle Road, Calcutta 14.
Tims Products Ltd.—India Exchange, Calcutta 1.

CANVAS & PAULIN MANUFACTURERS & DEALERS

Bengal Waterproof Works Ltd.—32, Theatre Road, Calcutta 16.
Harley & Co., F.—5, Delhi Serampore Road, Entally, Calcutta 14.
Mohatta Brothers.—19, British Indian St., Calcutta.
Tarachand Gupta & Co.—131, Cotton Street, Calcutta 7.

CARD & GILL PINS

SHALIMAR WOOD PRODUCTS PRIVATE LTD.—138, Canning Street, Calcutta. Manufacturers of Jute Mill Bobbins, Shuttles, Card Staves, Card/Gill Pins and other Wooden accessories.

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CARD BOARD BOX & CARTON MANUFACTURERS

Antool, S. & Co. Pvt. Ltd.—91, Upper Circular Road, Calcutta.
Bengal Box Mfg. Co.—1 & 4, Raj Kumar Chatterjee Road, Cossipur, Calcutta.
Bengal Card-Board Industries & Printers Pvt. Ltd.—72, Tiljala Road, Calcutta 17.
Cardboard Box Factory Ltd., & Art Ptg. Works, Pvt. Ltd.—8-1, Chowringhee Lane, Calcutta 16.
Card Board Box Mfg. Co.—38, Colootolla St., Calcutta 7.
Cardboard Industrial & Printing Co.—36/D, Sitalata Lane, Calcutta 11.
Cardboard Materials & Printing Co. Pvt. Ltd.—7, Convent Road, Calcutta 14.
Diamond Products Ltd.—4, Clive Row, Calcutta 1.

GREAT BENGAL CARDBOARD BOX MANUFACTURING CO.—40/B, Joy Mittra Street, Calcutta 5. Manufacturers of Paper and Board Products, winners of State Awards and A.I. Printers' Federation's Prizes.

Indian Cardboard Industries Ltd.—4, Fairlie Place, Calcutta 1.
Modern India Machine Tools Pvt. Ltd.—18-1-6, Canal West Rd., Calcutta.
Oriental Cardboard Industries Pvt. Ltd.—25, Ganesh Chandra Avenue, Calcutta 13.
Packaging & Printing Industries.—1, British Indian St., Calcutta 1.
Paul & Son.—1, Manicktola Main Road, Calcutta.
Pioneer Cardboard Box Mfg. Co.—10, Ezra Street, Calcutta 1.
Sett, H. L. & Sons Pvt. Ltd.—21, Jadu Pandit Road, Calcutta 6.
Unique Cardboard Box Mfg. Co. Pvt. Ltd.—12, Grey Street, Calcutta 5.

UNIVERSAL CARDBOARD BOX FACTORY.—54, Ezra Street, Calcutta 1.

CARD STAVES

SHALIMAR WOOD PRODUCTS PRIVATE LTD.—138, Canning Street, Calcutta. Manufacturers of Jute Mill Bobbins, Shuttles, Card Staves, Card/Gill Pins and other wooden accessories.

CARPET MANUFACTURERS

Birla Jute Manufacturing Co., Ltd.—8, Royal Exchange Place, Calcutta 1.
Cosmo Trading Co.—98, Netaji Subhas Road, Calcutta 1.
Indian Carpet Corporation.—30, Central Avenue, Calcutta 12.
Shree Hanuman Jute Mills.—8, D. Square East, Calcutta 1.
Shroffs Carpets.—12, Chowringhee Road, Calcutta 13.

CASTINGS

Agarwal Hardware Works P. Ltd.—167, Chittaranjan Avenue, Calcutta.
Agarwala Iron & Steel Works.—P-38, Mission Row Extn., Calcutta 13.
Ananta Chatterjee & Sons.—200, Belilios Road, Howrah.
Annapurna Metal Works.—3, Ashu Biswas Road, Calcutta 25.

ASWINI KUMAR MONDAL.—146, Belilios Road, Howrah. Manufacturers of Gears, Pinions, Cotton Jute Mills Spare, Coke-oven Components, etc.

B. N. PACHAL & SONS PRIVATE LTD.—33/1/1, Natabar Paul Road, Howrah. Grams : "PACHALPUMP," Howrah. Phones : 66-3284, 66-2420. Manufactures "PACHAL" Brand Hydraulically Tested High Pressure Water Main Pipes & Specials, Sluice Valves, Non-return Valves, Sluice Gates and undertake miscellaneous castings up to 3 1/2 Tons.

Bengal Iron Works P. Ltd.—16-2, Chatterjee Lane, Howrah.
Bengal Machine Tool Works.—112, Narasingha Dutta Road, Howrah.
Bharat Weighing Scales & Engineering Syndicate.—75-1, Kalachand Nandy Lane, Howrah.
Burn & Co. Ltd.—P-10, Mission Row Extension, Calcutta.
Castings Corporation (I) P. Ltd.—45, Madhusudan Pal Chowdhury Lane, Howrah.
D. C. De & Sons.—150, Narasingha Dutta Road, Howrah.
D. K. Das & Co. P. Ltd.—233, Belilios Howrah Road, Calcutta.
Dhang & Co.—2, Sreeram Dhang Road, Salkia.
Dutson Engineering Corpn. P. Ltd.—5, Mahendra Chandra Garden Road, Dum Dum, Calcutta 30.
East India Engineering & Agency Co.—63-1, Banaras Road, Howrah.
Fakirchand Dass Mistry & Sons P. Ltd.—143 and 144, Belilios Road, Howrah.
Great Eastern Foundry Works.—138, Canning Street, Calcutta 1.
Hira Lall Mondal.—27, Madhab Glose Lane, Sibpur, Khurut.
Howrah City Engineering Co. P. Ltd.—1, Deshapran Sasmal Road, Howrah.
Howrah Engineering Concern P. Ltd.—19, Maharshi Debendra Road, Calcutta 6.
Howrah Engineering & Galvanising Works.—68, Benares Road, Howrah.
Howrah Iron & Steel Works P. Ltd.—90, Benares Road, Salkia.
Howrah Light Casting Co. P. Ltd.—213, Mahatma Gandhi Road, Calcutta 7.
India Weighing Scales & Engg. Co. P. Ltd.—233, Belilios Road, Howrah.
Iron Craft P. Ltd.—12 & 13, Sree Kishan Bhakat Lane, Howrah.
J. D. Jones & Co. (P) Ltd.—C5, Clive Buildings, 8, Netaji Subhas Road, Calcutta.
J. M. Sain & Bros.—110, College Street, Calcutta 12.
K. P. Das & Co. P. Ltd.—163, Netaji Subhas Road, Howrah.
K. P. Das & Sons P. Ltd.—179, Belilios Road, Howrah.
Lakshmi Narayan Eng. Works.—133, Belilios Road, Howrah.

L. MULLICK & CO.—81, Netaji Subhas Road, Calcutta 1.

Luxmi Engineering Co. P. Ltd.—123, Narasingha Dutt Road, Howrah.
Lynx Machinery Co.—104, Ultadanga Main Road, Calcutta 4.
Mondal & Karar Co.—177-1, Belilios Road, Howrah.
Motilal Roy.—34, Natabar Pal Road, Howrah.
Non-Ferrous Metal Industries (P) Ltd.—161/1, Harrison Road, Calcutta 7.
Panchkori Ghosh & Sons P. Ltd.—166, Belilios Road, Howrah.
Ramkrishna Iron Works P. Ltd.—56, Ramkrishna Mandir Path, Howrah.
Reliance Engineering Works.—233, Belilios Road, Howrah.
S. C. Dass & Co. P. Ltd.—178, Belilios Road, Howrah.
Shiva Durga Iron Works.—166/1, Madhusudhan Pal Chowdhury Lane, Howrah.
Thakurdass Surekha.—40, College Street, Calcutta 12.
Ultra Engineering Co.—172-8, Madhusudan Pal Chowdhury Lane, Howrah.

CEMENT MANUFACTURERS

Asbestos Cement Private Ltd.—Taratolla Road, Garden Reach, Calcutta 24.
Assam Bengal Cement Co. Ltd.—7, Wellesley Place, Calcutta.
Sone Valley Portland Cement Co. Ltd.—12, Mission Row, Calcutta.

CHEMICAL & PHARMACEUTICAL MACHINERY

A. P. V. Engineering Co. Ltd.—41, Chowringhee, Calcutta.
Chemical Plant & Equipment Ltd.—7, Lower Chitpore Road, Calcutta.
Corporated Engineers (India) P. Ltd.—7, Chittaranjan Avenue, Calcutta 13.
H. Mukerji & Banerjee Pvt. Ltd.—Shamprasad Mookerjee Road, Calcutta.
Heroes Engineering Works.—20, Paul Street, Calcutta.
Hindustan Development Corpn., Ltd.—38, Tiljala Road, 24-Parganas.
Jewell Fitter Co. Ltd.—56-A, Free School Street, Calcutta.
Liloah Iron Works.—Guba Park, Lillooah, Howrah.
Oriental Machinery Supplying Agency Ltd.—17/2/H/18, Canal West Road, Calcutta 9.

CHEMICAL PUMPS

B. N. PACHAL & SONS PRIVATE LTD.—33/1/1, Natabar Paul Road, Howrah. Grams : "PACHALPUMP," Howrah. Phones: 66-3284, 66-2420.

CHEMICALS, DRUGS AND PHARMACEUTICAL PRODUCTS MANUFACTURERS

Abco's Pharmaceutical Works (India) Ltd.—Abco House, Calcutta 11.
Aceto Chemicals P. Ltd.—22, Brabourne Road, Calcutta 1
Adcco Ltd.—29-3-A, Chetla Central Road, Calcutta 27.
Albert David Ltd.—15, Chittaranjan Avenue, Calcutta 13.
Alkali & Chemical Corpn. of India Ltd.—ICI House, 34, Chowringhee, Calcutta 16.
Allen & Hanbury's Ltd.—E-4, Clive Buildings, Netaji Subhas Road, Calcutta.
Arrow Co.—10-1, Biprodas Street, P.O. Amherst Street, Calcutta 9.
Aryan Drug House Pvt. Ltd.—28, Kali Kumar Banerjee Lane, Calcutta 2.
Asia Drug Co., Ltd.—29, Strand Road, Calcutta 1.
Asiatic Drug House Ltd.—42, Barwaritola Road, Belliaghata, Calcutta.
Asiatic Oxygen & Acetylene Co., Ltd.—8, Dalhousie Square, Calcutta.
Assam Sillimanite Ltd.—6, Ganesh Chandra Avenue, Calcutta.
Associated Drugs & Chemical Works.—197, P. Ghat Road, Barnagore, Calcutta.
Banerjee Chemical Works.—88A & 89, Bagmari Road, Calcutta 11.
Banga Luxmi Ayurved Works.—7, Chowringhee Road, Calcutta 13.
Banga Luxmi Chemical Works.—7, Chowringhee Road, Calcutta 13.
Bangalore Whitelead Syndicate Pvt. Ltd.—Gillander House, Calcutta.
Barnagore Chemical Works.—4, Chowringhee Road, Calcutta.
Basak, K. P. & Co.—29A, Durga Charan Mitter Street, Calcutta 6.

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Basmall & Co. (India) Ltd.—296/98, Jessore Road, Calcutta 28.
Bathgate & Co. Ltd.—17, 18 & 19, Old Court House Street, Calcutta.
Belur Chemical Works.—P.O. Bellur Math, Railway Station, Belur, Howrah.

BENGAL ACID & CHEMICAL MANUFACTURING CO.—27-A, Acharya Prafulla Chandra Road, Calcutta 9.

Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.
Bengal Drugs & Pharmaceutical Works.—Lakshmibilas House, 11, Raj Narayan Street, Calcutta 9.
Bengal Drug & Chemical Works.—7-1A, Nabin Sarcar Lane, Baghbazar, Calcutta 3.
Bengal Health & Chemical Works Ltd.—2, Harimohan Roy Lane, Calcutta 15.
Bengal Immunity Co., Ltd.—153, Dharamtala Street, Calcutta 13.
Bengal Industrial & Scientific Works Ltd.—83-B, Vivekananda Road, Beadon St., Calcutta.
Bengal Medical Research.—63-3, Mirzapur Street, Calcutta 9.
Bengal Pharma Institute.—32/2, Muraripukur Road, Calcutta.
Bengal Research Institute.—13/3, Natherbagan St., Calcutta.
Bharat Immunity Laboratories.—67, Chakradanga Road, Calcutta.
Bharat Laboratory & Chemical Works Ltd.—Post Office Tollygunge, 24-Parganas.
Bharati Rasayanagar Ltd.—29-3A, Chetla Central Road, Calcutta 27.
Bharat Laboratory & Chemical Works Ltd.—10, Prince Anwar Shah Road, Calcutta.
Bhattacharjee Chemical Works.—25, Latafat Hussain Lane, Calcutta 10.
Bhattacharyya, M. & Co.—85, Netaji Subhas Road, Calcutta.
Bijoya Chemical Works Ltd.—Provi Road, Behala, Calcutta 34.
Bio Pharma Laboratories.—106/2, Hazra Road, Calcutta.
Birla Laboratories.—2, Birpara Lane, Calcutta 30.
Bisharad's Ayurvedic Laboratory.—14, Puranchand Nahar Avenue, Calcutta 13.
Bose Chemical Works.—18/1, Sahitya Parishad St., Calcutta.
Bose's Dr. Laboratory Ltd.—45, Amherst Street, Calcutta 9.
Brahmachari Research Institute.—82-3, Cornwallis Street, Calcutta 4.
British Drug Houses (I) Ltd.—58/D, Chowringhee Road, Calcutta 16.
British Medicines & Pharmaceutical Co.—1/1, Justice Dwarkanath Road, Calcutta 20.
British Medicine & Pharmaceutical Co.—44/45, Ezra Street, Calcutta.
Bronkol P. Ltd.—25, Indra Biswas Road, Calcutta 37.
B. S. B. & Co. Ltd.—P-7, Mission Row Extension, Calcutta.
Burma Lime & Chemical Co., Ltd.—5, Clive Ghat Street, Calcutta.
Butto Kristo Paul & Co., Pvt. Ltd.—1, Bonfield Lane, Calcutta.
C. D. Thakkar & Co.—22, Brabourne Road, Calcutta 1.
C. S. I. (Chemicals & Pharmaceuticals) Pvt. Ltd.—9-3, Chowringhee Road, Calcutta 13.
Calcutta Acid & Chemical Co.—226, Bagmari Road, Calcutta 11.
Calcutta Chemical Co. Ltd.—35, Panditia Road, R. B. Avenue, Calcutta 29.
Calcutta Industrial Chemicals & Minerals Co. Ltd.—43, Dharamtala Street, Calcutta 13.
Calcutta National Chemical Industries.—17, Badridas Temple St., Calcutta.
Calcutta Polyclinic Ltd.—6-A Sureshnath Banerjee Road, Calcutta 13.
Calcutta Pure Drug Co.—2, Cooper Lane, Calcutta.
Calcutta Sereological Institute & Laboratory Ltd.—9-3, Chowringhee, Calcutta 13.
Calcutta Soap Works Ltd.—Calso Park, Ballygunge Siding Road, 24-Parganas.
Capco Ltd.—1, Netaji Subhas Road, Calcutta 1.
C. C. Industries.—81-1-1D, Raja Dinendra Street, Calcutta 6.
Central Chemical Works.—7, Bisseswar Banerjee Lane, South Bantra, Howrah.
Central India Medical Laboratories Ltd.—62, Landsowne Road, Calcutta.
Central Polyclinic Laboratory & Chandrakanta Pharmacy,—45-1, Beadon Street, Calcutta 6.
Century Chemical & Pharmaceutical Works Ltd.—P-64, Raja Nabakissen Street, Calcutta.
Chakravarty Chemical Industries Ltd.—17, Mangoe Lane, Calcutta.
Charak Chemical Works Ltd.—161-1, Harrison Road, Bangur Bldg., Calcutta 7.
Chemical Association (Calcutta) Ltd.—55, Canning Street, Calcutta.

CHEMICAL INDUSTRIES CO. PRIVATE LTD.—29, Strand Road, Calcutta. Manufacturers of Fire Fighting Foam Compound, Boiler Antiscaling Compound, Sodium Aluminate and other technical Chemicals.

Chemical & Surgical Works Ltd.—186, Bow Bazar Street, Calcutta 12.
Chemical Supplies (Bengal) Co.—10-C, Gurudas Dutt Garden Lane, Calcutta 4.
Chemical Synthetics (India).—83/A, Karbala Tank Lane, Calcutta 6.
Chemicals and Solvents Ltd.—Post Box 707, Calcutta 1.
Chempure Ltd.—6, Lucas Lane, Calcutta.
Ciba Pharma Ltd.—59-B, Chowringhee, Calcutta 20.
City Chemical Industries, 58-D, Netaji Subhas Road, Calcutta.
City Drug & Chemical Works.—17/1, Shibtola Street, Calcutta.
Cured Laboratories (I) Ltd.—240/1, Russa Road South, Calcutta.
Dabur (Dr. S. K. Burman) Pvt. Ltd.—142, Rasbehari Avenue, Calcutta, 29.
Dacca Laboratories.—7, Madan Chatterjee Lane, Calcutta.
Delta Chemical Industries.—81-A, Hazra Road, Calcutta 26.
Detto Chemicals.—Auddy Lane, Serampore, Hooghly.
Dey's Medical Stores, Pvt. Ltd.—6/D, Lindsay Street, Calcutta 16.
Dharmaraj Chemical & Pharmaceutical Works.—Masat, Hooghly.
Dolphin Laboratories Ltd.—11-A, Prince Anwar Shah Road, Calcutta.
Dominion Chemicals Ltd.—35-A, Simla Street, Calcutta 6.
Dragon Chemical Works Pvt. Ltd.—204-1, Russa Road, South, Calcutta 33.
Drug House (India) Ltd.—52, Sambhunath Pandit Street, Calcutta 25.
East India Chemical Works Ltd.—Victoria Road (South), Calcutta 30.
East India Pharmaceutical Works Ltd.—11/1/4, Syama Prosad Mukherjee Road, Calcutta 26.
Eastern Chemical Products.—6, Brahmanpara Lane, Calcutta 6.
Eastern Drug Co. Ltd.—4, Moyerpore Road, Calcutta 27.
Eastern Industrial Corpn.—142/1, Radhabazar Street, Calcutta.
Eyedrop Manufacturing Co.—271, Chittaranjan Avenue, Calcutta 16.
Epsilon Laboratories.—35/2, Panditia Road, Calcutta 29.
Fairdeal Corporation Ltd.—7, Chittaranjan Avenue, Calcutta 13.
Febrome Ltd.—172, Landsdowne Road, Calcutta.
Filpen Products.—70-3, Sambhunath Pandit Street, Calcutta 25.
Forward Chemical Industries.—18, Tamer Lane, Calcutta.
Frank Ross & Co. Ltd.—7, Chowringhee, Calcutta 13.
Full Moon Chemical Works.—Sibpur, Howrah.
G. D. A. Chemicals Ltd.—36, Panditia Road, Calcutta 29.
G. D. Pharmaceuticals P. Ltd.—Calcutta 3.
Gem Chemical Co.—54, Sri Gopal Mallick Lane, Calcutta 12.
General Drugs Antiseptics & Chemicals.—44, Badridas Temple St., Calcutta.
Ghosh, M. L. & Co.—Windsor House, Mission Row Extn., Calcutta.
Giemcie Traders Ltd.—26, Nakuleshwar Bhattacharjee Lane, Calcutta 26.
Glaxo Laboratories (I) Ltd.—32, Stephen House, Calcutta.
Globe Research Institute.—L-A, Sanatan Seal Lane, Off Wellington St., Calcutta 12.
Gluconate Ltd.—70A, Prinsep Street, Calcutta 13.
Great Oriental Chemical Works.—Sadanada Bhaban, Mahinagar, P.O., Dakshin-Govindapur, 24-Parganas.
Grimault Ltd. Laboratories.—5, Garstin Place, Calcutta.

H. MUMTAZ & CO.—15, Swinhoe Lane, Calcutta 42.

H. S. DAS.—104/1, Serpentine Lane, Calcutta 14. Manufacturers of Reagent quality Mineral Acids, Copper Sulphate, Barium Sulphate, Strontium Nitrate, Soaps, etc.

Health Remedies & Laboratories.—42-D, Jibon Krishna Mitra Road, Belgachia, Calcutta.
Herbex Chemical Laboratories (I) Ltd.—41-D, Baldeopara Road, Calcutta.
Henry S. Clerk & Co.—Kent House, P-33, Mission Row Extn., Calcutta 13.
Hindustan Drug House Ltd.—120, Dharamtolla Street, Calcutta.
Hindustan Industries Co.—18, Mangoe Lane, Calcutta.
Hindusthan Heavy Chemicals, Ltd.—Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.
Hindusthan Pharmaceutical Works Pvt. Ltd.—44, Beliaghatta Main Road, Calcutta 10.
Hindusthan Scientific Chemical Industries Pvt. Ltd.—6, Mangoe Lane, Calcutta.
Howrah Chemical Works.—148, Mahatma Gandhi Road, Calcutta 7.
Hutchison, J. & R. Pvt. Ltd.—10, Clive Row, Calcutta 2.
Ihothas Trading Co.—22, Netaji Subhas Road, Calcutta.
Immune Drug Co. Ltd.—14, Bancharan Akrur Lane, Calcutta.
Immune Chemical Laboratory Ltd.—19, Canal Street, Calcutta 14.
Immunity Chemical Co.—8/3, Canal Street, Calcutta 14.
Immuno Biologlal Laboratories.—15, Roy Mansions, Elgin Road, Calcutta 20.
Imperial Chemical Industries (I) Ltd.—34, Chowringhee, Calcutta.
India Alkalies Ltd.—5, Garstin Place, Calcutta.
India Chemical Industries, Ltd.—105, Cotton Street, Calcutta 7.
Indian Chemical & Pharmaceutical Industries.—188, Manicktolla Main Road, Narkeldanga, Calcutta.
Indian Chemical & Therapeutical Works, Ltd.—68, Barrackpore Trunk Road, Calcutta 2.
India Chemico Mineral Industries.—188, Manicktolla Main Road, Calcutta.
India Drug Laboratory.—P-7, Beliaghata Main Road, Calcutta 10.
Indian Chemical Institute.—100/A, Grey Street, Calcutta.
Indian Chemical & Pharmaceutical Works Ltd.—9, Barrackpore Trunk Road, Cossipore, Calcutta 3.
Indian Chemical & Pharmaceutical Institute.—59-J, Garper Road, Calcutta.
Indian Health Institute & Laboratory Ltd.—1, Garandanga Road, Dum Dum Cantt., Calcutta 28.
Indian Medical Laboratory Ltd.—44, Badur Began St., Calcutta 9.

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Indian Medical Supply Laboratory Ltd.—5, India Exchange Place, Calcutta 1.
Indian Mineral Industries Ltd.—22-1 & 22C, Dum Dum Road, Calcutta 2.
Indian National Drug Co. Ltd.—5/2, Beliaghata Main Road, Calcutta 10.
Indian Oxygen Ltd.—48-1, Diamond Harbour Road, Calcutta 27.
Indian Overseas Drug House Ltd.—19/1, Radhanath Mallick Lane, Calcutta.
Indian Pharmaceutical Works.—13, Upper Circular Road, Calcutta 9.
Indian Research Institute Ltd.—3, Rustomjee Parsee Road, Cossipore, Calcutta.
Indian Research Laboratories.—16, Belgachia Road, Calcutta 4.
Indian Research Laboratories Ltd.—37/7A, Khelat Babu Lane, Calcutta.
Indian Scientific Industries.—2/2-P1, Upper Chitpore Road, Calcutta.
Indo-British Chemical Co.—32-2, Murari Pookur Road, Calcutta 4.
Indo-European Agency Pvt. Ltd.—67, Ezra Street, Calcutta.
Industrial & Chemical Laboratory.—5-3, Harinath Nayaratna Lane, Sibpur, Howrah.
Industrial Chemicals Corpn.—22, Swallow Lane, Calcutta.
Industrial Gases Ltd.—138, Canning Street, Calcutta.
International Chemical Industries.—Jadavpur, Calcutta 32.
INTERNATIONAL DRUG & CHEMICALS CO.—55-104, Canning Street, Calcutta 1.
International Remedies, Ltd.—8-A, Rajendra Lal Street, Calcutta 6.
Ivy Chemical & Industrial Works.—94, Vaskarpara Road, P.O. Ghusuri, Howrah.
Jagabandhur Chemical Works Ltd.—2, Ram Krishna Lane, Calcutta 3.
Jatiya Ayurvediya Aushadhalaya.—42, South End Park, Calcutta 29.
Jay Shree Chemicals & Fertilizers.—8, India Exchange Place, Calcutta 1.
Jewel of India Perfume Co.—Cocola House, Behala, Calcutta 34.
Kalpataru Ayurvedic Works.—223, Chittaranjan Avenue, Calcutta 6.
Kema Products Ltd.—3A/4, Ram Ratan Bose Lane, Calcutta.
Krishna Laboratories.—14/1, Sri Gopal Mallick Lane, Calcutta.
Kemp & Co. Ltd.—21, Old Court House Street, Calcutta.
LABORATOIRES GRIMAULT (PRIVATE) LTD.—40/B, Prinsep Street, Calcutta 13.
Lily Chemical Works.—3, Ramakanta Sen Lane, Calcutta 4.
Lion Chemical Works.—141/T/1B, South Sinthee Road, Cossipore, Calcutta 2.
Loknath Chemical Works.—31/1, The Mall Dum Dum, Calcutta 28.
Lyndon Chemical Industries Ltd.—4, Rifle Road, Park Circus, Calcutta 17.
Mahalaxmi Industries.—11/2/1, Panchanantala Lane, P.O. Bowbazar, Calcutta 12.
Mandoss Drugs Ltd.—221-2, Strand Bank Road, Calcutta.
Malixion Chemical Works.—6-J, Kavatola Road, Calcutta 29.
Martin & Harris Pvt. Ltd.—Mercantile Bldg., Lall Bazar, Calcutta 1.
May & Baker (India) Ltd.—7, Old Court House Street, Calcutta.
M. C. G. P. Works.—21B, Nivedita Lane, Baghbazar, Calcutta 3.
Medical Health Institute Ltd.—82, Harrison St., Calcutta 9.
Medico Products Ltd.—5, Bonfield Lane, Calcutta.
Mendina Pharmaceutical Works.—34, Alipore Road, Calcutta 27.
Metropolitan Chemical Industries Ltd.—56, Christopher Road, Calcutta 14.
Metropolitan Drug House Pvt. Ltd.—55/125, Canning Street, Calcutta 1.
Mill Ford Biochemical Industries Ltd.—89, Chowringhee Road, Calcutta.
Mira Perfumery & Chemical Works.—69, Nimtolla Ghat Street, Calcutta.
Mira Pharmaceutical & Synthetic Drugs.—Calcutta 33.
MODERN SCIENTIFIC EQUIPMENT CO.—36, Brabourne Road, Calcutta 1. Phone : 22-5972. Grams : "MOSEQUIP" —Calcutta.
Mownie Drug House.—20-17, Iswar Ganguly Lane, Kalighat, Calcutta 26.
Mumtaz & Co.,—H. 11, Swinhoe Lane, Ballygunge, Calcutta 19.
Nadia Chemical Works Pvt. Ltd.—C-44 to 46, College St. Market, Calcutta 12.
Nag Chemical Industries.—4, Mandeville Gardens, Ballygunge, Calcutta 19.
Nandy & Co.—52, Sambhunath Pandit St., Calcutta 25.
National Carbon Co. (India) Ltd.—P-17, Mission Row Extn., Calcutta.
National Chemical Industries Co.—124, Harrison Road, Jalan House, Calcutta 7.
National Chemical & Pharmaceutical Works.—4, Narkelbagan Lane, Calcutta.
National Chemical & Salt Works (India) Ltd.—5, Commercial Bldgs., Netaji Subhas Road, Calcutta.
National Medicine Mfg. Co.—19, Banstola Lane, Calcutta 7.
National Pure Drugs (I) Ltd.—4/1, Ultadanga Main Road, Calcutta.
Neovit Laboratories Ltd.—9-B, Shahnagar Road, Kalighat, Calcutta 26.
Nestle's Products (I) Ltd.—7, Hare Street, Calcutta.
New India Acids & Chemicals.—25-C, Panchanantola Lane, Calcutta 12.
New India Chemical Co. & Pharmaceutical Works.—29, Burtolla St., Calcutta.
New Research & Chemical Industries Ltd.—26, Ram Kamal Sen Lane, Calcutta.
New Standard Barley Mfg. Co.—105, Cotton Street, Calcutta 7.
Niru Veena Corporation.—55, Canning Street, Calcutta.
Nivea Pharmaceuticals Ltd.—Clive Buildings, Calcutta 1.
Nu-way Mfg. Co.—6, Syed Amirali Avenue, Park Circus, Calcutta 17.
Odhavji Devidas & Co. P. Ltd.—9, Armenian Street, Calcutta.
Oriental Research & Chemical Laboratory Ltd.—Qumaresh House, Salkia, Howrah.
Oriental Research & Chemical Laboratory Ltd.—61, Hurroganj Road, Calcutta.
OSTER CHEMICAL & PHARMACEUTICAL WORKS PRIVATE LTD.—78-B, Manicktolla Street, Calcutta 6. Chemical & Pharmaceutical Products Manufacturers. Managing Director : Dr. B. N. Dutta, M.Sc., Ph.D., F.I.C.
Pasteur Laboratories Pvt. Ltd.—2, Cornwallis Street, Calcutta 6.
Pearl Chemical Industries Pvt. Ltd.—2, Bonomali Chatterjee Street, Calcutta 2.
People's Research Laboratories Ltd.—1, Sura East Road, Calcutta.
Pharma Chemical International Ltd.—4, Kaloo Ghose Lane, Calcutta.
Phosphate Co. Ltd.—14, Netaji Subhas Road, Calcutta.
Phoenix Chemical Laboratories Ltd.—1, Amrit Lal Dawn Road, Barnagore, Calcutta.
Phoenix Drug House Ltd.—10, Bonfield Lane, Calcutta.
Pioneer Drug & Chemical Works Ltd.—3C, Baldeopara Road, Calcutta.
Pioneer Industrial Syndicate.—67, Ezra Street, Calcutta.
P. K. Sen's Drugs & Chemical Works.—105-1, Ultadanga Main Rd., Calcutta 4.
Primco Ltd.—P-39, Mission Row Extension, Calcutta.
President Chemical Works.—49, Karbala Tank Lane, Calcutta 6.
Puspita Industries.—56, South End Park, Calcutta 29.
Radha Chemical Co. Ltd.—3, Synagogue Street, Calcutta 1.
Rajvaidya Ayurveda Works.—172, Bowbazar Street, Calcutta 12.
Rasayana Shipa Ltd.—97, Victoria Road, Barnagore, Calcutta.
Ratan Perfumery Works.—Karasdanga, Hooghly.
Rays Laboratories Pvt. Ltd.—114, Ashutosh Mukherjee Road, Calcutta 25.
Regalin Laboratories Ltd.—11, Ghosh Lane, Calcutta 12.
Release Reliance Research Ltd.—12-B, Balaram Bose Ghat Road, Calcutta.
Reno Chemical Works.—139/2, Rusa Road, Calcutta.
Renuka Chemical Works.—153/1, Radhabazar Street, Calcutta.
Research Industries Ltd.—9, Dharamtolla Street, Calcutta 13.
Sahu Chemicals.—11, Clive Row, Calcutta 1.
Sakti Chemical Works.—10-11, Upper Circular Road, Calcutta.
Sandoz Products Ltd.—P-117, Saklat Place, P.O. Box 491, Calcutta.
Sarkar Gupta & Co. Pvt. Ltd.—154-1, Mahendra Bhattacharjee Rd., Howrah.
Scientific Indian Research Institute.—22/1/1, Jaliatola St., Calcutta.
Scientific Supplies (Bengal) Co.—C-37 & 38, Coole St. Market, Calcutta 12.
Scientific Research Association.—32, Scott Lane, Calcutta.
Seller, L. H.—P.O. B. No. 293, Calcutta.
Sen, C. K. & Co. Ltd.—Jabakusum House, 34, Chittaranjan Avenue, Calcutta.
Sen, Kaviraj M. N. & Co. (P) Ltd.—18-1 & 19, Lower Circular Road, Calcutta 1.
Sen O. K. & Co., Pvt. Ltd.—Jabakusum House, 34, Chittaranjan Avenue, Calcutta 12.
Sen's P. K. Drugs & Chemical Works.—105-1, Ultadanga Main Rd., Calcutta 4.
Senco Laboratories.—10/1B, Swinhoe Street, Calcutta.
Serochemic (I) Laboratories.—7, Bhutnath Paul Road, Dum Dum, Calcutta.
Seth Chemical Works.—160, Jamunalal Bajaj Street, Calcutta 7.
Seven Chemical & Pharmaceutical Works Ltd.—302/1, Upper Circular Road, Calcutta.
Shalimar Chemical Works Pvt. Ltd.—Calcutta 27.
Shalimar Tar Products Ltd.—6, Lyons Range, Calcutta 1.
Shaw Wallace & Co.—Fertilisers Dept., 4, Bankshall St., P.B. No. 70, Calcutta.
Sisir Chemical Works.—2/1B, Nirode Behari Mallick Street, Calcutta.
Smith Stanistreet & Co. Ltd.—18, Convent Road, Entally, Calcutta 14.
Solmint Ltd.—4, Ram Ratan Bose Lane, Calcutta.
Soreline Chemical Works.—12, Hazi Zakaria Lane, Calcutta.
Sree Drug Chemical Works.—8, Patwar Bhagan Lane, Calcutta.
Srinath Chemical Ltd.—249, Bowbazar St., Calcutta 12.
Stadco Stores & Laboratories Ltd.—57/1/1A, Raja Dinendra St., Calcutta 6.
Stadmed Ltd.—15, Jawpure Road, Calcutta 30.
Standard Chemical Industries.—378, G. T. Road, North, P.O. Belur Math, Howrah.
Standard Chemical & Pharmaceutical Works.—1, Jawar Lal Dutta Lane, Calcutta 4.
Standard Industrial & Chemical Corpn. Ltd.—24, Chittaranjan Avenue, Calcutta 12.

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STANDARD PHARMACEUTICAL WORKS LTD.—67, Dr. Suresh Sarkar Road, Calcutta 14. Grams: "VINTONE." Phone: 44-5201. Branches: Gauhati, Lucknow, Madras, Palghat, Bangalore, Hyderabad and Siliguri. Manufacturers of Antibiotics, Specialities—Patents & Pharmaceutical Preparations.

Standard Products Ltd.—67, Dr. Suresh Sarkar Road, Entally, Calcutta.
Sterling Pharmaceutical Products Co. Ltd.—72-2, Sambhunath Pandit Street, Calcutta 25.
Super Drugs Ltd.—258-A, Upper Circular Road, Calcutta 6.
Swaika Oil Mills.—18-B, Brabourne Road, Calcutta 1.
Swan Laboratories (I) Ltd.—21/A, Chore Bazar Lane, Calcutta.
Swandent (Eastern) Ltd.—Post Box 712, Calcutta 12.
Technico Enterprises P. Ltd.—Swallow Lane, Calcutta.
Tropical Chemical Works.—25, Indra Biswas Road, Calcutta 37.
Tropical Drug Works.—1-6, Fakir Chakrabarthy Lane, Calcutta 6.
Tropical Laboratories.—2, Ram Chandra Das Road, Calcutta.
Union Carbide India Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta 1.
Union Drug Co. Ltd.—285, Bowbazar Street, Calcutta 12.
Universal Chemical Works.—34, Muraripukur Road, Ultadanga, Calcutta 4.
Universal Drug House (P) Ltd.—10, Bonfield Row, Calcutta 1.
Vax Institute Laboratory Ltd.—13, Kritybash Mukherjee Road, Calcutta 4.
Vitamin Laboratories.—16/2, Mahendra Bose Lane, Calcutta.
Waldie, D. & Co. Ltd.—Gillander House, Netaji Subhas Road, Ultadanga, Calcutta 1.
Waldies Zinc Pigments Pvt. Ltd.—Gillander House, Calcutta. 1.
Walford Chemical & Pharmaceutical Works.—9, Clive Road, Calcutta.
Wasserman Institute (Laboratory) Ltd.—50, Cornwallis Street, Calcutta.

CHEMICAL MERCHANTS

A. Natarajan.—71, Ganesh Chandra Avenue, Calcutta.
Allied Agency.—16, Bonfield Lane, Calcutta.
Anand Overseas Co.—32, Armenian Street, Calcutta.
Arun Importers Pvt. Ltd.—5, Pollock Street, Calcutta.
Ashok Exporters & Importers.—4, Bhawani Dutta Lane, Calcutta.
Asian Traders.—22, Bonfield Lane, Calcutta 1.
Associated Agencies Co.—P-11, New Howrah Bridge Approach Road, Calcutta.
B. R. Harman & Mohatta (India).—19, British Indian Street, Calcutta.
Babulal Santhalia.—48, Canning Street, Calcutta.
Badriprasad Satyanarain.—89/8, Lower Chitpur Road, Calcutta.
Ballabram Badrinarain.—135, Canning Street, Calcutta.
Banshidar Purshottamdas.—178, Mahatma Gandhi Road, Calcutta 7.
Basant Brothers.—3, Amratolla Street, Calcutta.
Bejaya Glass Depot.—4, Jackson Lane, Calcutta.
Bengal Corpn: Ltd.—14, Netaji Subhas Road, Calcutta.
Bengal Mineral Supply Co.—71/A, Netaji Subhas Road, Calcutta.
Bengal Scientific & Chemical Supply Co.—100, Keshab Chandra Sen Street, Calcutta.
Berlia Trading Co.—2, Doyehatta Street, Calcutta.
Bhagwandass Puranmal.—4, Narain Babu Lane, Calcutta.
Bharat Export & Import Co.—6, Karbala Mohammed Street, Calcutta.
Bharat Commercial Agency.—12, New Howrah Bridge Approach Road, Calcutta.
Bharat Import Agency.—167, Old China Bazar Street, Calcutta.
Bharat Laxmi Trading Co. (P) Ltd.—278, Chittaranjan Avenue, Calcutta.
Bharat Tubewell Co. Ltd.—118-A, Chittaranjan Avenue, Calcutta.
Bharmal Champalal.—26/4, Armenian Street, Calcutta 1.
Bhimsain Sunder ain.—14, Amratolla Street, Calcutta.
Bhotica Traders P. Ltd.—208, Cross Street, Calcutta.
Bhudarmal Ramchander.—122, Cotton Street, Calcutta 7.
Bhuta & Co.—8/B, Amratolla Street, Calcutta.
Biyani & Sons P. Ltd.—137, Canning Street, Calcutta.
Bombay Textiles.—178, M. Gandhi Road, Calcutta 7.
C. A. Mohammad.—26, Brabourne Road, Calcutta.
Calcutta Traders Co.—28, Amratolla Street, Calcutta.
Calcutta Trading Corpn.—12, Lower Chitpur Road, Calcutta.
Capco Private Ltd.—14, Netaji Subhas Road, Calcutta.
Champalal Kajaria.—53, Munshi Saddrudin Lane, Calcutta.
Chemi Colour Agency.—12, Bonfield Lane, Calcutta.
Chemical & Commercial Industry.—39A, Armenian Street, Calcutta.
Chemical & Solvents Ltd.—27/29, Brabourne Road, Calcutta.
Chemical Importers & Distributors (P) Ltd.—21/22, Radhabazar Street, Calcutta.
Chemical Trading Co.—72, Canning Street, Calcutta.
Chunilal Radheshyam.—22, Amratolla Street, Calcutta.
Continental Trading Agency.—P-27, Prinsep Street, Calcutta 13.
Dalchand Omprakash.—4, Narayan Prasad Babu Lane, Calcutta 7.
Dass & Co. (India) Ltd.—43, Dharamtolla Street, Calcutta.
Dhudarmall Ramchander.—122, Cotton Street, Calcutta.
Dilsukhrai Hanumandass.—9, Bonfield Lane, Calcutta.
Dilsukhrai Krishna Kumar.—22, Bonfield Lane, Calcutta.
Dungarmal Taparia.—4, Bhawani Dutta Lane, Calcutta 7.
Durgaprasad Jagdishprasad.—7, Hastings Street, Calcutta.
Eagle Brothers.—32, Armenian Street, Calcutta.
Eastern Industrial Corpn.—142/1, Radhabazar Street, Calcutta 1.
Fazlehusain & Bros.—44, Armenian Street, Calcutta 1.
F. E. Sachee & Co.—54/1, Canning Street, Calcutta.
Garg & Sons.—138, Canning Street, Calcutta.
Gemica Traders.—A 208-71, Canning Street, Calcutta.
Ghasiram Laxminarayan.—15, Portuguese Church Street, Calcutta.
Ghoneshamdas Jwalaprasad.—40, Strand Road, Calcutta.
Ghoneshamdass Tulsiram.—22, Raja Woodmunt Street, Calcutta.
Gopiram Onkarmal.—208, Cross Street, Calcutta.
Great Indian Mercantile Co. (P) Ltd.—278, Chittaranjan Avenue, Calcutta.
Gulabroy Mahadeo.—178, Mahatma Gandhi Road, Calcutta.

H. NAGINDAS & CO.—55/125, Canning Street, Calcutta 1.

Hanuman Commercial Corpn.—Post Box No. 6819, 9, Bonfield Lane, Calcutta.
Harkisandas & Co.—9, Amratolla Street, Calcutta.
Hatim & Co.—P-39, Mission Row Extension, Calcutta.
Hind Supply Co.—48, Canning Street, Calcutta.

HIND TRADERS.—171/1, Jogendranath Mukherjee Road, Salkia (Howrah). Exporters, Importers, Stockists of all grades of Rosin, Turpentine and Chemicals.

Hindusthan Chemical & Industry Corpn.—22, Swallow Lane, Calcutta.

HINDUSTHAN INDUSTRIAL CORPORATION.—1-A, S. N. Banerjee Road, Calcutta 13. Phones: 23-1350, 23-6620. Grams: "CINERAYS." Stockists of Chemicals and Solvents.

Hiralall Kajaria.—157, Chittaranjan Avenue, Calcutta.
Hope Prudhomme & Co. Ltd.—7, Wellesley Place, Calcutta.
H. S. Das.—104/1, Serpentine Lane, Calcutta 14.
India Selling Organisation Ltd.—8, Brojodayal Shaw Road, Calcutta.

IND COM. LTD.—P-16, Kalakar Street, Calcutta 7. Dealers of all quality china clay, specially snow-white clay—the best and whitest clay for textile mills.

Indo-European Agency Ltd.—67, Ezra Street, Calcutta.
Industrial Chemical Corporation, 22, Brabourne Road, Calcutta 1.
Industrial Importers (P) Ltd.—R. No. 49, 4, Dalhousie Square East, Calcutta.
International Trading Co.—28, Old China Bazar Street, Calcutta.
Jackaria Oosman & Co.—4, Rajmohan Street, Calcutta 1.
Jagannath Bajranglall.—32, Armenian Street, Calcutta.
Jagannath Jeetmal.—37, Armenian Street, Calcutta.
Jagadishprasad Pannalal & Co. Ltd.—27, Amratolla Street, Calcutta.
Jai Hind Supply Co. (P) Ltd.—48, Canning Street, Calcutta.
Jainarayan Nagarmall.—19, Mallick Street, Calcutta.

JAMNADAS & BROS. PRIVATE LTD.—55/58, Canning Street, Calcutta 1.

Jankidas Ramgopal.—48, Canning Street, Calcutta.
Jayantilal Jagdish Prasad.—117, Canning Street, Calcutta 1.
Jayshree Importers.—18, Amratolla Street, Calcutta.
Jiwanlal Taparia.—37, Armenian Street, Calcutta 1.
Jiwraj Heeralall & Co.—26/1, Armenian Street, Calcutta.
Jnanendra Lal Sircar.—19/1, Mathur Sen Garden Lane, Calcutta.
K. C. Dang.—2/A, Amratolla Lane, Calcutta.
K. D. More & Co.—43/44, Cotton Street, Calcutta.
Kajaria Sons Ltd.—32, Armenian Street, Calcutta.
Kanji Savaji Parekh (Calcutta) P. Ltd.—55, Canning Street, Calcutta.
Kedarnath Hulash Chand.—40-A, Armenian Street, Calcutta.
Khandelwal Bros. (P) Ltd.—33, Netaji Subhas Road, Calcutta.
Khaitan Brothers P. Ltd.—24, Netaji Subhas Road, Calcutta.
Kheria Brothers.—5, Chaitan Sett Street, Calcutta.
Khubchand Baijnath.—77, Netaji Subhas Road, Calcutta.
Kishanlal Purushotamdas.—32, Ezra Street, Calcutta.
Lachhminarayan Ramjiwan.—13, Portuguese Church Street, Calcutta.
M. R. Zaki.—5, Pollock Street, Calcutta.
Mahabir Prasad Sitaram.—19, Mullick Street, Calcutta.
Mahadeo Prosad Dhandhania.—132, Cotton Street, Calcutta.
Mahadeo Ramkumar.—56, Sir Hariram Goenka Street, Calcutta.
Mangaldas Dwarkadas.—12, Portuguese Church Street, Calcutta.
Mansukhray Hazarimall.—201, Mahatma Gandhi Road, Calcutta.
Manoharlall & Co.—19, Mullick Street, Calcutta.
Merchants & Traders Ltd.—32, Armenian Street, Calcutta.
Milk Trading Co.—71, Canning Street, Calcutta.
Moda Brothers.—15, Sovaram Bysack Street, Calcutta.
Mohanlal Chandravan.—32, Armenian Street, Calcutta.
Mohatta Brothers.—19, British Indian Street, Calcutta.
Mohamed Ebrahim Mohamed Jaffer & Co.—16, Amratolla Lane, Calcutta.
Mohamed Noon Mohamed P. Ltd.—5, Pollock Street, Calcutta.
Monoharlal Mahabirprasad.—178, M. Gandhi Road, Calcutta 7.
Mulchand Marwari.—57, Saraju Sen Road, Alambazar, Calcutta 35.
Murlidhar Jaipuria.—30-A, Raja Nabo Kissen Street, Calcutta 5.
N. Manseta & Bros. (Cal.).—G. P. O. Box No. 885, Calcutta.
N. N. Biswas & Sons.—19, British Indian Street, Calcutta.

NARANDAS PARMANANDAS.—37, Armenian Street, Calcutta. Chemical Merchants & Manufacturers of Dyestuffs Auxiliaries.

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Narsingdas Biswanath.—3, Amratolla Street, Calcutta.
New India Traders Corpn.—71, Canning Street, Calcutta.
Nikunj Traders.—49, Muktaram Babu Street, Calcutta.
Odhavji Devidas & Co. (P) Ltd.—9, Armenian Street, Calcutta.
Oriental & Occidental Trading Co.—30, Brabourne Road, Calcutta.
Oswal Co. (P) Ltd.—14/2, Old China Bazar Street, Calcutta.
P. Vrajlal Dulabhdas & Co.—22, Brabourne Road, Calcutta.
Pannalall Kishanlall.—18, Amratolla Street, Calcutta.
Parasramka Commercial Co. Pvt. Ltd.—207, Mahatma Gandhi Road, Calcutta.
Parekh Brothers.—1, Portuguese Church Street, Calcutta.
Paul Chemicals Co.—19B, Pottery Road, Calcutta.
Pioneer Chemical Corpn.—P119, Ganesh Chandra Avenue, Calcutta.
Pioneer Industrial Syndicate.—67, Ezra Street, Calcutta 1.
Pokarmal Gurdhayal.—208, Cross Street, Calcutta.
Pranlal Bhagwanji.—10/1, Portuguese Church Street, Calcutta.
Purshottamdass & Co.—4, Doyahatta Street, Calcutta.
Radheshyam Sushilkumar.—48, Canal West Road, Calcutta.
R. K. Santosh.—C/o B. K. Shroff, A.C.A., 155, Chittaranjan Avenue, Calcutta.
R. Tibrewala & Co.—26/1, Armenian Street, Calcutta.
S. B. Poddar & Co.—178, Mahatma Gandhi Road, Calcutta.
S. Kushalchand & Co.—167, Old China Bazar Street, Calcutta.
Santosh Brothers.—28, Armenian Street, Calcutta.
Shamde Govindram.—208, Cross Street, Calcutta.
Sheobhagwan Gajedar.—113, Manohardas Katra, Calcutta.
Shewbuxrai Onkarmall.—26, Burtolla Street, Calcutta.
Shewbuxrai Rameshwarlal.—26, Burtolla Street, Calcutta.
Shivadas Jethmall.—37, Armenian Street, Calcutta.
Shyamsundar Srilal.—135/B, Muktaram Babu Street, Calcutta.
Sohanlal Mohanlal.—5, Lucas Lane, Calcutta.
Soorajmull Nagarmull.—8, Dalhousie Square East, Calcutta.
Sovan & Co.—32, Armenian Street, Calcutta.
Spices (India) Ltd.—10, Amratolla Street, Calcutta.
Srikant & Co.—34, Burtolla Street, Calcutta.
Surajmull Murlidhar.—28, Amratolla Street, Calcutta.
Surendra Overseas (P) Ltd.—135, Canning Street, Calcutta.
Tarachand Agarwalla.—208, Cross Street, Calcutta.
Tolasaria & Co.—12, Sir Hariram Goenka Street, Calcutta.
United Chemical & Hardware Agency.—27/29, Brabourne Road, Calcutta.
United Drug & Chemical Co.—16, Bonfield Lane, Calcutta.
Universal Trading Co.—71, Canning Street, Calcutta.
Vachharaj Nemchand & Co.—10, Portuguese Church Street, Calcutta.
Vasant Corpn. Ltd.—28, Amratolla Street, Calcutta.
Victor Commercial Co.—44/45, Ezra Street, Calcutta 1.
West Bengal Supply Agency.—35, Armenian Street, Calcutta.

CHEMICALS IMPORTERS & DEALERS

DATTAS INDIA PRIVATE LTD.—24, Strand Road, Calcutta 1.

INDUSTRIAL CHEMICALS CORPORATION.—22, Brabourne Road, Calcutta 1.

CHEMISTS & DRUGGISTS

A. S. Kantha & Co.—44/45, Ezra Street, Calcutta 1.
A. V. Stores.—449, G. T. Road, P.O. Belur Math, Howrah Dist.
Advani Private Ltd.—3D, Garstin Place, Calcutta 1.
Ajodhya Prosad & Mitra Co.—14, Pollock Street, Calcutta 1.
Alanga Medical Hall.—53, Jatindra Mohan Avenue, Calcutta 5.
Alembic Distributors Ltd.—71, Canning Street, Calcutta 1.
Amava.—2/1, Cornwallis Street, Calcutta 6.
Amesco.—181/A, Chittaranjan Avenue, Calcutta 12.
Amin & Ismail P. Ltd.—80, Colootola Street, Calcutta 1.
Amulya Stores.—71, Canning Street, Bagree Market, Calcutta 1.
Anand Medicine Co.—80, Colootola Street, Calcutta 1.
Antibiotic Stores.—55/107, Canning Street, Calcutta 1.
Anusilan Medical Hall.—44/45, Ezra Street, Calcutta 1.
Arora & Sons.—44/45, Ezra Street, Calcutta 1.
Ashoke Medical Emporium.—55/17, Canning Street, Calcutta 1.
Aslam & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Associated Dental & Medical Supply Co.—4, Madan Street, Calcutta 13.
Associated Importers.—55/45, Canning Street, Calcutta 1.
B. K. Paul & Co. Pvt. Ltd.—1-3, Bonfield Lane, Calcutta 1.
B. Banerjee.—55/6, Canning Street, Calcutta 1.
B. A. & Brothers.—2 & 3, Clive Row, Calcutta 1.
B. D. Brothers.—51, Sasthitolla Road, Calcutta 11.
B. Biswas & Co.—12, Bonfield Lane, Calcutta 1.
B. Bose & Co.—M. 122, Paharpore Road, Calcutta 24.
B. Bose & Co.—46/1, Mahatma Gandhi Road, Calcutta 9.
B. C. Kundu & Co.—4B, Madan Street, Calcutta 13.
B. C. Shah & Co.—71, Room No. B/134, Canning Street, Bagree Market, Calcutta 1.
B. M. Brothers P. Ltd.—5, Bonfield Lane, Calcutta 1.
B. Nandy & Co.—55/5, Canning Street, Calcutta 1.
B. S. Medical Stores.—55/19, Canning Street, Calcutta 1.
Babulal K. Adani.—71/1, Canning Street, Bagree Market, Calcutta 1.
Bally Medical Stores.—81, G. T. Road, P.O. Bally, Howrah Dist.
Balubhai & Brothers.—50, Canning Street, Calcutta 1.
Banerjee & Co.—167, Dharamtala Street, Calcutta 13.
Basanta Medical Stores.—R. No. G-6, Bagree Market, 71, Canning Street, Calcutta 1.
Basanta Medical Hall.—3, Beliaghata Main Road, Calcutta 10.
Bengal Immunity Co. Ltd.—153, Dharamtala Street, Calcutta 13.
Bengal Medical Hall.—20, Sri Arabinda Road, Salkia, Howrah.
Bengal Medical Hall.—158, Shyama Prasad Mukherjee Road, Calcutta 26.
Bengal Medicine Mart.—71, Canning Street, R. No. D/32, Bagree Market, Calcutta.
Bengal Medical Stores.—P-21, Kalakar Street, Calcutta 7.
Bengal Traders Bureau.—7, Canning Street, Bagree Market, Calcutta 1.
Beauty Medical Stores.—71, Canning Street, Bagree Market, Calcutta.
Bhadury Pharmachy.—9, Beliaghata Road, Calcutta 15.
Bharat Laxmi Stores.—P.O. Fort Gloster, Howrah Dist.
Bharati Medical Hall.—133, Lower Circular Road, Calcutta 14.
Bharat Medical Stores.—71, Canning Street, R. No. D-27, Bagree Market, Calcutta 1.
Bharatiya Medical Stores.—55/73, Canning Street, Calcutta.
Bhattacharjee & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Bhoopee Co.—31, Lower Chitpore Road, Calcutta 1.
Bhupendra Shah & Co.—44/45, Ezra Street, Calcutta 1.
Binaco.—55/18, Canning Street, Calcutta 1.
Bipin & Co.—44/45, Ezra Street, Calcutta 1.
Bonfield Medical Stores.—2, Bonfield Lane, Calcutta 1.
Bose Brothers.—Bagnan Station Road, Howrah.
Bose & Co.—204/1, Cornwallis Street, Calcutta 6.
Bose Chowdhury & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Bose Roy & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Boson & Co.—44/45, Ezra Street, Calcutta 1.
Burman Medical Stores.—42/1, Strand Road, Calcutta 7.
C. Ringer & Co.—23, Lall Bazar Street, Calcutta 1.
C. C. Biswas & Sons.—106, Upper Circular Road, Calcutta 9.
Calcutta Medical Hall.—71C, Shyama Prasad Mukherjee Road, Calcutta.
Central Medicals P. Ltd.—63/2, Harrison Road, Calcutta 9.
Central Oplik House.—166, Bepin Behari Ganguly Street, Calcutta 12.
Chamma & Co.—55/14, Canning Street, Calcutta 1.
Chandulal & Brothers.—71, Canning Street, Shop No. D-24, Bagree Market, Calcutta 1.
Chatterjee & Co.—9A, Dr. Suresh Sarkar Road, Calcutta 14.
Chemi Colour Agency.—12, Bonfield Lane, Calcutta 1.
Chittaranjan Medical Stores.—55/21, Canning Street, Calcutta 1.
Clean & Co.—16, Bonfield Lane, Calcutta 1.
Crown Drug House.—56, Netaji Subhas Road, Calcutta 1.
Crown Medical Hall.—71, Canning Street, R. No. G-10, Bagree Market, Calcutta 1.
D. Dey & Brothers P. Ltd.—44/45, Ezra Street, Calcutta 1.
D. Jayantilal & Co.—8/2, Rupchand Roy Street, Calcutta 7.
D. N. Coondoo & Brothers.—P3, Chandney Chowk Street, Calcutta 13.
D. Popatlal & Co.—55/15, Canning Street, Calcutta 1.
Dabur (Dr. S. K. Burman) P. Ltd.—142, Rash Behari Avenue, Calcutta 29.
Dahyalal & Co.—55/70, Canning Street, Calcutta 1.
Dalichand & Brothers.—71, Canning Street, R. No. G-11, Bagree Market, Calcutta 1.
Das Brothers, P. Ltd.—115, Dharamtala Street, Calcutta 13.
Das Medical Hall.—3A/1, Old Hindusthan Bldgs., Calcutta 13.
Desh Bandhu Medical Hall.—71, Canning Street, R. No. D/28, Bagree Market, Calcutta 1.
Dey Sarcar & Co.—3, Bonfield Lane, Calcutta 1.
Dey's Medical Stores P. Ltd.—6/2B, Lindsay Street, Calcutta 16.
Dhole & Co.—Baranagar, Calcutta 35.
Digen Pharmacy.—187, Vivekananda Road, Calcutta 7.
Doshi Brothers.—16, Bonfield Lane, Calcutta 1.
Doshi Medical Stores.—173, Mahatma Gandhi Road, Calcutta 7.
Druggists Hall.—55/9, Canning Street, Calcutta 1.
Drug Hall.—128, Cornwallis Street, Calcutta 4.
Drug Stores.—1/1/2B, Hazra Road, Calcutta 26.
Dutta Brothers.—16, Bonfield Lane, Calcutta 1.
Dutt & Co.—46B, Netaji Subhas Road, Calcutta 1.
Dutta Medical Hall.—77/1, Harrison Road, Calcutta 9.
Dutta Pharmacy.—46/3, Diamond Harbour Road, Calcutta 27.
Dutta Medical Stores.—71, Canning Street, R. No. G 17/2, Bagree Market, Calcutta 1.
Dwarka Pharmacy.—333, Netaji Subhas Road, Howrah.
East Bengal Medical Stores.—39/1, Cossipore Road, Calcutta 36.
East End Co.—85, Colootola Street, Calcutta 1.
East End Medical Hall.—170, Baitakkhana Road, Calcutta 9.
East India Clinic Pharmacy.—12, Russell Street, Calcutta 16.
East India Medical Hall.—133/B, Lower Circular Road, Calcutta 14.
East India Medical Stores.—55/11, Canning Street, Calcutta 1.
Eastern Industrial Corpn.—36, Ezra Street, Calcutta 1.
Eastern Medical Hall.—93, South Sinthee Road, Calcutta 30.
Eastern Medical Syndicate.—71, Canning Street, G Block, Bagree Market, Calcutta 1.
Eastern Traders.—44/45, Ezra Street, Calcutta 1.
Economic Homeo Pharmacy.—89, Netaji Subhas Road, Calcutta 1.
Economic Stores.—71, Canning Street, R. No. G-19, Bagree Market, Calcutta 1.

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Everest Medical Emporium.—P-7, Beliaghata Main Road, Calcutta 10.

FAIRFIELD SYNDICATE AGENCY (PRIVATE) LTD.—22, Bonfield Lane, Calcutta 1.

Fairway Traders.—79, Colootola Street, Calcutta 1.
Famous Chemists.—55/80, Canning Street, Calcutta 1.
Far East Traders.—71, Canning Street, Bagree Market, Calcutta 1.
Frank Ross & Co. Ltd.—7, Chowringhee Road, Calcutta 13.
Friends & Co.—3, Bonfield Lane, Calcutta 1.
Friends Medico.—71/G2, Canning Street, Calcutta 1.
G. Dutt & Co.—16, Bonfield Lane, Calcutta 1.
G. J. Parekh & Co.—20, Pathuriaghata Street, Calcutta 6.
G. M. Stores.—44/45, Ezra Street, Calcutta 1.
Ganesh Pharmacy.—4, Kali Krishna Tagore Street, Calcutta 7.
Geeta Pharmacy.—2, Gas Street, Calcutta 9.
Ghosal & Co.—55/32, Canning Street, Calcutta 1.
Ghose & Co.—71, Canning Street, R. No. C22, Bagree Market, Calcutta 1.
Ghose Medical Syndicate.—71, Canning Street, R. No. E38, Bagree Market, Calcutta 1.
Ghosh Medical Stores.—55/9, Canning Street, Calcutta 1.
Girdharlal & Co.—55/9-10, Canning Street, Calcutta 1.
Give & Take Stores.—7A, Lindsay Street, Calcutta 16.
Globe Pharmacy.—64B, Mirzapur Street, Calcutta 9.
Gobindlal Mullick & Sons.—356/3, Upper Chitpore Road, Calcutta 6.
Gopal Medical Stores.—16, Bonfield Lane, Calcutta 1.
Goppson & Co.—R. No. E/34, 71, Canning Street, Bagree Market, Calcutta 1.
Gouristankar & Co.—37/C, Kalakar Street, Calcutta 7.
Goswami Medical Stores.—55/22/1, Canning Street, Calcutta 1.
Great Eastern Medical Stores.—71, Canning Street, R. No. E32, Bagree Market, Calcutta 1.
Guha Pharmacy.—Bijoygarh, Jadavpur, Calcutta 32.
Gupta's Medical Stores.—97, G. T. Road, Howrah.
H. Bhattacharyya & Sons P. Ltd.—83, Netaji Subhas Road, Calcutta 1.
H. Das & Co.—16, Pollock Street, Calcutta 1.
H. Laxmi Trading Co.—71, Canning Street, R. No. D-120, Bagree Market, Calcutta 1.
H. Md. Siddiq & Co.—13/17, Colootola Street, Calcutta 1.
H. Nagindas & Co.—55/125, Canning Street, Calcutta 1.
Hazra Medical Stores.—446/2, G. T. Road, Howrah.
Hind Pharmaceutical Distributors.—167, Old China Bazar Street, Calcutta 1.
Hindustan Medical Syndicate.—55/82, Canning Street, Calcutta 1.
Howrah Medical Stores.—3, Ramkrishnapur Ghat Road, Howrah.
Ideal Pharmacy.—39/2, Cossipore Road, Calcutta 36.
Indian Medical Stores.—22, Bonfield Lane, Calcutta 1.
Indo-European Agency P. Ltd.—67, Ezra Street, Calcutta 1.
Indo-International Commercial Corpn. P. Ltd.—8B, Kankulia Road, Calcutta 19.
Indra Medical Stores.—55/61, Canning Street, Calcutta 1.
International Dental House.—1, Chittaranjan Avenue, Calcutta 13.
International Drug & Chemical Co.—55/104, Canning Street, Calcutta 1.
Ivy & Co. P. Ltd.—101, Vivekananda Road, Calcutta 6.
J. B. Dastoor & Co.—28, Grant Street, Calcutta 13.
J. Chaki & Co.—44/45, Ezra Street, Calcutta 1.
Jagabandhu Pharmacy.—36, Manicktola Main Road, Calcutta 11.
Jamnadas & Brothers Pvt. Ltd.—55/58, Canning Street, Calcutta 1.
Janaki Nath Pharmacy.—102, Belgachia Road, Calcutta 4.
Janata Medical Service.—55/87, Canning Street, Calcutta 1.
Janata Pharmacy.—9, Beliaghata Road, Calcutta 15.
Janata Pharmacy.—41, Eden Hospital Road, Calcutta 12.
Jatindra Pharmacy.—Kalshapa Bazar, Fuleswar, Howrah.
Joysarala Drug House.—45, Watganj Street, Calcutta 23.
Joytara Pharmacy.—150B, Upper Circular Road, Calcutta 6.
Jugal & Co.—46B, Netaji Subhas Road, Calcutta 1.
Jyotsna Pharmacy.—73, Narkeldanga Main Road, Calcutta 1.
K. Das & Co.—55/51, Canning Street, Calcutta 1.
K. Madhusudan & Co.—14/2, Old China Bazar Street, Calcutta 1.
K. R. Bose & Co.—85/83, Netaji Subhas Road, Calcutta 1.
Kalika Pharmacy.—255, Upper Circular Road, Calcutta 6.
Kamala Medical Stores.—71, Canning Street, Shop No. D-30, Bagree Market, Calcutta 1.
Kamala Stores.—Mehta Bldgs., 55/75, Canning Street, Calcutta 1.
Kamani Brothers.—71, Canning Street, Shop No. G-1, Bagree Market, Calcutta 1.
Kamdar Brothers.—57, Canning Street, Calcutta 1.
Kanak Medical Hall.—134, Raja Rajendra Lal Mitra Road, Calcutta 10.
Kanji Pannachand P. Ltd.—33, Armenian Street, Calcutta 1.
Kanji Shavji Parekh P. Ltd.—55, Canning Street, Calcutta 1.
Kanti Stores.—71, Canning Street, R. No. H-34, Bagree Market, Calcutta 1.
Keshav & Co. P. Ltd.—394, Upper Chitpore Road, Calcutta 7.
Kundoo Brothers & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Kundoo Pharmacy.—104, Rash Behari Avenue, Calcutta 29.
L. M. Mookherjee & Sons P. Ltd.—167, Dharamtala Street, Calcutta 13.
Lakhani Brothers.—55/60, Canning Street, Calcutta 1.
Lansdowne Medical Hall.—63/1A, Lansdowne Road, Calcutta 25.
Liladhar Hirachand.—55/6, Canning Street, Calcutta 1.
Little Medical Stores.—19, Synagogue Street, Calcutta 1.
Lucky Traders.—71, Canning Street, Shop No. G-12, Bagree Market, Calcutta 1.
M. Bhattacharyya & Co.—85, Netaji Subhas Road, Calcutta 1.
M. Bhattacharyya & Co.—203, Cornwallis Street, Calcutta 6.
M. Dharshibhoy.—55/106, Canning Street, Calcutta 1.
M. G. Shahani & Co. P. Ltd.—3, Chittaranjan Avenue, Calcutta 13.
M. Tilak & Co.—48, Ezra Street, Calcutta 1.
Madhav & Co.—4, Vivekananda Road, Calcutta 7.
Mahatma & Sons.—71, Canning Street, Bagree Market, Calcutta 1.
Mahatma & Co.—76, Upper Chitpore Road, Calcutta 7.
Mahamaya Pharmacy.—41, Harrison Road, Calcutta 9.
Mahesh Pharmacy.—P. 52, B. K. Paul Avenue, Calcutta 5.
Mansukhlal Brothers.—71, Canning Street, R. No. C-218, Bagree Market, Calcutta 1.
Mansukhlal Tribhubandas & Co.—44/45, Ezra Street, Calcutta 1.
Mayer Pharmacy.—168A, Sarat Bose Road, Calcutta 29.
Mayfair & Co.—72/C, Ashutosh Mukherjee Road, Calcutta 25.
Mazumdar Pharmacy.—47, South Tangra Road, Calcutta 39.
Medicos.—13, Vivekananda Road, Calcutta 7.
Medicos (I) P. Ltd.—79, Stephen House, 4, Dalhousie Square East, Calcutta.
Medical Stores.—122/1, Upper Circular Road, Calcutta 6.
Medical Syndicate.—71, Canning Street, Bagree Market, Calcutta 1.
Medical Supply Syndicate.—55/138, Canning Street, Calcutta 1.
Mehta Brothers.—55/85A, Canning Street, Calcutta 1.
Metropolitan Medical Stores P. Ltd.—7, Chowringhee Road, Calcutta 13.
Mondal's Cure Home.—98, Diamond Harbour Road, Kidderpore, Calcutta.
Mukherjee & Sons.—3, Ezra Street, Calcutta 1.
Mukherjee & Co.—55/18, Canning Street, Calcutta 1.
Mukta Pharmacy.—33, Pipe Road, Calcutta 23.
Mulji Mehta & Sons.—55/56, Canning Street, Calcutta 1.
Mullick Medical Stores.—31, Lower Chitpur Road, Calcutta 1.
N. B. Ghose & Co.—44/45, Ezra Street, Calcutta 1.
Naba Durga Medical Stores.—71, Canning Street, R. No.G-5, Bagree Market, Calcutta 1.
Nagen Pharmacy.—166, Bowbazar Street, Calcutta 12.
Narendra & Co.—25A, Meher Ali Mandal Street, Calcutta 27.
National Medical Stores.—85, Netaji Subhas Road, Calcutta 1.
National Pharmacy.—30/B, Hazra Road, Calcutta 26.
National Pharmacy.—32, Ashutosh Mukherjee Road, Calcutta 25.
Netaji Medical Stores.—71, Canning Street, R. No. C-34, Bagree Market, Calcutta 1.
New Indian Medical Stores.—55/76, Canning Street, Calcutta 1.
New Ideal Pharmacy.—12, Suraja Sen Road, Alambazar, Calcutta 35.
New Janata Medical Hall.—130/1, Circular Garden Reach Road, Calcutta 23.
New Modern Pharmacy.—74, Beliaghata Main Road, Calcutta 10.
New Oriental Stores.—55/124, Canning Street, Calcutta 1.
New Sankar Medical Stores.—44/45, Ezra Street, Calcutta 1.
Newatia Trading Co.—185, M. Gandhi Road, Calcutta 7.
Niru-Veena Corpn.—55, Canning Street, R. No.G-14, Bagree Market, Calcutta 1.
Nobel Medical Hall.—59, Rash Behari Avenue, Calcutta 26.
North Clinic.—39, Cossipore Road, Calcutta 36.
Oriental Druggists.—55/71, Canning Street, Calcutta 1.
Oriental Traders.—71, Canning Street, R. No. G14, Bagree Market, Calcutta 1.
Oushadh Ghar P. Ltd.—24, Raja Woodmunt Street, Calcutta 1.
P. & A. Brothers.—71, Canning Street, Bagree Market, Calcutta 1.
P. C. Paul & Co.—13, Bonfield Lane, Calcutta 1.
P. Hematlal & Co.—71, Canning Street, R. No. A-106, Bagree Market, Calcutta 1.
P. K. Stores.—71, Canning Street, Bagree Market, Calcutta 1.
P. N. Mukherjee & Sons P. Ltd.—17/18, Dharamtala Street, Calcutta 13.
P. Sen & Co.—55/84, Canning Street, Calcutta 1.
Pain Pharmacy.—115, Hazra Road, Calcutta 26.
Pannalal Brothers.—44/45, Ezra Street, Calcutta 1.
Panchananada Medical Hall.—15/1, Circular Garden Reach Road, Calcutta 23.
Panel Medical Stores.—143, Circular Garden Reach Road, Calcutta 23.
Parry & Co., Ltd.—32, Chowringhee, Calcutta 16.
Paul & Co.—19, Synagogue Street, Calcutta 1.
Paul Brothers.—44/45, Ezra Street, Calcutta 1.
Paul's Pharmacy.—227, Shibpur Road, Howrah.
People's Medical Hall.—262, Netaji Subhas Road, Howrah.
People's Pharmacy P. Ltd.—90A, S. P. Mukherjee Road, Calcutta 26.
Pioneer Medicine Supply Co.—3, Bonfield Lane, Calcutta 1.
Pijis Drug Stores.—41, Eden Hospital Road, Calcutta 12.
Poor's Pharmacy.—343, Upper Chitpore Road, Calcutta 6.
Popular Drug House, P. Ltd.—4, Bhupendra Bose Avenue, Calcutta 4.
Popular Medical Hall.—48, Circular Garden Reach Road, Calcutta 23.
Popular Medical Hall.—49/1, Watgunj Street, Calcutta 23.

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Popular Trading Agency.—71, Canning Street, Shop No. H-20-22, Bagree Market, Calcutta 1.
Pramila Medical Hall.—55/24, Canning Street, Calcutta 1.
Premier Medical Supplies & Stores.—44/45, Ezra Street, Calcutta 1.
Public Traders.—71, Canning Street, R. No. G-16, Bagree Market, Calcutta 1.
R. K. Medical Stores.—71, Canning Street, R. No. E-37, Bagree Market, Calcutta 1.
R. L. Bhowmick & Co.—55/5, Canning Street, Calcutta 1.
R. Sinha & Brothers.—55/17, Canning Street, Calcutta 1.
R. S. Medical Stores.—44/45, Ezra Street, Calcutta 1.
Radhey & Co.—71, Canning Street, R. No. B-135, Bagree Market, Calcutta 1.
Rainbow & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Ramkanai Medical Stores.—128/1, Cornwallis Street, Calcutta 4.
Ranbaxy & Co. P. Ltd.—P/36, India Exchange Place Extn., Calcutta 1.
Rani Pharmacy.—13H/26, Raja Manindra Road, Calcutta 2.
Rasiklal & Brothers.—71, Canning Street, Bagree Market, Calcutta 1.
Ray Pharmacy.—156, S. P. Mukherjee Road, Calcutta 26.
Relief.—1, Haridas Daw Road, Calcutta 33.
Robin & Co.—71, Canning Street, R. No. E-30, Bagree Market, Calcutta 1.
Roy Choudhury Brothers & Co.—14-3, Bonfield Lane, Calcutta 1.
Roy Dass & Co.—71, Canning Street, Bagree Market, R. No. G-20, Calcutta 1.
Roy's Medical Stores.—Block No. 6 & 7d, New Block, Gariahata Market, Calcutta.
Royal Medical Stores.—55/15, Canning Street, Calcutta 1.
S. B. Biswas & Co.—55/13, Canning Street, Calcutta 1.
S. Kusalchand & Co.—167, Old China Bazar Street, Calcutta 1.
S. K. Dutta.—12/3, Thakurdas Palit Lane, Calcutta 12.
S. K. Nag & Brothers.—16, Synagogue Street, Calcutta 1.
S. P. & Co.—55/136, Canning Street, Calcutta 1.
S. R. S. & Co.—71, Canning Street, Bagree Market, Calcutta 1.
Sachi Medical Hall—3, Deshbandhu Road West, Calcutta 35.
Sakti Medical Stores.—16, Bonfield Lane, Calcutta 1.
Samiran Pharmacy.—18/7, Ultadanga Main Road, Calcutta 4.
Sankar Medical Hall.—31, Lower Chitpur Road, Calcutta 1.
Sankar Narayan Medical Hall.—71, Canning Street, R. No. E-36, Bagree Market, Calcutta 1.
Santi Pharmacy.—42, S. N. Banerjee Road, Calcutta 14.
Sarabhai Chemicals.—25B, Park Street, Calcutta 16.
Sarala Medical Hall.—185, Dum Dum Road, Nagar Bazar, Calcutta 28.
Sarkar Medical Stores.—44/45, Ezra Street, Calcutta 1.
Saroj Ousadh Bhandar.—55/57, Canning Street, Calcutta 1.
Satyapal Chopra & Sons.—170, Mahatma Gandhi Road, Calcutta 7.
Seth Brothers.—55/66, Canning Street, Calcutta 1.
Sevayatan.—54, Manicktola Main Road, Calcutta 1.
Shankar Pharmacy.—4, Bhupendra Bose Avenue, Calcutta 4.
Shankar Medical Stores P. Ltd.—55/100, Canning Street, Calcutta 1.

SHANTI STORES.—Laxmi Mansion, Jamshedpur 1. Phone: 2606. Distributors & Wholesalers.

Shantilal & Brothers.—55/11, Canning Street, Calcutta 1.
Sheth Brothers.—55/66, Canning Street, Calcutta 1.
Shivlal & Brothers.—55/134, Canning Street, Calcutta 1.
Shiv Sakti Medical Stores.—71, Canning Street, Bagree Market, Calcutta 1.
Sibani Medical Stores.—44/45, Ezra Street, Calcutta 1.
Sircar Pharmacy.—124, Shyama Prosad Mukherjee Road, Calcutta 26.
Siva Sankar Medical Stores.—71, Canning Street, R. No. C-32, Bagree Market, Calcutta 1.
South End Poly Clinic.—71, Canning Street, Bagree Market, Calcutta 1.
Sreedhar Medical Hall.—114B, Ashutosh Mukherjee Road, Calcutta 25.
Sreemani Brothers & Co.—14, Bonfield Lane, Calcutta 1.
Sree Madan Gopal Emporium.—255, Upper Circular Road, Calcutta 6.
Sree Satyanarayan Medical Hall.—42, Strand Road, Calcutta 7.
St. Mary's Clinic & Drug Store.—12, Lindsay Street, Calcutta 16.
Standard Drug Stores.—45, Amherst Street, Calcutta 9.
Suresh Kiron Pharmacy.—132, S. P. Mukherjee Road, Calcutta 26.
Thacker & Co.—71, Canning Street, R. No. G-4, Bagree Market, Calcutta 1.
Therapeutical Syndicate.—16, Bonfield Lane, Calcutta 1.
Tilak Medical Hall.—84/2, Grey Street, Calcutta 4.
Tollygunj Medical Hall.—1/1, Tollygunj Circular Road, Calcutta 33.
Twin Medical Hall.—71, Canning Street, Bagree Market, R. No. G-7, Calcutta 1.
United Drugs Stores.—3, Grierson Road, Howrah.
United Stores, 55/49-50, Canning Street, Calcutta 1.
Usha Medical Emporium.—70-B, Bhupendra Bose Avenue, Calcutta 4.
V. City Stores.—Humayan Court, Lindsay Street, Calcutta 16.
Vasa Brothers.—44/45, Ezra Street, Calcutta 1.
Veerchand & Sons.—71, Canning Street, R. No. B-210, Bagree Market, Calcutta 1.
Vivekananda Stores & Agency P. Ltd.—115, Canning Street, Calcutta 1.
Vrajlal & Sons.—55/32, Canning Street, Calcutta 1.
West Bengal Medical Stores.—55/81, Canning Street, Calcutta 1.

CIGARETTES

Hindustan Tobacco Co.—21, Jatindra Mohan Avenue, Calcutta 6.
Imperial Tobacco Co. of India Ltd.—Circular Garden Reach Road, Kidderpore, Calcutta.
International Tobacco Co. of India Ltd.—12, Normal Lohia Lines, Calcutta.
National Tobacco Co. of India Ltd.—1 & 2, Old Court House Corner, North Bldg., Calcutta.
Tobacco Mfrs. (India) Ltd.—P.O.B. No. 10609, Circular Garden Reach Road, Kidderpore, Calcutta.
Union Tobacco Co. Ltd.—23, Convent Road, Calcutta.

CINEMATOGRAPH EQUIPMENT

Havell's Electrical (Sales) Corpn.—12, Netaji Subhas Road, Calcutta 1.
Kaycee Industries Ltd.—3, Chittaranjan Avenue, Calcutta.
Philips India Pvt. Ltd.—31, Chowringhee Road, Calcutta 16.
Photo Cine Sound Supplies.—4, Mission Row, Calcutta 1.

CIVIL & STRUCTURAL ENGINEERS & CONTRACTORS

BRAITHWAITE BURN AND JESSOP.—P-13, Mission Row Extension, Calcutta 1.

CLEARING AND FORWARDING AGENTS

Amarchand Butail & Sons.—7, Chittaranjan Avenue, Calcutta 13.
Bose & Co.—44/2, Chakrabaria Road South, Calcutta 25.
Cox & Kings (Agents) Ltd.—A-3, Gillander House, Netaji Subhas Road, Calcutta 1.
Gopal & Kumar.—14, Netaji Subhas Road, Calcutta 1.
Petero & Smith (I) Ltd.—17, Chowringhee, Calcutta 13.
Pioneer Consolidated Co. of India Ltd.—2, Clive Row, Calcutta 1.

COCKS & VALVES

D. H. BROTHERS PRIVATE LTD.—138, Canning Street, Calcutta 1. Manufacturers of 'VALKO' Brand Water Works Fittings: Complete ranges, Sluice valves upto 42 inches, Non-return valves, etc., (1) Cast Iron Double Flanged and Spigot Pipes—all as per B.S.S. or I.S.S.; (2) High Pressure Boiler Fittings: Bronze, Cast Iron, Cast Steel, etc. 2 in. to 18 in.; (3) Cottage Industries Machineries: Nail & Wire Drawing Machines, etc.

COLLIERY STORES

Anantha Chatterjee & Son.—200, Belilios Road, Howrah.
B.M.S. Engineering Works P. Ltd.—3-1, Kali Prosad Chakrabarty Lane, Howrah.
G. N. Kolley.—207, Belilios Road, Howrah.
Gopinath Ray & Co. P. Ltd.—69, Panchanantola Road, Howrah.
Howrah Engineering Concern P. Ltd.—19, Maharshi Debendra Road, Calcutta 6.
Howrah Iron & Steel Works P. Ltd.—90, Benaras Road, Salkia.
K. P. Das & Sons P. Ltd.—179, Belilios Road, Howrah.
Panchkori Ghosh & Sons P. Ltd.—166, Belilios Road, Howrah.

COLOUR MERCHANTS

FAZLEHUSEIN & BROTHERS.—44, Armenian Street, Calcutta 1.

CONDUIT PIPES

Bose Bros.—76, Benaras Road, Howrah.
Hindustan Industrial Co.—Kali Muzumdar Road, Malipachgara, Howrah.
International Wire Nail Mfg. Co.—7/1/1, Benaras Road, Salkia, Howrah.
Kamala Sheet & Metal Industries.—98 & 99, Main Road, Beliaghata Calcutta.

KEDARNATH PARSOTAMDAS & CO. (PRIVATE) LTD.—37, Netaji Subhas Road, Calcutta 1. Manufacturers and Exporters of 'KP' Brand Conduit Pipes, 'Camel' Brand G.I. Buckets, 'Steelelite' Brand Steel Furniture.

NATIONAL CONDUITS PRIVATE LTD.—178, Dum Dum Road, Calcutta.

CONVEYORS

WESMAN ENGINEERING CO. PRIVATE LTD.—71, Ganesh Chandra Avenue, Calcutta 13.

COTTON TEXTILE MACHINERY

India Machinery Co. Ltd.—29, Strand Road, Calcutta.
Machinery Mfrs. Corpn. Ltd.—P-61 B, Circular Garden Reach Road, Kidderpore, Calcutta 23.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

MODERN ENGINEERING WORKS.—12, Jadupandit Road, Calcutta 6. Manufacturers of Springs and Spring-Washers and Machine Screws; Dealers of Sugar Mill Machinery & Stores and Cotton Mill Machinery & Store.

Texmaco.—Belgharia.

COTTON PRINTED SAREES

SHREE KAMALA AGENCY.—23, Canning Street, Calcutta 1.

COTTON-WASTE MANUFACTURERS

Banka & Sons.—8, India Exchange Place, Calcutta.
Bharat Hardware & Textile Syndicate.—14, Netaji Subhas Road, Calcutta.
Khan Industries Ltd.—14, Hare Street, Calcutta 1.
Ladakchand O. Vora.—68-D, Netaji Subhas Road, Calcutta 1.
Textile Waste Co.—113-C, Netaji Subhas Road, Calcutta 1.

CREDIT INFORMATION AND STATUS REPORTS

COMMERCIAL CENTER.—G.P.O. Box No. 38, Calcutta 1.

CUTLERY MANUFACTURERS

Bhupati Cutlery Works.—P.O. Sashpur, Dist. Bankura.
Cottage Industry Stores & Agency Co.—Sashpur, Bankura.
Dass R. K. & Co.—P.O. Sashpur, Bankura.
Edward Miller & Co.—20, Strand Road, Calcutta.
Gobindo Sheet Metal Works & Foundry.—210, Mahatma Gandhi Road, Calcutta 7.
Great Eastern Cutlery Works.—2-A-2B, Chetla Road, Calcutta 33.
Indian Tools Corpn.—353 & 54, Upper Chitpore Road, Calcutta.
Jhunjhunwala Industries.—Raniganj, Burdwan.
Maya Engg. & Cutlery Works.—45-1, Chetla Road, Alipore, Calcutta 27.
Shibhati Palli-Mangal Samiti Ltd.—P.O., Shibhati Dist., 24 Parganas.

CYCLES & CYCLE ACCESSORIES DEALERS & IMPORTERS

H. D. NUNDY & CO.—50-6, Dharamtolla Street, Calcutta 13.

SACHDEV CYCLE MART.—Main Road, Jamshedpur 1. Phone : 2566-B.

CYCLES & MOTOR CYCLE MANUFACTURERS & DEALERS

Atlas Industries Co.—13-C, Raja Rajkissen Street, Calcutta 6.
Hindustan Bicycle Mfg. & Industrial Corpn Ltd.—9, Netaji Subhas Road, Calcutta 1.
India Cycle Manufacturing Co., Ltd.—4, Clive Ghat Street, Calcutta 1.

SENCO ENGINEERING WORKS & CO. PRIVATE LTD.—55/2, Sastitala Road, Calcutta 11. Works : 24, Sastitala Road, Calcutta 11. Manufacturers of 'Senco' Mudguards, Cycle & other parts. Phone : 35-3128.

SEN-RALEIGH INDUSTRIES OF INDIA LTD.—Registered Office : Mercantile Buildings, Lall Bazar Street, Calcutta 1. Grams : "SENRALAY," Calcutta; Phone : 22-5823 (5 lines); Factory : Kanyapur, Asansol and Pagladanga, Canal South Road, Calcutta 15; Manufacturers of Raleigh, Reidge, Humber and Robin Hood Bicycles; Union Components : Chains, Hubs, Spokes and Pedals; Saddles : Wittkop Saddle; Authorised and Paid-up Capital : Rs. 1,00,00,000; Board of Directors : Mr. Abhijit Sen—Chairman & Managing Director; Mr. Sanjoy Sen—Managing Director; Directors : Messrs. George Hamilton, Bracher Wilson Bryan Leonard Charles Dodsworth, Dr. Heinrich Van de Loo, Leslie Llewellyn Roberts, Sachindra Chaudhuri, Sachindra Prosad Saha, Subbaroya Venkataraman and Debabrata Chakraverti.

DAIRIES

Alphine Dairy & Farm.—Norton Bldgs., 1 & 2, Old Court House Corner, Calcutta 1.
Edward Keventer Ltd.—11-3, Lindsay Street, Calcutta 13.
Express Dairy Co. Ltd.—198, Bhupen Roy Road, Behala, Calcutta 34.
Magnolia Dairy Products (India).—3-B, Wellesley Street, Calcutta 13.
New Regent Dairy Ltd.—9, India Exchange Place, Calcutta 1.
Sur's Dairy Farm.—P-11, Indra Biswas Road, Belgachia, Calcutta.

DECORATORS

Bengal Decorators.—223, Chittaranjan Avenue, Calcutta 6.
Calcutta Decorators.—56, W.C. Bonerjee St., Calcutta 6.
Modern Decorators.—65A, W. C. Bonerjee St., Calcutta 6.
Sinha & Sons.—36, Vivekananda Road, Calcutta 7.

DIE CASTING

INDIAN DIE CASTING CO. PRIVATE LTD.—P-2, Taratolla Road (Paharpur), Calcutta 24. Specialists in Non-ferrous Pressure Die Casting and Drum Closure Manufacturing.

DIESEL ENGINES

Associated Exports Imports Corpn.—8-B, Lall Bazar Street, Calcutta 1.
Blackwood Hodge (India) Pvt. Ltd.—139, Beliaghata Road, Calcutta 15.
Industrial Gases Ltd.—138, Canning Street, Calcutta 1.
Kilburn & Co. Pvt. Ltd.—2, Fairlie Place, Calcutta 1.
United Provinces Commercial Corporation, The.—6, Ganesh Chandra Avenue, Calcutta 13.
Voltas Limited.—8, Netaji Road, Calcutta.

DOORS & WINDOWS MANUFACTURERS

Canton Carpentry Works Ltd.—14, Radhanath Chowdhury Road, Calcutta.
Joynarain Jhunjhunwala.—65-1, Maharshi Debendra Road, Nimtollah, Calcutta.
Mansfield & Sons.—16, Radhanath Chowdhury Road, Calcutta 15.
P. C. Ganguly.—6, Brabourne Road, Calcutta.

PAHARPUR TIMBERS PRIVATE LTD.—1-B, Judges Court Road, Calcutta 27. Manufacturers of Packing Cases, Cable Drums, Body Builders, Railway Coach Manufacturers and Cooling Tower Manufacturers for Chemical, Fertilizer, Thermal and Steel Plants.

DRAWING & SURVEY MATERIALS

Kilburn & Co. Pvt. Ltd.—2, Fairlie Place, Calcutta 1.
G. C. Laha Pvt. Ltd.—1, Dharamtolla Street, Calcutta 13.
Pioneer Stationery House.—Norton Buildings (North), Calcutta 1.
J. Sur & Co. Pvt. Ltd.—3, Dalhousie Square East & 10, Old Court House Street, Calcutta.

SOKHEY TRADING CO.—Diagonal Road, Post Box 44, Jamshedpur (Bihar).

STANDARD TRADING CO.—43, Ezra Street, Calcutta 1.

DRUMS & CONTAINERS

M. L. DAY & CO. (Estd. : 1899).—Makers of Steel and Galvanized Drums, Tin Boxes and various Metal Press goods. 9, Harinbari First Lane, Calcutta 12; Works : 28, B.T. Road, Calcutta 2. Phone : 34-1630. Grams : "DRUMOLA."

DUPLICATORS

Blackwoods (India) Ltd.—7, Taratola Road, Calcutta 27.
Continental Commercial Co. Pvt. Ltd.—8/1, Dalhousie Sq. East, Calcutta.
Gestetner Duplicators Ltd.—9-A, Esplanade East, Calcutta.
National Cash Register Co.—4-D, Dalhousie Sq. East, Calcutta.
Remington Rand of India Ltd.—182, Lower Circular Road, Calcutta 14.

DYE-STUFF MANUFACTURERS

Indian Chemical & Colour Works.—66, Simla Street, Calcutta.
Naranarayan Dye-Stuff & Chemical Works Ltd.—2, Karunamoyee Ghat Road, P.O. Barisa, Calcutta 8.

EARTH MOVING MACHINERY & EQUIPMENT

AMALGAMATED UNIVERSAL AGENCIES (CAL.).—2nd Floor, Block C-211, 71, Canning Street, Calcutta 1.

Associated Exports Imports Corpn.—8-B, Lall Bazar Street, Calcutta 1.
Blackwood Hodge (India) Pvt. Ltd.—139, Beliaghata Road, Calcutta 15.
Marshall Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road, Calcutta 1.
Tractors (India) Ltd.—1, Taratolla Road, Garden Reach, Calcutta 24.
United Provinces Commercial Corporation, The.—6, Ganesh Chandra Avenue, Calcutta 13.
Voltas Limited.—8, Netaji Road, Calcutta.
William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

ELECTRIC FANS

Asia Mechanical & Electrical Works Ltd.—3, Kaliprasad Chakravarty Lane, Kadamtolla, Howrah.
Beni Engineering Works Ltd.—1, Crooked Lane, Calcutta.
Bharat Electrical Industries Ltd.—52, Hindusthan Bldgs., 6-A, S. N. Banerjee Road, Calcutta 13.
Calcutta Electrical Mfg. Co. Ltd.—6, Ghore Bibi Lane, Narkeldanga, 24 Parganas Dist.

CALCUTTA FAN WORKS PRIVATE LTD.—7, Leslie House, 19-B, Chowringhee Road, Calcutta 13. Manufacturers of Industrial & Domestic Fans; Pioneers in Industrial Ventilation.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

Clyde Fan Co. Ltd.—21/2, Chowringhee Road, Calcutta 13.
Engineering Works of India P. Ltd.—20, Ultadanga Road, Calcutta 4.
G. T. R. Co. Ltd.—37, Dum Dum Road, Ghughudanga, 24 Parganas Dist.
General Electric Co. of India Ltd.—Magnet House, Chittaranjan Avenue (South), Calcutta.
India Electric Works Ltd.—Diamond Harbour Road, Calcutta 34.
India Reconstruction Corpn. Ltd.—21-A, Gour Laha Street, Calcutta.
J. Stones & Co. (India) Ltd.—5, Hide Road, Calcutta 22.

JAY ENGINEERING WORKS LTD.—183-A, Prince Anwarshah Road, Calcutta 31. P.O. Box No. 2158, Calcutta ; Phone: 46-2344 to 2348 (5 lines); Grams: "USHAKO"—Calcutta. Manufacturers and Exporters of Usha Sewing Machines and Electric Fans, Sales & Service Centres throughout the World.

Keymer Bagshawe & Co. (India) Pvt. Ltd.—22, Strand Road, P.B. No. 3199, Calcutta.
Machineries & Industries (India) Ltd.—Strand Road, Barashibtatta, Hooghly Dist.

ORIENT GENERAL INDUSTRIES LTD.—6, Ghore Bibi Lane, Calcutta 11. Manufacturers of Electric Fans and Electric Motors.

Oriental Metal Industries Ltd.—Agarpara Estate, Kamarhati, 24 Parganas Dist.
Polar Electrical Fan Marketing Co.—168-B, Cotton Market, Calcutta 7.
Suburban Electrical Engineering Co. Ltd.—Victoria Road, Baranagore, 24 Parganas Dist.

ELECTRIC LAMPS MANUFACTURERS

Asia Electric Lamp Co. P. Ltd.—45, Durgacharan Mukherjee Street, Bagbazar, Calcutta.
Bengal Electric Lamp Works Ltd.—7, Old Court House Street, Calcutta.
Bharat Electric Bulb Works Ltd.—19, Dum Dum Road, Ghughudanga, Calcutta.
Calcutta Electric Lamp Works Ltd.—86/1, Bahir Sura Road, Beliaghata, Calcutta 10.
Electric Lamp Mfrs. (India) Ltd.—1, Taratolla Road, Garden Reach, Calcutta.
Hindustan Lamps Fluorescent Tubes Ltd.—P-88/4, Inciverator Road, Alipore, Calcutta 27.
India Industrial Works Ltd.—55/1, Dharamtolla Road, Salkia, Howrah Dist.
Orient Works.—11, Central Sinthee Road, Cossipore, Calcutta.
Pradip Lamp Works.—45, Armenian Street, Calcutta.
Radio Lamp Works Ltd.—10, Ganesh Ch. Avenue, Calcutta 13.

ELECTRIC MOTORS

Associated Electrical Industries Mfg. Co. Ltd.—1, Taratolla Road, Garden Reach, Calcutta 24.
British India Electric Construction Co. Ltd.—21, Netaji Subhas Road, Calcutta.

ELECTRIC CONSTRUCTION & EQUIPMENT CO. LTD.—1-9, Kaliprasanna Singhee Road, Calcutta 2. Manufacturers of Electric Motors.

F. Husain & Brothers.—28, Strand Road, Calcutta 1.
G. T. R. Co.—6, Netaji Subhas Bose Road, Calcutta.
General Electric Co. of India Ltd.—Magnet House, Chittaranjan Avenue, Calcutta 13.
India Electric Works, Ltd.—Diamond Harbour Road, Behala P.O., Calcutta.

MACHINERIES & INDUSTRIES (INDIA) LTD.—Strand Road, Burashibatala, Chinsura P.O., Hooghly Dist. Agents & Distributors wanted all over India & abroad.

Motor & Machinery Mfrs. Ltd.—10, Jawpore Road, South Dum Dum, Calcutta.
Oriental General Industries Ltd.—5, Royal Exchange Place, Calcutta.

ELECTRICALS

ALLIANCE ENGINEERS PRIVATE LTD.—67-B, Netaji Subhas Road, Calcutta 1. Manufacturers of H.T. & L.T. Electrical Equipments, Isolating Switches upto 220 KV., Oil circuit Breakers, Oil immersed Star/Delta Starters, Distribution Board, Switch Boards, Earth Leakage Relays, etc.

ELECTRICAL GOODS & APPLIANCES

NATIONAL ELECTRICAL APPLIANCES CO.—10, The Mall (Road), Dum Dum, Calcutta 28. Manufacturers of F.H.P. National Motors.

ELECTRICAL DEALERS & CONTRACTORS

A. C. Lahiri & Co. Private Ltd.—2, Church Lane, Calcutta 1.
Associated Engineering Industries.—City Office: Mercantile Buildings, Block 'E', 1st Floor, Calcutta 1.
Banerjee Electricals.—103-A, Cornwallis Street, Calcutta 4.
B. Jivon & Co. Pvt. Ltd.—97, Grey Street, Calcutta 5.
C. S. Niyogee.—P.-546, Block 'N', New Alipore, Calcutta 33.
Calcutta United Engineers Pvt. Ltd.—10, British Indian Street, Calcutta 1.
Consolidated Construction Co. Ltd.—P-12, Mission Row Extension, Calcutta 1.
Corona & Co.—123, Shyama Prasad Mukherjee Road, Calcutta 26.
De, Deb & Co.—13-C, Fordyce Lane, Calcutta 14.
Eastern Electric Co.—41-42, Dharamtolla Street, Calcutta 13.
Electric Construction & Equipment Co. Ltd.—9, Kaliprasanna Singhee Road, Calcutta 2.
Electrical Enterprisers.—5, Clive Row, Calcutta.
Engineers Syndicate (India) Pvt. Ltd.—21, Old Court House Street, Calcutta 1.
Faraday Corporation Pvt. Ltd.—309, Bowbazar Street, Calcutta 12.
Friend's Engineering Co. Pvt. Ltd.—6-A/1, Durga Pituri Lane, Calcutta 12.
G. N. Mookerji.—12-B, Lower Chitpur Road, Calcutta 1.
Ganapati Industries & Trading Corporation Pvt. Ltd.—2, Church Lane, Calcutta 1.
Garden Reach Workshops Pvt. Ltd.—43/46, Garden Reach Road, Calcutta 24.
General Electric Co. of India Pvt. Ltd.—Magnet House, Chittaranjan Avenue, Calcutta 13.
Ghosh Brothers.—71, Patuatola Lane, Calcutta 9.
Gossen & Co. (India) Pvt. Ltd.—35/1C, McLeod Street, Calcutta 16.
Greaves Cotton & Crompton Parkinson Pvt. Ltd.—4, Mission Row Extension, Calcutta 1.
H. N. Electricals.—29-A, Bentinck Street, Calcutta 1.
Halder & Co.—282, Upper Chitpur Road, Calcutta 5.
Harry & Co.—161/1M, Upper Chitpur Road, Calcutta 5.
Hind Electronics Pvt. Ltd.—38, Netaji Subhas Road, Calcutta 1.
Hindustan Dealers Ltd.—54, Ezra Street, Calcutta 1.
Indian Cable Co. Ltd.—9, Hare Street, Calcutta 1.
Indian Overseas Trading Co.—54, Ezra Street, Calcutta 1.
Indo Impex Ltd.—2, India Exchange Place, Calcutta 1.
Martin Burn Ltd.—12, Mission Row, Calcutta 1.
Mehareswari Electric Works.—87-B, Sarat Bose Road, Calcutta 26.
Middleton Engineering Co.—Queen's Mansions, Park Street, Calcutta 16.
Mitra & Co.—15, Shyama Charan Dey Street, Calcutta 12.
National Electrical Industries.—P-56, Ananda Palit Road, Calcutta 14.
National Supply Co.—5, Prinsep Street, Calcutta 13.
New India Electric Co.—1, Manook Lane, Calcutta 1.
Omega Engineering Works Pvt. Ltd.—132/3-B, Cornwallis Street, Calcutta 4.
Otis Elevator Co. (India) Pvt. Ltd.—207, Lower Circular Road, Calcutta 16.
P. Bose.—1/1-A, Herambo Das Lane, Calcutta 9.
Pandey Engineers (Electrical) Pvt. Ltd.—160, Harrison Road, Calcutta 7.
Popular Electric Co. Pvt. Ltd.—36, Ezra Street, Calcutta 1.
Progressive Engineers Pvt. Ltd.—14, Bentinck Street, Calcutta 1.
Roos Electrical Works.—2, Lindsay Street, Calcutta 16.
Russa Garage & Electrical Works Pvt. Ltd.—3, Mangoe Lane, Calcutta 1.
S. S. Bagchi.—75, Bechu Chatterjee Street, Calcutta 9.
S. K. Chatterjee Electricals Pvt. Ltd.—10, Waterloo Street, Calcutta 1.

S. K. MITRA & CO. PRIVATE LTD.—P-6, Grey Street Extension, Calcutta 4.

Satal Engineering Works.—16, British Indian Street, Calcutta 1.
Satish Brothers Pvt. Ltd.—202-A, Harish Mukherjee Road, Calcutta 26.
Scientific Repairs & Trading Co.—27, Beniapukur Road, Calcutta 14.
Sen & Co.—69/1, Serpentine Lane, Calcutta 14.
Sett & Brothers.—14, Bentinck Street, Calcutta 1.
Shanker Electric Co.—2, Doyahatta Street, Calcutta 7.
Shewratan & Co. Pvt. Ltd.—14, Weston Street, Calcutta.
Sibani Electronics.—P-36, Radhabazar Street, Calcutta 1.
Simpson & Ferris Pvt. Ltd.—321/11, Russa Road South, Tollygunge, Calcutta 33.
Techno Electric Corporation.—36, Ezra Street, Calcutta 1.
T. Madan & Co. Pvt. Ltd.—12, Lower Chitpur Road, Calcutta.
Town Talk Co.—1, Prana Nath Sen Lane, Calcutta 6.
United Electric & Engineering Co.—21, Ezra Mansions, Calcutta 1.
Universal Electric & Cycle Co.—23-F, Russa Road, Calcutta 26.
Universal Eng. Co.—99-D, Kalighat Road, Calcutta 26.

ELECTRICAL PLANT, APPARATUS, FANS & LAMPS MANUFACTURERS & DEALERS

Associated Battery Makers (Eastern) Pvt. Ltd.—59C, Chowringhee Road, Calcutta.
Associated Electrical Industries Mfg. Co. (Pvt. Ltd.—Crown House, 6, Mission Row, Calcutta.
Bajaj Electricals Ltd.—10, Ganesh Ch. Avenue, Calcutta.
Ballygunge Mechanical Works.—Bondel Road, Ballygunge, Calcutta.
Bengal Standard Electric Co.—Sikdar Bagan, Calcutta.

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Bengal Standard Engineering Works Ltd.—172-A, Upper Circular Road, Calcutta.
Bharat Electrical Industries Ltd.—6-A, S. N. Banerjee Road, Calcutta 13.
B. M. Singh & Sons.—1, Crooked Lane, Calcutta 1.
British Engineering Corpn.—91, Netaji Subhas Road, Calcutta 1.
British India Electric Construction Co. Ltd.—21, Netaji Subhas Road, Calcutta.
Calcutta Electrical Mfg. Co. Ltd.—33, Netaji Subhas Road, Calcutta.
CALCUTTA (ELEC. & MECH.) ENGINEERS PRIVATE LTD.—27/2C, Strand Road, Calcutta. Manufacturers of Transformers, Switchgears, Rubber Cable Machinery, Wire Drawing Machinery, etc.
Calcutta Fan Works Pvt. Ltd.—Kuthia Road, Tiljala, Calcutta 39.
Carbrush Engineering Co.—190, Maharshi Debendra Road, Calcutta 6.
Casting Corpn. (India) Ltd.—45, Madhusudan Pal Choudhary Lane, Howrah.
Cleco Pvt. Ltd.—2/1, Barrackpore Trunk Road, Baranagore, Calcutta 36.
Clyde Fan Co. Pvt. Ltd.—Rai Bahadur Road, Behala, Calcutta 24.
Cosmo Electric Ltd.—8, Krishnaram Bose Street, Calcutta 4.
Cyma Electric Works.—12, Chapel Road, Hastings, Calcutta 22.
D. N. Singha & Co. Ltd.—6/1, Sitanath Bose Lane, Salkia, Howrah Dist.
Dolui, R. L. & Sons.—10, Clive Row, Calcutta 1.
East Asiatic Industries Ltd.—25, Southend Park, Calcutta.
Electric Construction & Equipment Co., Ltd.—9, Kaliprasanna Singhee Road, Calcutta 12.
Electrical Apparatus Pvt. Ltd.—54, Ezra Street, Calcutta 1.
Electrical Enterprises.—5, Clive Row, Calcutta 1.
Electrical Equipment & Engineering Co.—20, Kaliprasad Banerjee Lane, Howrah.
Electrical Industries Corpn.—33, Brabourne Road, Calcutta.
Electrical Mfg. Co. Ltd.—E.M.C. Gardens, 136, Jessore Road, Dum Dum, Calcutta.
English Electric Co. of India (Pvt.) Ltd.—D-3, Gillander House, 8, Netaji Subhas Road, Calcutta.
Essen Electrical Accessories Mfg. Ltd.—1-A, Lower Circular Road, Calcutta.
General Electric Co. of India Pvt. Ltd.—Magnet House, Chittaranjan Avenue, Calcutta 13.
G. T. R. Co. Ltd.—12, Netaji Subhas Road, Calcutta.
Hindustan Electric Co. Ltd.—184, J. N. Mukerjee Road, Salkia, Howrah.
Hindusthan Electric & Engineering Co.—64 & 64-1, Beadon Street, Calcutta 6.
Hindustan General Electrical Corpn. Ltd.—25, Brabourne Road, Calcutta.
India Electric Works Ltd.—Diamond Harbour Road, Calcutta 34.
India Moulding Co.—2, Roberts Road, Dum Dum, 24 Parganas Dist.
India Reconstruction Corpn. Ltd.—21-A, Gour Laha Street, Calcutta.
Jay Engineering Works Ltd.—183-A, Prince Anwar Shah Road, Dhakuria, Calcutta 31.
Kalinga Industries Ltd.—33, Chittaranjan Avenue, Calcutta 12.
Macmahon & Co.—71-A, Netaji Subhas Road, Calcutta.
Mehta, R. V. & Sons.—14, Bentinck Street, Calcutta.
Metal Seamers & Printers Ltd.—81/3, Harish Chatterjee Street, Calcutta.
Motor & Machinery Mfrs. Ltd.—31, Chittaranjan Avenue, Calcutta 12.
Mullick, B. C. & Co.—25-A, Balaram Ghose Street, Calcutta 4.
Orient General Industries Ltd.—6, Ghore Bibi Lane, Narkeldanga, Calcutta 11.
Paul, B. K.—8, Waterloo Street, Calcutta.
Philips India Ltd.—Philips House, 7, J. C. Madhab Road, Calcutta 20.
Power Transmission & Construction Co.—91, Netaji Subhas Road, Calcutta.
Radon House.—7, Sirdar Sankar Road, Calcutta 26.
Ray, B. B. & Co.—Windsor House, P-14, Bentinck St., Calcutta.
Sett & Co.—38, Pramanick Ghat Road, P.O. Baranagore, Calcutta 36.
Shree Nursingsahay Mudungopal Electric Co. Pvt. Ltd.—55, Ezra Street, Calcutta 1.
Stone, J. & Co. (India) Pvt. Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
SUBURBAN ELECTRICAL ENGINEERING CO. PRIVATE LTD.—34-C, Ananda Palit Road, Calcutta 14. Manufacturers and Stockists of Fans (Exhaust—Cabin—Table—Pedestal and Air Circulators)—Floodlights, Syrens, Man-Coolers, Lighting, Fittings.
Swadeshi Industries Ltd.—142-A, Jamnalal Bajaj Street, Calcutta 7.
Technical Works—9, Saha Lane, Calcutta 7.

ELECTRIC WIRES & CABLES

Indian Cable Co. Ltd.—9, Hare Street, Calcutta.
National Cable Works Ltd.—3-1, Bankshall Street, Calcutta.
National Insulated Cable Co. of India Ltd.—4, Dalhousie Sq. East, Calcutta.

ELECTROPLATED WARE & BRASSWARE MANUFACTURERS

Calcutta Metal Store.—62, Netaji Subhas Road, Burra Bazar, Calcutta 7.
Indian Brassware Store.—P-37B, Kalakar Street, Calcutta 7.
Metal House.—59-1, Cotton Street, Burra Bazar, Calcutta 7.
Nath's Brassware Factory.—8-2, Hospital Street, Calcutta 13.

ENGINEERS, BUILDERS & CONTRACTORS

Air Equipment Works.—44/12, G. T. Road, Barnagore, Calcutta 36.
Associated Engineers P. Ltd.—24, Netaji Subhas Road, Calcutta 1.
Bajrangbali Engineering Co. P. Ltd.—10-11, G. T. Road, Liloooah, Dt. Howrah.
Banerjee Electricals.—103-A, Cornwallis Street, Calcutta 4.
B. R. Herman & Mohatta India Ltd.—19, British Indian St., Calcutta 1.
Canton Carpentry Works P. Ltd.—14, Radhanath Chowdhury Road, Calcutta 15.
Coomar Docking & Engineering Works.—36, Strand Road, Calcutta 1.
Cyma Engineering Co.—223, Belilios Road, Howrah.
Dodsal P. Ltd.—33, Chittaranjan Avenue, Calcutta 1.
Don Watson & Co. Ltd.—19, British Indian Street, Calcutta 1.
D. Wren & Co.—25, Swallow Lane, Calcutta 1.
Gannon Dunkerley & Co. Ltd.—4, Lyons Range, Calcutta 1.
General Commercial Corporation.—8/1, Sidheswar Chandra Lane, Calcutta 12.
G.T.R. Company P. Ltd.—37, Dum Dum Road, Calcutta 30.
Hind Constructions Ltd.—8, India Exchange Place, Calcutta 1.
Hindusthan Engineering & Construction Co.—2, Church Lane, Calcutta 1.
Howrah Engineering Concern P. Ltd.—153-155, Madhusudan Pal Chowdhury Lane, Howrah.
Ibcon P. Ltd.—2, Fairlie Place, Calcutta 1.
International Combustion (I) P. Ltd.—101, Park St., Calcutta 16.
Jessop & Co. Ltd.—63, Netaji Subhas Road, Calcutta 1.
J. H. Fenner & Co. (I) Ltd.—Mercantile Buildings, Calcutta 1.
J. Sur & Co. P. Ltd.—3, Dalhousie Square East, Calcutta 1.
Kuljian Corporation.—7, Chittaranjan Avenue, Calcutta 1.
Kumar & Co.—135, Canning Street, Calcutta 1.
Lakshmi Narayan Engineering Works.—206, Belilios Road, Howrah.
Mansfield & Sons.—16, Radhanath Chowdhury Road, Calcutta 15.
Mechanical Engineering Co. P. Ltd.—25, Swallow Lane, Calcutta 1.
M. L. Sinha & Co. P. Ltd.—50, Ezra Street, Calcutta 1.
Motwane P. Ltd.—25, Chowringhee, Calcutta 13.
National Planning & Construction Ltd.—16, Ganesh Chandra Avenue, Calcutta 13.
Paterson Engineering Co. P. Ltd.—21, Theatre Road, Calcutta 16.
P. C. Biswas & Co.—42, Russa Road East, Calcutta 33.
Peary & Co.—77, Dharamtolla St., Calcutta 13.
P. K. Mookherji & Co. P. Ltd.—D-1, Jagannath Ghat Road, Calcutta 7.
Sigma Engineering Co.—60, Dharamtolla Street, Calcutta 13.
Simplex Concrete Piles (I) .P. Ltd.—103/3, Diamond Harbour Road, Calcutta 38.
S. L. Dutt & Co. P. Ltd.—42-1-2, Muraripukur Road, Calcutta 4.
West Engineering Works.—15, Mohendra Bose Lane, Calcutta 3.

ENGINEERING

A. & J. MAIN & CO., LTD.—16, Netaji Subhas Road, Calcutta 1.
Abjanabh Industries P. Ltd.—25, Burtolla Street, Calcutta 7.
Acme Mfg. Co.—8/1, Esplanade East, Calcutta.
Advance Tube Co.—65-A, Netaji Subhas Road, Calcutta 1.
Agrind Fabricators Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.
Air Survey Co. of India Pvt. Ltd.—Jessore Road, Calcutta 28.
All India Engineering & Spring Mfg. Co.—2/1/1, Ram Moy Road, Bhowanipore, Calcutta 25.
Aluminium Mfg. Co. P. Ltd.—2, Jessore Road, Dum Dum, 24-Parganas.
American Refrigerators Co.—12D, Park Street, Calcutta.
Amichand Bholanath.—25, Netaji Subhas Road, Calcutta.
Anand Metal & Steel Works.—137, Canning Street, Calcutta 1.
Angus Engineering Works.—3, Clive Row, Calcutta 1.
Annapurna Metal Works.—3, Ashu Biswas Road, Bhowanipur, Calcutta.
A. P. V. Engineering Co. Pvt. Ltd.—41, Chowringhee Road, Calcutta.
Arim Tin & Steel Works.—258-4, Upper Circular Road, Calcutta 6.
Asbestos Cement Pvt. Ltd.,—Everest House, Garden Reach, Calcutta.
Associated Aesby Industries Pvt. Ltd.—22, Strand Road, Calcutta 1.
Associated Mfg. Co. Pvt. Ltd.—6, Kissendayal Jalan Road, Salkia, Howrah.
Atlas Works P. Ltd.—119, Ripon Street, Calcutta 16.
Atta's Iron Foundry.—171, Grand Trunk Road (N), Salkia, Howrah.
Avery Co. of India P. Ltd.—28-2, Waterloo Street, Calcutta.
B. R. Herman & Mohatta (India) P. Ltd.—19, British Indian Street, Calcutta.

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Babcock & Wilcox of India Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta 1.
Bagri Iron & Steel Co.—138, Canning Street, Calcutta.
Balgopaldas Iron & Steel Co. Ltd.—C/o B. R. Herman & Mohatta Ltd., 5, Gopal Doctor Rd., Kidderpore, Calcutta.
Ballygunge Engineering Works.—33-1-1, Kankulia Road, Calcutta 19.
Bando & Co. Ltd.—35, Diamond Harbour Road, Calcutta 27.
Bantra Engineering Works.—233, Belilios Road, Howrah.
Banwarilal Purushottam Das.—29, Banshotolla Street, Calcutta 7.
Barick Iron Foundry & Engineering Works.—194, Vivekananda Road, Calcutta 6.
Batliboi & Co.—P-34, Mission Row Extension, Calcutta.
Bengal Industries.—132, Cotton Street, Calcutta.
Bengal Ingot Co. P. Ltd.—5, Hide Road, Kidderpore, Calcutta.
Bengal Iron & Steel Works.—121, Raja Dinendra Street, Calcutta 4.
Bengal Iron Works Ltd.—16-2, Chatterjeepara Lane, Howrah.
Bengal Rolling Mills Ltd.—86B, Netaji Subhas Road, Calcutta.
Beni Engineering Works.—1, Crooked Lane, Calcutta.
Benimadhab Sett Satya Charan Sett.—D/4, Juggernathghat, Lohapatty, Calcutta 7.
Bharat Barrel & Drum Mfg. Co. Ltd.—103/1, Dharamtolla Street, Calcutta 13.
Bharat Steel & Metal Industries.—14/2, Old China Bazar Street, Block No. 169, Calcutta.
Bharat Weighing Scales & Engg. Syndicate.—75/1, Kalachand Nandy Lane, Howrah.
Bharatia Commercial Co. Ltd.—P-23-24, Radhabazar Street, Calcutta.
Bhartia Electric Steel Co. Ltd.—4, Old Court House Street, Calcutta.
Bhebia Engineering Works.—22, Canal West Road, Calcutta 4.
Bihar Firebricks & Potteries Ltd.—22, Strand Road, Calcutta.
Binani Metal Works P. Ltd.—38, Strand Road, Calcutta.
Birkmyre Brothers Ltd.—87, Stephen House, 4, Dalhousie Square East, Calcutta.
Birla Boiler & Heavy Engineering Works.—8, India Exchange Place, Calcutta 1.
Blackwood Hodge (India) Pvt. Ltd.—139, Beliaghatta Road, Calcutta.
Bobbins Ltd.—31, Chowringhee Road, Calcutta 16.
Bolt, Nuts & Forging Co.—67B, Netaji Subhas Road, Calcutta.
Braithwaite & Co. (India) Ltd.—Clive Works, Hide Road, Kidderpore, Calcutta.
Braithwaite Burn & Jessop Construction Co. Ltd.—P-13, Mission Row Extn., Calcutta.
Bridge & Roof Co. (India) Ltd.—21, Netaji Subhas Road, Calcutta.
Britannia Building & Iron Co. Ltd.—Stephen House, 4, Dalhousie Sqr. East, Calcutta.

BRITANNIA BUILDING & IRON CO. LTD.—Stephen House, 4, Dalhousie Square East, Calcutta.

Britannia Engineering Co. Ltd.—3, Netaji Subhas Road, Calc
British India Electric Construction Co. Ltd.—21, Netaji Subhas Road, Calcutta.
Burn & Co. Ltd.—Howrah Iron Works, 12, Mission Row, Calcutta.
C. Comens & Sons Ltd.—103/3, Diamond Harbour Road, Calcutta 38.
Calcutta Engineering & Mfg. Co.—108-1, Benaras Road, Salkia.
Calcutta Expanded Metal Mfg. Co. P. Ltd.—P-16, Kalakar Street, Calcutta 7.
Calcutta Hardware Co.—8-A, Ramkrishna Das Lane, Calcutta 9.
Calcutta Steam Navigation Co. Ltd.—5, Fairlie Place, Calcutta.
Calcutta Tramways Co. Ltd.—P4, Mission Row Extension, Calcutta.
Calcutta Wire Works.—6, Tiljala Road, Calcutta 17.
Castings Corpn. India P. Ltd.—45, Madhusudan Pal Chowdhury Lane, Howrah.
Chaliah Rolling Mills.—6, Mission Row, Calcutta 1.
Coomar Docking & Engineering Works.—36, Strand Road, Calcutta 1.
Crown Cork Mfg. Co. Ltd.—1, Umakanto Sur Lane, Ghugudanga, Calcutta.
D. K. Das & Co. Ltd.—233, Belilios Road, Howrah.

DALMIA IRON & STEEL LTD.—Stephen House, 4, Dalhousie Square East, Calcutta 1.

Debendra Nath Paul & Co.—39, Wellington Street, Calcutta 12.
Delta Engineering & Foundry Works.—177, Muktaram Babu Street, Calcutta 7.
Development of Metal Industries Ltd.—72/1, Lansdowne Road, Calcutta.
Dey's Engineering Co.—237-K, Manicktolla Main Road, Calcutta 11.
Diana Rolling Shutters & Engineering Works.—114, Princep Street, Calcutta 13.
D. N. Bose & Co. P. Ltd.—12, Kalidas Sinha Lane, Calcutta 9.
Dorman Long & Co. Ltd.—8, Netaji Subhas Road, Calcutta 1.
Dunlop Rubber Co. (India) Ltd.—57B, Free School Street, Calcutta 16.
Durga Rolling Mills Ltd.—197/1, G. T. Road, Ghusury, Howrah.
Dutson Engineering Corpn. P. Ltd.—13, Brabourne Road, Calcutta 1.
Dutt & Co. P. Ltd., S.L.—12-1-2, Muraripookur Road, Calcutta 4.
Eastern Economic Engineering Co.—24, Strand Road, Calcutta 1.
Eastern Equipment & Sales Ltd.—24B, Park Street, Calcutta 16.
Economic Tanks Supply Co.—100, Harrison Road, Calcutta 7.
Electric Construction & Equipment Co. Ltd.—9, Kaliprasanna Singhee Road, Calcutta 2.
Engineering Works of India (P) Ltd.—20, Ultadanga Road, Calcutta.
Eyre Smelting P. Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
Ganesh Industries.—2, Haren Mukherjee Road, P. O. Belurmath, Howrah.
Ganges Galvanizing Works (I) P. Ltd.—14 & 14/1, Kissen Dayal Jalan Rd., P. O. Ghusury, Howrah.
Garden Reach Workshops P. Ltd.—2, Fairlie Place, Calcutta.
Gobinda Sheet Metal Works & Foundry.—74, Narkeldanga Main Road, Calcutta.
Godrej & Boyce Mfg. Co. Ltd.—9, Brabourne Road, Calcutta.
Goodman & Co. (I) Ltd.—38, Netaji Subhas Road, Calcutta.
Gramophone Co. Ltd.—33, Jessore Road, Dum Dum, 24-Parganas.
Grant James P. Ltd.—8A & B, Lower Bawdon Street, Calcutta 20.
Greaves Cotton & Crompton Parkinson P. Ltd.—4, Mission Row Extension, Calcutta
Gresham & Craven of India P. Ltd.—31, Chittaranjan Avenue, Calcutta.
Guest, Keen, Williams Ltd.—41, Chowringhee Road, Calcutta.
Harbanslal Malhotra & Sons P. Ltd.—18, Netaji Subhas Road, Calcutta.
Harshadray P. Ltd.—22, Brabourne Road, Calcutta.
Hazra Engineering Works.—13, Rani Rashmooni Road, Calcutta 13.
Hind Constructions Ltd.—8, India Exchange Place, Calcutta.
Hind Tin Industries.—6, Jadulal Mullick Road, Calcutta 6.
Hind Wire Industries.—P-16, Kalakar Street, Calcutta.
Hindustan Industrial Co.—192, Cross Street, Calcutta 7.
Hindusthan Collapsible Gate Co. P. Ltd.—5, Bancharam Aukrur Lane, Calcutta 12.
Hindusthan Development Corpn. Ltd.—4, Chittaranjan Avenue, Hindusthan Bldg., Calcutta.
Hindusthan Iron & Steel Co.—8, Rajendra Deb Road, Calcutta 7.
Hindusthan Machineries Ltd.—220-A, Rash Behari Avenue, Calcutta 19.
Hindusthan Pilkington Glass Works Ltd.—Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.
Hindusthan Sheet & Metal Co. P. Ltd.—9, Clive Row, Calcutta.
Hindusthan Wire & Metal Products Ltd.—67/74, Stephen House, 4, Dalhousie Sqr. East, Calcutta.
Hoare Miller & Co. Ltd.—Mfg. Divn., 5, Fairlie Place, Calcutta 1.
Hooghly Docking & Engineering Co. Ltd.—12, Mission Row, Calcutta.
Howrah City Engineering Co.—75, Panchanantola Road, Howrah.
Howrah Iron & Steel Works P. Ltd.—90, Benaras Road, Salkia, Howrah.
Howrah Iron Works.—Nityadhan Mukherjee Road, Howrah.
Howrah Trading Co. Ltd.—7, Dalhousie Square East, Calcutta 1.
Ideal Industries & Construction Co. (P) Ltd.—44, Chittaranjan Avenue, Calcutta 12.
Imperial Engineering Works P. Ltd.—122, Belilios Road, Howrah.
India Engineering Co.—20, Sree Kissen Vakat Lane, Howrah.
India General Navigation & Rly. Co. Ltd.—4, Fairlie Place, Calcutta.
India Industrial Works P. Ltd.—55/1, Dharamtolla Road, Mallpanchghora, Howrah.
India Machinery Co. Ltd.—29, Strand Road, Calcutta.
India Wire Nail & General Trading Co.—178, Mahatma Gandhi Road, Calcutta.
Indian Aluminium Co. Ltd.—31, Chowringhee Road, Calcutta 16.
Indian Die Casting Co. (P) Ltd.—P-2, Taratolla Road, Calcutta 24.
Indian Iron & Steel Co. Ltd.—12, Mission Row, Calcutta.
Indian Malleable Castings Ltd.—4, Lyons Range, Calcutta.
Indian Oxygen Ltd.—48, Diamond Harbour Road, Kidderpore, Calcutta.
Indian Rubber Mfrs. Ltd.—11-12, Esplanade Mansions, Calcutta.
Indian Standard Wagon Co. Ltd.—12, Mission Row, Calcutta.
International Combustion (India) P. Ltd.—101, Park Street, Calcutta 16.
International Wire Nail Mfg. Co. Ltd.—196 B, Chittaranjan Avenue, Calcutta 7.

IRON FOUNDERS & FABRICATORS.—24, Belur Road, Lillooah, Howrah; Manufacturers of C.I. Pipes, Specials, Valves and General Castings of all descriptions.

J. B. Advani & Co. Pvt. Ltd.—P-38, Mission Row Extn., Calcutta 1.
J. C. Coondoo & Sons.—22, Raja Woodmunt Street, Calcutta 1.
J. J. H. Industries P. Ltd.—174, Mahatma Gandhi Road, Calcutta 7.
James Alexander & Co. Ltd.—15, Watgunge Street, Calcutta 23.
Jas Alexander & Co. Ltd.—Watgunj Street, Calcutta.
Jay Engineering Works Ltd.—Bansahoro Factory, Raynagar, Calcutta 40.
Jay Engineering Works Ltd.—183A, Prince Anwarshah Road, Calcutta.
Jeewanlal (1929) Ltd.—31, Netaji Subhas Road, Calcutta.
Jessop & Co. Ltd.—63, Netaji Subhas Road, Calcutta.
Jewell Filter Co. Ltd.—56A, Free School Street, Calcutta.
K. T. Steel Industries P. Ltd.—20, Maharshi Debendra Road, Calcutta 7.
Kamala Engineering Works.—124, Barrackpore Trunk Road, Calcutta 35.
Kamani Engineering Works.—30, Ganesh Chandra Avenue, Calcutta 13.
Keymer Bagshawe Mfg. Co. P. Ltd.—22, Strand Road, Calcutta 1.
Khemchand Rajkumar.—33, Netaji Subhas Road, Calcutta.
King Engineering Co.—157, Belilios Road, Howrah.

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KINLAB (PRIVATE) LTD.—5, Marquis Street, Calcutta 16; Manufacturers of Timber Dryers and Pressure Impregnation Plants for timber and Wood Working Machinery; Dealers in Casein and Synthetic Resin Adhesives, Scientific and Laboratory Apparatus, Moisture Meters for timber and temperature indicating recording and controlling instruments.

Krishna Private Ltd.—20, Mangoe Lane, Calcutta 1.
Krishnalal Thirani & Co.—8, India Exchange Place, Calcutta.
Kushumika Iron Works Ltd.—3, Maharshi Debendra Road, Calcutta.
Lagan Jute Machinery Co. P. Ltd.—24, Chittaranjan Avenue, Calcutta.
Lakshmi Iron & Steel Works P. Ltd.—P-16, Kalakar Street, Calcutta 7.
Lilloah Iron Works.—41, Chowringhee Road, Calcutta.
Lotus Industries.—32, Armenian Street, Calcutta.
Lynx Machinery Co.—104, Ultadanga Main Road, Calcutta.
M. C. Mowjee & Co.—46, Ezra Street, Calcutta 1.

M.G.R. IRON & STEEL WORKS PRIVATE LTD.—P-16, Kalakar Street, Calcutta 7; Manufacturers of both ferrous and Non-ferrous Tinmen & Structural Rivets, Washers, Bolts, Nuts, etc.; Press Jobs of various types are undertaken.

M. L. Dey & Co.—9, Harinbari 1st Lane, Calcutta 12.
Machinery Mfrs. Corpn. Ltd.—Anderson Bldg., 31, Chowringhee, Calcutta.

M. L. DAY & CO. (Estd. 1899).—Makers of Steel & Galvanized Drums, Tin Boxes and Various Metal Press goods; 9, Harinbari first Lane, Calcutta 12; Works: 28, B.T. Road, Calcutta 2. Phone: 34-1630. Grams: "DRUMOLA."

Main, A. & J. & Co. Ltd.—16, Netaji Subhas Road, Calcutta.
Marcandy Prasad, Radha Krishna Prosad P. Ltd.—65, Grand Trunk Road, Salkia, Howrah.
Marshall Sons & Co. (India) Ltd.—31-1, Netaji Subhas Road, Calcutta.
Martin-Burn Ltd.—Structural Dept., 12, Mission Row, Calcutta.
Maya Galvg. Works.—9, Upper Chitpore Road, Calcutta 7.
Mcgrigor & Balfour P. Ltd.—18, Netaji Subhas Road, Calcutta.
Mechanical Engineering Co. P. Ltd.—Warley House, 25, Swallow Lane, Calcutta.
Metal Box Co. of India Ltd.—Barlow House, 59C, Chowringhee Road, Calcutta.
Modern India Const. Co. P. Ltd.—9, Brabourne Road, 5th Floor, Calcutta.
Modern Malleable Casting Works.—42, Goushala Road, Lillooah, Howrah.
Motor & Machinery Mfrs. Ltd.—31, Chittaranjan Avenue, Calcutta.
Mukand Iron & Steel Co. Ltd.—10, Ganesh Chandra Avenue, Calcutta.
National Carbon Co. (India) Ltd.—18A, Brabourne Road, Calcutta.
National Casting Co.—8, Dalhousie Sq. East, Calcutta 1.
National Engineering Industries Ltd.—India Exchange, 5th Floor, Calcutta.
National Insulated Cable Co. of India Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta

NATIONAL IRON & STEEL CO. LTD.—Stephen House, 4, Dalhousie Square, Calcutta.

National Pipes & Tubes Co. Ltd.—67, Stephen House, 4, Dalhousie Square East, Calcutta.

NATIONAL SCREW & WIRE PRODUCTS LTD.—51, Stephen House, 4, Dalhousie Square East, Calcutta.

National Steel Corporation Ltd.—4, Dalhousie Sq. East, Calcutta 1.
New Allenburry Works.—62, Hazra Road, Calcutta 19.

NEW BENGAL ENGINEERING WORKS.—Mechanical & Structural Engineers & Founders (Milling Specialists). Manufacturers of Bakelite Moulding Compression Machine, Wire drawing Machine, Heavy duty Plain Milling Machine No. 5, Hacksaw Machine (Hydraulic Feed); All sorts of Milling-cut-gears & Pinions; Works No. 1, 283, Belilious Road, Howrah; Phone: 66-2787; Works No. 2; 20, Malipanchghora Street, Liluah, Howrah; Phone: 66-2731.

Nundon Bagan Engineering Works.—14, Ultadanga Road, Calcutta 4.
Oriental Gas Co. Ltd.—12, Park Street, Calcutta.
Orient General Industries Ltd.—6, Ghose Bibi Lane, Calcutta 11.
Orient Industrial Engg. Co. P. Ltd.—P-16, Kalakar Street, Calcutta 7.
Orient Steel & Wire Industries Pvt. Ltd.—2, Brabourne Road, Calcutta.
Oriental Machinery Supplying Agency Ltd.—P-12, Mission Row Extn., Calcutta 1.
Oriental Metal Inds. P. Ltd.—77, Bowbazar Street, Calcutta.
Orissa Steel Corpn. Ltd.—29, Strand Road, Calcutta.
Otis Elevator Co. (India) P. Ltd.—21, Netaji Subhas Road, Calcutta.
Panel Pin Mfg. Co. Ltd.—6, Raghab Koley Lane, Salkia, Howrah.
Parry & Co. Ltd.—Mercantile Bldgs., 9, Lall Bazar Street, Calcutta.
Paul's Engineering Co.—P-7, Natabar Paul Road, Dassnagar (Dt. Howrah).
P. C. Dutt & Co.—71-A, Netaji Subhas Road, R. No. A-166, Calcutta 1.
Pioneer Iron & Steel Corpn.—119, Grand Trunk Road, Belur Howrah.
Port Engineering Works Ltd.—8, Clive Row, Calcutta.
Premier Stores Supplying Co. Ltd.—6/1, Dilarjung Road, Calcutta 2.

RAMCHANDER HEERALALL.—138, Canning Street, Calcutta 1.

Ramkrishna Iron Works P. Ltd.—56, Sri Ramkrishna Mandir Path, North Bantra, Howrah.
Ranjit Engineering Works.—149, Benares Road, Salkia.
Reckitt & Colman of India Ltd.—41, Chowringhee Road, Calcutta 16.
Reliable Water Supply Service of India Ltd.—10, Canning Street, Calcutta.
Robert Hudson (I) P. Ltd.—12, Mission Row, Calcutta.
Robsan & Co. Ltd.—P-14, Mission Row Extension, Calcutta 1.
Roger Engineering Works.—137, Canning Street, Calcutta.
Salkia Industrial Works.—195-1, Grand Trunk Road (North), Ghusuri, Howrah.
Sanganeria Co. P. Ltd.—9, Jogmohan Mullick Lane, Calcutta 7.
Sankey Electrical Stampings P. Ltd.—5th Floor, Mukherjee House, 17, Brabourne Road, Calcutta.
Saxby & Farmer (I) P. Ltd.—17, Convent Road, Entally, Calcutta.
Sen-Raleigh Industries of India Ltd.—Mercantile Bldgs., Lal Bazar. Calcutta.

SHALIMAR INDUSTRIES (PRIVATE) LTD.—25, Ganesh Chandra Avenue, Calcutta 13; Works: 1, Swarnamoycee Road, Shalimar, Howrah; Manufacturers of Jute Mill accessories, i.e. Card and Gill pins, Staves, Shuttles, Bobbins, Lagging, Picking Arms, etc.; Shuttles for Automatic Looms for Cotton Mills and Hand Sewing needles.

Shalimar Iron Works.—62, College Ghat Road, Shalimar, Howrah.
Shalimar Tar Products Ltd.—6, Lyons Range, Calcutta.
Shalimar Wood Products P. Ltd.—1, Siwarnamajee Road, Shalimar, Howrah.
Shalimar Wood Products Co.—138, Canning Street, Calcutta.
Shalimar Works P. Ltd.—9, Lyons Range, Calcutta.
Shankar Industries Ltd.—192, Cross Street, Calcutta.
Ship Repairers P. Ltd.—Taratalla Road, Paharpur, Calcutta 24.
Shree Bajrang Electric Steel Co. Ltd.—83, Old China Bazar St., Calcutta.
Shree Hanuman Foundry Ltd.—Agarwalla Mansions, 370, Upper Chitpur Road, Calcutta.
Shree Hanuman Industries.—178, Harrison Road, Calcutta 7.

SHREE HANUMAN STEEL & PIPE WORKS.—301, Canal East Road, P.O. Box 6804, Calcutta.

Shree Hanuman Steel Rolling Mills Co. Ltd.—62/2/D1, Ghusury, Salkia, Howrah.
Shyamnagar Tin Factory.—113, Manohardas Katra, Calcutta 7.
Simon Carves Ltd.—32, Dalhousie Square, Calcutta.
Simplex Concrete Piles I. P. Ltd.—103-3, Diamond Harbour Road, Calcutta 38.
Spence Ltd.—P-38, Mission Row Extension, Calcutta 13.
Standard Brush & Bellows Works.—11, Dayal Banerjee Road, Sibpur, Howrah.
Standard Electronics Ltd.—23, Fakirdas Mondal Lane, Howrah.
Steel Products Ltd.—96, Garden Reach Road, Calcutta 23.

STEEL EQUIPMENT & CONSTRUCTION PRIVATE LTD.—22, Grand Trunk Road (North), Lilluah, Howrah.

Steel Rolling Mills of Hindustan P. Ltd.—135, Canning St., Calcutta.
Stewarts & Lloyds of India P. Ltd.—41, Chowringhee Road, Calcutta 16.
Stone, J. & Co. I. P. Ltd.—5, Hide Road, Kidderpore, Calcutta.
Sur Iron & Steel Co. P. Ltd.—115, Convent Road, Calcutta 14.
Surendra Overseas P. Ltd.—135, Canning St., Calcutta 7.
Swadeshi Industries Ltd.—33, Netaji Subhas Road, Calcutta.
Tata Iron & Steel Co. Ltd.—23-B, Netaji Subhas Road, Calcutta.
Tatanagar Foundry Co. Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta.
Technical India Ltd.—62-1, Joy Narain Babu Lane, Howrah.
Textile Machinery Corpn., Ltd.—8, India Exchange Place, Calcutta.
Thakurdas Surekha Iron Foundry Ltd.—172, Jogendranath Mukherjee Road, Salkia.
Tractors India Ltd.—1, Taratalla Road, Calcutta.
Ultra Engineering Co.—172-8, Madhusudan Pal Chowdhury Lane, Howrah.
United Commercial Industries P. Ltd.—192, Cross Street, Calcutta 7.
United Engineering (Eastern) Corpn.—22, Canning Street, Calcutta 1.
United Flashlight Industries P. Ltd.—14/2, Old China Bazar Street, Calcutta.
United Rolling Mills P. Ltd.—171, Girish Ghosh Road, P. O. Belurmath, Howrah.

USHA AUTOMOBILE & ENGINEERING PRIVATE LTD.—2, Ramgopal Ghosh Road, Cossipore, Calcutta 2.

Variety Industrial Works Ltd.—P-16, Kalakar Street, Calcutta 7.
Venesk Ltd.—Kamarhati P.O. (24 Parganas Dist.).
Victory Engineering Works.—Tangra Road, Calcutta 15.
Vijay Engineering Co. Ltd.—86, Dewangazi Road, Bally, Howrah.
Vijay Iron Foundry.—105, Stephen House, 5, Dalhousi Square East, Calcutta 1.

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Wellington Engineering Works.—3-1, Sanatan Seal Lane, Calcutta 12.
Wesman Engineering Co. P. Ltd.—71, Ganesh Chandra Avenue, Calcutta 13.
Wolverhampton Iron & Steel Co.—137, Canning Street, Calcutta 1.

ENGINEERS (STRUCTURAL)

AGARWAL HARDWARE WORKS PRIVATE LTD.—167, Chittaranjan Avenue, Calcutta 7; Design, Fabrication and erection of Factory Sheds, Cranes and Steel Structures for Buildings.

ESSENTIAL OILS

Calcutta Essence Supply Co.—44-45, Ezra Street, Calcutta 1.
Ghose Brothers.—50, Ezra Street, Calcutta 1.
Kaiser Trading Co.—159, Lower Chitpur Road, Calcutta.

ESTATES & PROPERTY AGENTS

DHARAMPAL CHADHA & SONS.—H.O. 3, Madan Street, Calcutta 13; Phone : 23-5318; Branch Office : F. 20, Shankar Market, Connaught Circus, New Delhi; Phone : 47200.

EXPANDED METAL MANUFACTURERS

ACME MANUFACTURING CO.—"Jain House," 8/1, Esplanade East, Calcutta 1.
Calcutta Expanded Metal Mfg. Co., Ltd.—P-16, Kalakar Street, Calcutta 7.
Hindusthan Wire & Metal Products Ltd.—57-74, Stephen House, Dalhousie Square, Calcutta 1.

FERTILISERS & CHEMICAL PRODUCTS MFRS.

Beegos Manure Works.—21, Barwaritola Road, Calcutta 10.
Harshad Ray Pvt. Ltd.—22, Brabourne Road, Calcutta.
Imperial Chemical Industries (I) Pvt. Ltd.—18, Strand Road, Calcutta.
Mitter, R. C. & Sons.—54, Ramkanto Bose Street, Calcutta 3.
PHOSPHATE CO. LTD.—14, Netaji Subhas Road, Calcutta 1.
ROY, B. K. PRIVATE LTD.—4, Bankshell Street, Calcutta 1; Phone : 235601; Dealers in oil cakes (all sorts), Fertilisers-sprayers, coal and Minerals, washing soap, handling Agents and Transport Contractors.
Shaw Wallace & Co. Ltd.—4, Banshall Street, P. B. No. 70, Calcutta.

FIRE EXTINGUISHERS

Bengal Chemical & Pharmaceutical Works.—Ganesh Chandra Avenue, Calcutta.
Minimax Ltd.—Mercantile Bldg., Lalbazar Street, Calcutta.
ROYSON & CO.—55, Gariahat Road, Calcutta 19.
Sur Enamel & Stamping Works Ltd.—24, Middle Road, Entally, Calcutta.
William Jacks & Co. Ltd.—16, N. Subhas Road, Calcutta.

FLOUR MILLS

Bengal Flour Mills Co. Ltd.—21, Netaji Subhas Road, Calcutta.
Calcutta Flour Mills.—11, Shib Thakur Lane, Calcutta.
Hooghly Flour Mills Co. Ltd.—4, Bankshall Street, Calcutta.
Howrah Flour Mills Pvt. Ltd.—21, Roopchand Roy Street, Calcutta 7.
Imperial Roller Flour Mills Ltd.—9 Jagmohan Mullick Lane, Calcutta 7.
Krishna Flour Mills Pvt. Ltd.—8, Lyons Range, Calcutta 1.
Mahabir Flour Mills.—102, Raja Dinendra Street, Calcutta 7.
Master Stores.—44, Burtolla Street, Calcutta 7.
Nandan Bagan Flour Mills Ltd.—241/2B, Upper Circular Road, Calcutta 4.
Narkeldanga Roller Flour Mills.—17-4, Canal West Road, Calcutta 9.
New India Flour Mills.—41, Simla Road, Calcutta 6.
REFORM FLOUR MILLS PRIVATE LTD.—18, Netaji Subhas Road, Calcutta 1.
Roger Engineering Works.—10, Clive Row, Calcutta 1.
Shree Biswanath Swadeshi Flour Mills.—3, Chaitan Sett Street, Calcutta 7.
Shree Krishna Gyanodaya FlourMills.—29/41, J. N. Mukerjee Road, Salkia.
Shree Lakshmi Flour Mills Co. Ltd.—234, Upper Chitpur Road, Calcutta.
United Flour Mills Co. Ltd.—4, Bankshall Street, Calcutta.
West Bengal Flour Mills.—8, Lyons Range, Calcutta 1.

FOOTWEAR

Bata Shoe Co. Ltd.—39, Theatre Road, Calcutta.
Buttlas Leather Goods Mfg. Co.—50/3, Canning Street, Calcutta.
Fine Walk Ltd.—182, Dharamtalla Street, Calcutta 13.
Sipra Padukalaya.—100, Deshbandhu Road, Alambazar, Calcutta 35.

FOUNDRY

Agarwal Hardware Works (P) Ltd.—167, Chittaranjan Avenue, Calcutta.
Agarwalla Iron & Steel Works.—P-38, Mission Row Extn., Calcutta 13.
Atta's Iron Foundry.—171, Grand Trunk Road (North), Salkia, Howrah.
Bagri Iron & Steel Co.—138, Canning Street, Calcutta.
Belur Iron Foundry & Engg. Works.—203/1, Harrison Road, Calcutta 7.
Bengal Rolling Mills Ltd.—67B, Netaji Subhas Road, Calcutta.
Bhartia Electric Steel Co. Ltd.—4, Old Court House Street, Calcutta.
Bhattacharjee Brothers.—71A, Netaji Subhas Road, Calcutta.
Binani Metal Works (P) Ltd.—Binani Bldgs., 38, Strand Road, Calcutta.
Bose Brothers.—76, Benaras Road, Howrah.
Calcutta Iron & Engg. Co. (P) Ltd.—77, Benaras Road, Howrah.
Dalmia Iron & Steel Ltd.—4, Dalhousie Square East, Calcutta.
D. N. Singha & Co.—61, Sitanath Bose Lane, Salkia, Howrah.
Dragon Iron Works.—31, Kissonlal Burman Road, Salkia, Howrah.
East India Metal Co. Ltd.—4A, Durga Charan Chatterjee Lane, Calcutta.
Garden Reach Workshops Ltd.—2, Fairlie Place, Calcutta.
Hanuman Engg. Works Ltd.—13, Syed Sallery Lane, Calcutta 7.
Hind Overseas (P) Ltd.—7, Narain Prasad Babu Lane, Calcutta 7.
Hindustan Industrial Co.—192, Cross Street, 3rd Floor, Calcutta.
Indian Malleable Castings Ltd.—4, Lyons Range, Calcutta.
Kumardhubi Engg. Works Ltd.—Chartered Bank Bldgs., Calcutta.
Liluah Iron Works.—41, Chowringhee Road, Calcutta 16.
Moulders Private Ltd.—71A, Netaji Subhas Road, Calcutta.
Nandikeshwari Iron Foundry (P) Ltd.—10K. Road, Belgachia, P. O. Das-Nagar, Howrah.
NATIONAL CASTING CO.—8, Dalhousie Square East, Calcutta. Manufacturers of C.I. Railway Sleepers, Check Chairs, Bearing Plates, D Sockets, Tresstles, Foundations Type A & B, Sand Stowing Pipes, C.I. Socket & Spigot, Pressures Pipes and Specials to B.S.S. 78/1938, C.I. Machinery Parts and all sorts of Ferrous and Non-Ferrous Castings to Customers Specifications.
NATIONAL IRON & STEEL CO. LTD.—Stephen House, 4, Dalhousie Square, Calcutta 1.
Poddar Sanitary Works.—50, Chingrihatta Road, Calcutta 15.
Premier Iron & Steel Works (P) Ltd.—P-16, Natabar Paul Road, North Bantra, Howrah.
Ramkrishna Iron Foundry.—5, Dolgobinda Sinha Lane, Salkia, Howrah.
R. K. Industries.—144, Cotton Street, Calcutta 7.
R. M. Chatterjee & Sons (P) Ltd.—49, Sitanath Bose Lane, Salkia, Howrah.
Shalimar Iron & Steel Industries.—P-84, Benaras Road, Belgachia, Howrah.
Shankar Iron Engg. Works (Pvt.) Ltd.—42/1, Dr. Abani Dutta Road, Howrah.
Shree Baidyanath Iron & Steel Co. Ltd.—Agarwalla Mansions, 370, Upper Chitpur Road, Calcutta 6.
Shree Hanuman Foundry Works.—8, Dalhousie Square East, Calcutta.
Shree Hanuman Foundry & Engg. Co. Ltd.—46, Strand Road, Calcutta.
Shree Hanuman Foundries Ltd.—Agarwalla Mansions, 37, Upper Chitpur Road, Calcutta 6.
Shree Krishna (P) Ltd.—20, Mangoe Lane, Calcutta.
Shree Luchminarain Jute Mfg. Co. Ltd.—59, Netaji Subhas Road, Calcutta 1.
SHREE SHYAM IRON FOUNDRY.—119, Dharamtolla Road, Howrah. Iron Founders & Mechanical Engineers, Specialists in Heavy Castings; Phone : 662353.
Tatanagar Foundry Co., Ltd.—4, Dalhousie Square East, Calcutta.
Textile Machinery Corpn. Ltd.—Belgharia, 24 Parganas.
Thakurdas Sureka Iron Foundry Ltd.—10, Goho Road, Ghusury, Howrah.
Victory Iron Works Pvt. Ltd.—P26, North Bantra, Salkia, Howrah.
Vijay Iron Foundry.—105, Stephen House, 4, Dalhousie Square East, Calcutta 1.
Vijaya Engineering Co. Ltd.—66/1, Dewangazi Road, Bally, Howrah.
WESMAN ENGINEERING CO. PRIVATE LTD.—71, Ganesh Chandra Avenue, Calcutta 13.

FOUNTAINPEN MANUFACTURERS AND DEALERS

A. K. Products.—5, Jagabhandu Boral Lane, Calcutta.
Crown Pen Industries.—90, Phears Lane, Bara Bazar, Calcutta.
Harkishanlal Brothers.—167, Old China Bazar Street, Calcutta.
Pen Service Agency P. Ltd.—10, Chowringhee Road, Calcutta.
Pen Supply Corporation.—15, Free School Street, Calcutta.
PORT INDUSTRIES PRIVATE LTD.—12, Ramproshad Shaha Lane, Calcutta 1.
R. K. Plastic Works.—374, Upper Chitpore Road, Calcutta.
R. K. Products.—5, Jagabhandhu Boral Lane, Calcutta 7.
Shri Bijoy Industries.—24-25, Upper Chitpore Road, Calcutta.

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FREIGHT BROKERS

B. D. Khaitan.—5, Clive Row, Room No. 31, Calcutta.
Blacker & Co. (Pvt.) Ltd.—18, Strand Road, Calcutta.
Champalal & Co.—23/24, Radha Bazar Street, Sethia House, Calcutta.
D. N. Ojha & Co.—11/B, Radha Madhab Saha Lane, Calcutta.
C. L. Kasera & Co.—21-A, Canning Street, Calcutta.
H. Davecurn.—7, Wellesley Place, Calcutta.
H. P. Dey & Son.—2, Church Lane, Calcutta.
H. P. Goenka & Co.—21/A, Canning Street, Calcutta.
M. L. Chopra & Co.—8/3, Roop Chand Rai Street, Calcutta.
P. N. Mookerjee & Co.—12, Netaji Subhas Road, Calcutta.
R. Jaitha & Co.—16, Strand Road, Calcutta.
R. N. Khemka.—Temple Chambers, 6, Old Post Office Street, 4th Floor, Calcutta.
R. Sen & Sons.—4, Fairlie Place, Calcutta.
S. A. Nasr & Co. (Pvt.) Ltd.—2, Chittaranjan Avenue, Calcutta.
S. Chatterjee & Co.—18, Netaji Subhas Road, Top Floor, Eastern Block, Calcutta.
S. C. Mitra & Sons.—C/o N. C. Bose & Co., 25, Swallow Lane, Calcutta.
Sinclair & Co.—5, Commercial Bldg., Calcutta.

SINGH KHURANA & CO.—8, Windsor House, P/14, Mission Row Extension, Calcutta.

S. S. Khaitan & Co.—Room No. 51, 138, Canning Street, Calcutta.
Vabubjee & Co.—6, Lyons Range, Calcutta.
Varajlal & Sons.—37, Ezra Street, Calcutta.
Ziffo & Co.—5, Garstin Place, Calcutta.

FURNACES

WESMAN ENGINEERING CO. PRIVATE LTD.—71, Ganesh Chandra Avenue, Calcutta 13.

FURNITURE MANUFACTURERS & DEALERS

Amkar Furnishers.—42, Central Avenue South, Calcutta.
Art Furnishers Pvt. Ltd.—3, Southern Avenue, Calcutta 26.
B. H. Smith & Co. Pvt. Ltd.—46, Dharamtala Street, Calcutta 13.
Calcutta Cabinet Co.—66, Bow Bazar Street, Calcutta 12.
Calcutta Furnishing Stores Ltd.—62, Bow Bazar Street, Calcutta 12.
Calcutta Furniture Mfg. Co.—6, Chhattawalla Gally, Calcutta 12.
Calcutta Furniture Works Ltd.—27E, Balaram Ghosh St., Calcutta 4.
Chatterjee Furnishing Co. Pvt. Ltd.—2B, Russel Street, Calcutta 16.
Chen's Carpentry Works Pvt. Ltd.—14, Black Burn Lane, Calcutta 12.
Eastern Furnishers.—62, Bowbazar Street, Calcutta 12.
Fashion Furnishers.—264B, Bowbazar Street, Calcutta 12.
Guha & Sons.—268A, Bowbazar Street, Calcutta 12.
Hyderabad Cane Furniture House.—4, Theatre Road, Calcutta.
Indian Teak-Wood Products Pvt. Ltd.—P-3, Kalakar St., Calcutta 7.
Modern Furnishers.—38, Park Mansion, Calcutta 16.
Modern Furnishing Stores.—67, Bowbazar Street, Calcutta 12.

NU-BILT FURNITURE CO.—57, Park Street, Calcutta 16.

Paradise Furnishers.—264K, Bowbazar Street, Calcutta 12.
Prabartak Furnishers Ltd.—40, Tengra Road, Calcutta 15.
Standard Cabinet Co., Ltd.—32, Chittaranjan Avenue, Calcutta 12.

GALVANISED HOLLOWARES & METALWARES

Bantra Engineering Works.—233, Belilios Road, Howrah.
Bengal Bucket & Steel Works.—68-D, Netaji Subhas Road, Calcutta 1.
Containers & Closures Ltd.—2, Fairlie Place, Calcutta 1.
Dhur Galvanising Works.—92, Ultadanga Main Road, Calcutta 4.
Ghosh & Co.—96, Mahatma Gandhi Road, Calcutta 7.
Goodman & Co. (I) Ltd.—38, Netaji Subhas Road, Calcutta 1.
Marwar Galvanising & Iron Works.—161-1, Harrison Road, Calcutta 7.
Metal Press Works Ltd.—3, Jagmohan Mullick Lane, Calcutta 7.
Nathmall Girdharilal.—22, Burtolla St., Calcutta 7.
Shree Krishna P. Ltd.—192, Cross Street, Calcutta 7.

GALVANISED SHEET MERCHANTS

Abhay Charan Dey & Brother.—20, Maharshi Debendra Road, Calcutta 7.
A. C. Bros. & Co.—12, Maharshi Debendra Road, Calcutta.
A. K. S. Paul & Co.—70, Nalini Sett Road, Calcutta.
Anandji Haridas & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Balmer Lawrie & Co. Ltd.—21, Netaji Subhas Road, Calcutta.
Basantlal Ghansamdas.—8/5, Roopchand Roy Street, Calcutta.
B. B. Paul & Co.—18, Raja Woodmunt Street, Calcutta.
B. B. Dutt & Co., (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Chandra Kanta Manna & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Chuni Lal Paul.—3/3, Maharshi Debendra Road, Calcutta.
D. J. Vora.—47, Ezra Street, Calcutta.
Ganeshmull Labhuram.—4, Raja Woodmunt Street, Calcutta.
Gauri Shanker Bihani.—49, Nalini Sett Road, Calcutta.
G. C. Gupta & Co.—261, Bowbazar Street, Calcutta.
Gour Churn Law & Co.—19, Maharshi Debendra Road, Calcutta.
H. K. Paul & Bros. (P) Ltd.—3/3, Maharshi Debendra Road, Calcutta.

ISHAN CHANDRA CHATTERJEE & SON (PRIVATE) LTD.—20, Maharshi Debendra Road, Calcutta.

Jasoda Lal Ghosal (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
J. Guha & C. K. Guha.—20, Maharshi Debendra Road, Calcutta.
J. M. Saha & R. R. Banik.—20/1, Maharshi Debendra Road, Calcutta.
K. C. Ghosh & Sons (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Madan Mohan Saha (P) Ltd.—27, Sowabazar Street, Calcutta.
Narayandass & Co.—D/5, Jagannath Ghat, Calcutta.
Naresh Nath Mookerjee (Metals) Pvt. Ltd.—6, Clive Row, Calcutta.
N. M. J. M. & S. C. Saha.—12, Maharshi Debendra Road, Calcutta.
N. Tah & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Natabar Paul & Co. (P) Ltd.—19, Maharshi Debendra Road, Calcutta.
P. N. Manna & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.

PROVASH CHANDRA NUNDY & CO.—20, Maharshi Debendra Road, Calcutta 7; Stockists and Dealers of Iron Sheet Materials (Black Plain and Corrugated Sheets).

Radhakissen Satyanarain.—4, Doyhatta Street, Calcutta.
Ramachandra Keshrichand Pvt., Ltd.—4, Doyhatta Street, Calcutta.
Shyam Lal Ghosal.—20, Maharshi Debendra Road, Calcutta.
S. N. Manna & M. N. Manna (P) Ltd.—D/16, Jagannath Ghat, Calcutta.
Steel Traders (P) Ltd.—Stephen House, Room No. 27/1, Dalhousie Square, Calcutta.

GLASS & CORK MERCHANTS

Ananta Kumar Ghosh Pvt. Ltd.—9, Ezra Street, Calcutta.
Amritlal Chunder.—Room No. 4, Clive Bldgs., Calcutta 1.
Ashini Kumar Das & Co.—180, Lower Chitpore Road, Calcutta.
Ashoka Sales Agency.—P/40-45, Ezra Street, Calcutta.
Asiatic Glass Products.—6, Ezra Street, Calcutta.
Assam Glass Stores.—1-B, Sova Bazar Lane, Calcutta.
Associated Traders.—180, lower Chitpore Road, Calcutta.
Basha Perfumery House.—8, Ezra Street, Calcutta.
Bejaya Glass Depot.—4, Jakson Lane, Calcutta.
Bhagya Laxmi Glass Agency.—P-33, Pollock Street, Calcutta.
Bimal Bottle Stores Pvt. Ltd.—130, Radha Bazar Street, Calcutta.
Bonfields Bottle Stores.—10-4-1, Bonfields Lane, Calcutta.
Continental Bottle Co. Pvt. Ltd.—24, Ezra Street, Calcutta.
Dhur & Co.—7, Swallow Lane, Calcutta.
Dilip & Co.—Pollock Street, Calcutta.
D. N. Agrawal & Sons.—202, Old China Bazar Street, Calcutta 1.
Durgashree Bottle Stores.—7, Ezra Street, Calcutta.
Eastern Traders Agency.—3, Chittaranjan, Avenue, Calcutta.
Essence & Glassware Supplying Co.—66, Ezra Street, Calcutta.
Gier Trading Co.—Agency, 4, Chattawala Galli, Calcutta.
Glass & Plywood Supply Agency.—40, Bowbazar Street, Calcutta 12.
Gobindram Jessaram.—66, Ezra Street, Calcutta.
Gopinath Glass Supplying Co.—7 & 9, Ezra Street, Calcutta.
The Glass Syndicate Pvt. Ltd.—30/1/B, Grey Street, Calcutta.
Gujarat Trading Co.—P/40-45, Ezra Street, Calcutta.

INDIAN GLASS AGENCY.—66, Ezra Street, Calcutta.

Jagadish Trading Co.—16, Radha Bazar Lane, Calcutta.
K. P. Saha & Co.—4, Ezra Street, Calcutta.
Laboratory Requisites Suppliers.—P-33, Pollock Street, Calcutta.
Luxmi Bottle Stores.—17, Ezra Street, Calcutta.
Manick Chand Harlalka.—1, Protap Ghose Lane, Calcutta.
Narayan Bottle Stores.—18, Radha Bazar Lane, Calcutta.
Nath Brothers.—67, Ezra Street, Calcutta.
New Era Universal Traders.—22, Canning Street, Calcutta.
O. T. Kader Basha Saheb.—17, Ezra Street, Calcutta.
Pathak & Co.—6, Ezra Street, Calcutta.
Radha Shyam Chandra & Co.—67, Ezra Street, Calcutta.
Ram Chandra Singha & Co.—6, Ezra Street, Calcutta.
R. Das & Co.—7, Ezra Street, Calcutta.
R. G. Ganeriwala & Co.—208, Old China Bazar Street, Calcutta 1.
R. K. Desai & Co.—61, Bentinck Street, Calcutta.
R. N. T. & Co.—18, Ezra Street, Calcutta.
Satya Charan Paul & Co.—190, Old China Bazar Street, Calcutta.
Sikri & Co. Pvt. Ltd.—9, Ezra Street, Calcutta.
S. K. Rahaman & Bros.—46, Ezra Street, Calcutta.
Subhas Trading Co.—66, Ezra Street, Calcutta.
Union Bottle Stores.—18, Ezra Street, Calcutta.
United Bottle & Perfumery Co.—9, Ezra Street, Calcutta.

GLASS MANUFACTURERS

Annapurna Glass Works Pvt. Ltd.—P-15, Bentinck Street, Calcutta 1.
Ashoka Glass Works.—9, Ezra Street, Calcutta.
Artistick Glass Works.—1-2, Tagore Castle Street, Calcutta 6.
Belur Glass Works Ltd.—203/1, Mahatma Gandhi Road, Calcutta 7.
Bengal Electric Lamp Works Ltd.—7, Hastings Street, Calcutta.

BHARAT GLASS WORKS PRIVATE LTD.—Belgharia, 24, Parganas.

B. K. SHAW INDUSTRIES PRIVATE LTD.—P-3, B. K. Paul Avenue, Calcutta 5. Manufacturers of Scientific and Laboratory Glasswares, Neutral and Heat resistant including oven Table-glasswares.

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Calcutta Glass & Silicate Works (1936) Pvt. Ltd.—9, Kundu Lane, Belgachia, Calcutta 37.
Central Glass Industries Ltd.—7, Swallow Lane, Calcutta 1.
Cossipore Glass Blowing Works.—60, Satchasipara Road, Calcutta 2.
Geeta Glass Works Pvt. Ltd.—59, Bahir Sura Road, Calcutta 10.
Gurjars Ltd.—55, Bentinck Street, Calcutta 1.

HINDUSTHAN NATIONAL GLASS MANUFACTURING CO. LTD.—2, Wellesley Place, Calcutta 1.

Hindusthan Pilkington Glass Works Ltd.—Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta 13.
Hindusthan Safety Glass Works Pvt. Ltd.—202, Old China Bazar Street, Calcutta. 1.
Krishna Silicate & Glass Works Ltd.—17, Radha Bazar Street, Calcutta. 1.
Medical Appliances Mfg. Co. Ltd.—20, N. Subhas Road, Calcutta 1.
Metro Glass Works Pvt. Ltd.—20, Netaji Subhas Road, Calcutta. 1.
National Scientific Glass Works.—14, Mullick Street, Calcutta 7.
New Indian Glass Works (Calcutta) Pvt. Ltd.—7, Rawdon St., Calcutta 16.
Ramkrishna Glass Works Pvt. Ltd.—Muratidhar Sen, Lane, Calcutta 7.
Scientific Glass Apparatus Mfg. Co.—5-A, Prosanna Kumar Tagore Street, Calcutta 6.
Scientific Glass Apparatus Mfg. Co.—11-2, Harinath Dey Road, Calcutta 9.
Scientific Glass Works.—35, Gopal Chatterjee Road, Calcutta 2.
Scientific Indian Glass Co. Pvt. Ltd.—98, Christopher Road, Calcutta 14.
Seraikella Glass Works Pvt. Ltd.—Konnagar, Hooghly Dist.
Shiva Glass Works Co. Ltd.—Narayani Bldgs., 27, Brabourne Road, Calcutta. 1.
Shree Gobindeo Glass Works Ltd.—9, Ezra Street, Calcutta 1.
Sodepur Glass Works Ltd.—P-11, Mission Row Extension, Calcutta 1.
Somany Glass Works.—2, Wellesley Place, Calcutta 1.
Victoria Glass Works Pvt. Ltd.—10, Clive Row, Calcutta 1.

GLUE MANUFACTURERS

Bengal Paste Co.—10, Delhi Entally Road, Calcutta 14.
Dhappa Glue Factory.—24 Parganas, Calcutta.
Gripex (India) Ltd.—C-6, Gillander House, 8, Netaji Subhas Road, Calcutta.
King Perfumery Works.—13, Khetra Das Lane, Calcutta 12.
Unita Trading Co.—76, Lower Circular Road, Calcutta 14.

GUNNY TRADERS & EXPORTERS

Abdul Karim Noormohamed & Co.—59, Canning Street, Calcutta.
A. H. Bhiwandiwala & Co. (B) Pvt. Ltd.—2, Doyahatta Street, Calcutta.
Abdul Shakur Umar Sahigara & Co.—15, Zakaria Street, Calcutta.
Achariya Brothers.—14/1, Clive Row, Calcutta.
Acharya Brothers.—23/24, Radhabazar Stret, Calcutta.
ADL Tea Company Private Ltd.—8, Mangoe Lane, Calcutta 1.
Ambadutt & Co.—21-A, Canning Street, Calcutta.
Amin Agencies Ltd.—25-26, Waterloo Street, Calcutta.
Amritlal Ojha & Co. Private Ltd.—102-A, Netaji Subhas Road, Calcutta.
Arora & Sehgal Private Ltd.—2, Clive Row (4th floor), Calcutta.
Arora & Co., Private Ltd.—7-A, Clive Row, Calcutta.
Anganlal & Co.—137, Cotton Street, Calcutta.
Anderson Wright Ltd.—7, Wellesly Place, Calcutta.
Arjundass Ramkumar & Co.—133, Cotton Street, Calcutta.
Associated Commercial Co. of India Ltd.—7, Hastings Street, Calcutta.
Babulal & Co., Pvt. Ltd.—21, Canning Street, Calcutta.
Bag Hessian Trading Co.—5, Clive Row, Calcutta.
B. C. Nawn & Bros. Private Ltd.—7, Bowbazar Street, Calcutta.
Baijnath Bhalotia.—15, Clive Row, Calcutta.
Baldeoram Beharilal.—61, Strand Road, Calcutta.
Ballabhram Badrinarain.—135, Canning Street, Calcutta.
Banwarilal Lohariwala Co.—21-A, Canning Street, Calcutta.
Basudev Gupta Co.—21-A, Canning Street, Calcutta.
Bengal Burlap Corp.—135, Canning Street, Calcutta.
Bhagat & Co.—10, Clive Row, Calcutta.
Bhagat Singh Bugga & Co.—22, Canning Street, Calcutta.
Bharat Burlap Linkers.—5, Clive Row, R. No. 16, Calcutta 1.
Bharat Handicraft Pvt. Ltd.—5, Clive Row, Calcutta 1.
Bharat General Trading Co., Pvt. Ltd.—2, Doyhatta Street, Calcutta.
Bhawanidass Ramgovind.—7, Sambhu Mullick Lane, Calcutta.
Bhimsain Sundarsain.—14, Amratolla Street, Calcutta.
Bhutoria Bros. Pvt. Ltd.—56, Netaji Subhas Road, Calcutta.
Bhutoria & Sons Pvt. Ltd.—161-1, M. Gandhi Road, Calcutta 7.
Bilasroy Sons & Co.—21, Canning Street, Calcutta.
Binani Commercial Co. Pvt. Ltd.—42, Strand Road, Calcutta 1.
Birla Jute Manufacturing Co. Ltd.—8, India Exchange Place, Calcutta.
Burlap Brokers Pvt. Ltd.—135, Canning Street, Calcutta.
B. Agarwala & Co.—39, Tarachand Dutt Street, Calcutta.
B. Ladhuaram & Co.—21-A, Canning Street, Calcutta.
Banshidhar Gupta & Sons.—21-B, Canning Street, Calcutta.
Bissesarlall Sriniwas.—21-A, Canning Street, Calcutta.
Bisesawarlall & Co.—135, Canning Street, Calcutta.
Brijmohan Kalanauria.—135, Canning Street, Calcutta.
Burlap Trading Corporation.—14-5, Clive Row, Calcutta.
Bijoy Kumar & Co.—B-3, Clive Building, Calcutta.
Beriwala Brokers Pvt. Ltd.—21-A, Canning Street, Calcutta.
Bhagwan Limited.—7-A, Clive Row, Calcutta.
Burlap Linkers.—18, Netaji Subhas Road, Calcutta.
Carrimjee Alibhoy.—20, Zakaria Street, Calcutta.
The Calcutta Jute Mfg. Co., Ltd.—4, Dalhousie Square, Calcutta.
Chokhany Brothers.—15-A, Clive Row, Calcutta.
Chatterjee Chakravarty & Co.—135, Canning Street, Calcutta.
Chamaria Brothers.—5, Clive Row, Calcutta.
Chandulall Kanhaiyalall.—44, Burtolla Street, Calcutta.
Chhaganlal Kasturchand.—16, Pollock Street, Calcutta.
Chokhany Sons.—5, Clive Row, Calcutta.
Chase Brothers Private Limited.—7, Lyons Range, Calcutta.
Clive Mills Co., Ltd.—13, Old Court House Street, Calcutta 1.
D. S. Kharas.—11, Wellington Sq., Calcutta 13.
D. N. Nundy & Co.—21-A, Canning Street, Calcutta.

D. SHAMJI & CO.—54, Canning Street, Calcutta. Dealers in New and Second hand Gunny bags, Hessian Cloth, Twine, Jute Canvas and Commission Agents.

Dharamdas & Tirathdas.—14-2, Clive Row, Calcutta.
Damodar Hansraj.—2, Manook Lane, Calcutta.
Danmull Jwalaprasad.—23-24, Radhabazar Street, Calcutta.
Dawoojee Dadabhoy & Co.—67, Canning Street, Calcutta.
Dayaram & Sons.—4, Dalhousie Square, Calcutta.
Dunichand Raterja.—7-G Clive Row, Calcutta.
Dunichand Sons & Co.—7-G, Clive Row, Calcutta.
Dulichand Kashiprasad.—18, Amratolla Street, Calcutta.
Durgadas Pal & Co.—14-A, Clive Row, Calcutta.
Dipak Trading Co.—15, Amratolla Lane, Calcutta.
Dinesh Company Private Ltd.—5, Clive Row, Calcutta.
Dayal & Sons.—22, Swallow Lane, Calcutta.
Dinanath Kanoria & Co.—134, Canning Street, Calcutta.
East Coast Commercial Co., Ltd.—7, Wellesly Place (3rd floor), Calcutta.
East India Commercial Co., P. Ltd.—38, Netaji Subhas Road, Calcutta.
F. Gangjee & Co.—24, Mission Row Extension, Calcutta.
Fatehchand Murlidhar.—14-1, Clive Row, Calcutta.
Far Eastern Agencies Ltd.—P-14, Mission Row Extension, Calcutta.
Fulchand Kanahiyalal & Co.—23-24, Radhabazar Street, Calcutta 1.
G. Kanoria & Co.—7G, Clive Row, Calcutta.
G. Patel & Co. Pvt. Ltd.—2, Brabourne Road, Calcutta.
G. Ambalal (Export) Pvt. Ltd.—4, Mission Row.
Ganesh Export & Import Co.—18-A, Rupchand Roy Street, Calcutta.
Ganeriwala Brothers.—14-5, Clive Row, Calcutta.
Gangabishan Kalanauria.—135, Canning Street, Calcutta.
General Fibre Dealers Ltd.—India Exchange, Calcutta.
General Produce Co., Ltd.—India Exchange, Calcutta.
General Merchandise Dealer Ltd.—135, Canning Street, Calcutta.
Girdharilal & Co.—4, Clive Row, Calcutta.
Goenka Commercial Co.—11, Clive Row, Calcutta.
Gordhandass Jerambhai.—15-A, Clive Row, Calcutta.
Googanram Rampartap & Co.—7-E, Clive Row, Calcutta.
Gopichand Ashok Kumar.—134, Canning Street, Calcutta.
Gouri Sankar Co., Pvt. Ltd.—14-1, Clive Row, Calcutta.
Govindji Gordhandas & Co.—3, Amratolla Street, Calcutta.
Guha Rice Co.—22, Amratolla Street, Calcutta.
Gunny Exporters Private Ltd.—10, Clive Row, Calcutta.
Gunny Commercial Co.—6, Clive Row, Calcutta 1.
Gupta Trading Co.—6, Clive Row, Calcutta.
Hind Commercial Co.—21-A, Canning Street, Calcutta.
Haji Habib Haji Peermohamed.—25, Amratolla Street, Calcutta.
Haji Esmail Noormohammed & Co.—15, Zakaria Street, Calcutta.
Haji Sattar Haji & Pirmohammed.—23, Amratolla Street, Calcutta.
Haji Selim Khoonji.—21, Prinsep Street, Calcutta.
Harbanslal Malhotra & Sons Private Ltd.—18, Netaji Subhas Road, Calcutta.
Hardwarimull Mahabirprasad.—7-G, Clive Row, Calcutta.
Harkisondass & Ramdass.—7-G, Clive Row, Calcutta.
Hariram & Co.—21, Canning Street, Calcutta.
Hasham Premji.—191, Mahatma Gandhi Road, Calcutta.
Hessian & Gunny Traders.—43, Strand Road, Calcutta.
Hirjee Jewraj.—7-G, Clive Row (1st floor), Calcutta.
Hariram Kharkia & Co.—5, Clive Row, Calcutta.
Howrah Trading Co., Ltd.—8, Dalhousie Square East, Calcutta.
Hukumchand Jute Mills Ltd.—9, Brabourne Road, Calcutta.
Husein Ebrahim.—55, Canning Street, Calcutta.
Hind Jute & Hessian Co.—14-5, Clive Row, Calcutta.
Hope Prudhomme & Co. Pvt. Ltd.—7, Wellesley Place, Calcutta.
International Overseas Corp. Ltd.—4, Dalhousie Square, Calcutta.
Indo-World Trading Co., Ltd.—10, Armenian Street, Calcutta.
International Trading Co.—13, Brabourne Road, Calcutta.
Indo-Eastern Trading Co., Ltd.—23-24, Radha Bazar Street, Calcutta.
Isharsingh Kirpalsingh & Co.—10-1, Portuguese Church Street, Calcutta.
Ispahani Ltd.—51, Ezra Street, Calcutta.
International Gunny Corporation.—7-E, Clive Row, Calcutta.

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Indo-Burma Trading Corporation.—10, Chowringhee Road, Calcutta 13.
Jagannath Gupta & Co., Pvt. Ltd.—7-B, Clive Row, Calcutta.
Jagdish Prasad Pannalall & Co., Ltd.—27, Amratolla Street, Calcutta.
Jagannath Ramnath.—5, Vivekananda Road, Calcutta.
Jaipuria Bros. Ltd.—33, Netaji Subhas Road, Calcutta.
Jalan & Co.—5, Mangoe Lane, Calcutta 1.
Jalan Commercial Co.—5, Clive Row, Calcutta.
Jankidass Ramgopal.—48, Canning Street, Calcutta.
Jamnadass & Co.—27, Amratolla Street, Calcutta.
Jamnadas Sriniwas Co.—21, Canning Street, Calcutta.
Jhajharia Trading Co., Private Ltd.—14, Netaji Subhas Road, Calcutta.
Joylall Hargulal.—59, Netaji Subhas Road, Calcutta.
Juggilal Kamlapat.—7, Council House Street, Calcutta.
Jute & Gunny Brokers Pvt. Ltd.—8, India Exchange Place, Calcutta.
Jute Hessian Co.—21-B, Canning Street, Calcutta.
Jute & Stores Ltd.—23-24, Radha Bazar Street, Calcutta.
J. D. Acharya & Sons.—15, Clive Row, Calcutta.
Jewraj Investments Private Ltd.—15-B, Clive Row, Calcutta.
K. Satyanarayan & Co.—7-G, Clive Row, Calcutta.
Kabra & Co., (Jute & Gunny Sales).—2, India Exchange Place, Calcutta.
Kanoi (India) Pvt. Ltd.—P-8, Mission Row Extension, Calcutta.
Kanoria General Dealers Pvt. Ltd.—133, Canning Street, Calcutta.
Kanoria Co., Ltd.—9, Brabourne Road, Calcutta.
Kanoria & Sons Pvt. Ltd.—133, Canning Street, Calcutta.
Kanji Kashiram & Co.—27, Amratolla Street, Calcutta.
Kant & Co., Pvt. Ltd.—15, Clive Row, Calcutta.
Kashiram Banaresilall Pvt. Ltd.—9, Waterloo Street, Calcutta.
Kathiawar Trading Co.—14-2, Old China Bazar Street, Calcutta.
Kaushal International Traders.—35-17, Ezra Street, Calcutta.
Kedarnath Gupta & Co.—7-A, Clive Row, Calcutta.
Kedarnath Hariram.—7-A, Clive Row, Calcutta.
Kedarnath Poddar & Co.—135, Canning Street, Calcutta.
Kesardeo Shyamsundar.—5, Clive Row, Calcutta.
Kesaria & Co.—19, Amratolla Street, Calcutta.
Kheruka & Co.—B-5, Gillanders House, Calcutta.
Khorana Brothers.—5/2, Gobindodhar Lane, Calcutta.
Khushiram Banaresilall.—21-B, Canning Street, Calcutta.
Khushiram Chandulall & Co.—53, Netaji Subhas Road, Calcutta.
Kissenlall Bangur.—21-A, Canning Street, Calcutta.
Kshettry & Co.—21, Canning Street, Calcutta.
Kumarlal & Co.—7-G, Clive Row, Calcutta.
Kundu Mookherjee & Co.—14-1, Clive Row, Calcutta.
K. Sashikant & Co.—55, Canning Street, Calcutta.
Kishorilal Gobindram.—14, Clive Row, Calcutta.
K. Vijayaramaiah Pantulu.—44-B, Kalikrishna Tagore Street, Calcutta.
Kian Gwan Co., Cal. Pvt. Ltd.—5-B, Clive Ghat Street, Calcutta.
Kataruka & Company.—Dinapur Cantt., Calcutta.
Killa Trading Co., Pvt. Ltd.—161-1, Mahatma Gandhi Road, Calcutta.
Kuver Investment Co. Ltd.—8, India Exchange Place, Calcutta 1.
Liladhar & Co.—22, Netaji Subhas Road, Calcutta.
Lalchand Dugar.—5/1, Lucas Lane, Calcutta.
Landale & Clark Ltd.—18, Netaji Subhas Road, Calcutta.
Liladhur Dinanath.—7-G, Clive Row, Calcutta.
Lohia Brothers.—126, Chittaranjan Avenue, Calcutta.
Luchminarain Chandmull.—133, Canning Street, Calcutta.
Luchhminarain Kanoria & Co.—133, Canning Street, Calcutta.
Luximdas Vithaldas.—21-A, Canning Street, Calcutta.
M. Abhechand & Co.—72, (2nd Floor), Canning Street, Calcutta.
M. D. Kothari & Co. Pvt. Ltd.—8, India Exchange Place, Calcutta.
Mahabir Trading Co.—14-5, Clive Row, Calcutta.
Mahabirprasad Bishwanath.—134, Cotton Street, Calcutta 7.
Mangatrai Rateria.—5, Clive Row, Calcutta.
Manickchand Bagri.—32, Cross Street, Calcutta.
Manilal Sundarjee Desai.—7-A, Clive Row, Calcutta.
Mansaram Nandram.—402, Upper Chitpur Road, Calcutta.
Mathuradas Gobardhandas.—38, Strand Road, Calcutta.
Minamull Satyanarain & Co.—21-B, Canning Street, Calcutta.
Modern Agencies Ltd.—25, Brabourne Road, Calcutta.

MAHOMEDALLY VALJI & CO.—67, Bentinck Street, Calcutta 1. Phone : 23-6964.

Motilal Dalmia Pvt. Ltd.—7-E, Clive Row, Calcutta.
Motilal Nahata.—7-E, Clive Row, Calcutta.
Mugneeram Bangur & Co.—8, Lyons Range, Calcutta.
Mukhram Luchhminarain.—59, Netaji Subhas Road, Calcutta.
M. Gopikishan & Co.—30, Kalikrishna Tagore Street, Calcutta.
Mamchand & Co.—21, Canning Street, Calcutta.
Mohta Brothers Pvt. Ltd.—29, Strand Road, Calcutta.
Mahabir Commercial Co., Ltd.—8, India Exchange Place, Calcutta.
Mangalchand Thanmull Surana.—208, Mahatma Gandhi Road, Calcutta.
Narendra Kumar Shashikant.—23, Amratolla Street, Calcutta.
N. Goculdass & Co.—24, Netaji Subhas Road, Calcutta 1.
N. Manseta & Brothers (Cal.).—14-2, Old China Bazar Street, Calcutta.
N. Jiwanlal & Co. (Cal.) Pvt. Ltd.—1, Mullick Street, Calcutta.
Naihati Jute Mills Co. Ltd.—33, Netaji Subhas Road, Calcutta 1.
Naraindass Jewraj.—14/2, Clive Row, Calcutta.
N. Shree Gopal & Co.—7-A, Clive Row, Calcutta.
Nanjee Shamjee & Co.—7, Lower Chitpur Road, Calcutta.
National Commercial Corporation.—135, Canning Street, Calcutta.

NATIONAL COMPANY LTD.—18-A, Brabourne Road, Calcutta 1.

Narsinghdass Biswanath.—3, Amratolla Street, Calcutta.
Nafar Chandra Jute Mills Ltd.—36, Strand Road, Calcutta.
Navalkishore Banshidhar & Co.—21-B, Canning Street, Calcutta.
Newar & Co.—2, India Exchange Place, Calcutta.
N. D. Bhoola & Co.—34, Ezra Street, Calcutta.
New Central Jute Mills Co., Ltd.—11, Clive Row, Calcutta.
Naurangrai Rateria.—21, Canning Street, Calcutta.
Navinchandra & Company.—12-B, Netaji Subhas Road, Calcutta.
Narottam Bhikhubhai Javeri.—26-A, Ridge Road, Malabar Hill, Bombay 6.
Nandlal Gupta, C/o Sahu Jain Ltd.—11, Clive Row, Calcutta.
Nathubhai Nanjee & Sons.—14/2, Old China Bazar Street, Calcutta.
Nawalkishore Gupta & Co.—21-B, Canning Street, Calcutta.
Nundy & Sons.—21-A, Canning Street, Calcutta.

PALRIWALA BROTHERS PRIVATE LTD.—14, Netaji Subhas Road, Calcutta.

PANDE BROTHERS PRIVATE LTD.—7, Chittaranjan Avenue, Calcutta 13.

Parasram Parumal & Co.—7-A, Clive Row, Calcutta.
Power Farming Pvt. Limited.—3, Jagmohan Mullick Lane, Calcutta.
Prabartak Jute Mills Ltd.—61, Bowbazar Street, Calcutta.
Prabartak Commercial Co. Pvt. Ltd.—61, Bowbazar Street, Calcutta.
Prahladrai Poddar & Co.—11, Clive Row, Calcutta.
Premji Waghji & Co.—14-2 (2nd floor, R. Nos. 163 & 164), Old China Bazar Street, Calcutta 1.
Pugalia & Co.—7-E, Clive Row, Calcutta.
Purshottam Umedbhai & Co.—55, Canning Street, Calcutta.
Purshottamdass Anandkumar.—7-E, Clive Row, Calcutta.
Purushottamdass Jalan.—5, Mangoe Lane, Calcutta.
R. B. Hurdutrai Motilal Chamaria.—68, Cotton Street, Calcutta.
R. B. Seth Jessaram Fatehchand.—160, Cross Street, Calcutta.
Ratanchand Chhaganmal.—47, Khangrapatty Street, Calcutta.
Rajluxmi Investment & Trading Co., Pvt. Ltd.—63, Radhabazar Street, Calcutta.
Raghunath & Son Pvt. Ltd.—7-G, Clive Row, Calcutta.
Raghunath Prosad Poddar.—B/3, Clive Building, Calcutta.
Ramgopal Ramsaroop.—29-A, Banstolla Street, Calcutta.
Ramjeevun Sarawgee & Sons.—24, Netaji Subhas Road, Calcutta.
Ramnarain Satyapaul Pvt. Ltd.—22, Canning Street, Calcutta.
Ramprasad Murlidhar & Co.—2, Wellesly Place, Calcutta.
Ramdutt Ramkissendass.—9, Brabourne Road, Calcutta.
Rampartab Bawaniwala & Co.—65, Cotton Street, Calcutta 7.
Ramsaroop Mamchand.—21, Canning Street, Calcutta.
Ramswarup Kanoria.—5, Clive Row, Calcutta.
Ramkishor & Sons.—21, Canning Street, Calcutta.
Ramgopal Atmaram.—25, Burtolla Street, Calcutta
Ranchordass Jethabhai & Co.—12, Lower Chitpur Road, Calcutta.
Ratiram & Sons.—7-A, Clive Row, Calcutta.
Ranjit Kumar Hansiwala.—21-A, Canning Street, Calcutta.
Radhakishan Almal.—35, Burtolla Street, Calcutta.
Ranchordas Purshotam & Co.—19, Amratolla Street, Calcutta.
Rajasthan Commercial Co., Ltd.—8, India Exchange Place, Calcutta.
Rajnikant & Co. (Calcutta).—5, Bentinck Street, Calcutta.
Ramniwas Bangur & Co.—21-A, Canning Street, Calcutta.
Ramrichpal Govindprasad.—21-B, Canning Street, Calcutta.
Rambahadur Thakur & Co.—135, Canning Street, Calcutta.
R. N. Jhunjhunwala & Co., Pvt. Ltd.—9, Ezra Street, Calcutta.
Rungta Brothers.—Golghar, P.O. Gorakhpur (U.P.).
S. N. Bagla & Co.—5, Clive Row, Calcutta.
Shiwshankar Co.—133, Cotton Street, Calcutta.
Sunderlal & Son.—7-A, Clive Row, Calcutta.
Sajan Kumar Kanoria.—59, Netaji Subhas Road, Calcutta.
Santilal Brothers.—25, Pollock Street, Calcutta.
Santram Shewramdass.—168-B, Cross Street, Calcutta.
Sawalram Parasrampuria.—21-A, Canning Street, Calcutta.
Sethia & Sons Pvt. Ltd.—38, Baranashi Ghose Street, Calcutta 7.
Sampatmall Bhanwarlall.—P-36, India Exchange Place, Calcutta.
S. Mukherjee & Co.—36, Strand Road, Calcutta.
Shree Ambica Jute Mills Ltd.—5, Clive Row, Calcutta 1.
Shree Gourishanker Jute Mills Ltd.—10, Clive Row, Calcutta.
Shree Mahadeo Jute Mills Co. Ltd.—46, Strand Road, Calcutta 1.
Shreeniwas Shreekishan & Co.—5, Clive Row, R. No. 16, Calcutta 1.
Sircar & Co.—6, Clive Row, Calcutta.
Somani Brothers Pvt. Ltd.—21, Canning Street, Calcutta.
Soorajmull Nagarmull.—8, Dalhousie Square East, Calcutta.
Sunderdas Thakersey & Brothers.—4, Lucas Lane, Calcutta.
Surajmull Murlidhar.—28, Amratolla Street, Calcutta.
Soorah Jute Mills Co., Ltd.—8, India Exchange Place, Calcutta.
Srikrishna Commercial Co., Ltd.—32, Cross Street, Calcutta.
S. V. Thirunavukarasu Pillai.—2, Mullick Street, Calcutta.
Shree Ganesh Jute Mills Ltd.—4, Dalhousie Square, Calcutta.
Surajmal Motilal.—65, Cotton Street, Calcutta.
Surajmull Chhotaylall Pvt. Ltd.—57, Burtolla Street, Calcutta.

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Shree Bhagwati Trading Co.—5, Clive Row, Calcutta.
Sitaram Farmania & Son.—135, Canning Street, Calcutta.
Sind National Sugar Mills Ltd.—4, Ramkumar Rakhit Lane, Calcutta.
Shri Aryavrat Trading Co., Ltd.—135, Canning Street, Calcutta.
Shiboomull Deepchand.—135, Canning Street, Calcutta.
Sitaram Radheshyam.—59, Netaji Subhas Road, Calcutta.
Singhania Commercial Co.—6, Clve Row, Calcutta.
Santilal & Company.—25, Pollock Street, Calcutta.
Sethia Mercantiles Pvt. Ltd.—1, Commercial Bldg., N. Subhas Road, Calcutta.
Tarachand Gupta & Co.—41, Burtolla Street, Calcutta.
Toolsidass Jewraj.—15, Clive Row, Calcutta.
Tona Jute Company Ltd.—178, Mahatma Gandhi Road, Calcutta.
Tulsan Co.—6, Clive Row, Calcutta.
Umakant & Co. Pvt. Ltd.—4, Mullick Street, Calcutta.
United Trading Co.—133, Canning Street, Calcutta.
Vasanje Morarjee.—4-5, Noormal Lohia Lane, Calcutta.
Virhand Pannachand & Co. (Calcutta) Pvt. Ltd.—37, Canning Street, Calcutta.
Vullubhdas Kalyanjee & Co., Pvt. Ltd.—34-A, Brabourne Road, Calcutta.
Ved Sons & Company.—15-B, Clive Row, Calcutta.

HARDBOARDS

Glass & Plywood Supply Agency.—40, Bowbazar St., Calcutta 12.
Madhavsingh Dwarkadas.—44-45, Ezra St., Calcutta 1.
National Stores.—263, Bowbazar St., Calcutta 12.
Ranvir & Co.—262, Bowbazar St., Calcutta 12.
Robsan & Co. P. Ltd.—P-14, Mission Row Extension, Calcutta 1.

HARDWARE MANUFACTURERS

Arim Tin & Steel Works.—258/4, Upper Circular Road, Calcutta.
Bengal Hardware & Tin Seal Mfg. Co.—70, Netaji Subhas Road, Calcutta.
Bharat Hardware Industries.—1/3, Chetla Road, Calcutta 33.
Chandni Charan Nayak P. Ltd.—124-1, Bowbazar Street, Calcutta 12.
Crown Engineering Corporation.—71-A, Netaji Subhas Road, Calcutta 1.
Das Laha & Co.—113, Monohardas Chowk, Calcutta 7.
Daw & Brothers.—14, Raja Woodmunt Street, Calcutta 1.
Gobindo Sheet Metal Works & Foundry—210, Harrison Road, Calcutta.
M. Chowdhury & Co.—113-G, Netaji Subhas Road, Calcutta 1.
M. C. Mowjee & Co.—46, Ezra Street, Calcutta.
Purushottam Ramji & Sons Ltd.—12, Raja Woodmunt Street, Calcutta.
Shanker Industries.—192, Cross Street, Calcutta.

HARDWARE MERCHANTS

A. D. Coomar & Sons.—12-C, Clive Row, Calcutta 1.
Ajit Brothers.—115, Netaji Subhas Road, Calcutta.
A. K. Dutta & Bros.—113, Netaji Subhas Road, Calcutta.
A. N. Hassanally & Co.—28, Strand Road, Calcutta 1.
A. V. Joshi & Sons.—2, Maharshi Debendra Road, Calcutta.
B. C. Paul S. N. Dey & Co.—70, Netaji Subhas Road, Calcutta 1.
Bengal Hardware Mart.—69-A, N. Subhas Road, Calcutta 1.
Bhartia Commercial Co. Ltd.—23-24, Radhabazar Street, Calcutta 1.
Biswanath Samanta.—2, Maharshi Debendra Road, Calcutta.
Bombay Hardware Mart.—79, Netaji Subhas Road, Calcutta.
Butto Kristo Dey & Gour Hari Rakshit.—113-E, Monohardas Chowk, Calcutta.
C. A. Mohammad.—26, Brabourne Road, Calcutta 1.
Champaklal & Bros.—31, Ganesh Chandra Avenue (Kent House), Calcutta.
Commercial Stores Co.—37, Netaji Subhas Road, Calcutta 1.
Condoo Paul & Co.—20, Raja Woodmunt Street, Calcutta 1.
Crown Engineering Corporation.—71-A, Netaji Subhas Road, Calcutta 1.
Damodardas J. Vora.—47, Ezra Street, Calcutta 1.
Dass Laha & Co.—113, Monohardass Chowk, Calcutta 1.
DATTAS INDIA PRIVATE LTD.—24, Strand Road, Calcutta 1.
F. Hussain & Brothers.—28, Strand Road, Calcutta 1.
Gangoli & Mitra.—115, Netaji Subhas Road, Calcutta 1.
Ghose Mundal & Co.—71-A, Netaji Subhas Road, Calcutta.
Gopal Chunder Das & Co. Pvt. Ltd.—24, Raja Woodmunt Street, Calcutta.
Gopi Nath Paul & Sons.—210, Mahatma Gandhi Road, Calcutta.
Harrison Agency,—71-A, N. Subhas Road, Calcutta 1.
Hassanally & Sons.—50, Netaji Subhas Road, Calcutta 1.
Indestro (India) Agency.—38, Netaji Subhas Road, Calcutta 1.
India Hardware & Tools Co.—20, Netaji Subhas Road, Calcutta 1.
International (India) Agency.—70, Netaji Subhas Road, Calcutta.
I. N. Gangooly & Co.—71-A, Netaji Subhas Road, Calcutta.
Industrial Importers Pvt. Ltd.—4, Dalhousie Square, Stephen House (Room No. 32), 2nd Floor, Calcutta.
Jackeria Oosman & Co.—4, Rajmohan Street, Calcutta 1.
Jiban Krishna Dey & Bros.—102, Netaji Subhas Road, Calcutta.
Jostle Trading Co.—137, Canning Street, Calcutta.

KADAR NAUTH MOOKERJEE & SONS.—34, Strand Road, Calcutta 1; Pipe, Hardware, Mineral and Metal Merchants. Phone : 22-1262, 22-1263; Grams : "PIPEMART."
Kailash Hardware & Tools Co.—224, Mahatma Gandhi Road, Calcutta.
Kanji Pannachand Pvt. Ltd.—No. 8, Armenian Street, Calcutta.
Kaybee & Co.—13, Brabourne Road, Calcutta 1.
K. C. Mukerjee & Sons.—113-E, Monohardas Chowk, Calcutta.
K. D. Gangooly Co.—115, Netaji Subhas Road, Calcutta.
Khandelwal Bros. Pvt. Ltd.—33, Netaji Subhas Road, Calcutta.
Khemchand Rajkumar.—33, Netaji Subhas Road, Calcutta 1.
Kristo Dhone Gangooly & Co.—115, Netaji Subhas Road, Calcutta 7.
L. MULLICK & CO.—81, Netaji Subhas Road, Calcutta 1.
LACHMI HARDWARE STORES.—113, Monohardas Chowk' Calcutta 7.
Lall Behary Mullick & Co.—113, Monohardas Chowk, Barabazar, Calcutta 7.
Loke Nath Chatterjee & Sons.—18, Raja Woodmunt Street, Calcutta.
Machine Tools & Appliances (I) Co.—53, Netaji Subhas Road, Calcutta 1.
Madhabsingh Dwarkadas.—44/45, Ezra Street, Calcutta.
M. Mansukhlall & Co. Pvt. Ltd.—34, Netaji Subhas Road, Calcutta.
Miscellaneous Engineering Stores P. Ltd.—71-A, Netaji Subhas Road, Calcutta 1.
Morris Balfour & Co.—25, Netaji Subhas Road, Calcutta 1.
Motiram Agarwal & Co. Pvt. Ltd.—137, Canning Street, Calcutta.
Mukerjee & Co.—115, Netaji Subhas Road, Calcutta.
Nabo Krishna Dey.—113-E, Monohardas Chowk, Calcutta.
N. Solomon & Co. P. Ltd.—29, Strand Road, Calcutta 1.
Olympic Trading Corporation.—25, Swallow Lane, Calcutta 1.
Parkash Impex.—18, Netaji Subhas Road, Calcutta.
P. B. Shah & Co., Pvt. Ltd.—34, Netaji Subhas Road, Calcutta.
P. C. Dutt & Co.—71-A, Netaji Subhas Road, Calcutta 1.
Rasiklal & Brothers.—113-B, Monohardas Chowk, Calcutta 7.
Republic Trading Corporation.—91, Netaji Subhas Road, Calcutta.
Robsan & Co. P. Ltd.—P-14, Mission Row Extn., Calcutta 1.
Saraswati Chandra Doongershi.—32, Netaji Subhas Road, Calcutta.
SHASHIKANT & BROTHERS.—15, Laxmi Mansion, Jamshedpur 1.
S. F. Hatim & Co.—28-A, Netaji Subhas Road, Calcutta 1.
S. Kantilall & Co.—79, Netaji Subhas Road, Calcutta.
S. M. Dey & Co.—51-3D, Strand Road, Calcutta 7.
Sooresh Chandra Mookerjee & Co.—71-A, Netaji Subhas Road, Calcutta 1.
STANDARD METAL CO.—101, Netaji Subhas Road, Calcutta 1.
T. E. Thomson & Co. Ltd.—9-A, Esplanade East, Calcutta 1.
United Hardware Stores.—90, Netaji Subhas Road, Calcutta.
Vasantrai Shantilal.—18, Pollock House, Brabourne Road, Calcutta.
Vulcan Electric & Engineering Co.—12-B, Lower Chitpur Road, Calcutta 1.
Wire Products Agency.—9, Brabourne Road, Calcutta.

HEMP MANUFACTURERS

Chittagong Co. Ltd.—6, India Exchange Place, Calcutta.
Jagannath Brothers.—2, Ghusury Road, Salkia, Howrah.
Jute Bailing & Trading Co., Ltd.—8, Dalhousie Square East, Calcutta.
L. N. Poddar & Co. Ltd.—"Stephen House", R. No. 5, 4, Dalhousie Square East, Calcutta.
Sadhuram Tularam.—29, Sir Hari Ram Goenka Street, Calcutta.
Soorajmull Nagarmull.—8, Dalhousie Square East, Calcutta.
United Asian Traders Ltd.—2, Raja Woodmunt Street, Calcutta.

HESSIAN & GUNNY BAGS

BITHALDAS BINANI.—43, Strand Road, Calcutta.

HIDES & SKINS MERCHANTS & EXPORTERS

A. G. Sarfuddin Md. Tyeb.—8, Peters Lane, Calcutta.
A. N. Kasem & Brothers.—60, Narkeldanga North Road, Calcutta.
Abdul Hai Md. Razi & Co.—15, Harinbari Lane, Calcutta.
Abdul Hafiz & Co.—19, Harinbari Lane, Calcutta.
Abdul Hakim.—11-2, Harsi Street, Calcutta.
Abdul Hasnat Md. Mohsin.—14, Harinbari Lane, Calcutta.
Abdul Hoque & Brothers.—7-1, Gas Street, Calcutta.
Abdul Wadood.—11-2, Harsi Street, Calcutta.
Allahabad Hide Agency.—14, Damzen Lane, Calcutta.
Amir Akbar & Co.—7-1, Gas Street, Calcutta.
Anwarul Hoque & Bros.—11, Colootola Street, Calcutta.
Azad Hind Agency.—10, Sreenath Babu Lane, Calcutta.
Azaz Mateen & Co.—11/2, Harsi Street, Calcutta.
Badal Chandra Dass.—11-2, Harsi Street, Calcutta.
Barkatulla & Co.—1, Damzen 2nd Lane, Calcutta.
Best Hide Co.—11-1, Harsi Street, Calcutta.
Bihar Hide & Bone Agency.—9-1, Damzen Lane, Calcutta.
Calcutta Hide Co.—14, Maharani Swarnamoyee Road, Calcutta.
Calcutta Hide Skin Supply Co.—12, Tirittabazar Street, Calcutta.

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Central Hide Co.—7-2, Gas Street, Calcutta.
Central Hide Trading Co.—9, Maharani Swarnamoyee Road, Calcutta.
Chowdhuri Hafzul Haque & Brothers.—16, Maharani Swarnamoyee Road, Calcutta.
Dr. Md. Solaiman & Co.—30, Harinbari Lane, Calcutta.
East India Goat Skins Co.—13, Mir Mehar Ali Lane, Calcutta 15.
East India Tannery Co.—50A, Pheers Lane, Calcutta 12.
Evergreen Hide Skin Co.—47-5, Canal East Road, Calcutta.
Faik Brothers.—14, Maharani Swarnamoyee Road, Calcutta.
General Hide Co.—10, Tiretta Bazar Street, Calcutta.
Gerdau India Corpn.—5-A, Ezra Mansions, Calcutta.
Golden Hide Agency.—7, Rajmohan Street, Calcutta.
H. A. Bari & Co.—22, Zakariah Street, Calcutta.
Hafiz Md. Yusuf & Co.—71, Pheers Lane, Calcutta.
Haji Abdul Hak Ruhul Amin.—3/1, Damzen Lane, Calcutta.
Haji Abdul Hamid Khan.—52, Narkeldanga North Road, Calcutta.
Haji Abdul Gafur.—6, Sreenath Babu Lane, Calcutta.
Haji Mir Saber Ali.—16, Maharani Swarnamoyee Road, Calcutta.
Haji Munir Hossain.—3, Damzen Lane, Calcutta.
Haji Nurul Islam Khan.—2, Damzen Lane, Calcutta.
Haji Sk. Md. Hossain Md. Jan.—20, Tiretta Bazar Street, Calcutta.
H. M. Yakoob & Co.—73, Colootola Street, Calcutta.
Hansa India Corpn.—29, Colootola Street, Calcutta.
Haq Brothers.—11-2, Harsi Street, Calcutta.
Hide Agency.—71, Narkeldanga North Road, Calcutta.
Hindustan Eximp Traders Ltd.—19, British Indian Street, Calcutta.
Hindusthan Hide Dealers Co.—11-2, Harsi Street, Calcutta.
Hooghly Hide Skin Co.—9, Maharani Swarnamoyee Road, Calcutta.
Iftikhar Ahmed & Co.—88, Colootala Street, Calcutta.
India Hide Skin Co.—11-2, Harsi Street, Calcutta.
Indian Hide & Skin Agency.—11, Damzen Lane, Calcutta.
Inland Hide Trading Corpn.—47-5, Canal East Road, Calcutta.
Janata Hide Agency.—6, Harinbari Lane, Calcutta.
Jitendra Nath Sen Gupta.—7-1, Gas Street, Calcutta.
Kamal Bros.—38-1, Canal East Road, Calcutta.

KAZI WASIMUDDIN KAZI RAHIMUDDIN.—11/2, Harsi Street, Calcutta. Hides & Skins Merchants.

Lucky Hide Agency.—9, Maharani Swarnamoyee Road, Calcutta.
M. Arif & Brothers.—60, Narkeldanga North Road, Calcutta.
M. A. Rahim & Brothers.—61, Narkeldanga North Road, Calcutta.
M. Abdul Alim.—5, Narkeldanga Cross Lane, Calcutta.
M. Abdul Ali.—9, Maharani Swarnamoyee Road, Calcutta.
M. Akhtar Alam.—1, Damzen Lane, Calcutta.
M. Ekbal & Co.—7, Damzen Lane, Calcutta.
M. Hamza & Co.—9, Maharani Swarnamoyee Road, Calcutta.
M. Jamil Ahmed & Sons.—10, Damzen Lane, Calcutta.
M. L. Rahman & Sons.—49-2, Canal East Road, Calcutta.
M. Rafiq Brothers.—11-2, Harsi Street, Calcutta.
M. Mursalin & Co.—60, Narkeldanga North Road, Calcutta.
M. Y. Nazir Alam.—20, Tirittalazar Street Calcutta.
M. Mahfuz & Bros.—47-5, Canal East Road, Calcutta.
M. Y. Hide Co.—5, Harinbari Lane, Calcutta.
Maula Bux & Co.—1, Damzen Lane, Calcutta.
Md. Haroon.—7-2, Gas Street, Calcutta.
Md. Fazle Elahi & Sirajuddin Ahmed.—9, Maharani Swarnamoyee Road, Calcutta.
Md. Hanif Md. Taher.—16, Maharani Swarnamoyee Road, Calcutta.
Md. Idris.—11-2, Harsi Street, Calcutta.
Md. Idris Nazir Ahmed & Co.—8, Harinbari Lane, Calcutta.
Md. Masood Ashraff.—5, Harinbari Lane, Calcutta.
Md. Mokim.—11/2, Harsi Street, Calcutta.
Md. Mukarim.—11-2, Harsi Street, Calcutta.
Md. Osman.—5, Harinbari Lane, Calcutta.
Md. Syeed.—7, Maharani Swarnamoyee Road, Calcutta.
Md. Suhail & Co.—11, Colootola Street, Calcutta.

MEHBOOB & CO.—64, North Road, Narkeldanga, Calcutta.

Mehboob Alam & Co.—63, Pheers Lane, Calcutta.
Midnapur Hide & Skin Co.—7-1, Gas Street, Calcutta.
Misbahul Haque & Co.—17, Harinbari Lane, Calcutta.
Millat Hide Co.—38-1, Canal East Road, Calcutta.

MOHAMEDDIN (INDIA) PRIVATE LTD.—29, Colootola Street, Calcutta.

Model Hide & Skin Dealers.—11-1, Harsi Street, Calcutta.
Moula Bux & Co.—1, Damzen Lane, Calcutta.
Mumtaz Ahmed & Co.—7, Harin Bari Lane, Calcutta.
Muneer Ahmed & Co.—1, Sreenath Babu Lane, Calcutta.
Munshi Abdul Jabbar & Co.—1, Narkeldanga Cross Lane, Calcutta.
Munshi Dilian Ali.—12-1, Kesaibasti 1st Lane, Calcutta.
Munshi Fazlur Rahman & Brothers.—11-1, Harsi Street, Calcutta.
National Hide Corpn.—32, Harinbari Lane, Calcutta.
National Hide Skin Co.—32, Harinbari Lane, Calcutta.
National Skin Corpn.—70, Debendra Chandra De Road, Calcutta 15.
Nazir Ahmed & Brothers.—34, Harinbari Lane, Calcutta.

NOORUL ISLAM KHAN.—2, Damzen Lane, Calcutta 12; Manufacturers & Stockists of Tallow.

Oriental Hide Agency.—71, Narkeldanga North Road, Calcutta.
Patna Hide Co.—11-1, Harsi Street, Calcutta.

P. PAGNON CO.—7, Colootolla Street, Calcutta; Specialist in Reptile Skins.

Ramso Hide Traders.—9-1, Damzen Lane, Calcutta.
S. Abdus Samad.—9-1, Kesaibasti 1st Lane, Calcutta.
S. Amir Haidar.—11-1, Harsi Street, Calcutta.
S. Ahmed.—11-2, Harsi Street, Calcutta.

S. BARKATULLA & CO.—2, New Tangra Road, Calcutta 15.

Shakeel & Co.—11/1, Harshi Street, Calcutta.
Sk. Bair & Co.—12, Harinbari Lane, Calcutta.
S. M. Mustafa.—297-1, Upper Circular Road, Calcutta.
S. M. Nabi & Chowdhury Brothers.—11-2, Harsi Street, Calcutta.
S. M. Hanif & Brothers.—11-2, Harsi Street, Calcutta.
S. M. Nasim & Co.—21, Harinbari Lane, Calcutta.
S. Md. Hadi.—31, Harinbari Lane, Calcutta.
Sarfuddin Ahmed Md. Mustafa.—5, Harinbari Lane, Calcutta.
Sarwar Alam.—3, Harinbari Lane, Calcutta.
Shamim & Co.—9, Harinbari Lane, Calcutta.
Standard Hide Co.—11-2, Harsi Street, Calcutta.
Suhail & Co.—11, Colootala Street, Calcutta.
Tirhut Hide Agency.—15, Harinbari Lane, Calcutta.
United Hide Agency.—22, Harinbari Lane, Calcutta.
United India Hide Co.—3-2, Kesaibasti 1st Lane, Calcutta.
Universal Hide Skin Co.—60, Narkeldanga North Road, Calcutta.
Vianests Calcutta Goat Skins Pvt. Ltd.—60, Chigrihatta Road, Calcutta 15.
Wahidur Rahman & Brothers.—11-2, Harsi Street, Calcutta.
Wares Jamil & Bros.—62, Pheers Lane, Calcutta.
West Bengal Hide Co.—7, Maharani Swarnamoyee Road, Calcutta.
Zahir Ahmed & Co.—4, Peters Lane, Calcutta.
Ziaul Haque & Co.—1, Patuapara Lane, Calcutta.

HOMOEOPATHIC MEDICINES

JAMSHEDPUR HOMOEO MEDICAL HALL.—3/9, Sakchi, Jamshedpur.

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Bengal Belting Works Ltd.—2, Dalhousie Square East, Calcutta 1.
B. B. Chatterjee & Co. Pvt. Ltd.—22, Raja Woodmunt Street, Calcutta 1.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta.
Kilburn & Co. Pvt. Ltd.—2, Fairlie Place, Calcutta 1.
Mundra & Co.—8, Canning Street, Calcutta.
Nundlall Inderchand Pvt. Ltd.—10, Canning Street, Calcutta 1.
Wren & Co.—D., Warley House, 25, Swallow Lane, Calcutta 1.

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The Manager,
AGARPARA KUTIR SILPA PRATISTHAN,
P. O. Agarpara, 24 Parganas.

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Akhoy Textiles.—80, Ramkanto Bose Street, Calcutta 3.
Amiya Hosiery Mills Pvt. Ltd.—4, Mahendra Goswami Lane, Calcutta 6.
A. N. Bose's Knitting Factory.—10, Anil Roy Road, Calcutta 29.
Annapurna Textiles.—5, Gopi Roy Lane, Calcutta 5.
Ananta Textiles.—39, Sovabazar Street, Calcutta 5.
Aruna Hosiery.—17, Guruprasad Roy Lane, Calcutta 5.
Ashok Knitting Industries.—20-A, Gourlaha Street, Calcutta 6.
Asia Hosiery Mills Pvt. Ltd.—73-6, Grey Street, Calcutta 5.
Balasur Hosiery.—19, Bonomali Sircar Street, Calcutta 5.
Bangojanani Hosiery Pvt. Ltd.—28, Tollygunge, Circular Road, Calcutta 33.

BANGESWARI COTTON MILLS LTD.—63, Radha Bazar Street, Calcutta 1.

Bangosree Hosiery Factory.—34, Shib Thakur Lane, Calcutta 7.
Beleghata Hosiery Pvt. Ltd.—P-55, (C.I.T.), Sovabazar, Calcutta 5.
Bengal Hosiery Mills.—90-1, Hazra Road, Calcutta 26.
Bengal Knitting Works.—1, Basak Dighi Lane, Calcutta 7.
Bharat Lakshmi Hosiery Industries Pvt. Ltd.—26, Canal West Road, Calcutta 4.
Bharat Silpa.—83, Taltala Lane (North), Calcutta 14.
Bharat Silpa Hosiery Factory.—20-A, Gourlaha Street, Calcutta 6.
Bhawani Hosiery Mills.—27-5, Rash Bagan Lane, Calcutta 10.
Bina Hosiery Mills.—1, Sibtala Street, Calcutta 7.
Birendra Hosiery.—34-A, Gorachand Bose Road, Calcutta 6.
Bisnath Textiles.—29-30, Khelat Babu Lane (Tala), Calcutta 2.
Biswaroopa Knitting Mills.—17, Guru Prasad Roy Lane, Calcutta 5.
Bombay Textiles.—58-2-1A, B. T. Road, Calcutta 2.
Broadway Textile & Hosiery Mills.—123-B, Raja Dinendra Street, Calcutta 4.

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Calcutta Textiles Pvt. Ltd.—3, Kumartuli Street, Calcutta 5.
Central Textile Mills.—149, Mahatma Gandhi Road, Calcutta 7.
Cherry Hosiery Mills Pvt. Ltd.—21, Srinath Mookerjee Lane, Calcutta 30.
Cosmos Hosiery House.—35, Darponarayan Tagore Street, Calcutta 6.
Crown Hosiery Factory.—24-1, Baldeopara Road, Calcutta 6.
D. A. V. Hosiery Factory Pvt. Ltd.—171-A, Mahatma Gandhi Road, Calcutta 7.
D. N. Bose's Hosiery Factory.—36/1-A, Sarker Lane, Calcutta 7.
Dayamayee Shambhunath Hosiery.—76/1-C, Upper Circular Road, Calcutta 9.
Deshbandhu Hosiery Factory.—100-A, Garpar Road, Calcutta 9.
Deema Hosiery Works.—101-1, Karaya Road, Calcutta 17.
Dhakuria Hosiery Mills.—46-6, Babu Bagan Lane, Calcutta 31.
Dhakeswari Knitting Mills.—53, Sikdarpara Street, Calcutta 7.
Dinanath Hosiery Mills.—P-2/1, C. I. T. L. I. Madonmohantolla, Calcutta 5.
Dulal Knitting Mills.—13, Pageyapatty Street, Calcutta 7.
Durga Textiles.—17-2, Girish Vidyarathna Lane, Calcutta 9.
East Bengal Hosiery Mills.—23, Bhawani Datta Lane, Calcutta 7.
East End Hosiery Mills Pvt. Ltd.—100, Raja Dinendra Street, Calcutta 6.
Empire Hosiery Mills Pvt. Ltd.—79-B, Sova Bazar Street, Calcutta 5.
Empress Hosiery Mills.—79-B, Sova Bazar Street, Calcutta 5.
Exchange Hosiery.—2, Basak Lane, Calcutta 7.
Gambhir Hosiery Mills.—203, Mahatma Gandhi Road, Calcutta 7.
Giri Gopal Hosiery Pvt. Ltd.—108-E, Debendra Chandra De Road, Calcutta 15.
Globe Hosiery Mills Pvt. Ltd.—1, S. K. Deb Road, Calcutta 28.
Golden Hosiery & Cotton Mills.—208, Cross Street, Calcutta 7.
Golden Hosiery Mfg. Co. Pvt. Ltd.—38, Garanhatta Street, Calcutta 6.
Gopal Hosiery.—P.O. Jadavpore Colony, Calcutta 32.
Gourgopal Hosiery.—1, Sibtala Street, Calcutta 7.
Gouri Knitting Mills.—17, Guruprasad Roy Lane, Calcutta 5.
GUJARAT KNITTING MILLS.—14/2, Old China Bazar Street, 3rd Floor, Room No. 223, Calcutta 1; Manufacturers and Exporters of Hosiery goods, Stockinette and cleaning cloth.
Habibpore Hosiery Factory.—6, Marcus Square, Calcutta 7.
Hari Knitting Mills.—30, Sir Hariram Goenka, Street, Calcutta 7.
Harihar Knitting Mills Pvt. Ltd.—54, Shambazar Street, Calcutta 4.
Harimoni Textiles.—85-A, Sova Bazar Street, Calcutta 5.
Heera Hosiery Mills.—15-A, Anath Deb Lane, Calcutta 6.
Hind Hosiery Mills Pvt. Ltd.—161-1, Mahatma Gandhi Road, Calcutta 7.
Hira Textiles.—2, Munshi Sadaruddin Lane, Calcutta 7.
Hosiery Emporium.—23, Tarachand Datta Street, Calcutta 1.
Hosiery Corporation of India.—12, Jatindramohan Avenue, Calcutta 6.
India Hosiery Mills.—223, Manicktala Main Road, Calcutta 1.
Indian Textile Mills.—1, Sibtala Street, Calcutta 7.
Indu Hosiery Mills Pvt. Ltd.—9, India Exchange Place, Calcutta 1.
Industries Corporation of Bengal Ltd.—60/1, Hazra Road, Calcutta 19.
International Hosiery Mills.—1, Sibtala Street, Calcutta 7.
J. B. Industries.—21, Gourlaha Street, Calcutta 6.
J. C. Co. Pvt. Ltd.—P-38 (Now 16), B. K. Paul Avenue, Calcutta 5.
J. N. Textiles.—102, Sova Bazar Street, Calcutta 5.
Jai Biswanath Hosiery Mills.—20-F, Talpukur Road, Calcutta 10.
Jagadish Hosiery Factory.—33-B, Sudhir Chatterjee Street, Calcutta 6.
Janaki Kanai Hosiery.—25-1, Nather Bagan Street, Calcutta 5.
Jawahar Textiles.—7, Grant Lane, Calcutta 12.
Jaysree Knitting Mills Pvt. Ltd.—161-1, Mahatma Gandhi Road, R. No. 61, Calcutta 7.
Jhamapukur Hosiery Factory Pvt. Ltd.—3, Brojonath Mitter Lane, Calcutta 9.
Jharna Textiles.—P-11A, B. K. Paul Avenue, Calcutta 5.
Jogamaya Hosiery.—13-1, Kali Kumar Banerjee Lane, Calcutta 2.
Joy Durga Textiles.—40, Balaram Mazumder Street, Calcutta 5.
Kailash Pvt. Ltd.—101, Park Street, Calcutta 16.
Kalighat Hosiery Factory.—231, Rashbehari Avenue, Calcutta 19.
Kali Knitting Mills.—3, Bonomali Sarker Street, Calcutta 5.
Kamal Textiles.—7, Monmatha Datta Road, Calcutta 37.
Kanika Textiles.—12, Guru Prasad Roy Lane, Calcutta 5.
Kidderpore Hosiery Mill.—2-C, Ashu Babu Lane, Calcutta 23.
Kumudini Textiles.—102-1, Hari Ghose Street, Calcutta 6.
L. A. Textiles.—3-B, Kebal Krishna Sur Street, Calcutta 5.
Lakshmi Narayan Knitting Mill.—48/1A, Nandoram Sen Street, Calcutta 5.
Lakshminarayan Hosiery Mills.—30, Sett Dagan Lane, Calcutta 6.
Lakshmisri Hosiery Factory.—63-A, Satish Mukerji Road, Calcutta 26.
Lakshmi Bejay Textile Industries.—8-G, Krittybash Mukerji Road, Calcutta 4.
Lilly Hosiery Industries.—6-A, Dehi Serampore Road, Calcutta 14.
Lion Hosiery Mills.—29, Sahitya Parisad Street, Calcutta 6.
LIME WHITE INDUSTRIES PRIVATE LTD.—12-3, Palm Avenue, Calcutta 19. Manufacturers of quality hosiery goods and Suppliers to big concerns.
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Luxmi Industries.—17, Guruprasad Roy Lane, Calcutta 5.
Makali Labour Industries.—5, Bonomali Sarker Street, Calcutta 5.
Maya Hosiery Mills.—225-A, Rashbehari Avenue, Calcutta 19.
Maya Textiles.—10, Balaram De Street, Calcutta 5.
Mira Knitting Works.—31, Robert Street, Calcutta 12.
Modern Textiles.—21, Balaram Majumder Street, Calcutta 5.
Modern Textiles.—H. No. 23-A, 1/4C, Khagundra Chatterjee Street, Calcutta 2.
Monahar Industries.—223-A, Manicktola Main Road, Calcutta 11.
Monomohan Hosiery.—P-92, B. K. Paul Avenue, Calcutta 5.
Nahata Hosiery.—16, Tarachand Datta Street, Calcutta 1.
Nandarani Hosiery Mills.—8, Sambhu Mallick Lane, Calcutta 7.
Nandi Hosiery Mills.—2-B, Hajee Jakaria Lane, Calcutta 6.
Narendra Hosiery Mills.—65-B, Kali Datta Street, Calcutta 5.
National Hosiery Mills, 132.—Old China Bazar Street, Calcutta 1.
New Asiatic Hosiery Works.—11, Watkins Lane, Howrah.
New Empire Hosiery Mills.—21, Adhar Chandra Das Lane, Calcutta 4.
New Friends Hosiery.—263-A-1, Upper Chitpore Road, Calcutta 5.
Nityananda Hosiery Mills.—20 Sarker Lane, Calcutta 7.
Obinash Hosiery.—22, Gorachand Road, Calcutta 17.
Omur Textile Works.—117-B, Grey Street, Calcutta 5.
P. Bhattacharia Hosiery Factory.—83, Charakdanaga Road, Calcutta 10.
Panchanan Hosiery.—20-1A, Brindaban Basak Street, Calcutta 5.
Parbati Hosiery Mills Pvt. Ltd.—10, Panchanan Mukerjee Road, Calcutta 2.
Paradise Hosiery Mills.—1, Hari Ghose Street, Calcutta 6.
Parrot Hosiery Factory.—14-2, Sovaram Basak Street, Calcutta 7.
Priya Hosiery Works.—20-B, Bonomali Sarker Street, Calcutta 5.
Purnima Hosiery Mills.—43-1, Paddopuker Road, Calcutta 20.
Radhika Hosiery Mills.—2, Nivedita Lane, Calcutta 3.
Radhakrishna Hosiery.—69-6, Ratan Sarker Garden Street, Calcutta 7.
Rama Hosiery Mills.—3-B, Kebal Krishna Soor Street, Calcutta 5.
Ramkrishna Hosiery Factory Pvt. Ltd.—21, Sukeas Lane, Calcutta 1.
Ramensons Pvt. Ltd.—P-98, B. K. Paul Avenue, Calcutta 5.
Raimohan Hosiery Mills.—44-C, Masjidbari Street, Calcutta 6.
Ranjan Hosiery Factory Pvt. Ltd.—26-A, Kali Datta Street, Calcutta 5.
Ravindra Hosiery Industry.—25, Baranashi Ghose Street, Calcutta 7.
Regal Hosiery Mills.—Kumarpara, Liloah, Howrah.
Robin Hosiery Factory.—29-A, Guruprasad Choudhury Lane, Calcutta 6.
Royes Hosiery Mills.—117-B, Grey Street, Calcutta 5.
Rupam Textiles (India) Pvt. Ltd.—20, Seven Tanks Lane, Calcutta 30.
S. A. Hosiery.—16-B, Ramchand Ghose Lane, Calcutta 6.
Sachin Hosiery.—3, Bonomali Sarker Street, Calcutta 5.
Saila Hosiery Factory.—20-C, Kashi Mitra Ghat Street, Calcutta 3.
Sarada Hosiery.—27-A, Bonomali Sarker Street, Calcutta 5.
Santi Hosiery Mills.—74-2-B, Surash 1st Lane, Calcutta 10.
Sarda Hosiery Mills.—2, Raja Woodmunt Street, Calcutta 1.
Sashi Knitting Mills.—5, Gopi Roy Lane, Calcutta 5.
Serampore Hosiery Textile & Industries Pvt. Ltd.—195/1, Mahatma Gandhi Road, Calcutta 7.
Shrimali Hosiery Factory.—35, Darponarayan Tagore Street, Calcutta 6.
Siddheswari Hosiery Factory.—113, Beniatola Street, Calcutta 5.
Silpa Bharati Hosiery & Mills.—142, Dharamtala Street, Calcutta 13.
Spider Knitting Industries.—79, Ahiritolla Street, Calcutta 5.
Sreebash Textiles.—30, Nivedita Lane, Calcutta 3.
Sreedhar Hosiery Mills.—29, Sahitya Parisad Street, Calcutta 26.
Sree Guru Textiles.—1, Manmathonath Ganguly Road, Calcutta 2.
Sreejain Hosiery Factory.—100, Mahatma Gandhi Road, Calcutta 7.
Sreekali Hosiery.—33, Haralal Mitra Street, Calcutta 3.
Sree Krishna Hosiery Factory.—3, Bipradas De Lane, Calcutta 5.
Sreema Hosiery.—30-F, Ramkrishna Samadhi Road, Calcutta 11.
Sreema Textiles.—18, Bonomali Sarker Street, Calcutta 5.
Sreepati Hosiery Mills Pvt. Ltd.—12, Grant Lane, Calcutta 12.
Sree Radha Hosiery.—10, Sovabazar Street, Calcutta 5.
Sree Radhakrishna Hosiery.—8, Santi Ghose Street, Calcutta 3.
Sree Ramkrishna Textiles.—11, Gossain Lane, Calcutta 3.
Srinibash Textiles.—5, Protap Chatterjee Lane, Calcutta 12.
Star Hosiery.—10, Balaram De Street, Calcutta 6.
Subhalakshmi Hosiery Mills.—77, Satish Mukerji Road, Calcutta 26.
Suchitra Textile Works.—20-C, Bonomali Sarker Street, Calcutta 5.
Sur Hosiery Factory.—16-A, Durga Charan Mukerjee Street, Calcutta 3.
Surama Knitting Mills.—10, Raja Brojendranarayan Street, Calcutta 7.
Surendra Textile Mills.—14, Sovabazar Street, Calcutta 5.
Swaraj Hosiery Mills.—P-94, B. K. Paul Avenue, Calcutta 5.
Tejendra Textile Co.—25, Sovabazar Street, Calcutta 5.
Tol Basail Hosiery.—5, Baranashi Ghosh Street, Calcutta 7.
U. B. Textiles.—5, Bonomali Sircar Street, Calcutta 5.
Universal Hosiery Mills Pvt. Ltd.—100, Raja Dinendra Street, Calcutta 6.
VASANTA HOSIERY & MILLS.—29-1, College Row, Calcutta 9.
Verman Knitting Mills.—12, Grant Lane, Calcutta 12.
Vikrampore Textiles.—23, Avoy Mitra Street, Calcutta 5.
West Bengal Hosiery Industries.—41-B, Brojodulal Street, Calcutta 6.

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SPENCES HOTEL LTD.—4, Wellesley Place, Calcutta 1.

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Bandaghat Jute Prss.—4 & 6, Old Ghoosery Road, Sulkea, Howrah.
Bhagwati Pressing Co. Ltd.—121, Jogendranath Mukerjee Road, Sulkea, Howrah.
Chitpur Pressing Co. Pvt. Ltd.—15, Kaliprasanna Singhee Road, Cossipore.
Cossipore Hydraulic Press.—15-A, Ratan Babu Road, Cossipore.
Empress of India Jute Press.—54, Ghoosery Road, Sulkea, Howrah.
Hanuman Jute Press.—28, Old Ghoosery Road, Sulkea, Howrah.
Hooghly & Ganges Hydraulic Press Co. Ltd.—1, Chitpore Ghat Lane, Cossipore.
Imperial Jute Press Pvt. Ltd.—55, Ghoosery Road, Sulkea, Howrah.
Lohia Jute Press Pvt. Ltd.—28, Barrakpore Trunk Road, Calcutta.
New India Jute Press.—4, Gun Foundry Road, Cossipore.
Ocean Jute Press.—2, Dealerjung Road, Cossipore.
Shiva Jute Pvt. Ltd.—4, Kaliprasanna Singhee Road, Cossipore.
Sri Durga Cotton Ginning and Pressing Factory.—2, Church Lane, Calcutta.
Sulkea Jute Pressing Co., Pvt. Ltd.—57, Old Ghoosery Road, Howrah.
Sun Jute Press Pvt. Ltd.—3, Cossipore Road, Cossipore.
Suraj Jute Press.—1-4, Gun Foundry Road, Cossipore.
Victoria Hydraulic Press.—111, Cossipore Road, Cossipore.
Vishnu Jute Press.—2, Turner Road, Cossipore.

IMPORTERS & EXPORTERS

Abdul Karim Noor Mohamed & Co.—59, Canning Street, Calcutta.
Acharya Brothers.—P-23/24, Radha Bazar Street, Calcutta.
Adair, Dutt & Co. (India) Private Ltd.—Stephen House, 5, Dalhousie Square East, Calcutta.
Agrawal Trading Corporation.—191, Harrison Road, Calcutta.
American Pipe Co.—135, Canning Street, Calcutta.
Arun Chandra Mandal.—8-A, Daspara Road, Calcutta.
Aryan Mining & Trading Corporation Private Ltd.—61, Strand Road, Calcutta 6.
Ashok Exporters & Importers.—4, Bhawani Dutt Lane, Calcutta.
B. Patnaik (Mines).—33, Chittaranjan Avenue, Calcutta.
B. P. Khemka Ltd.—5, Clive Row, Calcutta.
Babulall & Co. Private Ltd.—13, Syed Salley Lane, Calcutta.
Baijnath Sarda.—15-B, Clive Row, Calcutta.
Ballabhram Badrinarain.—135, Canning Street, Calcutta.
Banshidhar Purshottamdas.—178, Mahatma Gandhi Road, Calcutta.
Banwarilall Sath.—89, Netaji Subhas Road, Calcutta.
Basmall & Co. (I) Pvt. Ltd.—Bangur Avenue, Calcutta 28.
Bengal Minerals Supply Co.—71-A, Netaji Subhas Road, Calcutta 1.
Bharat Kala Bhandar Ltd.—8, Royal Exchange Place, Calcutta.
Bhikamchand Bolaram.—35, Armenian Street, Calcutta.
Biyani & Sons Ltd.—137, Canning Street, Calcutta.
Bridhichand Ridhkaran.—87, Old China Bazar Street, Calcutta.
Bubna More & Co.—5, Clive Row, Calcutta.
Calcutta Silk Manufacturing Co. Ltd.—37, Vivekananda Road, Calcutta.
Camera Exchange.—17/2-A, Chowringhee Road, Calcutta.
Central Trading Co.—137, Canning Street, Calcutta.

CHAMPAKLAL & BROTHERS.—P-33, Mission Row Extension, Kent House, Calcutta. Importers of Ball, Roller, Taper Roller Bearings and parts, G.I. Wire, Steel pipes, Fittings, Handwares, Drugs and medicines, Dyes and Sundries; Exporters of Raw Cotton, Jute goods, Shellac, Hosiery-wares and other sundries.

Chandi Prasad More & Co.—5, Clive Row, Calcutta.
Chhaganlal Hanumandas.—157, Netaji Subhas Road, Calcutta.
Chhaganlal Kasturchand.—16, Pollack Street, Calcutta.
Chonthmal Saraf.—62, Nalini Seth Road, Calcutta.
Chowgule & Co. (Hind) Private Ltd.—"Laha Paint House", 7, Chittaranjan Avenue, Calcutta 13.
Christian Mica Industries Ltd.—4, Lyons Range, Calcutta.

D. A. MEHRA.—89, Netaji Subhas Road, Calcutta 1; Importers of Tool and Alloy Steel.

D. N. Bakshi & Sons.—152-B, Mahatma Gandhi Road, Calcutta.
Dass & Co. (India) Private Ltd.—43, Dharamtolla Street, Calcutta.
Dawjee Dadabhoy & Co.—67, Canning Street, Calcutta 1.
Dayal & Sons.—22, Swallow Lane, Calcutta.
Dipak Trading Co.—15, Amratolla Lane, Calcutta.
Dulichand Kashiprasad.—18, Amratolla Street, Calcutta.
East Coast Export-Import Ltd.—"Rampooria" House, 3, Wood-bern Road, Calcutta 20.
East India Commercial Co. Ltd.—38, Netaji Subhas Road, Calcutta.
East India Commercial Corporation.—174, Mahatma Gandhi Road, Calcutta.
Eastern Cotton Co.—14/2, Old China Bazar Street, Calcutta.
Ess Lahiri & Co. (Private) Ltd.—2, Church Lane, Calcutta 1.
Gangadhar Ramchander.—402, Upper Chitpore Road, Calcutta.
Garg & Sons.—138, Canning Street, Calcutta.
Gopikishan Shrikishan.—55, Jumnalal Bajaj Street, Calcutta.
Ganpatray Private Ltd.—2, Pretoria Street, Calcutta.
Hanumanbux Surajmall Ltd.—P-8, Mission Row Extension, Calcutta.
Hind Enterprises.—8, Dalhousie Square East, Calcutta.
Hind General Mercantile Agency Ltd.—8, Lyons Range, Calcutta.
Hinduk Trading Co. (India) Private Ltd.—3, Stephen House, Dalhousie Square East, Calcutta.
Hira Trading Co.—514, Ezra Street, Calcutta.
Industrial Traders.—138, Canning Street, Calcutta.
International Exporters Ltd.—178, Mahatma Gandhi Road, Calcutta 7.
Ishwardas Jhabarmal.—P-10, New Howrah Bridge Approach Road, Calcutta.
Jamnadas & Co.—27, Amratolla Lane, Calcutta.
Jankidas Ramgopal.—48, Canning Street, Calcutta.
Jeethmull Raichand Lall.—113, Netaji Subhas Road, Calcutta.
Jiwanram Sheaduttrai.—30, Ganesh Chandra Avenue, Calcutta.
Jugalkishore Maheshwari.—12, Netaji Subhas Road, Calcutta.
K. N. Jain & Sons.—29, Strand Road, Calcutta.
Kajaria Sons Ltd.—32, Ezra Street, Calcutta.
Kalidas Maganlal Shah & Co.—4, Rupchand Roy Street, Calcutta.
Kamala Textile Agency.—113-B, Manohardas Katra, Calcutta.

KAMALALAYA (EXPORT) PRIVATE LTD.—14, Ballygunge Station Road, Calcutta 19; Manufacturers & Exporters; Government, Military and Railway Contractors; "KAMALA" Brand Ready made Clothings, Sola Hats and Helmets; "Swanback" Brand Rubberless Raincoats, Waterproofed Tarpaulins, Tents, Ground Sheets and Umbrellas, etc.

Kanji Pannachand Pvt. Ltd.—33, Armenian Street, Calcutta 1.
Kanodia & Co.—149, Cotton Street, Calcutta.
Kanoi Estates Ltd.—P-8, Mission Row Extension, Calcutta.
Kanoi (India) Ltd.—P-8, Mission Row Extension, Calcutta.
Kedarnath Parsotamdas & Co. Ltd.—37, Netaji Subhas Road, Calcutta.

KESHRIMUL KUNDENMULL.—46, Strand Road, Calcutta 7.

Khandalwal Thirani & Co. Ltd.—8, Royal Exchange Place, Calcutta.
Khemka & Co. (Agencies) Ltd.—31/32, Royal Exchange Place Extn., Calcutta.
Khubchand Baijnath.—77, Netaji Subhas Road, Calcutta.
Kodamul Jatanmull Botra.—37, Armenian Street, Calcutta.
Krishna Galvanizing Works.—20, Bellur Road, Liloah, Howrah.
Lakshmi Produce Co. Ltd.—14, Netaji Subhas Road, Calcutta.
Lakshmichand Baijnath.—31, Cotton Street, Calcutta.
Lalchand Dharamchand.—6, Jamnalal Bajaj Road, Calcutta.
Louis Dreyfus & Co. Ltd.—18-A, Brabourne Road, Calcutta 1.
Lotus Industries Ltd.—22, Zakaria Street, Calcutta.
M. R. Kharwan Bros.—7, Swallow Lane, Calcutta.
Mahilaram Bajaj & Co.—178, Mahatma Gandhi Road, Calcutta.
Metal Distributors Private Ltd.—38, Strand Road, Calcutta.
Misrilall Jain.—34-B, Ratu Sarkar Lane, Calcutta.
Mohanlal Motilal.—14/2, Old China Bazar Street, Calcutta.
Mohatra Brothers.—19, British Indian Street, Calcutta.
Motihari Enterprises Private Ltd.—178, Mahatma Gandhi Road, Calcutta.
Motilal Haripra:ad & Bros.—67/50, Strand Bank Road, Calcutta.
Murarka (Overseas) Ltd.—17, Noormal Lohia Lane, Calcutta.
Murlidhar Jhunjhunwala Ltd.—22/24, Radha Bazar Street, Calcutta.
Nandlal Bajaj.—156, Jumnalal Bajaj Street, Calcutta.
Nandram Hunatram.—8, Lyons Range, Calcutta.
National Development Trust.—183, Jumnalal Bajaj Street, Calcutta.
Nilmani Pal.—10-B, Mechua Bazar Street, Calcutta.
O. H. Jagodia.—14, Netaji Subhas Road, Calcutta.
Okura Trading Co. Ltd.—30, Chittaranjan Avenue, Calcutta 12.
Orient Engineering & Commercial Co. Ltd.—9-A, Dalhousie Square, Calcutta.
Oswal Company Ltd.—14/2, Old China Bazar Street, Calcutta.
Pannalal Sagarmal.—10, Canning Street, Calcutta.
Photo Emporium.—71, Ganesh Chandra Avenue, Calcutta 12.
Piel Chatterjee & Co.—24, Mango Lane, Calcutta.

PIONEER PLASTIC WORKS PRIVATE LTD.—9, Ezra Street, Calcutta 1. Phones: 22-3054, 22-1806. Grams: "PLASTIPLY." Manufacturers and Exporters of Plastic Goods of all Descriptions, 'Poly Pipe' Brand Polythene Pipe, P.V.C. Pipe, etc.

Power Farming Ltd.—3, Jagmohan Mullick Lane, Calcutta.
Prayagdas Mathuradas.—43, Strand Road, Calcutta.
Punjab Cloth Mills Ltd.—20, Tarachand Dutt Street, Calcutta.
Purushottomlall Rajgarhia.—13, Harrington Street, Calcutta.
R. McDill & Co. Private Ltd.—343, Ratu Sarkar Lane, Calcutta 7.
R. L. Modi & Sons Ltd.—2, Dayehatta Street, Calcutta.
Radharam Sohanlal.—3, Mullick Street, Calcutta.
Raghunathrai Piyarelal.—15, Noormal Lohia Lane, Calcutta 7.
Rambilas Nandlall.—178, Mahatma Gandhi Road, Calcutta.
Rameshwarlal Dedraj.—180, Mahatma Gandhi Road, Calcutta.
Ram Gopal Pasari.—23/24, Radha Bazar Street, Calcutta.
Ramjidas Shriram.—46, Upper Chitpore Road, Calcutta 7.
Ramlal Roshanlal & Co.—2, Raja Woodmunt Street, Calcutta.
Ranglal Shreechand.—94, Lower Chitpore Road, Calcutta 7.

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S. A. TORAT & CO. (Export Dept.).—55, Canning Street, Block 'C', Mehta Buildings, Calcutta 1.

S. Lal & Co. Private Ltd.—15, Chittaranjan Avenue, Calcutta.
Satyanarayan Prasad Vishnudeo Prasad.—9, Jagmohan Mullick Lane, Calcutta.
Seth Nanakchand Shadiram.—Mohta House, 29, Strand Road, Calcutta.
Shevprakash Janakraj & Co.—160, Jumnalal Bajaj Street, Calcutta.
Shevram Sitaram.—138, Jumnalal Bajaj Street, Calcutta.
Shewbux Satyanarain.—30/31, Kalakar Street, Calcutta.
Shree Bajrang Trading & Supply Co.—22, Burtolla Street, Calcutta.
Shree Hanuman Mercantile Co. Pvt. Ltd.—178, Mahatma Gandhi Road, Calcutta 7.

SHREE KAMALA AGENCY.—23, Canning Street, Calcutta 1.

Shree Shew Sakti Oil Mills Ltd.—14, Netaji Subhas Road, Calcutta.
Shree Shivagouri Oil Mills.—234/2, Upper Circular Road, Calcutta.
Shri Niwas Co. Private Ltd.—14, Noormall Lohia Lane, Calcutta 7.
Shyam Sundar Ltd.—P-16, Kalakar Street, Calcutta.
Shyamsundar Agarwala.—173, Mahatma Gandhi Road, Calcutta.
Sonthalia & Company.—71, Jumnalal Bajaj Street, Calcutta.

STANDARD RADIO & WINDING HOUSE PRIVATE LTD.—1, Chandney Chowk Street, Calcutta 13. Phone: 24-4257. Grams: "RADWINDING"—Calcutta; Manufacturers of Standard Products Comprising Radios, Amplifiers, Battery Chargers, Electrical Transformers, Power Packs, etc.

Sukhdeodas Kishanlall.—178, Mahatma Gandhi Road, Calcutta 7.
Summerson Trading Co. Ltd.—201, Mahatma Gandhi Road, Calcutta.
Sundar Lall Golchha.—113, Manohardas Katra, Calcutta.
Sundarmal Parasram.—161, Chittaranjan Avenue, Calcutta.
Surajmull Hanumandas.—132, Cotton Street, Calcutta 7.
Surajmull Murlidhar.—28, Amratolla Street, Calcutta.
Swaika Vanaspati Products Ltd.—18-B, Brabourne Road, Calcutta.
Swadeshi Ayat Niryat Ltd.—33, Brabourne Road, Calcutta.
Swatantra Bharat Trading Co. Ltd.—208, Jumnalal Bajaj Street, Calcutta.
Textile Store Dealers Ltd.—33, Netaji Subhas Road, Calcutta.
Tolaram Champalal.—183/1, Dharamtolla Street, Calcutta.
Umakant & Co. Private Ltd.—4, Mullick Street, Calcutta.
United India Trading Co.—159, Chittaranjan Avenue, Calcutta 7.
United Provinces Commercial Corporations.—6, Ganesh Chandra Avenue, Calcutta.
United Supply Agency Private Ltd.—38, Strand Road, Calcutta.
Universal Importers Co.—32-E, Jackson Lane, Calcutta.
Vasant Corporation Private Ltd.—28, Amratolla Street, Calcutta 1.
Vijoy & Company.—3, Chowringhee Road, Calcutta.
Wool Agents Ltd.—10, Armenian Street, Calcutta.

INK MANUFACTURERS

Bagchi, P. M. & Co.—19, Gulu Ostagar Lane, Calcutta 6.
Bandyo S. & Co.—P.O. Alambazar, Calcutta 35.
Bengal Miscellany Ltd.—174, Manicktolla Main Road, Calcutta 11.
Bharat Carbon & Ribbon Mfg. Co. Ltd.—543, Basantilal Saha Road, Tollyganj, Calcutta.
Bishop & Co.—Baranagar, Calcutta.
Calcutta Miscellany.—12, Ghose Lane, Calcutta.

CHEMICAL ASSOCIATION (CALCUTTA).—55, Canning Street, Calcutta 1.

Chemproducts (India) Ltd.—12, Tamer Lane, Calcutta.
Duro Chemical Works.—14-2, Old China Bazar Road, Calcutta.
Full Moon Chemical Works.—Sibpur, Howrah.
G. & B. Industrial Syndicate—20, Raja Nabakisan Street, Calcutta.

GANGES PRINTING INK FACTORY PRIVATE LTD.—Gillander House, Block F-3, 8, Netaji Subhas Road, Calcutta 1.

Gripex (India) Ltd.—Gillander House, 8, Netaji Subhas Road, Calcutta 1.
Hooghly Ink Co. Pvt. Ltd.—67/A, Ballygunge Circular Road, Calcutta 19.
Lily Chemical Works.—3, Ramkanta Sen Lane, Calcutta 4.
Lipika Ink Co.—Alambazar, Calcutta 35.
P. M. Bagchi & Co. Ltd.—19, Gulustager Lane, Calcutta.
Pearl Chemicals & Pharmaceutical Works Ltd.—8, Congress Exhibition Rd., Calcutta.
Pillet Ink Co.—171-B, Rashbehari Avenue, Calcutta.
Profile (India) Ltd.—Jadavpur Colony, Calcutta 32.
Rainbow Industries Pvt. Ltd.—2/2A, Armenian Street, Calcutta 1.
Rangoon Miscellany.—12, Tamer Lane, Calcutta.
Rapidol Industries Co.—24-E, Sura 3rd Lane, Beliagatta, Calcutta.
Ray Brothers.—78, Harrison Road, Calcutta 9.
Raz Brothers.—65-1, Harrison Road, Calcutta.
S. Bandye & Co.—Alambazar P.O., 24, Parganas.
S. Karr & Co.—4D, Dharamtolla Road, Calcutta.
Shree Lakshmi Industries & Chemicals Ltd.—116/1/11, Harrison Road, Calcutta.
Sulekha Works Ltd.—Gariahat Road, Jadavpur, Calcutta 32.

SUPER TOILET & CHEMICAL CO. (PRIVATE) LTD.—80, Cornwallis Street, Calcutta 6. Grams: "INKSUPRA." Factory: Government Industrial Estate, Baripur, 24 Parganas; Manufacturers of well-known "Supra Fountain Pen Ink," "Writing Ink," "Stamp Pad Ink," and Toilet goods.

T. S. Research Laboratory.—212, Nirode Behari Mullick Road, Calcutta.
True Ink Mfg. Co.—79, Wellesley Street, Calcutta 13.
Unita Trading Co.—76, Lower Circular Road, Calcutta.
Zenith Ink & Gum Products.—29, Madan Mitra Lane, Calcutta.

INSURANCE COMPANIES

The All India General Insurance Co. Ltd.—B1, Clive Bldgs., 8, Netaji Subhas Road, Calcutta.
The Bombay Fire & General Insurance Co. Ltd.—18, Netaji Subhas Road, Calcutta.

THE BRITISH INDIA GENERAL INSURANCE CO. LTD.—Norton Bldgs., 1 & 2, Old Court House Corner, Calcutta.

The Calcutta Insurance Ltd.—24, Chittaranjan Avenue, Calcutta.
The Concord of India Insurance Co. Ltd.—8, Clive Row, Calcutta.
The Central India Insurance Co. Ltd.—133, Canning Street, Calcutta.

THE GENERAL ASSURANCE SOCIETY LTD.—8, Dalhousie Square, East, Calcutta 1.

Hercules Insurance Co. Ltd.—16, Hare Street, Calcutta.
Hindusthan General Insurance Society Ltd.—Hindusthan Bldg., 4, Chittaranjan Avenue, Calcutta.
Howrah Insurance Co. Ltd.—12B, Netaji Subhas Road, Calcutta.
Hukumchand Insurance Co. Ltd.—38, Netaji Subhas Road, Calcutta.
The Indian Globe Insurance Co.—22, Canning Street, Calcutta.
The Indian Mercantile Insurance Co. Ltd.—7, Old Court House St., Calcutta.
Indian Mutual General Insurance Society Ltd.—10, Clive Row, Calcutta.
Indian Trade & General Insurance Co. Ltd.—25, Brabourne Road, Calcutta.
Jayabharat Insurance Co. Ltd.—C/o Central India Ins. Co. Ltd., Chopra House, 133, Canning Street, Calcutta.
Jupiter General Insurance Co. Ltd.—6, India Exchange Place Calcutta.
Marine & General Insurance Co., Ltd.—21, Strand Road, Calcutta.
National Insurance Co. Ltd.—7, Council House Street, Calcutta.
The National Security Assurance Co. Ltd.—B1, Clive Bldgs., 8, Netaji Subhas Road, Calcutta.
The New Asiatic Insurance Co. Ltd.—India Exchange, Calcutta.
The New Great Insurance Co. of India Ltd.—9, Brabourne Road, Calcutta.
New India Assurance Co. Ltd.—2, Brabourne Road, Calcutta.
Oriental Fire & General Insurance Co. Ltd.—29, Netaji Subhas Road, Calcutta.
Pandyan Insurance Co. Ltd.—5 & 7, Netaji Subhas Road, Calcutta.
Ruby General Insurance Co. Ltd.—India Exchange, Calcutta.
The Sentinel Assurance Co. Ltd.—13, Brabourne Road, 4th Floor, Calcutta.
Standard General Assurance Co., Ltd.—Bombay Mutual Building, 9, Brabourne Road, Calcutta 1.
Union Insurance Society of Canton, Ltd.—B2, Gilander House, 8, Netaji Subhas Road, Calcutta 1.
United India Fire & General Insurance Co. Ltd.—A3, Clive Bldgs., Calcutta.
Universal Fire & General Insurance Co. Ltd.—7, Old Court House Street, Calcutta.
Vulcan Insurance Co. Ltd.—7, Old Court House Street, Calcutta.

ZENITH ASSURANCE CO. LTD.—Norton Bldgs., 1 & 2, Old Court House Corner, Calcutta.

IRON FOUNDERS

AGARWAL HARDWARE WORKS PRIVATE LTD.—167, Chittaranjan Avenue, Calcutta 7. Manufacturers of Cast Iron Pipes & Specials—Class 'B' (S.S. and D.F. Pipes according to B.S.S. Specifications), Pans, Manhole Covers, Ventilators, Machinery parts and Specialists for all types of heavy and light castings.

IRON & STEEL

Ajodharam Mathuraram.—77, Kailash Bose Street, Calcutta.
Aminchand Payare Lal.—135, Canning Street, Calcutta 1.
Anandji Haridas & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Banerjee & Co.—5, Debendra Road, Calcutta.
Bansantlal Ghansamdas.—8/5, Roopchand Roy Street, Calcutta.
Benimadhab Sett Satyacharan Sett.—D/44, Jagannath Ghat, Calcutta.
Bengal Corpn. (P) Ltd.—14, Netaji Subhas Road, Calcutta.
Bharat Overseas (P) Ltd.—18-B, Brabourne Road, Calcutta.
Bharati Private Ltd.—12, Netaji Subhas Road, Calcutta.
B. K. Shah & Co.—3, Maharshi Debendra Road, Calcutta.
Chatterjee Bhattacharya & Co. (P) Ltd.—306, Circular Road, Shibpur, Howrah.
Chatterjee Paul & Co.—26, Wellington Street, Calcutta.
Chandra Kanta Manna & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Chimanram Sewbhagwan.—192, Cross Street, Calcutta.
Choudhry Bhattacharjee & Co.—2, Maharshi Debendra Road, Calcutta.

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D. N. Sett.—12, Maharshi Debendra Road, Calcutta.
D. N. Sircar & S. K. Das.—6, Maharshi Debendra Road, Calcutta.

DALMIA IRON & STEEL LTD.
(Incorporated in India—Members' Liability Ltd.)
Registered Office: Rajgangpur (Orissa)
Administrative Office: Stephen House,
4, Dalhousie Square East, Calcutta-1.
Phone: 23-4609, 23-5192, 23-6341/42
Grams: "DALMIAIRON" Calcutta.
Works:
Khardah, P.O. Sukchar, 24 Parganas, W. Bengal.
Phone: BKP-294, 346
Grams: "DALMIAIRON", Khardah.
Makers of Spun Iron Pipes, Grinding Media and special Alloy Steel Castings.

Damodardas J. Vora.—47, Ezra Street, Calcutta.
Dukhineswar Sarkar & Bros. (P) Ltd.—2, Maharshi Debendra Road, Calcutta.
G. C. Banerji & Co. (P) Ltd.—74/A, Nalini Sett Road, Calcutta.
G. P. Nundy & Sons.—93/3/3A, Hari Ghose Street, Calcutta.
Ganga Narayan Paul & Co.—22, Maharshi Debendra Road, Calcutta.
Ganges Agencies (P) Ltd.—32, Cross Street, Calcutta 7.
Gobardhan Sreemany.—12, Maharshi Debendra Road, Calcutta.
Gokul Chandra Dhar & Sons.—D/9, Jagannath Ghat Road, Calcutta.
H. K. Paul & Bros. (P) Ltd.—3/3, Maharshi Debendra Road, Calcutta.
Hemanta Kumar Deyasi & Bros. (P) Ltd.—21, Maharshi Debendra Road, Calcutta.
Howrah Metal Mart.—6, Maharshi Debendra Road, Calcutta.
Hrishikesh Rit.—12. Maharshi Debendra Road, Calcutta.
Indu Bhusan Dutta & Co.—D/7, Jagannath Ghat, Calcutta.
Ishan Chundra Chatterjee & Sons (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Jagabandhan Ram Dwarkaprosad.—77, Kailash Bose Street, Calcutta.
Jamnadas & Brothers (P) Ltd.—55/58, Canning Street, Calcutta.
Jankidas Sewnarayan.—48, Canning Street, Calcutta.
Janson Iron & Steel Co.—80, Colootola Street, Calcutta.
Jeetnarain Ghose & Co.—36, Strand Road, Calcutta.
Jokhiram Baijnath.—8, Esplanade East, Calcutta.
Jotindra Nath Nundy & Bros.—7/1, Maharshi Debendra Road, Calcutta.

K. C. GHATTACK & SONS (PRIVATE) LTD. (Estd. 1870).—3, Maharshi Debendra Road, Calcutta 7. Controlled Stockists, Registered Dealers and Structural Engineers.

K. C. Mookerjee & Sons.—27, Wellington Street, Calcutta.
K. N. Parui & Co.—11, Maharshi Debendra Road, Calcutta.
Kamala Prosad & Co.—170, Karnani Estate, 209, Lower Circular Road, Calcutta.

KRISHNA CHANDRA NANDY & CO.—20, Maharshi Debendra Road, Calcutta.

Kristo Dhone Gangooly & Co.—115, Netaji Subhas Road, Calcutta.
M. D. Panday & Co.—21, Maharshi Debendra Road, Calcutta.
Machino Techno (Sales) P. Ltd.—33, Netaji Subhas Road, Calcutta.
Makhan Lall Dey & Sons P. Ltd.—D/15, Jagannath Ghat, Calcutta.

MOHOR LAL SINHA PRIVATE LTD.—D-11, Jagannath Ghat, Lohapatty, Calcutta 7.

Mookerjee & Co.—17, Maharshi Debendra Road, Calcutta.
Mookerjee & Co.—25, Wellington Street, Calcutta.
N. C. Shaw & Co., P. Ltd.—D/24, Jagannath Ghat, Calcutta.
Narayan Chandra Sett.—12, Maharshi Debendra Road, Calcutta.
Narayandass & Co.—D/5, Jagannath Ghat, Calcutta.
Nagendra Nath Banerjee.—D/19, Jagannath Ghat, Calcutta.
Nagendra Nath Dey.—D/13, Jagannath Ghat, Calcutta.
Narayan Co.—174, Mahatma Gandhi Road, Calcutta.
Natabar Paul & Co. (P) Ltd.—19, Maharshi Debendra Road, Calcutta.
Natabar Sett.—8/1, Maharshi Debendra Road, Calcutta.
Nathmull Dwarkadass.—74/A, Nalini Sett Road, Calcutta.
Nathmull Girdharilal.—22, Burtolla Street, Calcutta.
Nepaul Chandra Sett.—9/1, Maharshi Debendra Road, Calcutta.
Niranjan & Co. (P) Ltd.—20/1, Maharshi Debendra Road, Calcutta.
Noin Behari Sett & Sons.—D/21, Jagannath Ghat, Calcutta.
Nundy Brothers (P) Ltd.—3/3, Maharshi Debendra Road, Calcutta.
Orissa Steel Corpn. P. Ltd.—29, Strand Road, Calcutta.
P. K. Mookerjee & Co. (P) Ltd.—D/1, Jagannath Ghat, Calcutta.
P. K. Roy & Co.—26, Wellington Street, Calcutta.
P. N. Mukherjee & Sons.—9/1, Maharshi Debendra Road, Calcutta.
P. Paul & Bros. (P) Ltd.—39/B, Wellington Street, Calcutta.
Panchcowri Sett Haradhone Paul.—D/2, Jagannath Ghat, Calcutta.
Paul & Co. P. Ltd.—20/2B, Maharshi Debendra Road, Calcutta.
Phanindra Nath Manna & Co. P. Ltd.—20, Maharshi Debendra Road, Calcutta.
Punchanon Shome.—9, Maharshi Debendra Road, Calcutta.
Rajendra Nath Mullick & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
R. K. Ghose & Co.—41, Wellington Street, Calcutta.
Rakhal Chandra Dey & Co. (P) Ltd.—8/1, Maharshi Debendra Road, Calcutta.
Rakhaldass Mullick & Co.—D/14, Jagannath Ghat, Calcutta.
Ramkrishna Kulwant Ral.—33, Netaji Subhas Road, Calcutta.
Ranjan & Co. (Iron Mongers) P. Ltd.—22/1, Maharshi Debendra Road, Calcutta.
Rasick Lall Ghosh & Sons.—30, Wellington Street, Calcutta.
S. Dey & Brothers.—18, Maharshi Debendra Road. Calcutta.
S. K. Sett & Brothers.—7/1, Maharshi Debendra Road, Calcutta.
S. M. Bejoy & Co. (P) Ltd.—D/20, Jagannath Ghat, Calcutta.
S. Nundy & Co.—25, Wellington Street, Calcutta.
S. N. Nandy.—D/26, Jagannath Ghat, Calcutta.
S. Palchowdhury & Co. (P) Ltd.—19, Maharshi Debendra Road, Calcutta.
Saroj Kumar Sreemany.—3, Maharshi Debendra Road, Calcutta.
Santosh Kumar Mullick & Son P. Ltd.—D/5, Jagannath Ghat, Calcutta.
Satyandra Mohan Palodhy Kali Pada Nandy.—39, Wellington Street, Calcutta.
Sett & Sons Private.—B/5, Jagannath Ghat, Calcutta.
Seth Nanakchand Shadiram.—29, Strand Road, Calcutta.
Shaha Brothers.—9, Maharshi Debendra Road, Calcutta.
Sharma & Co.—2, Maharshi Debendra Road, Calcutta.
Shyam Lall Sil & Co.—D/26, Jagannath Ghat, Calcutta.
Shyamdas Nundy & Sons.—D/27, Jagannath Ghat, Calcutta.
Sontosh Kumar Dey.—19, Maharshi Debendra Road, Calcutta.
Sreenath Chandra Bera.—7/1, Maharshi Debendra Road, Calcutta.

STEEL & ALLIED PRODUCTS LTD.—17, Brabourne Road, Calcutta 1.

Steel Traders (P) Ltd.—Stephen House, R. No. 27/1, Dalhousie Square, Calcutta.
Surath Nath Manna Manmatha Nath Manna (P) Ltd.—D/16, Jagannath Ghat, Calcutta.
Surendra Nath Paul Basanta Kumar Sett.—19, Maharshi Debendra Road, Calcutta.
Surendra Nath Ghosh & Co.—D/12, Jagannath Ghat, Calcutta.
Surendra (Overseas) P. Ltd.—135, Canning Street, Calcutta.
T. D. Kumar & Bros. (P) Ltd.—20/1, Maharshi Debendra Road, Calcutta.
T. N. Mullick & Sons.—20/2B, Maharshi Debendra Road, Calcutta.
Tah Nundy & Co. (P) Ltd.—20, Maharshi Debendra Road, Calcutta.
Tarak Nath Nundy.—D/28, Jagannath Ghat, Calcutta.
Tata-Scob Dealers (Controlled Stock) Calcutta Ltd.—20, Strand Road, Calcutta.
Tinplate Dealers Association Pvt. Ltd.—138, Canning Street, Calcutta 1.

UNITED STEEL & BEARING CO.—Importers & Stockists of Alloy Tool, Special Steels; 5-B, Clive Ghat Street, Calcutta 1. Grams: "DAMASCEND."

Upendra Nath Mullick & Co.—55, Nalini Sett Road, Calcutta.
Vora Brothers (P) Ltd.—47, Ezra Street, Calcutta.

JEWELLERS

Adwaitya Jewellery Works.—123-8, Bowbazar Street, Calcutta 12.
A. K. Jewellers & Co.—150-1B, Amherst Street, Calcutta 9.
A. Sirkar & Sons.—171/1A, Rash Behari Avenue, Calcutta 13.
B. R. Das.—155, Radhabazar Street, Calcutta 1.
Chandra & Son P. Ltd.—116-1/117, Bowbazar Street, Calcutta 12.
Chotalal Amulakh & Mohanlal.—23, Sir Hariram Goenka St., Calcutta 7.
Cooke & Kelvey Ltd.—20, Old Court House Street, Calcutta 1.
D. C. Dutt & Sons.—273-A, Bowbazar Street, Calcutta 12.
Dey & Dutta.—117-2, Bowbazar Street, Calcutta 12.
Dutt & Co.—39, Bowbazar Street, Calcutta 12.
Ghosh Brothers.—114, College Street, Calcutta 12.
Gem Company.—Great Eastern Hotel Arcade, Calcutta 1.
Girish Chunder Dutta & Sons.—35-A, Sambhunath Pandit St., Calcutta 25.
Glamour.—15-A, New Market, Calcutta 13.
Hamilton & Co. P. Ltd.—8, Old Court House Street, Calcutta 1.
J. Boseck & Co. P. Ltd.—16-5, Chowringhee, Calcutta 13.
J. C. Mazumder & Sons.—185-2, Bowbazar Street, Calcutta 12.
K. P. Dhar & Co.—99-A, Bowbazar Street, Calcutta 12.
M. Lilaram & Co.—A/4, New Market, Lindsay Street, Calcutta 13.
M. P. Jewellers & Co.—1, Vivekananda Road, Calcutta.
P. C. Banerjee.—37, Dharamtalla Street, Calcutta 13.
P. C. Chandra & Sons.—127/1, Bowbazar Street, Calcutta 12.
P. N. Dass & Sons.—3-C, Hemkar Lane, Calcutta 5.
Rakhal Chandra Dey.—121, Bowbazar Street, Calcutta 12.
Ratnabithi.—106, Bowbazar Street, Calcutta 12.
S. C. Das & Brothers.—37, Beni Nandan Street, Calcutta 25.
S. C. Sircar & Co.—145-B, Bowbazar Street, Calcutta 12.
Suresh R. Kothari.—65-1, Beadon Street, Calcutta 6.
Swadeshi Silpa Factory.—213, Cornwallis Street, Calcutta 6.
T. C. Addy & Sons.—42, Mohan Bagan Lane, Calcutta 4.

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JUTE BALERS & EXPORTERS

A. Damiano (Jute) Pvt. Ltd.—133, Canning Street, Calcutta.
Ajit Agents Pvt. Ltd.—43/44, Cotton Street, Calcutta.
Ashok Exporters & Importers.—4, Bhawani Dutt Lane, Calcutta.
Assam Jute Supply Co. Ltd.—8, India Exchange Place, Calcutta 1.
Balchand Kodamull.—203/1, Mahatma Gandhi Road, Calcutta.
Balmookund Lutchminarayan.—67/24B, Strand Road, Calcutta
Banshilall Madanlall.—46, Strand Road, Calcutta.
Beejraj Balchand.—104, Old China Bazar Street, Calcutta.
Bengal Jute Baling Co.—9, Brabourne Road, Calcutta.
Bharmull Champalall.—26/4, Armenian Street, Calcutta.
Bhawarlall Chandmull.—4, Raja Woodmunt Street, Calcutta.
Bhutoria & Sons Pvt. Ltd.—161/1, Mahatma Gandhi Road, Calcutta.
Bijoy Trading Co.—23-A, Netaji Subhas Road, Calcutta.
B. Mookerjea & Co.—4, Commercial Bldgs., Calcutta.
Brijlall Nandkishore.—112, Chittaranjan Avenue, Calcutta.
Budridas Fulchand.—91, Netaji Subhas Road, Calcutta.
Burlap Linkers.—6, Clive Row, Calcutta.
Calcutta Trading Co.—26/4, Armenian Street, Calcutta.
Champalall Kothari.—11, Armenian Street, Calcutta.
Chandanmull Dipchand.—46, Strand Road, Calcutta.
Chandmull Dhannalall.—P-17, Kalakar Street, Calcutta.
Chhogmull Rughlall.—46, Strand Road, Calcutta.
Chhotulall Sethia.—23/24, Radha Bazar Street, Calcutta.
Chowdhury Jute Baling Co.—85/1, Upper Chitpur Road, Calcutta.
Chunilall Gulabchand.—20, Mullick Street, Calcutta.
Danmull Jwalaprasad.—23/24, Radha Bazar Street, Calcutta.
Dulichand Jethmull.—7, Swallow Lane, Calcutta.
Dulichand Pratapmull.—11, Armenian Street, Calcutta.
Durgadutt Sohanlall.—43/44, Cotton Street, Calcutta.
Esaar (India) Pvt. Ltd.—3, Burtolla Street, Calcutta.
Fulchand Kanhaiyalall Co.—23/24, Radha Bazar Street, Calcutta.
Gaulechha Brothers.—7/2, Babulal Lane, Calcutta.
Ghasiram Madanlall.—62, Nalini Sett Road, Calcutta.
Gulraj Kedarnath.—180, Mahatma Gandhi Road, Calcutta.
Hamirmull Champalall.—2, Raja Woodmunt Street, Calcutta.
Harakhchand Punamchand.—20, Mullick Street, Calcutta.
H. Bihani & Co. Pvt. Ltd.—201/3, Mahatma Gandhi Road, Calcutta.
Hookumchand Malchand.—22, Kalakar Street, Calcutta.
Hope Prudhomme & Co. (P) Ltd.—7, Wellesley Place, Calcutta.
Hulashchand Rupchand.—26, Burtolla Street, Calcutta.
Jagannath Sobhachand Co.—136, Cotton Street, Calcutta.
Jaikishandass Harikishandass.—216, Mahatma Gandhi Road, Calcutta.
J. Kuthari & Co.—14, India Exchange Place, Calcutta.
Jankidass Banshidhar.—26/4, Armenian Street, Calcutta.
Jugalkishore Bholaram.—9, Jagmohan Mullick Lane, Calcutta.
Jute & Stores, Ltd.—23/24, Radha Bazar Street, Calcutta.
Jwalaprasad Mulchand.—26, Burtolla Street, Calcutta.
Kanoria Co. Ltd.—9, Brabourne Road, Calcutta.
Kesari & Co. Ltd.—186, Jamunalal Bajaj Street, Calcutta.
Khaitan Sons & Co. (Fibre) Ltd.—2, Dalhousie Sqr. East, Calcutta.
K. L. Goenka & Co.—11, Clive Row, Calcutta.
Lalchand Dharamchand.—6, Cross Street, Calcutta.
Maghraj Brijmohan Bangur.—21A, Canning Street, Calcutta.
Maha ukhrai Ramrichpal.—2, Raja Woodmunt Street, Calcutta.
Maheswari Trading Co.—65, Cotton Street, Calcutta.
Mair A. M. & Co., Pvt. Ltd.—14, India Exchange Place, Calcutta.
Milapchand Hiralall.—2, Raja Woodmunt Street, Calcutta.
Morgan Walker & Co., Pvt. Ltd.—2, Clive Ghat Street, Calcutta.
Motichand Askaran.—186, Jamunalal Bajaj Street, Calcutta.
Motilall Hanumanmull.—1/4/C, Gun Foundry Road, Calcutta.
Mugneeram Bahpur & Co.—65, Sir Hariram Goenka Street, Calcutta.
Mukharam Lachhminarayan.—59, Netaji Subhas Road, Calcutta.
Multanmull Kishanlall.—7/2, Babulal Lane, Calcutta.
Narsing Trading Co.—2, India Exchange Place, Calcutta.
Nathmull Sethi & Co.—55, Nalini Sett Road, Calcutta.
Nikhli Jute Baling Co. (P) Ltd.—8, India Exchange Place, Calcutta.
Nowrangroy Ramniwas.—43/44, Cotton Street, Calcutta.
Onkarmull Nathmull.—26, Burtolla Street, Calcutta.
Partabmull Rameswar.—46, Strand Road, Calcutta.
Poddar Jute Trading Co. (P) Ltd.—37, Vivekananda Road, Calcutta.
Prasanchand Bothra & Son.—14, India Exchange Place, Calcutta.
Pratapmull Madanlall.—2, Bysack Street, Calcutta.
Puranchand Chhaganmull.—133, Canning Street, Calcutta.
Pushraj Puranmull.—65, Cotton Street, Calcutta.
Raghunathrai Mahadeo.—43/44, Cotton Street, Calcutta.
Rajkumar Jain & Co.—2, Bysack Street, Calcutta.
Ramchandra Sagarmull.—20, Mullick Street, Calcutta.
Ramdas Gobardhandass.—42, Kali Krishna Tagore St., Calcutta.
Ramdutt Ramkissendass.—9, Brabourne Road, Calcutta.
Ratanchand Chhaganmull.—47, Khengraputty Street, Calcutta.
Sethia Baling (P) Ltd.—38, Baranashi Ghosh Street, Calcutta.
Sethia Brothers.—56, Netaji Subhas Road, Calcutta.
Sethia Trading Co.—15, Nurmal Lohia Lane, Calcutta.
Shiva Jute Baling Ltd.—21, Jatindra Mohan Avenue, Calcutta.
Sitaram Mahabirprasad.—76, Cotton Street, Calcutta.
Soorajmul Nagarmull.—8, Dalhousie Sqr. East, Calcutta.
Star Commercial Co. Ltd.—161/1, Mahatma Gandhi Road, Calcutta.
Sumermull Anchalia.—208, Mahatma Gandhi Road, Calcutta.
Sumermull Roychand.—143 Cotton Street, Calcutta.
Surajmull Ganeshram.—161/1, Mahatma Gandhi Road, Calcutta.
Surajmull Gouti.—2, Portuguese Church St., Calcutta.

TANTIA BROTHERS PRIVATE LTD.—1 & 2, Old Court House Corner, Calcutta 1. Managing Agents of Tea Planters, Vanaspati Manufacturers and oil Miners.

Thanmull Kanmull.—105, Old China Bazar Street, Calcutta.
Thansingh Lachhmipat.—15, Noormal Lohia Lane, Calcutta.
Tilokchand Daymull.—13, Noormal Lohia Lane, Calcutta.
Tolaram Chopra.—133, Canning Street, Calcutta.
W. F. Ducat & Co. Pvt. Ltd.—3, Clive Row, Calcutta.
W. J. Walker & Co.—6, Commercial Bldgs., Calcutta.

JUTE DEALERS & EXPORTERS

Amolakchand Champalal.—16, Bonfield Lane, Calcutta.
Askaran Kishanlall.—20, Mullick Street, Calcutta.
Assam Jute Supply Co.—P-14, Kalekar Street, Calcutta.
Balabgas Hulaschand.—161/1, Mahatma Gandhi Road, Calcutta.
Balchand Kodamall.—203/1, Mahatma Gandhi Road, Calcutta.
Baldeodas Ramnarain.—192, Cross Street, Calcutta.
Baldeoram Beharilall.—61, Strand Road, Calcutta.
Balmukand Lutchminarayan.—24-B, Nimtola Ghat Street, Calcutta.
Banechand Puranchand.—56, Netaji Subhas Road, Calcutta.
Banshilal Madanlall.—46, Strand Road, Calcutta.
Beejraj Balchand.—104, Old China Bazar Street, Calcutta.
Bengal Jute Baling Co.—9, Brabourne Road, Calcutta.
Bhajanlall Sriniwas.—188, Cross Street, Calcutta.
Bhanwarlal Chandmall.—4, Raja Woodmunt Street, Calcutta.
Bharmall Champalal.—26/4, Armenian Street, Calcutta.
Bhikamchand Tolaram.—35, Armenian Street, Calcutta.
Bhuramall Manikchand.—4, Doyhatta Street, Calcutta.
Bhutoria Brothers Pvt. Ltd.—56, Netaji Subhas Road, Calcutta.
Bhuwalka & Co.—8, India Exchange Place, Calcutta.
Binjraj Manikchand.—2, Raja Woodmunt Street, Calcutta.
B. Mookerjee & Co.—4, Commercial Bldgs., Calcutta.
Brijlall Nandkishore.—112, Chittaranjan Avenue, Calcutta.
Budridas Fulchand.—91, Netaji Subhas Road, Calcutta.
Calcutta Trading Co.—26/4, Armenian Street, Calcutta.
Champalal Jaichandlal.—10, Armenian Street, Calcutta.
Champalal Kothari.—11, Armenian Street, Calcutta.
Chandmall Dhannalall.—P-17, Kalakar Street, Calcutta.
Chandrabhan Luxminarayan.—46, Strand Road, Calcutta.
Chaturbhuj Hanumanmull.—16, Bonfield Lane, Calcutta.
Chhogmall Ratanlall.—P-15, Kalakar Street, Calcutta.
Chhogmall Rawatmall.—47, Khengraputty Street, Calcutta.
Chhogmall Rughlall.—46, Strand Road, Calcutta.
Chhotulal Sethia.—23/24, Radha Bazar Street, Calcutta.
Chimaniram Jaswantmall.—105, Old China Bazar Street, Calcutta.
Chouthmal Balchand Dugar.—46, Strand Road, Calcutta.
Chouthmal Sethiya.—9, Armenian Street, Calcutta.
Chunilal Hazarimall.—36, Shibtolla Street, Calcutta.
Chunilal Hulaschand.—20, Mullick Street, Calcutta.
Danmull Jwalaprasad.—23/24, Radha Bazar Street, Calcutta.
Durgadutt Sohanlall.—43/44, Cotton Street, Calcutta.
East Coast Commercial Co.—7, Wellesley Place, Calcutta.
Fulchand Kanchialal Co.—23/24, Radha Bazar Street, Calcutta.
Fuzraj Thanmull.—13, Noormal Lohia Lane, Calcutta.
G. Das (Jute & Gunny) Ltd.—8, India Exchange Place, Calcutta.
Gajraj Pannalall Ltd.—68, Nalini Sett Road, Calcutta.
Ganeshdas Hazarimall.—46, Strand Road, Calcutta.
Ganpatrai Murlidhar.—178, Mahatma Gandhi Road, Calcutta.
Gaulecha Brothers.—7/2, Babulall Lane, Calcutta.
General Produce Co. Ltd.—India Exchange Bldgs., Calcutta.
Gewarchand Dänchand.—42, Vivekanand Road, Calcutta.
Ghasiram Madanlall.—62, Nalini Sett Road, Calcutta.
Gourishanker Chhotelall—59, Netaji Subhas Road, Calcutta.
Gulabchand Jaichandlall.—46, Strand Road, Calcutta.
Gulraj Kedarnath.—180, Mahatma Gandhi Road, Calcutta.
Harakchand Daga,—16, Bonfield Lane, Calcutta.
Harakchand Saraogi & Co.—P-14, Kalakar Street, Calcutta.
Harikishandas Bhairudan.—216, Mahatma Gandhi Road, Calcutta.
Harnathrai Banarshilall.—95, Lower Chitpur Road, Calcutta.
Hasmull Kasturchand.—2, Raja Woodmunt Street, Calcutta.
Hind Jute Corpn.—23/24, Radha Bazar Street, Calcutta.
Hiralall Pannalall.—70, Nalini Sett Road, Calcutta.
Hulaschand Rupchand.—26, Burtolla Street, Calcutta.
Inderchand Premsukh.—35, Armenian Street, Calcutta.
India Jute Balings Ltd.—68, Nalini Sett Road, Calcutta.
Iswardas Tarkeswar.—4, Raja Woodmunt Street, Calcutta.
Jagannath Moolchand.—180, Mahatma Gandhi Road, Calcutta.
Jaikishandas Girdharilall.—180, Mahatma Gandhi Road, Calcutta.
Jaikishandas Harikishandas.—216, Mahatma Gandhi Road, Calcutta.
Jain Jute Supply Ltd.—P-14, Kalakar Street, Calcutta.
Jain Jute Trading Co.—P-14, Kalakar Street, Calcutta.
Jamunalal Jankilall.—13, Noormal Lohia Lane, Calcutta.
Jankidas Banshidar.—26/4, Armenian Street, Calcutta.
Jiwanmall Parasmall.—4, Doyhatta Street, Calcutta.
Jiwanram Jagannath.—94/7, Lower Chitpur Road, Calcutta.
Jiwraj Champalal.—2, Raja Woodmunt Street, Calcutta.
Joharmal Amolakchand.—20, Mullick Street, Calcutta.
Joharmall Champalall.—62, Nalini Sett Road, Calcutta.
Jute & Stores Ltd.—23/24, Radha Bazar Street, Calcutta.

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Kanchialal Lohia.—112, Chittaranjan Avenue, Calcutta.
Keshrichand Nihalchand.—53, Nalini Sett Road, Calcutta.
Khemchand Premchand.—13, Noormal Lohia Lane, Calcutta.
Khetsidas Udaichand.—4, Raja Woodmunt Street, Calcutta.
Khumchand Chunilall.—2, Raja Woodmunt Street, Calcutta.
Lachhmichand Surajmall.—65, Cotton Street, Calcutta.
Lalchand Dipchand.—66, Nalini Sett Road, Calcutta.
Lalchand Dharamchand.—6, Cross Street, Calcutta.
Madangopal Daga.—60/A, Nalini Sett Road, Calcutta.
Mahabir Commercial Co. Ltd.—8, India Exchange Place, Calcutta.
Mahalchand Ramlall.—7/1, Babulall Lane, Calcutta.
Mahalchand Sreekishan.—46, Strand Road, Calcutta.
Mahasinghrai Meghraj Bahadur & Sons.—4, Raja Woodmunt St., Calcutta.
Maheswary Import & Export.—4, Doyhatta Street, Calcutta.
Maheswary Trading Co.—65, Cotton Street, Calcutta.
Manikchand Punamchand.—20, Mullick Street, Calcutta.
Manikchand Surajmall.—16, Bonfiled Lane, Calcutta.
Manot & Co. Pvt. Ltd.—105, Old Chinabazar Street, Calcutta.
Milapchand Hiralall.—2, Raja Woodmunt Street, Calcutta.
Milapchand Madanlall.—16, Bonfield Lane, Calcutta.
Motihari Enterprise (P) Ltd.—178, Mahatma Gandhi Road, Calcutta.
Motilall Lachminarayan.—4, Raja Woodmunt Street, Calcutta.
Moujiram Inderchand.—193/2, Mahatma Gandhi Road, Calcutta.
Mugneeram Bangur & Co.—65, Sir Hariram Goenka Street, Calcutta.
Mulchand Nathmall.—161/1, Mahatma Gandhi Road, Calcutta.
Multanmal Kishanlal (P) Ltd.—7/2, Babulall Lane, Calcutta.
Murshidabad Jute Co.—46, Strand Road, Calcutta.
Nahata Brothers.—4, Jagmohan Mullick Lane, Calcutta.
Nathmall Mohanlall.—11, Armenian Street, Calcutta.
Nathmall Sethi & Co.—55, Nalini Sett Road, Calcutta.
Nawal Kishore Kejriwal.—23/24, Radha Bazar Street, Calcutta.
Nowrangroy Rameswar.—43, Cotton Street, Calcutta.
Nowrangroy Ramniwas.—43, Cotton Street, Calcutta.
Onkarmull & Co.—172, Chittaranjan Avenue, Calcutta.
Pannalal Champalall.—2, Raja Woodmunt Street, Calcutta.
Pannalall Jainsukh.—37/38, Armenian Street, Calcutta.
Partapmall Madanlall.—2, Bysack Street, Calcutta.
Phulchand Manikchand Ltd.—70, Nalini Sett Road, Calcutta.
Pratapmall Rameshwar.—46, Strand Road, Calcutta.
Poddar Jute Trading (P) Ltd.—37, Vivekananda Road, Calcutta.
Premsukh Pannalall.—P-14, Kalakar Street, Calcutta.
Premsukhdas Manikchand.—195/1/1, Mahatma Gandhi Road, Calcutta.
Premsukhdas Tolaram.—195/1/1, Mahatma Gandhi Road, Calcutta.
Punamchand Manikchand.—2, Raja Woodmunt Street, Calcutta.
Punamchand Chhoganmall.—133, Canning Street, Calcutta.
Pushraj Puranmull.—65, Cotton Street, Calcutta.
Rajkumar Jain & Co.—2, Bysack Street, Calcutta.
Ram Bahadur Thakur & Co.—135, Canning Street, Calcutta.
Ramchandar Nandkumar.—161/1, Mahatma Gandhi Road, Calcutta.
Ramchandra Sagarmall.—20, Mullick Street, Calcutta.
Ramdeo Satyanarain.—161/1, Mahatma Gandhi Road, Calcutta.
Rameswar Khetawat.—16, Tarachand Dutta Street, Calcutta.
Ramgopal Bharmull.—161/1, Mahatma Gandhi Road, Calcutta.
Ramjidas Jagannath.—4, Narayan Prasad Lane, Calcutta.
Ramlall Jiwraj.—4, Raja Woodmunt Street, Calcutta.
Ratan Jute Balings Ltd.—68, Nalini Sett Road, Calcutta.
Ratanchand Chhaganmall.—47, Khengraputty Street, Calcutta.
Sethia Brothers.—56, Netaji Subhas Road, Calcutta.
Sethia Mercantiles Pvt. Ltd.—1, Commercial Bldgs., Netaji Subhas Road, Calcutta 1.
Shellac Traders Pvt. Ltd.—5, Dalhousie Square East, Calcutta.
Shiva Jute Baling Pvt. Ltd.—21, Jitendra Mohan Avenue, Calcutta.
Shivshanker Hajumermall.—43-44, Cotton Street, Calcutta.
Shree Bajrang Trading Co.—9, Jogmohan Mullick Lane, Calcutta.
Shree Krishna Shewbhagwan & Co. Pvt. Ltd.—94, Lower Chitpur Road, Calcutta.
Shree Luxminarayan Jute Mfg. Co. Ltd.—59, Netaji Subhas Road, Calcutta.
Shriniwas Kashiram.—114, Chittaranjan Avenue, Calcutta.
S. K. Rungta Pvt. Ltd.—18, Mullick Street, Calcutta.
Sohanlall Chandanmall.—15, Noormal Lohia Lane, Calcutta.
Sohanlall Ratanlall.—201, Mahatma Gandhi Road, Calcutta.
Sri Luxmi Trading.—20, Mullick Street, Calcutta.
Subhkaran Madanlall.—5, Narayan Babu Lane, Calcutta.
Sukhdyal Rambilas.—113, Manohardas Katra, Calcutta.
Surajmall Banthia.—16, Bonfield Lane, Calcutta.
Surajmall Ganeshram.—161/1, Mahatma Gandhi Road, Calcutta.
Surajmall Hanumandas.—132, Cotton Street, Calcutta.
Sumermall Anchalia.—208, Mahatma Gandhi Road, Calcutta.
Sumermall Roychand.—143, Cotton Street, Calcutta 7.
Tantia Brothers Pvt. Ltd.—1 & 2, Old Court House Street, Calcutta.
Thanmall Kanmall.—105, Old China Bazar Street, Calcutta.
Thansingh Lachmipat.—15, Noormal Lohia Lane, Calcutta.
Tilokchand Daimull.—13, Noormal Lohia Lane, Calcutta.
Tilokchand Jitmall.—2, Raja Woodmunt Street, Calcutta.
Tolaram India Ltd.—68, Nalini Sett Road, Calcutta.
Tolaram Prakashchand.—68, Nalini Sett Road, Calcutta.
Tulshiram Kanehialall.—56, Netaji Subhas Road, Calcutta.

JUTE FABRIC BROKERS

ALEX. A. APCAR, JR. & CO. PRIVATE LTD.—C-3, Gillander House, 13, Netaji Subhas Road, Calcutta. Specializing in odd sizes and construction.
H. D. Cartwright & Co.—2, Clive Ghat Street, Calcutta.
Innes Watson & Co. Pvt. Ltd.—15-B, Clive Row, Calcutta.
King Bros.—B-5, Clive Bldgs., 8, Netaji Subhas Road, Calcutta.
Moran & Co. Pvt. Ltd.—C-5, Gillander House, 8, Netaji Subhas Road, Calcutta.
Perman & Hynd.—14, Netaji Subhas Road, Calcutta.

JUTE FABRICS SHIPPERS

Acharya Brothers.—23/24, Radha Bazar, Street, Calcutta.
Ambalal G. (Export) Pvt. Ltd.—4, Mission Row, Calcutta.
Anderson Wright Ltd.—7, Wellesley Place, Calcutta.
Angus Co. Ltd.—3, Clive Row, Calcutta.
Bangur Brothers Ltd.—14, Netaji Subhas Road, Calcutta.
Becker Gray & Co. (P) Ltd. C/o Bird & Co., Ltd.—Chartered Bank Bldgs., Netaji Subhas Road, Calcutta.
Bengal Jute Mills Co. Ltd.—8, Dalhousie Sq. East, Calcutta.
Bhutoria Bros., Pvt. Ltd.—56, Netaji Subhas Road, Calcutta.
Binani Commercial Co. Ltd.—42/1, Strand Road, Calcutta 1.
BITHALDAS BINANI.—43, Strand Road, Calcutta.
Blackwoods India Ltd.—2, Mangoe Lane, Calcutta.
Budge-Budge & Allied Jute Mills Exporter (P) Ltd.—8, Clive Row, Calcutta.
Bunge & Co., Ltd.—8, Old Court House Street, Calcutta.
Burlap Dealers Ltd.—9, Brabourne Road, Calcutta.
Chhaganlal Kasturchand.—16, Pollock Street, Calcutta.
Dharamdas & Tirthdas.—14, Clive Row, Calcutta.
Dulichand Kashiprasad.—18, Amratolla Street, Calcutta 1.
Duncan Bros. & Co., Ltd.—31, Netaji Subhas Road, Calcutta.
East India Commercial Co.—38, Netaji Subhas Road, Calcutta.
Eastern Mfg. Co. Ltd.—Mcleod House, 3, Netaji Subhas Road, Calcutta 1.
Ebrahim Yusuf Zainal Ali Raza.—22, Zakariah Street, Calcutta.
Elias B. N. & Co. Ltd.—Norton Bldgs., 1 & 2, Old Court House Corner, Calcutta.
Far Eastern Agencies Ltd.—P-14, Mission Row Extn., Calcutta.
Fulchand Kanahiyalal & Co.—23-24, Radhabazar Street, Calcutta.
G. & M. Fogt Co. Pvt. Ltd.—2, Garstin Place, Calcutta.
Ganesh Commercial Co. Ltd.—18A, Rupchand Roy Street, Calcutta.
Gangjee, F. & Co.—24, Mission Row Extension, Calcutta.
George Henderson & Co., Ltd.—4, Clive Row, Calcutta.
General Fibre Dealers Ltd.—India Exchange, 28/29, India Exchange Place Extn., Calcutta.
Gladstone Lyall & Co., Ltd.—4, Fairlie Place, Calcutta.
Gordhandas Jerambhai.—15A, Clive Row, Calcutta.
Gouripore Co. Ltd.—2, Fairlie Place, Calcutta.
Hamirmull Champalall.—2, Raja Woodmunt Street, Calcutta.
Hoare Miller & Co. Ltd.—5, Fairlie Place, Calcutta.
Hooghly Mills Co. Ltd.—10, Clive Row, Calcutta.
Imperial Chemical Industries (I) Ltd.—18, Strand Road, Calcutta.
Ispahani, Ltd.—51, Ezra Street, Calcutta.
Jagannath Gupta & Co. Pvt. Ltd.—7B, Clive Row, Calcutta.
James Finlay & Co., Ltd.—2, Netaji Subhas Road, Calcutta.
Jankidas Ramgopal.—48, Canning Street, Calcutta.
Jardine Henderson Ltd.—4, Clive Row, Calcutta.
Jhajharia Trading Co. Pvt. Ltd.—14, Netaji Subhas Road, Calcutta.
Jute & Gunny Brokers Pvt. Ltd.—2, Brabourne Road, Calcutta.
Jute Investment Co., Ltd.—8, India Exchange Place, Calcutta.
Kanoria Co., Pvt. Ltd.—9, Brabourne Road, Calcutta.
Kanoria & Sons Pvt. Ltd.—134, Canning Street, Calcutta.
KANT & CO. PRIVATE LTD.—15, Clive Row, Calcutta.
Kettlewell Bullen & Co. Ltd.—21, Strand Road, Calcutta.
Kharwar, M. R. Bros.—7, Swallow Lane, Calcutta.
KHERUKA & CO.—B-5, Gillander House, Netaji Subhas Road, Calcutta 1.
Kian Gwan Co. (Calcutta) Pvt. Ltd.—4, Robert Road, Dum Dum, Calcutta.
Louis Dreyfus & Co. Ltd.—P. N. B. House, 18A, Brabourne Road, Calcutta.
Ludlow Jute Co. Ltd.—7, India Exchange Place, Calcutta.
Madhavsingh Dwarkadas.—44-45, Ezra Street, Calcutta.
Mafatlall Gagalbhai & Sons.—18, Netaji Subhas Road, Calcutta.
Mahabir Commercial Co. Ltd.—8, India Exchange Place, Calcutta.
Mcleod & Co. Ltd.—3, Netaji Subhas Road, Calcutta.
Nanjee Shamjee & Co.—7, Lower Chitpore Road, Calcutta.
New Central Jute Mills Co.—11, Clive Row, Calcutta.
Panchanan Mullick.—P/40, Princep Street, Calcutta 13.
Patel G. & Co. Pvt. Ltd.—Govind Bhavan, 2, Brabourne Road, Calcutta.
Prabartak Commercial Corpn. Pvt. Ltd.—61, Bowbazar Street, Calcutta.
Rallis India Ltd.—16, Hare Street, Calcutta.
Ramdutt Ramkissendass.—9, Brabourne Road, Calcutta.
Sethia & Sons Pvt. Ltd.—38, Baranasi Ghosh Street, Calcutta.
Shaw Wallace & Co.—4, Bankshall Street, Calcutta.

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Shyam Investment Coprn., Pvt. Ltd.—42/1, Strand Road, Calcutta.
Sircar & Co.—6, Clive Row, Calcutta.
Soorajmull Nagarmull.—8, Dalhousie Square East, Calcutta.
Surajmull Murlidhar.—28, Amratolla Street, Calcutta.

SUNDER LAL & SON.—7A, Clive Row, Calcutta.

Toolsidass Jewraj.—15B, Clive Row, Calcutta.
Turner Morrison & Co. Pvt. Ltd.—6, Lyons Range, Calcutta.
Virchand Panachand & Co. (Calcutta) Pvt. Ltd.—37, Canning Street, Calcutta.
Vulubhdass Kalyanjee & Co. Pvt. Ltd.—34A, Brabourne Road, Calcutta.

JUTE MERCHANTS & EXPORTERS

Askaran Kishanlal—20, Mullick Street, Calcutta 7.
Bafna Trading Private Ltd.—13, Noormal Lohia Street, Calcutta 7.
Balabux Hulashchand.—161/1, Mahatma Gandhi Road, Calcutta 7.
Balchand Badriprasad.—9, Jagmohan Mullick Lane, Calcutta 7.
Begraj Satyanarayan.—5/1, Lucas Lane, Calcutta 1.
Bhagatram Nagarmall.—170, Mahatma Gandhi Road, Calcutta 7.
Bhanwarlal Kanwarlal.—3, Bysack Street, Calcutta 7.
Bherondan Ramkishen & Co.—216, Mahatma Gandhi Road, Calcutta 7.
Bhimraj Motilall.—46, Strand Road, Calcutta 7.
Binjraj Manikchand.—2, Raja Woodmunt Street, Calcutta 1.
Champalal Jugraj.—105, Old China Bazar Street, Calcutta 1.
Chandrabhan Laxminarayan.—46, Strand Road, Calcutta 7.
Chaturbhuj Hanumanmall.—16, Bonfield Lane, Calcutta 1.
Chauthmall Balchand Dugar.—46, Strand Road, Calcutta 7.
Chhaganmal Chopra.—133, Canning Street, Calcutta 1.
Dalram Arjundas.—13, Rupchand Roy Street, Calcutta 7.
Dhanraj Mulchand.—20, Mullick Street, Calcutta 7.
Dharamchand Dugar.—26/1, Armenian Street, Calcutta 1.
Essar India Private Ltd.—3, Burtolla Street, Calcutta 7.
Ghasiram Sagarmall.—46, Strand Road, Calcutta 7.
Gulabchand Jaichandlal.—46, Strand Road, Calcutta 7.
Gurudayal Gangabux.—20, Muktaram Babu Street, Calcutta 7.
Hamirmal Champalall.—2, Raja Woodmunt Street, Calcutta 1.
Hansraj Kanhaiyalall.—105, Old China Bazar Street, Calcutta 1.
Harakhchand Punamchand.—20, Mullick Street, Calcutta 7.
Harakishandas Bhairondan.—216, Mahatma Gandhi Road, Calcutta.
Hariram Mohanlall.—43/44, Cotton Street, Calcutta 7.
Hastmull Kastoorichand.—2, Raja Woodmunt Street Calcutta 1.
Hukumchand Mulchand.—22, Kalakar Street, Calcutta 7.
Jagannath Sobhachand.—136, Cotton Street, Calcutta 7.
Jankidas Banshidhar.—26/4, Armenian Street, Calcutta 1.
Jiwaraj Champalall.—2, Raja Woodmunt Street, Calcutta 1.
Joharimall Chandanmall.—16, Canning Street, Calcutta 1.
Joharmull Amolakchand.—20, Mullick Street, Calcutta 7.
Jodhram Ramgopal.—20, Mullick Street, Calcutta 7.
Jwalaprasad Mulchand.—26, Burtolla Street, Calcutta 1.
Kalicharan Ramchander.—6, Hanspokaria Lane, Calcutta 7.
Kalyanchand More.—43/44, Cotton Street, Calcutta 7.
Kanmal Nahata.—11, Armenian Street, Calcutta 1.
Kesharichand Nihalchand.—53, Nalinisett Road, Calcutta 7.
Kesharimull Jeetmull.—15, Noormal Lohia Lane, Calcutta 7.
Khemchand Pemchand.—13, Noormal Lohia Lane, Calcutta 7.
Khetsidas Udaichand.—4, Raja Woodmunt Street, Calcutta 1.
L. N. Poddar & Co. Ltd.—5, Dalhousie Square East, Calcutta 1.
Lachhmiram Nathmal.—5/1, Lucas Lane, Calcutta 1.
Lalchand Deepchand.—66, Nalinisett Road, Calcutta 7.
Mahalchand Rameshwarlal.—4, Rajawoodmunt Street, Calcutta 1.
Mahalchand Shrikishan.—46, Strand Road, Calcutta 7.
Mall Brothers.—266, Mahatma Gandhi Road, Calcutta 7.
Manikchand Punamchand.—20, Mullick Street, Calcutta 7.
Mannalal Inderchand Bohra.—16, Cross Street, Calcutta 7.
Milapchand Hiralal.—2, Raja Woodmunt Street, Calcutta 1.
Motilall Mohanlall.—4, Raja Woodmunt Street, Calcutta 1.
Multanmal Kishanlall.—7/2, Babulal Lane, Calcutta 7.
Nagarmull Paliram.—201, Mahatma Gandhi Road, Calcutta 7.
Nanagram Bachhraj.—35, Armenian Street, Calcutta 1.
Nathmal Mohanlal Dugar.—11, Armenian Street, Calcutta 1.
Naurangrai Nagarmall.—43/44, Cotton Street, Calcutta 7.
Onkarmull Nathmull.—26 Burtolla Street, Calcutta 7.

ONKAR SHANKAR TRADING PRIVATE LTD.—26, Burtolla Street, Calcutta 7.

Panchiram Nahata.—177, Mahatma Gandhi Road, Calcutta 7.
P. H. Periwal Bros., Pvt. Ltd.—123, Chittaranjan Avenue, Calcutta 7.
Pramod & Co.—178, Mahatma Gandhi Road, Calcutta 7.
Pratapmall Rameshwar.—46, Strand Road, Calcutta 7.
Premsukhdas Manikchand.—195/1/1, Mahatma Gandhi Road, Calcutta 7.
Premsukhdas Tolaram.—195/1/1, Mahatma Gandhi Road, Calcutta 7.
Punamchand Manikchand.—2, Raja Woodmunt Street, Calcutta 1.
Purushottamdas Kedarnath.—9, Jagmohan Mullick Lane, Calcutta 7.
R. B. Seth Jessaram Fatehchand.—160, Cross Street, Calcutta 7.
Raghunathrai Mahadeo.—43/44, Cotton Street, Calcutta 7.
Ramchander Nandkumar.—161/1, Mahatma Gandhi Road, Calcutta 7.
Ramchander Jagannath.—26, Burtolla Street, Calcutta 7.
Ramdeo Satyanarain.—161/1, Mahatma Gandhi Road, Calcutta 7.
Ramchand Surajmall.—26/4, Armenian Street, Calcutta 1.
Ramdeo Shiwlall.—94, Lower Chitpur Road, Calcutta 7.
Ramdhandas Bagwandas.—56, Netaji Subhas Road, Calcutta 1.
Ramgopal Bharmul.—161/1, Mahatma Gandhi Road, Calcutta 7.
Ramlall Kaniyalall.—65, Cotton Street, Calcutta 7.
Ramnarayan Lara.—4, Commercial Bldgs., Calcutta 1.

S. A. TORAB & CO.—55, Canning Street, Block "C", Calcutta 1.

Sablawant Trading Co.—15, Noormal Lohia Lane, Calcutta 7.
Sagarmal Murarilall.—178, Mahatma Gandhi Road, Calcutta 7.
Sanwaltram Gopikishan.—56, Netaji Subhas Road, Calcutta 7.
Shree Kishan Shewbhagwan & Co. Private Ltd.—94, Lower Chitpur Road, Calcutta 7.
Shreekishen Sagarmall.—20, Mullick Street, Calcutta 7.
Sohan all Chandanmull.—15, Noormal Lohia Lane, Calcutta 7.
Sohanlal Pirthiraj.—125, Mahatma Gandhi Road, Calcutta 7.
Sumermal Anchalia.—208, Mahatma Gandhi Road, Calcutta 7.
Sumermal Roychand.—143, Cotton Street, Calcutta 7.

SUNDER LAL & SON.—7-A, Clive Row, Calcutta 1.

Surji Surajmull Chandmull.—2, Raja Woodmunt Street, Calcutta 1.
Surajmull Ganeshiram.—161/1, Mahatma Gandhi Road, Calcutta 7.
Surajmal Hanumandas.—132, Cotton Street, Calcutta 7.
Thanmull Chunilall & Sons.—7, Shambhu Mullick Lane, Calcutta 7.
Thansingh Lachmipat.—15, Noormal Lohia Lane, Calcutta 7.
Tilokchand Jeetmull.—2, Raja Woodmunt Street, Calcutta 7.
Tulchhiram Kanhaiyalal.—56, Netaji Subhas Road, Calcutta 7.

JUTE MILL MACHINERY & PARTS

A. C. Roy.—41-1, Belilios Road, Howrah.
Ananta Chatterjee & Sons.—200, Bellilios Road, Howrah.
Ballav & Sons.—226, Belilios Road, Howrah.
D. C. De & Sons.—150, Harasingha Dutta Road, Howrah.
D. K. Das & Co. P. Ltd.—233, Belilios Road, Howrah.
East India Engg. & Agency Co.—63-1, Benaras Road, North Bantra, Howrah.
Fakir Chand Das Mistry & Sons. Pvt. Ltd.—143-144, Belilios Road, Howrah.
Howrah Engg. Concern Pvt. Ltd.—19, Maharshi Debendra Road, Calcutta 6.
Howrah Iron & Steel Works P. Ltd.—90, Benares Road, Salkia.
K. P. Das & Co. P. Ltd.—163, Netaji Subhas Road, Howrah.
Machine & Mill Stores Corpn. Pvt. Ltd.—68-D, N. Subhas Road, Calcutta 1.
New Bengal Engineering Works.—75, Belilios Road, Howrah.
Senapati Brothers P. Ltd.—312, Belilios Road, Howrah.

SHALIMAR WOOD PRODUCTS PRIVATE LTD.—138, Canning Street, Calcutta. Manufacturers of Jute Mill Bobbins, Shuttles, Card Staves, Card/Gill Pins and other wooden accessories.

Texmaco.—Belgharia, (Dt. 24 Parganas).

JUTE MILLS

Agarpara Co., Ltd.—Norton Bldgs., 1 & 2, Old Court House Corner, Calcutta.
Alexandra Jute Mills Ltd.—3, Netaji Subhas Road, Calcutta.
Alliance Jute Mills Co., Ltd.—3, Netaji Subhas Road, Calcutta.
Anglo-India Jute Mills Co., Ltd.—31, Netaji Subhas Road, Calcutta.
Angus Co., Ltd.—2 & 3, Clive Row, Calcutta.
Auckland Jute Co. Ltd.—Chartered Banks Bldgs., Calcutta.
Bally Jute Co. Ltd.—8, India Exchange Place, Calcutta.
Barnagore Jute Factory Co. Ltd.—4, Clive Row, Calcutta.
Belvedere Jute Mills Co., Ltd.—8, Clive Row, Calcutta.
Bengal Jute Mill Co., Ltd.—61, Harrison Road, or 8, Dalhousie Square East, Calcutta.
Birla Jute Mfg. Co. Ltd.—8, India Exchange Place, Calcutta.
Budge-Budge Jute Mills Co., Ltd.—8, Clive Row, Calcutta.
Calcutta Jute Mfg. Co. Ltd.—Stephen House, 4, Dalhousie Square, 4th Floor, Calcutta.
Caledonian Jute Mills Co., Ltd.—9, Brabourne Road, Calcutta.
Champdany Jute Co., Ltd.—Wellington Jute Mills.—2, Netaji Subhas Road, Calcutta.
Cheviot Mills Co. Ltd.—8, Clive Row, Calcutta.
Chitavalsah Jute Mills Co., Ltd.—3, Netaji Subhas Road, Calcutta.
Clive Mills Co. Ltd.—13, Old Court House Street, Calcutta.
Dalhousie Jute Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Delta Jute Mills Co., Ltd.—8, Clive Row, Calcutta.
Eastern Mfg. Co. Ltd.—3, Netaji Subhas Road, Calcutta.
Empire Jute Co. Ltd.—3, Netaji Subhas Road, Calcutta.
Fort Gloster Industries Ltd.—21, Strand Road, Calcutta.
Fort William Jute Co., Ltd.—14, Netaji Subhas Road, Calcutta.
Ganges Mfg. Co., Ltd.—7, Council House Street, Calcutta.
General Industrial Society Ltd.—8, India Exchange Place, Calcutta.
Gourepore Co. Ltd.—2, Fairlie Place, Calcutta.
Hastings Mill Ltd.—14, Netaji Subhas Road, Calcutta.
Hooghly Mills Co., Ltd.—10, Clive Row, Third Floor, Calcutta.
Howrah Mills Co., Ltd.—4, Clive Row, Calcutta.
Hukumchand Jute Mills Ltd.—9, Brabourne Road, Calcutta.
India Jute Co. Ltd.—16, Strand Road, Calcutta.
Kamarhatty Co., Ltd.—4, Clive Row, Calcutta.
Kanknarrah Co., Ltd.—4, Clive Row, Calcutta.
Kanoria Co., Ltd.—18, Mullick Street, or Brabourne Road, Calcutta.
Katihar Jute Mills Ltd.—3, Chandmari Road, Howrah.

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Kedarnath Jute Mfg. Co., Ltd.—13, Syed Salley Lane, Calcutta.
Kelvin Jute Co., Ltd.—3, Netaji Subhas Road, Calcutta.
Khardah Co., Ltd.—7, Wellesley Place, Calcutta.
Kinnison Jute Mills Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Lansdowne Jute Co. Ltd.—Chartered Bank Bldgs., Calcutta.
Lawrence Jute Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Luxmi Jute Mills Ltd.—5, Clive Row, Calcutta.
Megna Mills Co. Ltd.—16, Strand Road, Calcutta.
National Co., Ltd.—P. N. B. House, 18A, Brabourne Road, Calcutta.
Naihati Jute Mills Co., Ltd.—33, Netaji Subhas Road, Calcutta.
Naskarpara Jute Mills Co. Ltd.—144/45, Old Ghusuri Road, Howrah or 8, Dalhousie Square East, Calcutta.
Nellimarla Jute Mills Co., Ltd.—3, Netaji Subhas Road, Calcutta.
New Central Jute Mills Co., Ltd.—11, Clive Row, Calcutta.
North Brook Jute Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Nuddea Mills Co., Ltd.—2, Fairlie Place, Calcutta.
Orient Jute Mills Co., Ltd.—8, Clive Row, Calcutta.
Premchand Jute Mills Ltd.—81, Shova Bazar Street, Calcutta.
Presidency Jute Mills Co., Ltd.—3, Netaji Subhas Road, Calcutta.
Reliance Jute Mills Co., Ltd.—4, Clive Row, Calcutta.
Samnuggur Jute Factory Co., Ltd.—2 & 3, Clive Row, Calcutta.
Shree Ambica Jute Mills Ltd.—5, Clive Row, Calcutta.
Shree Ganesh Jute Mills Ltd.—5, Dalhousie Square East, 6th Floor, Suite No. 105, Calcutta.
Shree Gouri Shankar Jute Mills Pvt. Ltd.—10, Clive Row, Calcutta.
Shree Hanuman Jute Mills.—61, Harrison Road, or 8, Dalhousie Square East, Calcutta.
Shree Luchminarain Jute Mfg. Co. Ltd.—3, Chandmari Road, Howrah.
Shree Mahadeo Jute Mills.—46, Strand Road, Calcutta.
Soorah Jute Mills Co., Ltd.—8, India Exchange Place, Calcutta.
Standard Jute Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Titaghur Jute Factory Co. Ltd.—2 & 3, Clive Row, Calcutta.
Union Jute Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Victoria Jute Co., Ltd.—2 & 3, Clive Row, Calcutta.
Waverley Jute Mills Co., Ltd.—3, Netaji Subhas Road, Calcutta.
Wellington Jute Mills.—2, Netaji Subhas Road, Calcutta.

KAPOK MANUFACTURERS

A. Bradeley & Co.—63, Radha Bazar Street, Calcutta.
Banthia Brothers.—61, Cross Street, Calcutta 7.
Basantlal Banka.—15, Bhawanidutt Lane, Calcutta 7.
Bhuramull Agarwalla.—2/1, Satyanarain Temple Road, Salkia, Howrah.
Bidhu Bhushan Chaudhury.—35, Sova Bazar Street, Calcutta 3.
Hurduttroy Gulabroy.—171/1, J. N. Mukherjee Road, Salkia, Howrah.
Indian Produce Exporters Co.—74, Cross Street, Calcutta 7.
Jagannath Brothers.—2, Satyanarain Temple Road, Salkia, Calcutta.
Kailash Chandra Dutta.—72/B, Durga Charan Mitra Lane, Calcutta 6.
Kalidas Saha.—14, Benia Tolla Street, Calcutta 5.
Kaushik Tibrewalla.—34, Burtolla Street, Calcutta 7.
Kedarnath Balmukund.—402, Upper Chitpore Road, Calcutta 7.
Khimjee Hunsraj.—165, Lower Chitpore Road, Calcutta.
Lalchand Mahadeblal.—7, Hazarimull Shah Road, Salkia, Howrah.
Madanlal Basak.—17/1, Gulu Ostagarh Lane, Calcutta 6.
Madanlal Sharma.—12, Ishwar Dutt Lane (Opp.: Khurd Road), Howrah.
Murlidhar Tibrewalla.—34, Burtolla Street, Calcutta. 7.
Niranjanlal & Sons.—2/1, Satyanarain Temple Road, Salkia, Howrah.
Ram & Sons.—16, Satyanarayan Temple Road, Salkia, Howrah.
Sudhamoy Roy.—31, Bandhab Nagar Colony, Calcutta 28.
Tarak Chandra Bose, C/o H. C. Mukherjee & Co.—5, Mangoe Lane, Calcutta.
Upendra Nath Dass.—43, Ultadanga Main Road, Hatkhola, Calcutta.

LABORATORY CHEMICALS

INTERNATIONAL DRUG & CHEMICAL CO.—55/104, Canning Street (Mehta Buildings), Calcutta 1.

LAC MERCHANTS & EXPORTERS

Abdul Sattar Abdulla.—4, Amratolla Street, Calcutta.
Acharya Brothers.—23/24, Radha Bazar Street, Calcutta.
Achhruram Sohanlal.—25/26, Stephen House, Dalhousie Square East, Calcutta.
Aerofoils Pvt. Ltd.—2, Brabourne Road, Calcutta 1.
Ahmedali Jafferjee Gandhi.—24, Pollock Street, Calcutta.
Alexei Lucas & Co.—13, British Indian Street, Calcutta.
A. M. Arathoon Pvt. Ltd.—India Exchange, 3rd Floor, Calcutta.
Ambalal (Export) Pvt. Ltd.—G. 4, Mission Row, Calcutta.
Angelo Bros. Ltd.—6, Lyons Range, Calcutta.
Anilkumar & Co.—12, Amratolla Street, Calcutta.
The Associated Commercial Co. of India Pvt. Ltd.—7, Hastings Street, Calcutta.
Baijnath Sreelal.—197, Mahatma Gandhi Road, Calcutta 7.
B. D. Gupta.—14/2, Old China Bazar Street, Calcutta.
Bhansali & Co.—54, Ezra Street, Calcutta 1.
Bharat Bhandar.—72A, Ratan Sarkar Garden Street, Calcutta 7.
Bharat Kala Bhandar Ltd.—8, India Exchange Place, Calcutta.
Bharat Warehousing (Pvt.) Ltd.—6, Stephen House, Dalhousie Square East, Calcutta.
Bhoola & Co., N. D.—51, Ezra Street, Calcutta.
Biswas N. N. & Sons.—19, British Indian Street, Calcutta.
Blackwoods India Ltd.—2, Mangoe Lane, Calcutta.
Bhimsain Sundarsain.—14, Amratolla Street, Calcutta.
Bunge & Co. Ltd.—8, Old Court House, Street, Calcutta.
Calcutta Wax Traders & Co. Pvt. Ltd.—22, Bonfield Lane, Calcutta.
Carrimjee Allibhoy.—20, Zakaria Street, Calcutta.
Chatterjee Chakravarty & Co.—135, Canning Street, 2nd Floor, Calcutta.

D. S. BHOOLA & CO.—34, Ezra Street, Calcutta 1.

Daw, K. C.—62-A, Joy Mitter Street, Calcutta.
Dawjee Dadabhoy & Co.—67, Canning Street, Calcutta.
Deviprasad Khandelwal & Co. Pvt. Ltd.—33, Netaji Subhas Road, Calcutta 1.
Dharamdas & Tirthdas.—14/2, Clive Row, Calcutta.
Dipak Trading Co.—15, Amratolla Lane, Calcutta 1.
Dulichand Kashiprasad.—18, Amratolla Street, Calcutta.
Dutta & Co.—161, Cotton Street, Calcutta.
Ean Boswell & Co. Pvt. Ltd.—24, Chittaranjan Avenue, Calcutta 12.
East India Commercial Co. Pvt. Ltd.—38, Netaji Subhas Road, Calcutta.
Eastern Industries.—14, India Exchange Place, Calcutta.
Eichholz Trading Co. (P) Ltd.—25, Swallow Lane, Calcutta.
Ess Lahiri & Co. (P) Ltd.—2, Church Lane, Calcutta.
Far Eastern Agencies Ltd.—Windsor House, P-14, Mission Row Extension, Calcutta.
F. Ganjee & Co.—24, Mission Row Extn., Calcutta 13.
Ganesh Chandra Samajdar.—10, Canning Street, Calcutta.
Garg & Sons.—138, Canning Street, Calcutta.
General Fibre Dealers Ltd.—India Exchange, Calcutta.

GENERAL LAC TRADING CO.—146, Lower Chitpur Road, Calcutta 1.

General Suppliers Pvt. Ltd.—32, Cross Street, Calcutta 1.
Getz Brothers & Co.—9, Brabourne Road, Calcutta 1.
Gopaldas & Co.—B. 30/31, Kalakar Street, Calcutta 7.
Hansraj Jaswant Rai.—21B, Canning Street, Calcutta.
Harbanslal Malhotra & Sons Pvt. Ltd.—18, Netaji Subhas Road, Calcutta.
Hind Enterprise.—8, Dalhousie Sq. East, Calcutta.
Hiralal Lalchand.—5, Mangoe Lane, Calcutta.
Hope Prudhome & Co. Pvt. Ltd.—7, Wellesley Place, Calcutta.
Hovanesian Bros. Pvt. Ltd.—104, Stephen House, Dalhousie Sq. East, Calcutta.
Indian & Foreign Trading Corpn. Pvt. Ltd.—15A, Clive Row, Calcutta.
Indo-Burma Trading Corpn.—10, Chowringhee Road, Calcutta.
Isharsingh Kirpalsingh & Co.—10/1, Portuguese Church Street, Calcutta.
Jafferbhoy Salebhoy.—11, Pollock Street, Calcutta.
Jagannath Bajranglall.—32, Armenian Street, Calcutta.
Jamnadas & Co.—27, Amratolla Lane, Calcutta.
Jankidas Ramgopal.—48, Canning Street, Calcutta.
Jayantilal & Co., T.—14/2, Old China Bazar Street, Calcutta.
J. K. Dass & Sons Pvt. Ltd.—11, Ratan Sarkar Garden Street, Calcutta 7.
Johannes & Co. Pvt. Ltd.—Mukerjee House, 17, Brabourne Road, Calcutta.
Jordan Pvt. Ltd., A.M.—12, Windsor House, Mission Row Extn., Calcutta.
Jupiter Commercial Co.—7, Swallow Lane, Calcutta.
Kajaria Sons Pvt. Ltd.—32, Armenian Street, Calcutta.
Kaliganga Bhandar.—50, Kali Krishna Tagore Street, Calcutta 7.
Kamala Bhandar.—168, Cotton Street, Calcutta 7.
Kanak Engineering & General Corpn.—41, Chowringhee Road, Calcutta 16.
Kashani & Son, M.A.M.—17, Mangoe Lane, Calcutta.
Kaushal International Traders.—35/17, Ezra Street, 4th Floor, Calcutta.
Khandelwal Brothers Pvt. Ltd.—33, Netaji Subhas Road, Calcutta 1.
Khorana Brothers.—5/2, Gobind Dhar Lane, Calcutta 1.
Kharwar Bros., M.R.—7, Swallow Lane, Calcutta.
Kian Gwan & Co. (Cal.) Pvt. Ltd.—5/B, Clive Ghat Street, Calcutta.
Kodamall Mohanlall.—201, Mahatma Gandhi Road, Calcutta 7.
K. Kutty & Co.—14, Bentick Street, Calcutta.
Krishna Traders.—20, Kumartully Street, Calcutta 5.
Linkers Overseas Traders.—40A, Armenian Street, Calcutta.
L. Nanalal Bros.—10/1, Portuguese Church St., Calcutta.
Macgreg & Co. Pvt. Ltd.—33, Stephen House, Dalhousie Sqr. East, Calcutta.
Madhavlal & Co.—11, Ezra Street, Calcutta.
Mahomedally Valji & Co.—67, Bentinck Street, Calcutta.
Manoharlal Mahabirprasad.—178, Mahatma Gandhi Road, Calcutta 7.
Mehta K. D.—54, Ezra Street, Calcutta.
Mercantile Co.—150, Lower Chitpur Road, Calcutta.

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MITA INDUSTRIES CORPORATION.—78, Dharamtala Street, Calcutta 13.

Modi R. K. Pvt. Ltd.—12, Dalhousie Sqr. East, Calcutta.
Motiram Agarwal & Co. Pvt. Ltd.—137, Canning Street, Calcutta.
Mukerji Brothers.—156, Radha Bazar Street, Calcutta.
Nathubhai Nanjee & Sons.—14/2, Old China Bazar, Calcutta.
Natwarlal N. Daftary.—46, Ezra Street, Calcutta.
Niranjan & Co.—14/2, Old China Bazar Street, Calcutta.
Nitohari Nalinimohan Saha.—P2/234, Maharshi Debendra Road, Calcutta.
N. K. Som & Co.—1, Chittaranjan Avenue, Calcutta 13.
Oriental & Occidental Trading Co.—30, Brabourne Road, Calcutta.

ORIENTAL EXPORT CO.—3, Biswas Nursery Lane, Calcutta 10.

Oriental Traders.—12, Lower Chitpur Road, Calcutta.

PARKASH IMPEX.—18, Netaji Subhas Road, Calcutta 1.

Patel G. & Co. Pvt. Ltd.—2, Brabourne Road, Calcutta.
Pradeep Traders.—55, Canning Street, J Block, Calcutta.

PRABARTAK COMMERCIAL CORPORATION PRIVATE LTD.—61, Bipin Behary Ganguly Street, Calcutta 12.

Purushottamdas Jalan.—5, Mangoe Lane, Calcutta 1.
Radharam Sohanlal.—3, Mullick Street, Calcutta 7.
Raghunathrai Pyarelall.—15, Noormal Lohia Lane, Calcutta 7.
Ramkishore Jayaswal Pvt. Ltd.—20, Mangoe Lane, Calcutta.

RATANLAL JIVARAJMAL.—157, Netaji Subhas Road, Calcutta.

Ratilal D. Ghelani.—33, Armenian Street, Calcutta.
Raymon & Co. (India) Pvt. Ltd.—2, Brabourne Road, Calcutta.

RELIANCE EXPORT CORPORATION.—2, Mangoe Lane, Calcutta.

S. A. Torab & Co.—55, Canning Street, C Block, Calcutta.
Saha Brothers.—40/2, Strand Road, Calcutta.
Salebhoy Abdeali.—51, Canning Street, Calcutta.
Samar Singh Jayaswal Pvt. Ltd.—112/4, Stephen House, Dalhousie Sqr. East, Calcutta.
Senairam Doongarmall.—138, Canning Street, Calcutta.
Shellac Industries Ltd.—51, Ezra Street, Calcutta.

SHOON HING & CO.—28, Blackburn Lane, Calcutta 12. Specialists in Indian Raw Medicines & Herbs.

South East Asia Shippers.—71, Canning Street, Calcutta.
S. V. Thirunavukarasu Pillai.—2, Mullick Street, 1st Floor, Calcutta 7.

SWAIKA OIL MILLS.—Head Office: P.N.B. House, 18-B, Brabourne Road, Calcutta 1. Manufacturers and Exporters of all kinds of Vegetable Oils edible and industrial such as Linseed Oil (Raw, Double or Pale Boiled, Alkali or Acid Refined) stand oil of Poises varying from 1 to 1,000, Castor Oil (Commercial, Industrial and Medicinal), Groundnut Oil (Vanaspati and Salad Oil), Mowrah Oil, Mustard Oil, Tobacco Seed Oil, Kardi Oil, Nieger Oil, Turkey Red Oil, etc., Oilcakes of all varieties (Linseed Cake, Copra Cake, Groundnut Cake, Kardi Cake, Niger-Cake), Jaggery, Molasses, Bees wax, Seeds of all varieties, Spices, Musk and Minerals (Talc. Soap Stone both Powder and Lump), Barytes (Barium Sulphate), Yellow and Red Ochre, Bentonine, Lump and Powder, Graphite and other Industrial Minerals, Chemicals, Glycerine, Stearic and Oleic Acid, Stearates, Laundry Soap, etc., etc.

Tandan Brothers.—3, Sukhlal Jahuri Lane, Calcutta.
Turner Morrison & Co. Pvt. Ltd.—6, Lyons Range, Calcutta.
Umakant & Co. Pvt. Ltd.—4, Mullick Street, Calcutta 7.
United Chinese Corpn. Pvt. Ltd.—P-16, Bentinck Street, Calcutta.
V. Purushottam & Co.—22, Amratolla Street, Calcutta 1.
Virchand Panachand & Co. (Cal.) P. Ltd.—37, Canning St., Calcutta.

LAMP (OIL PRESSURE) MANUFACTURERS

Dazzle Products Ltd.—138, Canning Street, Calcutta.

ESSBEE ENGINEERING WORKS.—25-B, Beniatolla Lane, Calcutta.

Krudd Industries Ltd.—20-21, Stephen House, Dalhousie Square, Calcutta.
Shilpa-Peeth Ltd.—111/1, Gopal Lal, Thakur Road, Alambazar, Calcutta 35.

LANTERN MANUFACTURERS

Industrial Works Private Ltd.—55/1, Dharamtolla Road, Salkia, Howrah, Manufacturers of Hurricane lanterns, Kerosine Wick Stoves, Industrial Components, Belt Fasteners, Hardware Material, Electro-platers of Hard Chromium, other platings, etc.
Oriental Metal Industries Ltd.—77, Bowbazar Street, Calcutta 12.
Universal Lamp Manufacturing Co. Private Ltd.—93B, Ripon Street, Calcutta 16, Manufacturers of quality Hurricane Lanterns and Lampware, under 'KISAN' Trade Mark.

LEAD MANUFACTURERS

Ashok Co.—157, Netaji Subhas Road, Calcutta.
Ashok Metal Industries Ltd.—157, Netaji Subhas Road, Calcutta.
Associated Pigments Ltd.—14, Netaji Subhas Road, Calcutta 1.
Chandra Industries Private Ltd.—58, Cotton Street, Calcutta 7.

LEATHER & LEATHER PRODUCTS

A. Mohammed & Co.—26, Netaji Subhas Road, Calcutta 1.
Basak & Co.—22, Raja Woodmunt Street, Calcutta 1.
Bata Shoe Co. Pvt. Ltd.—30, Theatre Road, Calcutta 16.
Bengal Mill Stores Co.—2, Kanai Seal Street, Calcutta 1.
Bengal Tannery Co.—31/14, Lower Chitpur Road, Calcutta.
Calcutta Tanneries Ltd.—Kankinarrah, 24 Parganas Dist.
Chaiffe Tannery.—South Tangra Road, Calcutta.
Cottage Tanning Institute.—South Tangra Road, Dhapa P.O., 24 Parganas.
De Lux Pvt. Ltd.—34-1-G, Ballygunge Circular Road, Calcutta.
Dutt, S. L., & Bros.—59, Netaji Subhas Road, Calcutta.
Ganesh Brothers.—22, Hidaram Banerjee Lane, Calcutta 12.
Glace Kid (India) Ltd.—2, Tangra 2nd Lane, Calcutta 15.
Hindustan Tannery.—129, South Tangra Road, Dhapa P.O., 24 Parganas Dt.
India Exchange Corpn. P. Ltd.—26-B, Ezra Mansions, 10, Govt. Place East, Calcutta.
Industrial Leather & Rubber Works.—24, Strand Road, Calcutta.
Industrial Leathers Co.—3-1, Indra Roy Road, Calcutta 25.
Jardine Henderson Ltd.—4, Clive Row, Calcutta 1.
Leather & Steel Products.—26, Burtolla Street, Calcutta 7.
Mukherjee & Sons.—3, Ezra Street, Calcutta 1.
National Chamois Works Ltd.—33/1, North Topsia Road, Tiljala P.O., 24 Parganas Dist.
National Tannery Co. Ltd.—Canal South Road, Pagladanga, Entally P.O., 24 Parganas Dist.
Numehaong Tannery.—South Tangra Road, Calcutta.
P. Barak & Co.—29-A, Durga Ch. Mitter Street, Calcutta.
Textile Leather Mfg. Co.—60/2, Dharamtalla Street, Calcutta.
United Tanning Industries.—16, Balikbur Lane, Calcutta.

LEATHER BUCKET MANUFACTURERS

Dutt, S. L. & Bros.—59, Netaji Subhas Road, Calcutta.
Industrial Leather & Rubber Works.—24, Strand Road, Calcutta.
Mukherjee & Sons.—3, Ezra Street, Calcutta.

LOCK AND SAFE MANUFACTURERS

Bengal Iron Safe & Lock Works.—120, Sovabazar Street, Calcutta.
Calcutta Lock Factory.—P.O. Gopalpur, Bashirhat, Ry. Stn. Arbalia, Dist. 24 Parganas.
Das Lock & Safe Mfg. Co. Private Ltd.—77-B, Rash Behari Avenue, Calcutta.
Dhang Brothers & Co.—34, Strand Road, Calcutta.
Dhawa S.H., & Sons.—Subhararah, P.O. Jujersa, Dist. Howrah.
Economic Tanks Supply Co.—100, Harrison Road, Calcutta.
Ghose G. & Co.—101, Mahatma Gandhi Road, Calcutta 7.
Ghosh & Co.—96, Mahatma Gandhi Road, Calcutta 7.
Godrej & Boyce Mfg. Co. P. Ltd.—9, Brabourne Road, Calcutta.
Howrah Lock Mfg. Co. Ltd.—22, Raja Woodmunt Road, Calcutta.
Nani Lall Dey.—70, Netaji Subhas Road, Calcutta.
Orient Safe & Cabinet Mfg. Co.—Showroom 133, Canning St., Calcutta.
Patra N. N. & Co.—117, Netaji Subhas Road, Calcutta.
Ray G. & Co.—70-1, Netaji Subhas Road, Calcutta.
Sanial & Co.—22, Canning Street, Calcutta.
Shaw Bros. & Co.—Harrison Road, Calcutta 7.

THUNDER LOCK CO.—Manufacturers of Pad Locks and Wholesale dealers in all kinds of Knives, Scissors, Spoons and allied articles.

Universal Safe & Tank Mfg. Co.—100, Mahatma Gandhi Road, Calcutta 7.

LOCKS & FITTINGS

DE'S LOCK INDUSTRIES.—31, Haripada Dutta Lane, Calcutta 33. Makers of Mortise Locks and Joinery Fittings, Door Closers & Floor Springs.

MACHINE PARTS MANUFACTURERS

Banerjea Chakravorty & Co.—135, Canning Street, Calcutta 1.
B. N. Pachal & Sons P. Ltd.—33-1-1, Natabar Pal Road, Howrah.
D. L. Sett & Brothers.—283, Belilios Road, Howrah.
East Indies Trading Corporation.—12-B, Clive Row, Calcutta 1.
L. Mullick & Co.—81, Netaji Subhas Road, Calcutta 1.
Machine Parts Manufacturing Co.—6A, Sultan Alam Road, Calcutta 33.
M. Chowdhury & Co.—113-G, Netaji Subhas Road, Calcutta 1.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

New India Engineering Syndicate.—113-G, Netaji Subhas Road, Calcutta 1.
Oriental Engineering Co.—13 and 14, Danesh Molla Lane, Sibpore, Howrah.
Rajlakshmi Engineering Works.—151, Banaras Road, Salkia.
Regent Engineering Stores.—42, Strand Road, Calcutta 1.
Salkia Industrial Works.—195-1, Grand Trunk Road North, Ghusuri, Howrah.
Sree Durga Machinery Works.—161, Netaji Subhas Road, Howrah.

MACHINE SCREWS

MODERN ENGINEERING WORKS.—12, Jadupandit Road, Calcutta 6. Manufacturers of Springs and Spring-Washers and Machine Screws. Dealers of Sugar Mill Machinery & Stores and Cotton Mill Machinery & Stores.

MACHINE TOOLS

A. MOHAMMED & CO.—Head Office: 26, Netaji Subhas Road, Calcutta 1. Phone 222406; Grams: "POLISHER". General Hardware, Tools and Machinery Merchants and Order Suppliers.
Alfred Herbert (India) Pvt. Ltd.—13-3, Strand Road, Calcutta.
Associated British Machine Tool Makers (India) Ltd.—6, Old P.O. Street, Calcutta.

BARDSON & CO.—21-A, Canning Street, Calcutta 1. Manufacturers of "BARDHAN" Tools, Machines and Hardwares.
Bengal Iron & Steel Works.—8, Canning Street, Daga House, Calcutta.
Bengal Machine Tool Works.—112, Narsing Dutta Road, Howrah.
Eslar & Co.—Puranhat, Burnpur P.O., Burdwan.
D. C. De & Sons.—150, Narasingha Dutta Road, Howrah.
Dutson Engineering Corporation Pvt. Ltd.—5, Mahendra Chandra Garden Road, Dum Dum, Calcutta 30.
Heatly & Gresham Ltd.—31, Chittaranjan Avenue, Calcutta.
Heroes Engineering Works Pvt. Ltd.—20, Paul Street, Calcutta 4.
Hind Enterprises.—4, Mission Row, Calcutta 1.
Hope Engineering Works.—126-1, Belilios Road, Howrah.
India Machinery Co. Ltd.—29, Strand Road, Calcutta.
Indian Machine Tools Mfg. Co. Ltd.—A-3, Clive Bldgs., Calcutta 1.
Industrial Gases Ltd.—138, Canning Street, Calcutta.
Industrial Tools & Mills Stores Co.—67-B, Netaji Subhas Road, Calcutta 1.
Kali Charan Mukherjee.—113, Monohardas Chowk, Burrabazar, Calcutta 7.
K. R. Paul & Co.—127, Belilios Road, Howrah.
Luxmi Engineering Co. Pvt. Ltd.—123, Narasingha Dutta Road, Howrah.
Machine Tools (I) Ltd.— Wimet House, Russell Street, Calcutta 16.
Machine Tools Traders.—25, Ganesh Ch. Avenue, Calcutta 13.

MACHINO TECHNO (SALES) PRIVATE LTD.—33, Netaji Subhas Road, Calcutta 1.

MANEKLAL & SONS (CALCUTTA).—23, Ganesh Chandra Avenue, Calcutta 13. Bombay Associates: Maneklal & Sons, 115/116, Narayan Dhuru Street, Bombay 3. Dealers and Manufacturers of Workshop Machine Tools, Sheet Metal Working Machines and Woodworking Machines. Importers of Electrical Tools and various types of Workshop Equipments.
Maya Engineering Works Pvt. Ltd.—200A, Syamaprasad Mukherjee Road, Calcutta.
Metal & Alloy Corpn.—38A, Belgachia Road, Calcutta 37.
Modern India Machine Tools Ltd.—18/1/6, Canal West Road, Garpar, Calcutta.
National Machine Tools Co.—10-10, Brindaban Mullick Lane, Howrah.
New Bengal Engineering Works.—75, Belilios Road, Howrah.
New India Tools Mfg. Co.—Singhi Park, 48, Gariahat Road, Calcutta.
Paul's Engineering Co.—P-7, Natabar Paul Road, Dassnagar (Dt. Howrah).
Philips India Pvt. Ltd.—31, Chowringhee Road, Calcutta 16.
Republic Traders Corpn.—P-12, Mission Row Extn., Calcutta 1.
Salkia Industrial Works.—195-1, Grand Trunk Road, Ghursuri, Howrah.
Tool Suppliers Pvt. Ltd.—18, Netaji Subhas Road, Calcutta 1.
Ultra Engineering Co.—172-8, Madhusudan Pal Chowdhury Lane, Howrah.
United Equipment & Stores Pvt. Ltd.—53, Radha Bazar St., Calcutta 1.
William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

MACHINERY MANUFACTURERS & DEALERS

Atlas Works Ltd.—119, Ripon Street, Calcutta 16.

BENGAL HARDWARE & TIN SEAL MANUFACTURING CO.—70, Netaji Subhas Road, Calcutta 1. Manufacturers of Strapping Machines (Signode Type), Strapping Machines (Heavy Type) with Cutter & Sealing Machines, Wire Tying Machines, Hoop-clips, Protective Case Seals, Lead Seals, Galvanized Sealing Wire, Embossing Machine, Galvanized Iron Drums, Galv, Iron Buckets, Tin Containers, Safety Cup Seals, Hand Trucks, Hand Barrows, Lifting Trucks, Night Soil Trucks, Refrigerator Nozzles, Jacks (Lifting & Trabasing and Bottle Type); Chucks and other Machinery parts etc., etc.
Bery Brothers.—135, Canning Street, Calcutta 1.
B. M. S. Engineering Works P. Ltd.—3-1, Kaliprasad Chakravarty Lane, Kadamtala, Howrah.
Calcutta Engineering & Mfg. Co.—108-1, Benaras Road, Salkia.
Corporated Engineers P. Ltd.—7, Chittaranjan Avenue, Calcutta 13.
De's Metal Industries.—64-A, Mirzapore St., Calcutta 9.
Eastern Engineering Works.—P-12, Mission Row Extn., Calcutta 12.

EASTERN INDUSTRIAL CORPORATION.—142/1, Radhabazar Street, Calcutta 1. Importers of Mechanical Handling Equipments and expecting Manufacture in 1961, these machines in India with British Collaboration.
Great Eastern Foundry Works.—138, Canning Street, Calcutta 1.
Great Eastern Machinery Co.—4, Naskarpara Bylane, Kasundiah, Howrah.
Harima Engineering Works Ltd.—69-1, Belgachia Road, Calcutta.
Hoodaty H. Ghose & Co.—163, Beliaghatta Main Road, Calcutta 10.
Howrah City Engineering Co.—75, Panchanantola Road, Howrah.
India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Industrial Machines Corpn.—138, Canning Street, Calcutta 1.
Kamala Engineering Works.—124, Barrackpore Trunk Road, Calcutta 35.
Kusum Engineering Co. Ltd.—25, Swallow Lane, Calcutta 1.
Machine Craft Corporation.—138, Canning Street, Calcutta 1.

MANEKLAL & SONS (CALCUTTA).—23, Ganesh Chandra Avenue, Calcutta 13. Bombay Associates: Maneklal & Sons, 115/116, Narayan Dhuru Street, Bombay 3. Dealers and Manufacturers of Workshop Machine Tools, Sheet Metal Working Machines and Woodworking Machines. Importers of Electrical Tools and various types of Workshop Equipments.
Metalcraft (I) Ltd.—26, Strand Road, Calcutta 1.
Modern India Machine Tools Ltd.—18-1-6, Canal West Road, Garpar, Calcutta 9.
Oriental Machinery Supplying Agency Ltd.—P-12, Mission Row Extn., Calcutta 1.
S. C. Dass & Co. Ltd.—178, Belilios Road, Howrah.
Shree Laxmi Iron & Steel Works Ltd.—P-16, Kalakar St., Calcutta 7.

SMALL MACHINERIES MANUFACTURING CO.—22, R. G. Kar Road, Shambazar, Calcutta 4. Phone: 55-3858. Manufacturers of Machines for Soap, Lozenges, Biscuit, Chocolate, Tablet Making, Pharmaceuticals, Paint & Paste, etc.
Sree Durga Engineering Co.—39, Upendra Chandra Banerjee Road, Calcutta 1.
Standard Machinery Co.—67-B, Netaji Subhas Road, Calcutta 1
Vulcan Machine & Tool Co.—218, Maniktalla Main Road, Calcutta 11.

MANGANESE

Bird & Co. Ltd.—Chartered Bank Bldg., Calcutta.
East Indian Trading Co.—P. B. No. 487, Calcutta.
F. W. Heilgers & Co.—Chartered Bank Bldg., Calcutta.
Harkarandas Manilal Pvt.—16, Kalakar Street, Calcutta.
Hindustan Electric Co. Ltd.—10/15-1, Canning Street, Calcutta.
Lachmandas Amarchand.—13, Jackson Lane, Calcutta.
Sowchand Bagul.—32, Cross Street, Calcutta.
United Mineral Ltd.—2, Dalhousie Square (East), Calcutta.

MANHOLE COVERS

HINDUSTAN INDUSTRIAL CO.—192, Jamunalal Bazaz Street, Calcutta 7.

MANUFACTURERS & IMPORTERS OF FERROUS & NON-FERROUS METALS

RATANLAL JIVRAJMAL.—157, Netaji Subhas Road, Calcutta 1.

MANUFACTURERS' REPRESENTATIVES & GENERAL ORDER SUPPLIERS

SAGAR TRADING CO.—22, Gorachand Road, Calcutta 14. Phone: 44-2210. General Merchants, Manufacturers' Representatives and order suppliers. Sole Agents: G. Shanker's Water Filters.

MATERIAL HANDLING EQUIPMENTS

TRACTORS (INDIA) LTD.—1, Taratolla Road, Garden Reach, Calcutta 24.

MATHEMATICAL & SCIENTIFIC INSTRUMENTS

Bengal Chemical & Pharmaceutical Ltd.—94, Chittaranjan Avenue, Calcutta.
Bharat Carbon & Ribbon Mfg. Co. Ltd.—543, Basantilal Saha Road, Italghata, Tollygunge P.O., Calcutta.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

Chemical & Surgical Works Ltd.—4118, Madan Dutt Lane, Bowbazar P.O., Calcutta.
Excel Lamps & Products (India).—78, Lower Circular Road, Calcutta.
H. Mukherjee & Banerjee Surgical Ltd.—3/1, Russa Road, Bhowanipur, Calcutta.
Hindustan Metal Products Syndicate.—243, Upper Circular Road, Calcutta.
Instrument Research Laboratories Ltd.—12, Das Lane, Bowbazar, Calcutta.
Radon House.—89B, Kalighat Road, Calcutta.
Scientific Miscellany Co.—11 & 15, Pasupati Bose Lane, Baghbazar P.O., Calcutta.

METAL AND METAL ALLOYS

Ashok Metal Industries.—157, Netaji Subhas Road, Calcutta 1.
Binani Metal Works P. Ltd.—38, Strand Road, Calcutta 1.
Chandra Industries P. Ltd.—59, Cotton Street, Calcutta 7.
Eastern Metal & Alloy Corpn. Ltd.—38-A, Belgachia Road, Calcutta.
Eyre Smelting Ltd.—Hide Road, Calcutta 23.
Lilooah Steel & Wire Co. Ltd.—5-B, Muktaram Babu St., Calcutta 7.
METAL & ALLOY CORPORATION.—38-A, Belgachia Road, Calcutta 37.
National Metal Industries Ltd.—23-B, Netaji Subhas Road, Calcutta 1.
Non-Ferrous Metal Industries P. Ltd.—161-1, Harrison Road, Calcutta 7.
Stannic Metals & Alloys Ltd.—New Taratolla Road, Calcutta 27.

METAL (NON-FERROUS) MANUFACTURERS & DEALERS

Aluminium Corpn. of India Ltd.—7, Council House Street, Calcutta.
Ashok Metal Industries Ltd.—157, Netaji Subhas Road, Calcutta 1.
A. T. Goyee & Co.—68-E, Netaji Subhas Road, Calcutta 1.
BENGAL INGOT CO. (PRIVATE) LTD.—5, Hide Road, Kidderpore, Calcutta 23.
Binani Metal Works (P) Ltd.—38, Strand Road, Calcutta.
Eyre Smelting Pvt. Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
Ganga Metal Refining Co. Pvt. Ltd., C/o Binani Traders Ltd.—43, Strand Road, Calcutta.
Gordhandas Madanlal.—178, Mahatma Gandhi Road, Calcutta 7.
HINDUSTAN METAL WORKS.—Head Office and Works: Hathras (U.P.). Phone: 186; Grams: "GUNMETAL". Branch Office & Works: 48, Dum Dum Road, Calcutta 30; Phone: 57-2113; Grams: "SMELTERS". Manufacturers and Founders of all types of Non-ferrous Metals, Alloys and Castings, Sand and Chill Cast Bars, Blanks, Cored Rods of Bronze and Gunmetal, Centrifugal Cast, Hollow Rods, Zinc Die Casting alloys, Aluminium alloys, Solder and Brazing metal, etc.
Ideal Metal Industries.—5, Raja Subodh Mullick Square, Calcutta 13.
Indian Aluminium Co. Ltd.—31, Chowringhee Road, Calcutta 16.
Indian Cable Co. Ltd.—9, Hare Street, Calcutta.
Indian Oxygen Ltd.—48/1, Diamond Harbour Road, Calcutta 27.
Lalchand Mahadeblal.—7, Hazarimull Shah Road, Salkia.
Metal Corpn. of India Ltd.—135, Canning Street, Calcutta.
Metals & Ores Co.—Ilaco House, 1 & 3, Brabourne Rd., Calcutta.
National Insulated Cable Co. of India Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta.
NATIONAL PIPES & TUBES CO. LTD.—Stephen House, 4, Dalhousie Square East, Calcutta. Manufacturers of Brass & Copper and other Non-ferrous Round, Hexagonal and Square Rods, Pipes, Tubes and Sections, Brass Tower Bolt Sections, Hinge Sections, Copper Bus-bars, Strips, etc.
National Screw & Wire Products Ltd.—Stephen House, 4, Dalhousie Square East, Calcutta.
Non-Ferrous Metal Industries Pvt. Ltd.—161/1, Mahatma Gandhi Road, Calcutta.
Orient Traders.—161/1, Harrison Road, Calcutta 7.
Robsan & Co. Pvt. Ltd.—P-14, Mission Row Extn., Calcutta 1.
R. S. Julli Ram Shamlal—19, Maharshi Debendra Road, Calcutta 7.
Srinath Bajaj.—178, Mahatma Gandhi Road, Calcutta 7.

METAL MERCHANTS

Arun Sinha.—62/4/1A, Netaji Subhas Road, Calcutta.
A. T. Gooyee & Co.—68/E, Netaji Subhas Road, Calcutta 1.
Binani Brothers Pvt. Ltd.—43, Strand Road, Calcutta 1.
Binani Commercial Corpn.—115, Netaji Subhas Road, Calcutta.
Cally Kristo Pramanick.—62, Netaji Subhas Road, Calcutta.
Chunilal Hemraj.—115, Netaji Subhas Road, Calcutta.
Daga Metal Trading Co.—42, Netaji Subhas Road, Calcutta 1.
Dey Bose & Co.—34, Strand Road, Calcutta.
Ghose Mundal & Co.—71-A, Netaji Subhas Road, Calcutta.
Gosto Behari Mullick & Sons.—113-N, Netaji Subhas Road, Calcutta.
Hardware & Marine Stores Agency.—70, Netaji Subhas Road, Calcutta.
Hind General Mercantile Agency Ltd.—8, Lyons Range, Calcutta 1.
Jeet Narain Ghosh & Co.—38, Strand Road, Calcutta.
J. K. Dey & Bros.—103, Netaji Subhas Road, Calcutta.
Kristo Dhone Gangooly.—115, Netaji Subhas Road, Calcutta.
Lucky Engineering Works Pvt. Ltd.—39, Strand Rd., Calcutta.
Luner Engineering Works.—71/A, Netaji Subhas Road, Calcutta.
Manton & Martin.—70, Netaji Subhas Road, Calcutta.
Nundon & Co., (P) Ltd.—62, Netaji Subhas Road, Calcutta.
Orient Traders.—161/1, Mahatma Gandhi Road, Calcutta 7.
Ramlal Mookerjee & Son Pvt. Ltd.—37, Strand Road, Calcutta.
Ratanchand Joraji & Co.—1, Portuguese Church Street, Calcutta 1.
S. C. Kundu & Sons.—70, Netaji Subhas Road, Calcutta.
SHEWRATAN CO. PRIVATE LTD.—14, Weston Street, Calcutta 13.
S. K. Mookerjee & Co.—115, Netaji Subhas Road, Calcutta.
S. Lahiri & Co.—12/2, Clive Row, Calcutta.
United Metal Industries.—14, Noormull Lohia Lane, Calcutta 7.

METAL SMELTERS AND REFINERS

Ashok Metal Industries.—157, Netaji Subhas Road, Calcutta 1.
Bengal Ingot Co. P. Ltd.—5, Hide Road, Kidderpore, Calcutta 23.
Bengal Wire Nails Co. Ltd.—37, Cross Street, Calcutta 7.
Binani Metal Works P. Ltd.—38, Strand Road, Calcutta 1.
Delta Metal Refineries.—177, Muktaram Babu St., Calcutta 7.
Harris & Co.—78, Netaji Subhas Road, Calcutta 1.
Stannic Metals & Alloys Ltd.—New Taratolla Road, Calcutta 27.

MICA

Associated Mining Industries Ltd.—4, Lyons Range, Calcutta 1.
Calcutta Mica Corpn.—161, Muktaram Babu Street, Calcutta.
Christian Mica Industries Ltd.—4, Lyons Range, Calcutta.
D. N. Ganguli & Co.—7, Nilamber Mukherjee Street, Shambazar, Calcutta.
Jackaria Oosman & Co.—4, Rajmohan Street, Calcutta 1.
MICA & MICANITES (INDIA) PRIVATE LTD.—19, Strand Road (1st Floor), Calcutta 1.
Mica Manufacturing Co. Pvt. Ltd.—161, Muktaram Babu Street, Calcutta.
Mica Mining & Trading Co.—12, Chowringhee Square, Calcutta.
Premier Mica Mining & Mfg. Co.—32, Gopi Kristo Pal Lane, Calcutta.
Shiv Shankar Mica Supply Co. Ltd.—100, Netaji Subhas Road, Calcutta.
T. C. Dass & Sons.—32, Gopi Kristo Pal Lane, Calcutta.
United India Minerals Ltd.—13, Harington Street, Calcutta 16.

MILD STEEL FABRICATORS

B. N. PACHAL & SONS PRIVATE LTD.—33/1/1, Natabar Paul Road, Howrah. Grams: "PACHALPUMP"—Howrah; Phones: 663284, 662420. Fabricate High Pressure M.S. Tanks for Water Treatment Plant, Air Receiver Bodies, Cupola, Chimneys & Tanks, etc.

MILLS (OTHER THAN JUTE)

Adarsha Cotton Spg. & Wvg. Mills Ltd.—41, Chowringhee Road, Calcutta 16.
Agarpara Kutir Silpa Pratishthan.—P.O. Agarpara, 24 Parganas.
Anantapur Textiles Ltd.—58, Clive Street, Calcutta.
Annapurna Cotton Mills Ltd.—P-10, New Howrah Bridge App. Road, Calcutta.
Arati Cotton Mills Ltd.—29, Strand Road, Calcutta 1.
Banga Sri Cotton Mills Ltd.—P. Sukchar, Sodepur, 24 Parganas.
Bangeswari Cotton Mills Ltd.—63, Radha Bazar Street, Calcutta.
Bangodaya Cotton Mills Ltd.—176, Cross Street, Calcutta 7.
Basanti Cotton Mills Ltd.—24, Netaji Subhas Road, Calcutta 1.
Bengal Fine Spg. & Wvg. Mills Ltd.—7, Bowbazar Street, Calcutta 12.
Bengal Luxmi Cotton Mills Ltd.—7, Chowringhee Road, Calcutta 13.
Bowreah Cotton Mills Co. Ltd.—21, Strand Road, Calcutta.
Bhagyalaxmi Cotton Mills Ltd.—1A, S. N. Banerjee Road, Calcutta.
Calcutta Silk Mfg. Co. Ltd.—37, Vivekananda Road, Calcutta 7.
Calcutta Woollen & Silk Mills Ltd.—Kumarpara, Lillooah, Howrah.
Central Cotton Mills Ltd.—9, Brabourne Road, Calcutta.
Dhakeswari Cotton Mills Ltd.—Kanak Bldgs., 41, Chowringhee Road, Calcutta 16.
Dunbar Mills Ltd.—21, Strand Road, Calcutta 1.
Durga Cotton Spg. Wvg. Mills Ltd.—135, Canning Street, Calcutta.
Hindusthan Cotton Mills Ltd.—5, Clive Row, Calcutta.
Howrah Cotton Mills Ltd.—Old Benaras Road, Belgachia, Howrah.
Jatia Cotton Mills Ltd.—18, Netaji Subhas Road, Calcutta.
Jay Shree Textiles Ltd.—Rishra, Hooghly.
Jyoti Weaving Factory Pvt. Ltd.—P-11, New Howrah Bridge App. Road, Calcutta 1.
Kanoria Industries Ltd.—59, Netaji Subhas Road, Calcutta.
Kesoram Cotton Mills Ltd.—8, India Exchange Place, Calcutta.
Kesoram Cotton Mills Ltd.—42, Garden Reach Road, Calcutta 24.
Luxminarain Cotton Mills Ltd.—4B, Garstin Place, Calcutta.
Mahalaxmi Cotton Mills Ltd.—68, Nalini Sett Road, Calcutta 7.
Manindra Mills Ltd.—P-49, B. K. Paul Avenue, Calcutta 7.
Mohini Mills Ltd.—22, Canning Street, Calcutta.

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Onkar Industries Ltd.—18, Netaji Subhas Road, Calcutta.
Oriental Cotton Cult. & Mills Ltd.—2, Waterloo Street, Calcutta 1.
Orissa Cotton Mills Ltd.—P-7, Mission Row Extension, Calcutta.
Orissa Textile Mills Ltd.—33, Chittaranjan Avenue, Calcutta 12.
Pioneer Knitting Mills Ltd.—6/1A, Prannath Soor Lane, B.T. Road, Calcutta 2.
Rampooria Cotton Mills Ltd.—Serampore, Hooghly.
Rampooria Cotton Mills Ltd.—147, Cotton Street, Calcutta 7.
Siddheswari Cotton Mills Ltd.—58, Clive Street, Calcutta.
Siddheswari Cotton Mills Ltd.—Anantapore, Howrah.
Swadeshi Industries Ltd.—142-A, Jamunalal Bajaj Street, Calcutta 7.
Victoria Cotton Mills Ltd.—370, Upper Chitpore Road, Calcutta.
Vidyasagar Cotton Mills Ltd.—11, Colootola Street, Calcutta 1.

MILL STORES

Allied Textile Agency.—63, Radhabazar Street, Calcutta 1.
B. C. Traders.—7, Swallow Lane, Calcutta 1.
Bengal Engineering Co.—24, Netaji Subhas Road, Calcutta.
Bengal Machinery Co.—24, Strand Road, Calcutta 1.
Bharat Hardware & Textile Syndicate.—14, Netaji Subhas Road, Calcutta.
Bosco.—36, Strand Road, Calcutta 1.
Chandi Charan Nayak P. Ltd.—124/1, Bowbazar St., Calcutta 12.
Fenner J. H. & Co. India Ltd.—10/3A, Mercantile Bldgs., Calcutta 1.
F. Husain & Brothers.—28, Strand Road, Calcutta.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta.
Greentose Corporation (India).—37, Strand Road, Calcutta 1.
Indusco Traders.—14/2, Old China Bazar Street, Calcutta 1.
Industrial Tools & Mill Stores Co.—67-B, Netaji Subhas Road, Calcutta 1.
INTERNATIONAL TRADING CO. (ENGINEERS).—22, Netaji Subhas Road, Calcutta.
Kilburn & Co. P. Ltd.—2, Fairlie Place, Calcutta 1.
L. MULLICK & CO.—81, Netaji Subhas Road, Calcutta 1.
Leather & Steel Products.—26, Burtolla St., Calcutta 7.
Mill Stores Corpn.—71-A, Netaji Subhas Road, Calcutta 1.
Mundra & Co.—8, Canning Street, Calcutta.
Spinning Accessories Pvt. Ltd.—6, Nawab Dilar Jung Road, Calcutta 2.
Winsome Trading Co.—23/24, Radha Bazar Street, Calcutta 1.
Wren & Co., D.—Wardley House, 25, Swallow Lane, Calcutta.

MINERALS

Bengal Paint Supply Co.—16, Bonfield Lane, Calcutta 1.
Bharat Mineral Sales Corpn.—1/A, Vansittart Row, Calcutta 1.
Calcutta Mineral Supply Co. P. Ltd.—31, Jackson Lane, Calcutta 1.
Chandi Charan Nayak P. Ltd.—124/1, Bowbazar St., Calcutta 12.
Das, H. S.—104/1, Serpentine Lane, Calcutta 14.
India Minerals & Associated Industries.—12-B, Netaji Subhas Road, Calcutta 1.
Indian Mineral Industries Ltd.—22-1, & 22-C, Dum Dum Road, Calcutta 2.
Indo-European Agency P. Ltd.—67, Ezra Street, Calcutta 1.
J. D. Jones & Co. P. Ltd.—C/5, Gillander House, Calcutta 1.
N. S. CORPORATION.—22, Canning Street, Calcutta 1.
Refractories & Mineral Syndicate Pvt. Ltd.—20, Netaji Subhas Road, Calcutta 1.
R. M. Industries.—16, Shyamlal Street, Calcutta 4.
Swaika Oil Mills.—18-B, Brabourne Road, Calcutta 1.
Universal Graphite & Mineral Products.—11, Kishen Dayal Jalan Road, Ghusury P.O., Howrah.

MIRROR MANUFACTURERS

SHREE KAMALA AGENCY.—23, Canning Street, Calcutta 1.

NEWSPAPERS & PERIODICALS

TECHNICAL JOURNALS OF INDIA PRIVATE LTD.
24, Brabourne Road, Calcutta-1.
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2.	The Port Engineer	—Do.—
3.	Applied Physics (Quarterly)	—Do.—
4.	N. M. L. Technical Journal	—Do.—
5.	Steel Hindustan	—Do.—

OFFICE STATIONERY & EQUIPMENTS

STANDARD TRADING CO.—43, Ezra Street, Calcutta 1.

OIL MILLS

Adya Oil Mill.—80/1, Grey Street, Calcutta 6.
Agnihotra Oil Mills (Private) Ltd.—36/1, Canal West Road, Calcutta.
Alipore Pure Oil Mill.—32, Alipore Road, Calcutta 27.
Amare Oil Mill.—107/1, Belgachia Road, Calcutta 4.
Amar Pure Oil Mills.—38, Maharsi Debendra Road, Calcutta 6.
Annapurna Atta & Oil Mills.—Gariahata Market, Calcutta 19.
Annapurna Oil Mill.—121/1, Raja Dinendra Street, Calcutta 4.
Annapurna Oil Mill.—77, Amherst Street, Calcutta 9.
Annapurna Rice & Oil Mills.—Baidyabati, Hooghly.
Ava Oil Mill.—50, Sankaripara Road, Calcutta 25.
Ananda Atta & Oil Mills.—36/A/1, Sashi Bhusan Dey Street, Calcutta.
Bani Oil Mill.—243, Upper Circular Road, Calcutta 6.
Bangaluxmi Oil Mill.—38, Maharsi Debendra Road, Calcutta 6.
Basanti Oil Mill.—113, Raja Dinendra Street, Calcutta 4.
Bhadrakali Oil Mills (P) Ltd.—67/39, Strand Road, Calcutta 6.
Bharat Luxmi Oil Mill.—Talpukur, Barrackpore, 24-Parganas.
Bhawani Pure Oil Mill.—139, Benaras Road, Salkia, Howrah.
Bhawani Pure Oil Mill.—6, Cross Road, Calcutta 6.
Bengal Oil Mill.—74, Cornwallis Street, Calcutta 6.
Bibhuti Oil Mill.—62, Chetla Road, Calcutta 27.
Bishahari Oil Mill.—45/B, Adya Sradah Ghat Road, Calcutta 7.
Biswalakshmi Oil Mill.—20, Ultadanga Road, Calcutta 4.
Bajoria Agency (Private) Ltd.—Cooch Behar, 174, Mahatma Gandhi Road, Calcutta 7.
Bata Krishna Oil Mill.—36, Canal West Road, Calcutta 4.
Charu Oil Mill.—110, Kasba Road, Calcutta 31.
Debendra Oil Mill.—121, Raja Dinendra Street, Calcutta 6.
Deshbandhu Oil Mill.—52, Netaji Subhas Road, Howrah.
Deshbandhu Oil Mill.—57, Strand Road, Calcutta 6.
Dhakuria Oil Mill.—7/1, A. T. Chatterji Road, Calcutta 31.
Dinbandhu Oil Industries.—Q282, Mudiani Road, Calcutta 24.
Domestic Oil Mill.—28/1, Sasthitola Road, Calcutta 11.
Ganpat Shaw & Rupchand Shaw Oil Mill.—24, Diamond Harbour Road, Calcutta 38.
Ganesh Oil & Flour Mills.—217, Panchanantola Road, Howrah.
Ganesh Oil Mill.—45/B, Ultadanga Road, Calcutta 4.
Ghosal Oil Mill.—2, Roy Bahadur Road, Calcutta 34.
Gopal Oil Mill.—21, Benaras, Road, Salkia, Howrah.
Gopal Pure Oil Mill.—67/41, Strand Road, Calcutta 6.
Gour Mohan Oil Mills.—73/6, Grey Street, Calcutta 6.
Guru Kanto Oil Mill.—31, Ashutosh Mukherji Road, Calcutta 25.
Hari Oil Mill.—243, Upper Circular Road, Calcutta 6.
Hindusthan Oil Mill.—476, Diamond Harbour Road, Calcutta 24.
Ideal Oil Mill.—9, Gariahata Road, Calcutta 31.
India Dal & Oil Mills.—37, Netaji Subhas Road, Howrah.
Jagadhatri Oil Mill.—328, Netaji Subhas Road, Howrah.
Jagadhatri Oil Mill.—Chandernagore, Hooghly.
Jagannath Pure Oil Mill.—7, Cross Road, Calcutta 7.
Jessoreswari Oil Mill.—13, Uzir Chowdhury Road, Calcutta 4.
Jogneswar Oil Mill.—16/A, G. T. Road, Rishra (Sandha Bazar), Hooghly.
Janaki Pure Oil Mill.—67/44, Strand Road, Calcutta 6.
Jagannath Pure Oil Mill.—3, Dinanath Ghosh Street, Lillooah, Howrah.
Joyasree Oil Mills & Trading Co. (P) Ltd.—16, Tollygunge Circular Road, Calcutta 33.
Jyoti Flour & Oil Mills.—443, Mahatma Gandhi Road, Charial Bazar, Budge Budge, 24-Parganas.
Joydev Oil Mill.—113/A, Raja Dinendra St., Calcutta 4.
Kaluram Ramprotap Oil Mill.—153, Upper Chitpore Road, Calcutta 5.
Kamala Oil Mill.—B. T. Road (Panihati), 24-Parganas.
K. M. Sadhukhan Rice & Oil Mills.—Serampore, Hooghly.
Kalighat Pure Oil Mill.—105A, Kalighat Road, Calcutta 26.
Kalighat Pure Oil Mill.—9/1, Mohini Mohan Road, Calcutta 25.
Kasba Oil Mill.—233, Kasba Road, Calcutta 31.
Khetra Mohan Oil Mill.—67/42, Strand Road, Calcutta 6.
Krishnakali Oil Mill.—161, Baithakkhanna Road, Calcutta 9.
Kanai Oil Mill.—36/1/1, Canal West Road, Calcutta 4.
Lakshmi Narayan Rice & Oil Mills.—Talpukur, Barrackpore, 24-Parganas.
Lakshmi Oil Mill.—1/A, Kisto Malik Lane, Calcutta 37.
Madan Mohan Oil Mill.—105, Sri Arabindo Road, Salkia, Howrah.
Majumdar Oil Mill.—Dakshinpara (Ranaghat), Nadia.
Mangalchandi Oil Mill.—38/1A, Manicktolla Main Road, Calcutta 11.
Model Electric Oil Mill.—114/6, Hazra Road, Calcutta 26.
Mokshada Oil Mill.—13, Manmatha Nath Ganguly Road, Calcutta 2.
Mominpore Oil Mill.—41/1B, Diamond Harbour Road, Calcutta 27.
Monohar Oil & Flour Mills.—P.O. Kharagpur (Goal Bazar), Midnapore.
Narayan Oil Mill.—3, Parasar Road, Calcutta 29.
Natabar Oil Mill.—16/1, Natabar Paul Road, Howrah.
New Bharat Oil Mill.—243, Upper Circular Road, Calcutta 6.
Phanibhusan Oil Mill.—40/1B, Canal Circular Road, Daspara, Calcutta 4.
Panchananda Oil Mill.—100/1, Belgachia Road, Calcutta 4.
Panchanan Oil Mill.—20, Ultadanga Road, Calcutta 4.
Panchkowri Oil Mill.—8, Thakurdas Dutta 2nd Lane, North Bantra, Howrah.
Purna Oil Mill.—65/3, Lansdowne Road, Calcutta 25.
Rai Charan Oil Mill No. 2.—113/1A, Belgachia Road, Calcutta 4.
Ramgolam Oil Mill.—Behala Bazar, Calcutta 34.
Ramkrishna Pure Oil Mill.—P56/1, Strand Bank Road, Calcutta 6.
Ramprosad Oil Mill.—47/1C, Shyambazar Street, Calcutta 4.

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Ramlal Roshanlal & Co.—3, Cossipore Road, Calcutta 2.
Rai Charan Oil Mill No. 1.—3/3, Rai Charan Sadhukhan Road, Calcutta 4.
Samanta Pure Oil Mills (P) Ltd.—243, Upper Circular Road, Calcutta.
Sabitri Oil Mill.—58/3A, Kashinath Dutta Road, Calcutta 36.
Sahapur Oil Mill.—S. N. Roy Road, Sahapur, Calcutta 38.
Sakti Pure Oil Mills (P) Ltd.—99, Maharsi Debendra Road, Calcutta 6.
Sambhu Oil Mill.—4/3, Chetla Hat Road, Calcutta 27.
Sambhu Nath Oil Mill.—16, Ultadanga Road, Calcutta 4.
Santi Pure Oil Mills.—86, Maharsi Debendra Road, Calcutta 6.
Samanta Oil Mill.—7, Foreshore Road, Ramkrishtopur, Howrah.
Sarbamongala Oil Mill.—1, Nerode Behari Mullick Road, Calcutta 6.
Sarbamangala Pure Oil Mill.—29/54, Cossipore Road, Calcutta 2.
Satyanarayan Oil Mill.—33, Benaras Road, Salkia, Howrah.
Satyanarayan Rice & Oil Mills.—Talpukur, Barrackpore, 24-Parganas.
Shree Bapuji Oil Mill.—8, Beliaghata Main Road, Calcutta 10.
Shree Sankar Oil Mill.—11/3E, Canal Circular Road, Daspara, Calcutta 4.
Shree Shewnath Oil Mill.—232, S. N. Roy Road, Sahapur, Calcutta 38.
Sree Saraswat Oil Mill.—357/1, Upper Chitpore Road, Calcutta 6.
Shyamsundar Oil Mill.—500, Diamond Harbour Road, Calcutta 34.
Shibpore Pure Oil Mill.—441, G. T. Road, Shibpore, Howrah.
Shib Chandra Pure Oil Mill.—Village & P.O. Buxarah, Howrah.
Sitala Oil Mill.—4, Basantalal Saha Road, Calcutta 33.
Sitaram Oil Mill.—4, Wellington Street, Calcutta 12.
Sree Durga Oil Mill.—437, Diamond Harbour Road, Calcutta 34.
Sree Durga Pure Oil Mill.—8, Cross Road, Calcutta 6.
Sreedhar Oil Mill.—Sheoraphully, Hooghly.
Shree Lakshmi Oil Mill.—65/1, Lansdowne Road, Calcutta 25.
Sree Oil Mill.—72/2, Lansdowne Road, Calcutta 25.
Shree Radhakissan Oil Mill.—539, G. T. Road, Howrah.
Sree Sree Annapurna Oil Mill.—77, Amherst Street, Calcutta 9.
Swaika Oil Mills.—Lillooah, Howrah.
Shyam Sundar Oil Mill.—80, Sri Arabindo Road, Howrah.
Sree Gouranga Pure Oil Mill.—2, Kaliprosad Chakrabortty Street, Kadamtola, Howrah.
Sree Guru Oil Mill.—242/2/D, Upper Circular Road, Calcutta 4.
Swastika Atta & Oil Mills.—2, Harinath De Road, Calcutta 9.
Sree Mahadeb Oil Mill.—111, Raja Dinendra Street, Calcutta 4.
Sree Gobinda Oil Mill.—79, Sri Arabindo Rd., Salkia, Howrah.
Sudharani Oil Mill.—10, K. K. Roy Chowdhury Road, Barisa, 24-Parganas.
Sree Sree Durga Rice & Oil Mill.—7, Gorapada Sarkar Lane, Daspara, Calcutta 4.
Sree 'MA' Oil Mill.—243F, Upper Circular Road, Calcutta 6.
Sarat Oil Mill.—113A, Raja Dinendra Street, Calcutta 4.
Trisakti Oil Mill.—155/5, Upper Chitpore Road, Calcutta 6.
Taltola Oil Mill.—Entally Market, Calcutta 14.
Tulsiji Oil Mill.—Sheoraphully, Hooghly.
Ultadanga Oil Mills.—35/5, Canal West Road, Calcutta 4.
Umacharan Sadhukhan Oil Mills.—95A, Sri Arabindo Road, Howrah.
Umasankar Oil Mill.—26, Mirzapore Street, Calcutta 9.
West Bengal Flour & Oil Mills.—105/1, Ultadanga Main Road, Calcutta 4.

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Calcutta Clinic.—38/2, Wellington Street, Calcutta 13.
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City Opticians.—15/9, Chowringhee Road, Calcutta.
Eastern Optical Co.—306, Bowbazar Street, Calcutta 12.
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J. Sur & Co. P. Ltd.—3, Dalhousie Square East, Calcutta 1.
Lawrence & Mayo India P. Ltd.—11, Govt. Place East, Calcutta 1.
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Stephens & Co. P. Ltd.—23, Chowringhee, Calcutta 13.

PAINT SPRAYING MACHINES

Hind Enterprises.—4, Mission Row, Calcutta 1.
Industrial Gases Ltd.—138, Canning Street, Calcutta 1.
Martin Burn Ltd.—P-10, Mission Row Extension, Calcutta 1.

PAINTS, COLOURS, ENAMELS & VARNISHES ETC.

Alkali & Chemical Corpn. of India Ltd.—34, Chowringhee, Calcutta 16.
Ankhoy Coomar Laha.—1, Dharamtolla Street, Calcutta.
Associated Commercial Concerns.—14, Bowbazar Street, Calcutta 12.
Associated Pigments Ltd.—14, Netaji Subhas Road, Calcutta.
Bangalore Whitelead Syndicate Ltd.—G.T. Road, Konnagar, Hooghly Dist.
Bengal Paint Supply Co.—16, Bonfield Lane, Calcutta 1.
Bengal Varnish Industries.—94, Harrison Road, Calcutta 7.
Bitumen Emulsions (India) Ltd.—7-1, Hide Road, Kidderpore, Calcutta 23.
British Paints (India) Ltd.—32, Chowringhee Road, Calcutta 16.
Calcutta Paint, Colour & Varnish Co. Ltd.—8, Chunnapukur Lane, Bow Bazar P.O., Calcutta 12.
Century Paint & Varnish Works.—8/3, Canal Street, Calcutta 14.
Chandi Charan Nayak Pvt. Ltd.—124/1, Bowbazar Street, Calcutta 12.
Chemical Industries of India Ltd.—Kharad P.O., Barrackpore Trunk Road, 24 Parganas Dist.
C. L. Paint & Colour Works.—5/3, Harinath Nayarathna Lane, Sibpur, Howrah.
D. Waldie's Zinc Pigments Ltd.—Konnagar, Hooghly Dist.
Eagle Paint & Pigment (India) Pvt. Ltd.—135, Canning Street, Calcutta.
East India Paints & Chemical Works Ltd.—103-A, Surendranath Banerjee Road, Calcutta 14.
Eastern Paint & Varnish Co.—36, Dum Dum Road, Calcutta.
Empire Chemical Co.—37-1, Christopher Road, Entally P.O., Calcutta 14.
Empire Chemicals.—7/1, Lower Circular Road, Calcutta 17.
G. C. Laha Pvt. Ltd.—1, Dharamtalla Street, Calcutta 13.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
Glazo Paint Works Pvt. Ltd.—11, Bishwambhur Mullick Lane, Calcutta.
Hadfields (India) Ltd.—12, Mission Row, Calcutta.

HOYLE'S PAINTS LTD.—2, Mangoe Lane, Calcutta 1.

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ICL Paint & Colour Works.—5/3, Harinath Nayaratna Lane, Sibpur, Howrah.
India Colour Industries.—1, Gour Mohan Mukherjee Street, Calcutta 6.
India Paint, Colour Varnish & Co. Ltd.—14, Netaji Subhas Road, Calcutta.
India Paint Varnish & Chemical Works.—14-2, Old China Bazar Street, Calcutta 1.
Indian Chemical Colour Works.—66, Simla Street, Calcutta 6.
International Chemical Industries.—Jadavpur, Calcutta.
J. & R. Hutchison.—19, Dum Dum Road, Calcutta.
Jay Engineering Works.—183-A, Prince Anwar Shah Road, Dhakuria, Calcutta.
Jenson & Nicholson (India) Ltd.—2, Fairlie Place, Calcutta 1.
Kromalnium Paints & Synthetic Finishes.—60-B, Syed Amir Ali Avenue, Calcutta 19.
Lakshmi Paint Works.—Nandan Kanan, Lillooah, Howrah.
Leather Chemical Industries Ltd.—9, Muraripukur Road, Calcutta.
London Varnish & Enamel Co. Ltd.—12-P, Park Street, Calcutta 16.

MACFARLANE & CO. LTD.—25, Netaji Subhas Road, Calcutta 1.

M. Chowdhury & Co.—113-G, Netaji Subhas Road, Calcutta 1.
M. L. Ghosh & Co.—35, Mondal Para Lane, Cossipore P.O., Calcutta.
Merlin Paint Works.—14-2, Old China Bazar Street, Calcutta 1.
M. Mumtaz & Co.—11, Swinhoe Lane, Dhakuria P.O., 24 Parganas Dist.
Murarka Paint & Varnish Works Ltd.—Sodepur P.O., 24 Parganas Dist.
Naiper Paint Works Pvt. Ltd.—3, Moti Sil Street, Calcutta 13.

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Olpherts Pvt. Ltd.—1-2, Moti Sil Street, Calcutta 13.
Oriental Varnish & Enamel Works.—Madan Mitter Lane, Calcutta 6.
P. C. Chanda & Co. Ltd.—P-2, Mission Row Extn., Calcutta 1.
Paints & Lacquers Ltd.—17-1, Chandni Ghosh Road, Calcutta 40.
Pigments & Chemical Industries Pvt. Ltd.—32, Armenian Street, Calcutta.
Protective Lacquer Industries.—11, Wellington Street, Calcutta 13.
Rabi Paint & Chemical Works.—29, Madan Mitter Lane, Calcutta 13.
Robin Paint, Colour & Varnish Co.—2, Mission Row, Calcutta.
Royal Enamel & Varnish Works.—78-79, Beadon Street, Calcutta.
Ruby Paint & Varnish Works.—96, Mahatma Gandhi Road, Calcutta 7.
Scientific Paint & Colour Works Ltd.—P-468, Southern Avenue, Calcutta.
Shalimar Paint, Colour & Varnish Co. P. Ltd.—6, Lyons Range, Calcutta.

SHASHIKANT & BROTHERS.—15, Laxmi Mansion, Jamshedpur 1.

Shekhar & Co. Pvt. Ltd.—159, B. K. Paint Avenue, Calcutta 5.
Solar Paint & Varnish Mfg. Co.—Barrackpore Trunk Road, Belgharia P.O., 24 Parganas Dist.
Standard Paint Works Ltd.—44, Beadon Row, Calcutta 6.

SUNGLOW COLOUR & CHEMICAL CO.—58, Shyamnagar Road, Calcutta 28. Specialists in Making, Stoving & Industrial Finishes.

Swaika Paint, Colour & Varnish Co. Ltd.—Pollock House, 28-A, Brabourne Road, Calcutta 1.
Tropic Paint Works Ltd.—6, Netaji Subhas Chandra Bose Road, Calcutta.
Waxpol Industries Ltd.—16-A, Lake View Road, Calcutta 29.
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B. N. Pachal & Son P. Ltd.—208, Belilios Road, Howrah.
Harmond Engineering Co.—21-1, Kantapukur 3rd Bylane, Howrah.
K. R. Paul & Co.—127, Belilios Road, Howrah.

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A. K. Banerjee & Bros.—14/2, Old China Bazar Street, R. No. 102, Calcutta 1.
A. K. Choudhury & Co.—10, Jackson Lane, Calcutta 1.
Arun & Co.—14/2, Old China Bazar Street, R. No. 42, Calcutta 1.
Ashok Stationery Works.—140, Old China Bazar Street, Calcutta 1.
Ashoka Marketing Ltd.—11, Clive Row, Calcutta.
Asian Trading Corpn.—72, Old China Bazar Street, Calcutta 1.

BAHRI BROTHERS.—P-5, Canning Street, Calcutta 1.

Basu & Co.—118, Amherst Street, Calcutta 9.

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Bharat Paper Syndicate Ltd.—1-2, Jackson Lane, Calcutta 1.
Bholanath Dutt Pvt. Ltd.—Post Box No. 2427, 34-A, Brabourne Road, Calcutta.
Bholanath Paper House Pvt. Ltd.—32-A, Brabourne Road, P.B. No. 995, Calcutta 1.
Bijon K. Banerjee & Bros.—14/2, Old China Bazar Street, R. No. 39, Calcutta.
Bilba Paper Pvt. Ltd.—C-6, Gillander House, 8, Netaji Subhas Road, Calcutta.
Birdhi Chand Baijanath.—3, Portuguese Church Street, Calcutta 1.
Birdhi Chand Giridharlal & Co.—146-2, Old China Bazar Street, Calcutta 1.
B. Kumar & Co.—P-7, Old China Bazar Street, Calcutta 1.
Bose Paper Concern.—89, Mahatma Gandhi Road, Calcutta 7.
Bose & Paul.—70, Mahatma Gandhi Road, Calcutta 9.
Calcutta Paper House.—385, Upper Chitpore Road, Calcutta 7.
Calcutta Paper Mart.—14-2, Old China Bazar Street, R. No. 29, Calcutta 1.
Calcutta Paper Supply Co.—26, Amherst Street, Calcutta 9.
Calcutta Sales Syndicate.—14-2, Old China Bazar Street, Calcutta 1.
Chaman Industries Pvt. Ltd.—12, Jackson Lane, Calcutta 1.
Choudhury Bros.—10, Jackson Lane, Calcutta 1.
Chatterjee & Chakravarti (Paper) Ltd.—63-B, Radhabazar Street, Calcutta 1.
City Paper Stores.—P-23/24, Radhabazar Street, Calcutta 1.
C. Ratan & Co.—1, Mangoe Lane, Calcutta 1.
Dacca Paper House.—10, Dr. Kartick Bose Lane, Calcutta 9.
Datta & Co.—R. No. 11, 93, Old China Bazar Street, Calcutta.
Day Bros. & Co.—270, Chittaranjan Avenue, Calcutta 6.
Dhakeswari Paper Depot.—66-2, Mahatma Gandhi Road, Calcutta 9.
Dwarkadass Mangalchand.—8, Jackson Lane, Calcutta 1.
East India Paper Co.—24, Brabourne Road, Calcutta 1.
Eastern Paper Syndicate.—133, Canning Street, Calcutta 1.
Eastern Trading Co.—64-A, Dharmatolla Street, Calcutta 13.
Everest Paper Mart.—167, Old China Bazar Street, Calcutta 1.
General Equipment Merchants Ltd.—9, Mission Row, Calcutta 1.
Ghosh Brothers.—14-2, Old China Bazar Street, Calcutta 1.
Ghosh Paper House.—133, Canning Street, Calcutta 1.
Girja Paper Trading Co.—7, Khairu Lane, Calcutta 13.
G. M. Singh & Sons.—22, Canning Street, 4th Floor, Calcutta 1.
Gopi Nath Paul & Co.—109, Old China Bazar Street, Calcutta 1.
Gour Hari Saha.—23, Canning Street, Calcutta 1.
Hanuman Paper Co.—12, Jackson Lane, Calcutta 1.
Haran Chundar Banerjee & Sons.—7-C, Clive Row, Calcutta 1.
Hind Associated Corpn. Pvt. Ltd.—23-24, Radhabazar Street, Calcutta 1.
Hindusthan Paper & Board Co.—1, Synagogue Street, Calcutta 1.
H. K. Ghosh & Co.—25-A, Swallow Lane, Calcutta 1.
H. K. Sinha & Sons.—21, Netaji Subhas Road, Calcutta 1.
Imperial Paper House.—26-1-B, Sashi Bhusan Dey Street, Calcutta 12.
Indian Paper Agency.—P-7, Old China Bazar Haque Market, Calcutta 1.
Indian Print & Paper Mart.—209, Old China Bazar Street, Calcutta.
International Linkers Pvt. Ltd.—P-22, Swallow Lane Calcutta.
International Paper Co.—Saksena Bldgs., 1-2, Jackson Lane, Calcutta.
Jagannath Bajranglall.—32, Armenian Street, Calcutta 1.
J. B. Advani & Co. Pvt. Ltd.—P-38, Mission Row Extension, P.B. No. 87, Calcutta 1.
Jiban Krishna Dutta & Bros.—63-D, Beniatola Street, Calcutta 5.
J. N. Chatterjee & Bros.—28-19, Old China Bazar Street, Calcutta 1.
J. N. Mukherjee & Bros.—129, Canning Street, Calcutta 1.
J. N. Paul & Sons.—10, Jackson Lane, Calcutta 1.
J. N. Singh & Co. Pvt. Ltd.—149, Mahatma Gandhi Road, Calcutta 7.
John Dickinson & Co. Ltd.—6, Clive Row, Calcutta.
Kajaria Sons Pvt. Ltd.—32, Armenian Street, Calcutta 1.
Kanai Lal Mitra & Co.—14-2, Old China Bazar Street, R. No. 8, Calcutta 1.
K. C. Dang & Co.—2-A, Amratalla Lane, Calcutta 1.
Kishore Brothers.—P-23/24, Radha Bazar Street, Calcutta 1.
Kishore Paper House.—24, Brabourne Road, Calcutta 1.
L. K. Chowdhury & Bros.—14-2, Old China Bazar Street, Calcutta 1.
Lohia Trading Co.—133, Canning Street, Calcutta 1.
Louis Dreyfus & Co. Ltd.—Pollock House, P.B. No. 2010, 18-A, Brabourne Road, Calcutta.
Madan (Paper) Co. Ltd.—109, Upper Chitpore Road, Calcutta 6.
Maniklal Dutt (Paper) Ltd.—8, Khengraputty Street, Calcutta 7.
Merchants & Traders Pvt. Ltd.—32, Armenian Street, Calcutta 1.
M. Dhar & Co.—156-1/C, Radhabazar Street, Calcutta 1.
M. Dutta & Co.—14-2, Old China Bazar Street, Calcutta 1.
M. Kundu & Bros.—31, Jackson Lane, Calcutta 1.
Mukharji Dutt & Co.—31, Jackson Lane, Calcutta 1.
Nandlal Kezriwal.—146/2, Old China Bazar Street, Calcutta 1.
National Industrial Co.—103-A, S. N. Banerjee Road, Calcutta 13.
National Paper & Board Ltd.—22, Canning Street, Calcutta 1.
N. Banerjee & Co.—14-2, Old China Bazar Street, Calcutta 1.
New Bharati Trading Syndicate.—104, Old China Bazar Street, Calcutta 1.
New Card Board Industries.—R. No. 92 (Gr. Fl.), 14/2, Old China Bazar Street, Calcutta 1.
Norinco Pvt. Ltd.—14, Netaji Subhas Road, P.O. Box 2211, Calcutta.
N. R. Bose & Co.—21, W. C. Banerjee Street, Calcutta 6.
Panna Lall Seal & Co.—56-A-A, Radhabazar Street, Calcutta.
Paper & Board Supply Agency.—25-A, Swallow Lane, Calcutta 1.
Paper Centre.—38/C, Cornwallis Street, Calcutta 6.
Paper Emporium.—133, Canning Street, Calcutta 1.
Paper India Pvt. Ltd.—6, Clive Row, Calcutta 1.
Paper Mart.—68, Mahatma Gandhi Road, Calcutta 9.
Paper Palace.—9-A, Jackson Lane, P.O., Calcutta 1.
Paper & Stationery Co.—P-22, Radha Bazar Street, Opp. Radhabazar Street, Calcutta 1.
Paper Stores Ltd.—14-2, Old China Bazar Street, Calcutta 1.
P. C. Basu & Sons.—Post Box 2503, 24, Brabourne Road, Calcutta 1.
P. C. Mitra & Co.—P-21/22, Radhabazar Street, Calcutta 1.
P. De & Co.—42-A, Beadon Row, Calcutta 6.
Pratap Paper Mart.—P-7, Old China Bazar Street, Calcutta 1.
Premier Suppliers Pvt. Ltd.—8, Royal Exchange Place, Calcutta 1.
Prokash Chandra Sinha & Sons.—65, Baithakkhanna Road, Calcutta 9.
Purna Chandra Kundu & Sons Ltd.—11-1, Protap Chatterjee Lane (College Street & Colootola Junction), Calcutta 12.
Purna Chandra Kundu & Co.—53, Harrison Road, Calcutta 9.
Queen Stationery Stores Pvt. Ltd.—63-E, Radhabazar Street, Calcutta 1.
Raghunath Dutt & Sons Pvt. Ltd.—32-B, Brabourne Road, Calcutta 1.
R. B. Shivdasani Bros. (India).—22-6, Radha Bazar Street, Calcutta.
Royal Stationery Supply House.—46, Surjya Sen Street, Calcutta 9.
Sen Bros.—70, Mahatma Gandhi Road, Calcutta 7.
Shanker Brothers.—48, Jatindra Mohan Avenue, Calcutta 6.
Shiw Paper Exchange.—23, Canning Street, Room No. 34, Calcutta 1.

SHREE KAMALA AGENCY.—23, Canning Street, Calcutta 1.

Sree Krishna Trading Co.—2-A, Amratolla Lane, Calcutta 1.
Shree Vishnu Stores.—10, Jackson Lane, Calcutta 1.
S. K. Mitter & Sons.—24, Brabourne Road, Calcutta 1.
S. Mukherjee & Co.—P-22/4, Radhabazar Street, Calcutta 1.
S. N. Banerjee & Co. Pvt. Ltd.—14-2, Old China Bazar Street, Calcutta.
S. N. Ghose & Sons.—P-7, Old China Bazar Street, P.B. No. 2003, Calcutta 1.
S. N. Jhunjhunwalla.—P-39-40, Ezra Street, Calcutta 1.
Soorja Nath Nag & Sons.—117, Old China Bazar Street, Calcutta 1.
Sun Distributors Ltd.—14, Netaji Subhas Road, Calcutta 1.
Sunder Paper House.—146-2, Old China Bazar Street, Calcutta 1.
Surendra Paper House.—167, Old China Bazar Street, Calcutta 1.
T. C. Dutta & Sons.—P-23-24, Radhabazar Street, Calcutta 1.
Universal Paper Co.—47, Mahatma Gandhi Road, Calcutta 9.
Van Reekum-Gepacy Paper Pvt. Ltd.—P.O. Box No. 175, C-6, Clive Bldgs., Calcutta.
Varieties Paper Mart.—146-2, Old China Bazar Street, Calcutta 1.
Vasantrai Shantilal & Co.—13, Narain Prasad Babu Lane, Calcutta 7.
West Bengal Paper House Ltd.—72, Old China Bazar Street, Calcutta.
Wiggins Teape & Alex Pirie (Export) Ltd.—Pollock House, 18-B, Brabourne Road, Calcutta 1.

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PAPER MILLS

Ballarpur Paper & Straw Board Mills Ltd.—25, Brabourne Road, Calcutta.

BENGAL PAPER MILL CO., LTD.—21, Netaji Subhas Road, Calcutta 1. Manufacturers of all types of Writing, printing and other light and heavy weight quality Papers.

Calcutta Paper Mills Ltd.—1-1, Vansittart Row, Calcutta.
India Paper Pulp Co., Ltd.—8, Clive Row, Calcutta.
Orient Paper Mills Ltd.—8, India Exchange Place, Calcutta.
Rohtas Industries Ltd.—11, Clive Row, Calcutta.
Shree Gopal Paper Mills Ltd.—25, Brabourne Road, Calcutta.
Sirpur Paper Mills Ltd.—8, India Exchange Place, Calcutta.
Star Paper Mills Ltd.—27, Brabourne Road, Calcutta.
Straw Products Ltd.—2, Mangoe Lane, Calcutta.
Titaghur Paper Mills Co., Ltd.—Chartered Bank Bldgs., Calcutta.
Tribeni Tissues Pvt. Ltd.—21, Netaji Subhas Road, Calcutta.
Union Paper & Board Mills Ltd.—18, Netaji Subhas Road, Calcutta.

PAPER, PAPER BOARDS & PAPER PRODUCTS

A. LAHIRI & CO.—23, Jorapukur Lane, Calcutta 6. Manufacturers and Dealers of all types of Drawing, Surveying and Mathematical Instruments.

Asiatic Paper & Board Industries.—Beerpara Lane, Ghughudanga, Calcutta 30.
Bengal Miscellany Ltd.—174, Maniktolla Main Road, Calcutta 11.
Bharat Carbon & Ribbon Mfg. Co. Ltd.—543, Basantalal Saha Road, Tollygunge P.O., Calcutta 33.
Eastern Paper Mills Ltd.—Dakhindari Road, Dum Dum, Calcutta.
Gestetner Duplicators Ltd.—32, Grosvenor House, 21, Old Court, House Street, Calcutta.
Himalaya Paper & Board Mills.—20, Seven Tanks Lane, Ghughudanga, Calcutta 30.
Hindustan Cellulose & Paper Mills Ltd.—8, India Exchange Place, Calcutta 1.
Indian Card Board Industries Ltd.—2, Fairlie Place, Calcutta 1.
India Paper & Board Mills Co. Ltd.—74, Nagendra Nath Road, Calcutta 16.
K. C. Dey & Co.—2-A, Amratolla Lane, Calcutta 1.
Kilburn & Co., Ltd.—4, Fairlie Place, Calcutta.
Mahabir Paper & Board Industries.—3, Canal Road, Tollygunge, Calcutta 33.
Modern Paper Industries.—29, Stephen House, Dalhousie Square, Calcutta.
Pioneer Paper & Pulp Ltd.—1/1, Umakanta Sen Lane, Ghughudanga, Calcutta 30.
Shree Laxmi Paper Mill.—33, Tollygunge Circular Road, Calcutta.
Straw Products Ltd.—7, Coucil House Street, Calcutta 1.
Titaghur Paper Mills Co. Ltd.—Chartered Bank Bldgs., Calcutta.
Tribeni Tissues Ltd.—Netaji Subhas Road, Calcutta.

PATENT AGENTS

Datta, T. P. & Sons.—1-1, Rup Chand Mukherji Lane, Bhowanipur, Calcutta 25.
Davar, L. S. & Co.—Norton Buildings, Calcutta 1.
DePenning & DePenning.—10, Government Place East, Calcutta 1.
Lodge & Co., P.—85, Netaji Subhas Road, Calcutta 1.
Remfry & Sons.—Stephen House, Dalhousie Square, Calcutta 1.

PENCILS

Bharati Works.—2, Cornwallis Street, Calcutta 6.
F. N. Gooptu & Co.—12, Beliaghat Road, Calcutta.
Indian Pen Allied Industries Co.—86, Bahim Sura Road, Baliaghata P.O., Calcutta 10.
N. Dutt & Sons.—Sreemanipara, Barnagore, Calcutta 36.
Xanthic Industries.—28, Strand Road, Calcutta 1.

PERFUMES & COSMETICS

Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta.
Bengal Drug & Chemical Works.—7-1A, Nabin Sarcar Lane, Baghbazar, Calcutta.
Birla Laboratories.—2, Beerpara Lane, Ghughudanga P.O., Calcutta 30.
Butto Kristo Paul & Co. Ltd.—1 & 3, Bonfield Cane, Calcutta 1.
Calcutta Chemical Co. Ltd.—35, Panditia Road, Calcutta 29.
Dabur (Dr. S. K. Burman) Ltd.—142, Rash Behari Avenue, Calcutta 29.
Frank Ross & Co. Ltd.—35, Ripon Street, Calcutta.
Himani Works Ltd.—Barrackpore Trunk Road, Rathtola, Belgharia, 24 Parganas Dist.
Hindustan Lever Ltd.—63, Garden Reach, Calcutta.

LOKENATH CHEMICAL WORKS.—31-1, The Mall, Dum Dum, Calcutta.

Martin & Harris P. Ltd.—Mercantile Bldgs., Lallbazar, Calcutta.
Md. Mustafa Hussain's Necktie Brand Zardah Factory.—141, Howrah Road, Howrah.
P. Sett & Co. Ltd.—3, Ramakanta Sen Lane, Ultadanga, Calcutta 4.
Smith Stanistreet & Co. Ltd.—18, Convent Road, Calcutta.
Sterling Pharmaceutical Products Co. Ltd.—72-2, Shambhunath Pandit Street, Calcutta.

PHARMACEUTICALS

P. HEMATLAL & CO.—71, Canning Street, Room No. A-106, 1st Floor, Calcutta 1. Grams: "KEMICETINE." Phone: 34-6870. Importers & Wholesale dealers in Drugs, Medicines & Surgicals.

PHOTOGRAPHIC MATERIAL DEALERS

Adair Dutta & Co. (I) Ltd.—Stephen House, 5, D. Square East, Calcutta 1.
A. M. Doss & Co.—P-48, B. K. Paul Avenue, Calcutta 5.
Artico.—4, Creek Row, Calcutta 14.
Atul Chandra Dass & Sons.—36, Dharamtolla St., Calcutta 13.
Basu & Sons.—153, Bowbazar Street, Calcutta 12.
Bengal Photo Co. P. Ltd.—15/3, Chowringhee Road, Calcutta 13.
Bengal Photo Concern.—262, Chittaranjan Avenue, Calcutta 6.
Bombay Photo Stores P. Ltd.—33-34, Park Mansions, Park St., Calcutta 16.
Bourne & Shepherd.—141, Surendra Nath Banerji Road, Calcutta 13.
Calcutta Camera Stores.—8/2, Hospital St., Calcutta 13.
Calcutta Paint & Photo Stores.—173/1, Dharamtalla St., Calcutta 13.
Camera Exchange.—17/2A, Chowringhee Road, Calcutta 13.
C. C. Saha Ltd.—45, Moti Sil Street, Calcutta 13.
Central Photo Stores.—8/1, Hospital Street, Calcutta 13.
Chimanlal Desai & Co.—54, Bentinck Street, Calcutta 1.
Chokshi Brothers P. Ltd.—66, Ganesh Chandra Avenue, Calcutta 13.
Chowringhee Camera Stores.—10 & 12, Chowringhee Road, Calcutta 13.
City Camera Stores.—38, Dharamtolla Street, Calcutta 13.
City Photo Co.—61/B, Serpentine Lane, Calcutta 14.
Commercial Photo Service.—4-B, Chowringhee Road, Calcutta 13.

CONTINENTAL PHOTO SERVICE.—1, Sadananda Road, Calcutta 26. Photographers, Stockists of Photo-goods—Wholesale & Retail.

Darbara Singh & Sons.—14, Bowbazar St., Calcutta 12.
Daw Sen & Co. P. Ltd.—29, Dr. Suresh Sarkar Road, Calcutta 14.
Deluca & Co.—14-B, Russa Road, Calcutta 26.
Dey's Mercantile Stores.—A-13, Sir Stuart Hogg Market, Calcutta 13.
D. Ratan & Co.—22/1, Cornwallis Street, Calcutta 6.
Eastern Camera Stores.—9-A, D. Square East, Calcutta 1.
Edna Lorenz P. Ltd.—30, Chowringhee Road, Calcutta 16.
Grand Camera Stores & Studio.—9-B, Chowringhee Place, Calcutta 13.
Harico.—3-B, Chowringhee Road, Calcutta 13.
H. Paul & Co.—2, Chowringhee Road, Calcutta 13.
J. C. Ghosh & Sons.—19-B, Bhupen Bose Avenue, Calcutta 4.
Kamalayaya Stores P. Ltd.—156-A, Dharamtolla St., Calcutta 13.
K. B. Photo Stores.—78, Baithakkhana Road, Calcutta 9.
Kodak Ltd.—17, Park Street, Calcutta 16.
L. C. Sett & Co. P. Ltd.—43, Dharamtalla St., Calcutta 13.
Nan & Co. P. Ltd.—9-A, Dalhousie Sq. East, Calcutta 1.

NARAIN PHOTOGRAPHERS.—20-H, Park Street, Calcutta.

NEW ORIENTAL PHOTOGRAPHIC STORES.—139-A, S. N. Banerji Road, Calcutta 13. Phone: 23-7962.

Nizam & Co.—1, Chandni Chowk St., Calcutta 13.
Novelty Photo Co.—169, Vivekananda Road, Calcutta 6.
Photo Cine Stores.—3-B, Chowringhee Road, Calcutta 13.
Photo Cine Sound Supplies.—4, Mission Row, Calcutta 1.
Photo Concern.—158, S. P. Mukherji Road, Calcutta 26.
Photographic Concern.—12, Bhupen Bose Avenue, Calcutta 4.
Photographic Stores & Agency Co. P. Ltd.—154, Dharamtalla St., Calcutta 13.
P. K. Bose & Co.—1, Sikdar Bagan St., Calcutta 4.
Popular Camera Stores.—157-B, Dharamtolla St., Calcutta 13.
Quick Photo Service Co. P. Ltd.—157-B, Dharamtolla St., Calcutta 13.
Savoy Camera Stores.—4, Chowringhee Road, Calcutta 13.
Taste & Co.—133, Circular Garden Reach Road, Calcutta 23.
Vijay & Co.—3, Chowringhee Road, Calcutta 13.

PIPE MANUFACTURERS

Bhagwati Industries.—192, Cross Street, Calcutta.
Bharat Steel & Metal Industries.—14-2, Old China Bazar Street, Block No. 169, Calcutta.

HARIANA IRON WORKS.—30-31, Kalakar Street, Calcutta 7.

Indian Pan Works.—Ghusury, 227, G. T. Road, Howrah.
Krishna Galvanizing Works.—20, Belur Road, P.O. Lillooah, Howrah.
Maya Galvanizing Works.—9, Upper Chitpur Road, Calcutta 7.
M. Chandra & Co.—12, Lower Chitpur Road, Calcutta.
Modern Pipe Works.—12, Lower Chitpur Road, R. No. 220, Calcutta.
R. N. Kapoor & Co.—Sarasoona, Behala, Calcutta 8.

SHREE BHAGWATI INDUSTRIES.—69, Dharmatolla Road, Ghusury, Howrah.

Shree Dhakalia Industries.—10, Canning Street, Calcutta.
Shree Laxmi Industries.—46, Strand Road, Calcutta 7.
Singal Iron Works.—224-24, G. T. Road (North), Howrah.

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PIPES (CAST IRON & STEEL) AND PIPE FITTINGS

A. C. Mondal.—225, Belilios Road, Howrah.
Agarwal Hardware Works Pvt. Ltd.—167, Chittaranjan Avenue, Calcutta.
Aminchand Payare Lal.—135, Canning Street, Calcutta 1.
BAGRI IRON & STEEL CO.—138, Canning Street, Calcutta.
Belur Iron Foundry & Engg. Works.—203/1, Harrison Road, Calcutta 7.
Bengal Hardware Mart.—69-A, Netaji Subhas Road, Calcutta 1.
Bengal Rolling Mills Ltd.—67-B, Netaji Subhas Road, Calcutta.
Bharat Hardware and Textile Syndicate.—14, Netaji Subhas Road. Calcutta 1.
Calcutta Casting & Engineering Works.—243, Chittaranjan Avenue, Calcutta 13.
Castings Corporation India Pvt. Ltd.—45, Madhusudan Pal Chowdhury Lane, Howrah.
Commercial Import & Export Pvt. Ltd.—40, Strand Road, Calcutta 1.
D. C. De & Sons.—150, Narasingha Dutta Road, Howrah.
Dewanchand Nikkamal.—71-A, Netaji Subhas Road, Calcutta 1.
D. N. Singha & Co.—16, Sitanath Bose Lane, Salkia.
Great Eastern Mechanical Works Pvt. Ltd.—Ichapore Road, Santragachi (Dt. Howrah).
HINDUSTAN INDUSTRIAL CO.—192, Jamunalal Bazaz Street, Calcutta 7.
Howrah Engineering Concern Pvt. Ltd.—19, Maharshi Debendra Road, Calcutta 6.
Howrah Trading Co. Pvt. Ltd.—8, Dalhousie Sq. East, Calcutta.
Imperial Engineering Works Pvt. Ltd.—122, Belilios Road, Howrah.
Indian Iron & Steel Co. Ltd.—12, Mission Row, Calcutta.
Indian Malleable Castings Ltd.—4, Lyons Range, Calcutta.
Indian Tube Co. Ltd.—41, Chowringhee Road, Calcutta 16.
Krishna Galvanizing Works.—20, Belur Road, Lilooah, Howrah.
L. MULLICK & CO.—81, Netaji Subhas Road, Calcutta 1.
Luxmi Engineering Co. Pvt. Ltd.—123, Narasingha Dutt Road, Howrah.
Machines Techno (Sales) Pvt. Ltd.—33, Netaji Subhas Road, Calcutta 1.
Madhavsingh Dwarkadas.—44-45, Ezra Street, Calcutta 1.
Maya Galvanizing Works.—9, Upper Chitpur Road, Calcutta 7.
National Pipe Bending Works.—196, Panchanantola Road, Howrah.
Premier Iron & Steel Works Pvt. Ltd.—P-16, Nafar Pal Road, North Bandra, Howrah.
R. K. Industries.—144, Cotton Street, Calcutta 7.
Ramkrishna Engineering Works.—2, Sri Krishen Vakat Lane, Howrah.
Ramprosad Sagarmall.—34/2, Madhusudhan Pal Chowdhury Lane, Howrah.
Satish Chandra Karuri & Sons.—10-6, Brindabon Mullick Lane, Howrah.
S. C. Panja.—206, Belilios Road. Howrah.
Shree Hanuman Foundry Works.—8, Dalhousie Square East, Calcutta.
STEWARTS AND LLOYDS OF INDIA PRIVATE LTD.—Supply and installation of fabricated Pipe work of all sizes for Gas, Water, Steam and Compressed Air, etc., Casing for Tubewells, Oil country goods, Coils for Refrigeration and other industrial uses; Tubular structures for Buildings, Pipe Bridges and Trestles; Pallets, Stillages and Trolleys for materials handling. Head Office: 41, Chowringhee Road, Calcutta 16. Works: 39, Hide Road, Kidderpore, Calcutta 23.
Swapna Engineering Works.—15/1, Salkia School Road, Salkia.
Tatanagar Foundry Co. Ltd.—4, Dalhousie Sq. East, Calcutta 1.
THAKURDASS SUREKA IRON FOUNDRY LTD.—172, J. N. Mukherjee Road, Salkia, Howrah. Manufacturers of all sorts of Signalling & Interlocking Components, Cast Iron Post & Telegraph Components; C.I. Truck Supply & P.W. Materials; C.I. Carriage and Wagon & Locomotive Components; C.I. Sanitary Components and all sorts of Cast Iron General Castings.
Vijay Iron Foundry.—4, Dalhousie Square East, Calcutta 1.

PLASTIC & AUTOMATIC AMPOULE

EASTERN TRADERS (AGENCIES).—3, Chittaranjan Avenue (South), Calcutta 13. Manufacturers of Plastic Moulded goods and Automatic Ampoules.

PLASTIC MACHINERY

Carl Ohmes & Co. (India) Ltd.—Dhalipara, Behala, South Calcutta.
India Moulding Co.—2, Roberts Road, Dum Dum.
Plastic Manufacturers Ltd.—5, Dharamtolla Road, Bellur (Howrah).
Ranjit Engineering Works.—149, Benaras Road, Salkia, Howrah Dist.

PLASTIC NOVELTIES

PAADIP PLASTIC MOULDERS.—P. O. Box No. 6808, 12, Lall Madhav Mukherjee Lane, Calcutta 1.

PLASTIC PRODUCTS DEALERS

Askaran Srichand.—10, Armenian Street, Calcutta.
Benarsilal Kedia & Sons.—Room No. C-114, Bagree Market, 71, Canning Street, Calcutta 1.
Bharat Trading Co.—Room No. D-117, Bagree Market, 71, Canning Street, Calcutta 1.
Chemicals & Tools Distributors.—38, Strand Road, Calcutta 1.
Chika Pvt. Ltd.—36, Ganesh Ch. Avenue, Calcutta 13.
Dipak Trading Company.—15, Amratolla Lane, Calcutta 1.
Eastern Plastics.—Room No. D-116, Bagree Market, 71, Canning Street, Calcutta 1.
G. C. Kedia & Co.—13, India Exchange Place, Calcutta 1.
General Traders.—Room No. 112, Bagree Market, 71, Canning Street, Calcutta 1.
General Trading Company.—Room No. C-206, Bagree Market, 71, Canning Street, Calcutta 1.
Gordhandas Madanlal.—178, Mahatma Gandhi Road, Calcutta 7.
Jamunadas Bihani.—Room No. C-110, Bagree Market, 71, Canning Street, Calcutta 1.
Kamal Engineering Corpn.—235, B. L. Saha Road, Tollygunge, Calcutta 33.
Metal Distributors Pvt. Ltd.—38, Strand Road, Calcutta 1.
Nopchand Punamchand Malu.—10, Jackson Lane, Calcutta.
N. V. Distributors.—Room No. 20, Bagree Market, 71, Canning Street, Calcutta 1.
Orion & Company.—4, Ramkumar Rakshit Lane, Calcutta 7.
Plastic Sales Emporium.—18, Armenian Street, Calcutta 1.
Plastics Distributors.—38, Strand Road, Calcutta 1.
Plastics & Machineries Ltd.—4, Upper Chitpur Road, Calcutta 7.
Ramchandra Bulakidas.—47, Khengraputty Street, Calcutta 7.
Sharna & Company.—300-A, Rai Bahadur Road, Tollygunge, Calcutta.
Shoduttray Srinivas.—26, Upper Chitpur Road, Calcutta 7.
Shivdutt Purohit.—235, B. L. Saha Road, Tollygunge, Calcutta 33.
STAR PLASTIC WORKS.—Manufacturers of Ashoka Hair Clips & Broaches, Toys; 8, Ramprasad Shaha Lane, Calcutta 1.
SUNDERSINGH AJITSINGH.—17/D, Bagree Market, 71, Canning Street, Calcutta 1. Manufacturers of Polythene Tubular Films, Moulders & Fabricators of various Plastic goods; Specialists in Polythene Tapes, Belts and Sleevings.
UNITED SUPPLY AGENCY PRIVATE LTD.—Post Box No. G.P.O. 865, 38, Strand Road, Calcutta 1. Importers & Stockists of 'Perspex" Brand Acrylic Sheets, Rigid P.V.C. Sheets, Cellulose Nitrate Sheets, Polythene Sheets, etc. Phone Nos. 22-3687, 22-3688, 22-2236, Calcutta.
United India Agencies.—26, Upper Chitpur Road, Calcutta 7.
Virendra Shantilal Shah.—19, Armenian Strett, Calcutta.

PLASTIC PRODUCTS MANUFACTURERS

All Fine Industries.—150, Lower Chitpur Road, Calcutta 1.
Angelo Bros. Ltd.—P.O. Box No. 68, Calcutta.
Ashok Plastics Pvt. Ltd.—116, Canning Street, Calcutta 1.
Asian Tool & Plastic Co.—1/4C, Khagendra Chatterjee Road, Cossipore, Calcutta 2.
Atlas Industries Co.—13/C, Raja Rajkissen Street, Calcutta 6.
Automatic Plastic Works.—8, Canning Street, Calcutta.
Bajaj Industries Pvt. Ltd.—71-1, Canal Circular Road, Calcutta 11.
Bharat Industrial Corporation.—150/C, Ram Dulal Sircar Street, Calcutta 6.
BHARAT PLASTICS LTD.—6, Old Post Office Street, Calcutta 1.
Binani Metal Works Pvt. Ltd.—38, Strand Road, Calcutta 1.
B. K. PLASTIC INDUSTRIES.—33, Burtolla Street, Calcutta 7. Manufacturers of Plastic Industrial items, Packagings and other Plastic Moulded goods.
B. R. Products.—44/A, Masjidbari Street, Calcutta 6.
Calcutta Plastic Industries.—8, Sambhu Mullick Lane, Calcutta.
Calcutta Plastic Works.—26, Upper Chitpur Road, Calcutta 7.
Cipra Bakelite Company.—39, Russa Road, Tollygunge, Calcutta 33.
Circular Plastics.—2, Lansdowne Road, Calcutta 20.
COTTAGE ENGINEERING PRIVATE LTD.—69/2, Nimtolla Ghat Street, Calcutta 6. Manufacturing Specialists and Mechanical Engineers; all types of Plastics—all types of Bakelite Machines & Moulds—Presses and Moulds, Power Drills.
Crown Pen Industries.—90, Phears Lane, Calcutta 12.
EAST ANGLIA PLASTICS (I) LTD.—23, Camac Street, Calcutta 16.
Eastern Plastic Syndicate.—26, Upper Chitpur Road, Calcutta.
Eastern Traders (Agencies).—3, Chittaranjan Avenue, Calcutta 13.
EMCO GENERAL INDUSTRIES.—Block No. B-111/112, 71, Canning Street, Calcutta 1.
Ever-Bright Plastic Works.—7/1, Sukhlal Jahury Lane, Calcutta 7.
Evernew Private Limited.—149, Lower Chitpur Road, 1st Floor, Calcutta 1.
Extrusions.—243, Chittaranjan Avenue, Calcutta 6.
Fairway Trading Co.—No. 6, Karbala Mohd. Street, Calcutta 1.

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Glix Engineering Co.—42, Nalini Sett Road, Calcutta 7.
Hanuman Plastics Works.—46, Strand Road, Calcutta.
Harjitsing Khanna.—116, Chittaran Avenue, Calcutta 7.
Hind Plastic Works Ltd.—6, Pageyaputty Street, Calcutta 7.
Hindusthan Bangle Works.—5, Gurudas Bysack Lane, Calcutta 7.
Hindusthan Plastics Co.—1-4, Gun Foundry Road, Cossipore, Calcutta.
I. C. I. (India) Pvt. Ltd.—34, Chowringhee, Calcutta.
India Moulding Co.—C-2, Bharat Bhavan, Calcutta.
India Plastic & Moulding Co.—300, Bowbazar Street, Calcutta 12.

INDUSTRIAL PLASTIC (INDIA).—17, Park Street, P.B. No. 9072, Calcutta 16. Fabricators of Acrylic and Rigid P.V.C. Sheets, Injection and Compression Moulders, P.V.C. Welders and Silk Screen Printers. Manufacturers of Industrial Components, Safety Helmets, Domesticware, Advertising Novelties, Light Fittings, etc.

Indar Plastic Works.—65-A, Nimtolla Ghat Street, Calcutta 6.
Jupitar Pen Industries.—32, Kristo Das Pal Lane, Calcutta 6.
Keshavchandra Singhal & Co.—12, Lower Chitpur Road, Calcutta 1.
Kumar Plastic Works.—48-A, Muktaram Babu Street, Calcutta 7.
K. K. Bubby Industries.—28, Sadar Thana Street, Delhi 6.
K. N. Gupta & Co.—87, Khengraputty Street, Calcutta 7.
Ladia Plastic Works.—14-6, Sovaram Bysack Street, Calcutta 7.
Laharchand Sethia.—53, Netaji Subhas Road, Calcutta.
Lal Plastic Products.—43/1, Strand Road, Calcutta 1.
Madan & Co.—65-A, Nimtolla Ghat Street, Calcutta 6.
Mahabir Plastic Industries.—6, Canal Road, Tollygunge, Calcutta 33.
Maheswari Plastic Works.—80-2, Pathuriaghatta Street, Calcutta 6.
Modern Pen Industries.—P-41, B. K. Pal Avenue, Calcutta 5.
Modern Plastic Works.—128, Hazra Road, Flat No. 5, Calcutta 26.
Moyur Products.—Room No. A-41, Bagree Market, 71, Canning Street, Calcutta 1.
National Carbon Co. (India) Ltd.—Faraday House, P-17, Mission Row Extension, P. B. No. 2170, Calcutta.
National Moulding Co., Ltd.—26, Upper Chitpur Road, Calcutta 7.
Orient Plastic Products.—5-1, Govind Chandra Dhar Lane, Calcutta.
Oriental Traders.—Room No. FN. 10, 1st Floor, 12, Lower Chitpur Road, Calcutta 1.
Peerless Plastics Industries Pvt. Ltd.—4, Upper Chitpur Road, Calcutta.
Pioneer Plastic Works Ltd.—9, Ezra Street, Calcutta.
Plasteel Industries Corporation Pvt. Ltd.—15, Amratalla Lane, 1st Floor, Calcutta 1.
Plastic Concern.—20, Sir Hariram Goenka Street, Calcutta 7.
Plastic Corporation.—114, Princep Street, Calcutta 13.
Plastic Mfrs.Pvt. Ltd.—Stephen House, 5, Dalhousie Sq. East, Calcutta.
Plastic Powders Pvt. Ltd.—6. Old P.O. Street, Calcutta 1.
Plastic Concern.—20, Sir Hari Ram Goenka Street, Calcutta 7.
Plastics Mfrs.—5, Dharamtolla Road, Calcutta.

PLASTICS MOULDERS PRIVATE LTD.—38, Strand Road, Calcutta 1. Manufacturers of Tooth Brushes, Shaving & Toilet Brushes, Combs, Alkathene Films & Bags, Soap Cases, Toys and Processors of 'Tilthene' Moulding Powder.

Plasto-Iron (India) Ltd.—157, Jessore Road, Dum Dum, Calcutta 28.
Plastoweld.—394, Upper Chitpur Road, Calcutta 7.
Pradip Plastic Moulders.—8, Canning Street, Calcutta 1.
Prakash Industries.—116, Canning Street, Calcutta 1.
Premraj Hazarimull.—Naya Basti, Ramsaran Poddar Lane, Tollygunge, Calcutta.
Radheshyam Plastic Industries.—65-A, Nimtolla Ghat Street, Calcutta 6.
Ratan Plastics Pvt. Ltd.—43/1, Strand Road, 1st Floor, Calcutta 1.
Sree Probhat Products.—99/B, Garpar Road, Calcutta 9.
Saigal Commercial Company.—1, Sun-Yet-Sen Street, Calcutta.
Sree Luxmi Plastic Works.—6-A, Jagabandhu Boral Lane, Calcutta 7.
Shri Bijoy Industries.—24/25, Upper Chitpur Road, Calcutta 7.
Star Plastic Works.—8, Ramprasad Saha Lane, Calcutta.
Standard Plastic Works.—150, Lower Chitpur Road, Calcutta 1.
Sukhani Plastic Industries.—259, Chittaranjan Avenue, Calcutta 6.
Surana Industries.—1B, Haraprasad Dey Lane, Calcutta 7.
Surendra Stores.—Room No. C-7, Bagree Market, 71, Canning Street, Calcutta 1.
Swadeshi Industries Ltd.—142/A, Jamunalal Bajaj Street, Calcutta. 7.
Synthetic Moulders Ltd.—53, Netaji Subhas Road, Calcutta.
Teko Pen Industries.—90, Phears Lane, Calcutta 12.
Unique Plastic Industries.—4, Canal Road, Tollygunge, Calcutta 33.
United Industries.—6, Canal Road, Tollygunge, Calcutta 33.
Universal Moulders.—5, Canal Road, Calcutta 3.
West Bengal Plastics (Pvt.) Ltd.—6, Old P.O. Street, Calcutta 1.

WESTERN PLASTIC COMPANY.—9, Gurusaday Road, Ballygunge, Calcutta 19.

PLYWOOD

Albion Plywoods Ltd.—11, Clive Row, Calcutta.
Andaman Timber Industries Ltd.—2, D. Sq. East, Calcutta 1.
Asiatic Plywood Industries.—30, Strand Road, 1st Floor, Calcutta.
Assam Bengal Saw Mills.—4, Clive Ghat Street, Calcutta.
Assam Bengal Veneer Industries Pvt. Ltd.—9, Clive Row, Calcutta 1.
Assam Plywood Products Pvt. Ltd.—12, D. Sq. East, Calcutta 1.
Avarat Plywood.—86, Netaji Subhas Road, Calcutta.
B. S. & Co.—33, Brabourne Road, Calcutta 1.
Bando Plywood Works.—98, Masjidbar Street, Calcutta.
Beliaghata Timber Works Ltd.—8, Chawalpatty Road, Calcutta 10.
Bengal Bobbin & Plywood Mfg. Co.—44-46, Canning Street, Calcutta.
Bengal Veneer & Saw Mills.—Siliguri, Darjeeling Dist.
Bose Wood Works Pvt. Ltd.—9, Clive Row, Calcutta.
Calcutta Plywood Co.—29, Strand Road, Calcutta.

CROSSLEY & TOWERS PRIVATE LTD.—7A, Lower Circular Road, Calcutta 17. On Government list of approved Plywood Manufacturers and registered under the Indian Standard Institution.

Das & Co.—32, Chawalpatty Road, Calcutta 10.
Eagle Plywood Industries Ltd.—9, Royal Exchange Place, Calcutta.
East India Plywood Co. Ltd.—2, Netaji Subhas Road, Calcutta.
Eastern Plywood Mfg. Co. Ltd.—108, Prince Anwar Shah Road, Tollygunge PO., Calcutta 33.
Enco Plywood & Saw Mills Industries.—5, Alipur Park Road, Calcutta 27.
Ganges Plywood Mfg. Co. Ltd.—37, Netaji Subhas Road, Calcutta.
Great Indian Plywood Mfg. Co.—76, Jessore Road, Calcutta 30.
Hindustan Timber Industries.—41, Chawalpatty Road, Calcutta.
India Plywood Co.—33, S. K. Deb Road, Pathi Pookar, Dum Dum, Calcutta.
Jayshree Plywoods.—India Exchange, Calcutta 1.
Jeypore Timber & Veneer Mills Ltd.—35, Chittaranjan Avenue, Calcutta.
Kamal Brothers.—20, Harish Neogi Road, Calcutta 4.
Kasipur Plywood Co.—2, Dalhousie Square (East), Calcutta.
Madarihat Veneer & Saw Mills.—Madarihat P.O., Jalpaiguri Dist.
Minerva Plywood Industries.—43-A, Chawalpatty Road, Beliaghata, Calcutta.
National Plywood Industries.—6, Cora Pada Sarkar Lane, Daspara, Calcutta.
National Timber Industries.—3, Rashmoni Bazar Road, Beliaghata, Calcutta.
Paharpur Timbers Pvt. Ltd.—Paharpur, Calcutta 23.
Plywood Mfrs. Co-operative Society Ltd.—1, Canal Circular Road, Calcutta.
Rajasthan Plywood & Drum Works.—29-D, Chawalpatta, Calcutta.
Rohtas Industries Ltd.—9, Dalhousie Square East, Calcutta.
S. S. Mookerji.—29, Parkside Road, Calcutta 26.
Sree Gopal Plywood Works.—2, Pahehanan Mookerjee Road, Cossipore P.O., 24 Parganas Dist.
Surma Match & Industries Ltd.—67-B, Netaji Subhas Road, Calcutta.
Taj Plywood Products.—20, Ultadanga Main Road, P.O. Calcutta 4.
Union Plywood Products.—1, Commercial Bldgs., 102-B, Netaji Subhas Road, Calcutta.
Varat Plywood Factory.—67-B, Netaji Subhas Road, Calcutta.
Veneer Mills Pvt. Ltd.—62, Ballygunge Circular Road, Calcutta 19.
Wood Craft Products Ltd.—8, Royal Exchange Place, Calcutta.

PORCELAIN

PROMUDGOSS & CO.—6, Lower Chitpur Road, Calcutta 1.

POTTERIES, BRICK AND TILE WORKS

A.B.C. Floors.—13, Dalhousie Square, Calcutta 1.
Arco Ceramics.—16-J, Fern Road, Calcutta 19.
Art Tiles & Concrete Works P. Ltd.—11, Gobra Goristhan Lane Entally, Calcutta 14.
Bengal Porcelain Co. Ltd.—1-2, Moti Sil Street, Calcutta 13.
Bengal Potteries Ltd.—45, Tangra Road, Calcutta 15.
Bharat Firebricks & Pottery Works P. Ltd.—33, Canning St., Calcutta 1.
Bharat Potteries.—91, Dharamtolla Street, Calcutta 13.
Calcutta Porcelain Works Ltd.—1-1, Bhim Ghosh Byelane, Calcutta 6.
Crown Brick Co.—Badartala, Calcutta 18.
Carrara Marble & Terrazo Co.—P-21, Mission Row Extension, Calcutta 13.
Eastern Brick Manufacturers, —Akrah, Calcutta 18.
Hindustan Potteries.—12, Shibkristo Daw Lane, Calcutta 7.
India Potteries Ltd.—91, Dharamtolla Road, Calcutta 14.
Mitter Bricks P. Ltd.—Tollygunge, Calcutta 41.
National Brick Mfg. Co.—Akrah, Calcutta 18.
Nawn Potteries.—7, Bowbazar Street, Calcutta 12.

POTTERY MANUFACTURERS

CENTRAL GLASS INDUSTRIES PRIVATE LTD.—Manufacturers of Chinaware, Crockeries, Dolls, Laboratory wares, etc. Head Office: 7, Swallow Lane, Calcutta 1. Works: Alambazar, Calcutta 35.

PRESS CLIPPINGS

K. K. ROY (PRIVATE) LTD.—2, Presidency Court, 55, Gariahat Road, Calcutta 19.

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PRINTERS & BLOCK-MAKERS

BENGAL PHOTOTYPE CO. PRIVATE LTD.—46/1, Amherst Street, Calcutta 9. Phone: 35-1702. Block-makers of long Standing repute, Age-long service to reputed newspapers and Magazines, Attractive Art design and blocks—Line Halftone and from Colour Transparencies, Stereo and Mat Makers, Quality Printers of Multicoloured folders, Labels, Calendar Printing a Speciality, Expert in Commercial and Industrial Photography, Service day & night for Party and Press, Equipped with modern and latest Machineries; more than three generations we are in same Trade.

PRINTING PRESSES

Acme Printing & Process Works.—115C, Amherst Street, Calcutta 9.
A. T. De (Pvt.) Ltd.—21, Jhamapukur Lane, Calcutta 9.
Alexandra Printing Works.—9A, Hari Pal Lane, Calcutta 9.
All India Printing & Cardboard Box Factory.—58/1, Nimtola Ghat Street, Calcutta 6.
Anna Art Press (Pvt.) Ltd.—26, Dr. Suresh Sarkar Road, Calcutta 14.
Argus Trading Co.—1, British Indian Street, Calcutta.
Art Printing House.—8, Crooked Lane, Calcutta 1.
Art Union Printing Works (Pvt.) Ltd.—80/15, Grey Street, Calcutta 6.
Aryan Press.—309, Bowbazar Street, Calcutta 12.
Aubhoy Brothers & Co.—2/1, Old Court House Street, Calcutta 1.
Auto Print & Pub. House.—49, Baldeopara Road, Calcutta 6.
B. M. S. Printing Works.—3, Amratola Street, Calcutta 1.
Babosa Banijya Press.—9/3, Ramanath Majumdar Street, Calcutta 7.
Bani Press.—16, Hemendra Sen Street, Calcutta 6.
Baptist Mission Press.—41A, Lower Circular Road, Calcutta 16.
Basanta Trading Co.—59, Mott Lane, Calcutta 13.
Basu Bhattachari & Co.—80/7, Grey Street, Calcutta 6.
Basusree Press.—80/6, Grey Street, Calcutta 6.
Bata Press.—30, Theatre Road, Calcutta 16.
Bela Printing Works.—22, Sukeas Lane, Calcutta 9.
Bengal Autotype Co.—213, Cornwallis Street, Calcutta 6.
Bengal Book Binding Co.—34/1, Beadon Street, Calcutta.
Bengal Cardboard Industries & Printers P. Ltd.—72, Tiljala Road, Calcutta 17.
Bengal Phototype Co. (Pvt.) Ltd.—46/1, Amherst Street, Calcutta 9.
Bengal Stationery Concern.—14/2, Old China Bazar Street, Calcutta.
Bharatbarsa Printing Works.—203/1/1, Cornwallis Street, Calcutta 6.
Bharati Printing & Publishing Co. Ltd.—123, Lower Circular Road, Calcutta 14.
Bijlee Press Pvt. Ltd.—129, Shymaprasad Mukherji Road, Calcutta 26.
Bijoya Art Press.—144, Dharamtola Street, Calcutta 13.
Blockman (Process).—77/1, Harrison Road, Calcutta 9.
Bodhi Press.—5, Sankar Ghose Lane, Calcutta 6.
Bose Press Pvt. Ltd.—30, Brojo Mitra Lane, Calcutta 9.
Brahmo Mission Press.—211, Cornwallis Street, Calcutta 6.
British India Stationery Supply Concern.—57, Radhabazar Street, Calcutta 1.
Calcutta Art Studio.—185/1, Bowbazar Street, Calcutta 12.
Calcutta Art Printers Pvt. Ltd.—8B, Lalbazar Street, Calcutta.

CALCUTTA CHRONOTYPE PRIVATE LTD.—1, Gibson Lane, Calcutta 1.

Calcutta Exchange Gazette.—5, Mission Row, Calcutta 1.
Calcutta Job Press Pvt. Ltd.—35/B, Wellington Street, Calcutta 13.
Calcutta Phototype Co. Pvt. Ltd.—6, Chowringhee, Calcutta 13.
Calcutta Press Pvt. Ltd.—1, Wellington Square, Calcutta 13.
Campbell Printing Works.—8/1, Lalbazar Street, Calcutta 1.
Cardboard Box Mfg. Co.—38, Coolotola Street, Calcutta 7.
Cardboard Box of India.—25A, Palit Street, Calcutta 19.
Cardboard Material & Printing Co. (Pvt.) Ltd.—7, Convent Road, Calcutta 14.
Caxton & Co.—19, British Indian Street, Calcutta 1.
Chitragupta Press.—205, Old China Bazar Street, Calcutta 1.
Classic Press.—21, Patuatola Lane, Calcutta 9.
Clive Press.—14/2, Old China Bazar Street, Calcutta 1.
D. H. Kesh & Co. Pvt. Ltd.—16, Ramkanai Adhicari Lane, Calcutta 12.
Dabur (S. K. Burman) Pvt. Ltd.—142, Rashbehari Avenue, Calcutta 29.
Dass Bros., Printing Works.—14, Garanhata Street, Calcutta 6.
Divine Printing Works.—142/2, Radha Bazar Street, Calcutta.
Doodh Nath Press.—95/1, Sambhu Halder Lane, Salkia, Howrah.
Doshi Press Pvt. Ltd.—17, Armenian Street, Calcutta.
Eastern Printing House.—9, Dharamtola Street, Calcutta 13.
Eagle Lithographing Co. Pvt. Ltd.—26B, Christopher Road, Calcutta 14.
Eastend Printers.—3, Dr. Suresh Sarkar Road, Calcutta 14.
Eastern Type Foundry & Oriental Printing Works Pvt. Ltd.—18, Brindaban Basak Street, Calcutta 5.
Elm Press.—63, Beadon Street, Calcutta 6.
Eton Press Pvt. Ltd.—41, Netaji Subhas Road, Calcutta 1.
Express Printers Pvt. Ltd.—20A, Gour Laha Street, Calcutta 6.
Fine Printers Pvt. Ltd.—42, Mahendra Gossain Lane, Calcutta 6.
Forward Pressman (India) Ltd.—8, Indian Mirror Street, Calcutta 13.
Free India Printing Works.—47, Baldeopara Road, Calcutta 6.
Ganges Printing Co. Ltd.—Shibpur, Howrah.
General Printers & Publishers Pvt. Ltd.—119, Dharamtola Street, Calcutta 13.
Ghose Printing House Pvt. Ltd.—17A, British Indian Street, Calcutta 1.

GLASGOW PRINTING CO. PRIVATE LTD.—Kadamtala, Howrah.

Gocool Chandra Dutta & Co.—9/1, Dalhousie Square East, Calcutta 1.
Gooha Printing Works.—76, Bowbazar Street, Calcutta 12.
Gordon & Co.—106, Narkeldanga Main Road, Calcutta 11.
Gossain & Co. Pvt. Ltd.—7/1, Grant Lane, Calcutta 12.
Gouranga Press Pvt. Ltd.—5, Chintamori Das Lane, Calcutta 9.
Grand Press.—275, Bowbazar Street, Calcutta 12.
Graphic Machinery & Appliances Pvt. Ltd.—3, Chittaranjan Avenue, Calcutta 13.
Gupta Press.—37/7, Beniatola Lane, Calcutta 9.
Guru Press, 157A, Dharamtola Street, Calcutta 13.
Guzrat Printing Press.—50, Ezra Street, Calcutta 1.
Headway Lithographing Co. Ltd.—4, Mari Ghosh Street, Calcutta 6.
Hibernian Press.—69, Bowbazar Street, Calcutta 12.
Hindusthan Art Engraving Co. Pvt. Ltd.—24, Corris Church Lane, Calcutta 9.
Hind Paper Printers.—79/9, Lower Circular Road, Calcutta 14.
Hind Press Works.—7, Sristidhar Dutta Lane, Calcutta 5.
Hindusthan Printing Works.—58/1/4A, Raja Dinendra Street, Calcutta 9.
Hindusthan Printers.—52B, Raja Dinendra Street, Calcutta 9.
Homin Art Press.—52/9, Bowbazar Street, Calcutta 12.
Hooghly Printing Co. Ltd.—41, Chowringhee Road, Calcutta 16.
Imperial Printing Works.—5/2A, Pitambar Bhattacherji Lane, Calcutta 9.
Indian Art Cottage.—P-7, C.I.T. Road, Calcutta 14.
Indian Press Pvt. Ltd.—93A, Dharamtolla Street, Calcutta 13.
Inland Printing Works.—60/3, Dharamtola Street, Calcutta 13.
International Press.—46, Bowbazar Street, Calcutta 12.
J. C. Hui & Co.—12B, Netaji Subhas Road, Calcutta.
Jackson Press.—22, Gangadhar Babu Lane, Calcutta 12.
Janabani Printers & Pub. Pvt. Ltd.—36, Baranashi Ghose Street, Calcutta 6.
Jnanoday Press.—17, Hayet Khan Lane, Calcutta 9.
K. L. Dutta & Co.—10, Dalhousie Square East, Calcutta 1.
K. P. Basu Printing Works.—11, Mohendra Gossain Lane, Calcutta 6.
Kalika Press Pvt. Ltd.—25, D.L. Roy Street, Calcutta 6.
Kalika Type Foundry Pvt. Ltd.—31, Ward Institution Street, Calcutta 6.
Kalpana Press Pvt. Ltd.—9, Shibnarain Das Lane, Calcutta 6.
Kamala Printing Works.—3, Kashi Mitra Ghat Street, Calcutta 3.
Kanai Press.—194, Old China Bazar Street, Calcutta 1.
Kattayani Machine Press.—39/1, Shibnarain Das Lane, Calcutta 6.
King Halftone Co.—22, Wellington Street, Calcutta 12.
Kohinoor Art Press.—3, Wellesley 1st Lane, Calcutta 16.
Krishna Art Press.—21B, Sikdar Bagan Street, Calcutta 4.
Lakshmi Printing Works.—370, Upper Chitpur Road, Calcutta 4.
Leonard Cardborad Box Factory Pvt. Ltd.—20, Grey Street, Calcutta.
Limton Art Press.—148, Lower Chitpur Road, Calcutta 1.
Lotus Press.—52/9, Bowbazar Street, Calcutta 12.
Loyal Art Press Pvt. Ltd.—164, Dharamtola Street, Calcutta 13.
M. I. Press.—30, Grey Street, Calcutta 5.
Madona Press.—14, Bowbazar Street, Calcutta 12.
Manager Press.—36A, Jatindas Road, Calcutta 29.
Misra & Co.—12, Grant Lane, Calcutta 12.
Mohan Press.—2, Dr. Kartick Bose Lane, Calcutta 9.
Molin Press Pvt. Ltd.—3, Sooterkin Street, Calcutta 13.
Monotype Corpn. Ltd.—8, Mission Row Extension, Calcutta 1.
N. B. Dutta & Co.—15, Clive Row, Calcutta 1.

N. K. GOSSAIN & CO. PRIVATE LTD.—7/1, Grant Lane, Calcutta 12.

Nabajiban Press.—66, Grey Street, Calcutta 6.
Nabakumar Press.—47, Kailas Bose Street, Calcutta 6.
Nabamudran Pvt. Ltd.—170A, Upper Circular Road, Calcutta 4.

NABASAKTI PRESS.—Proprietors: Nabasakti Newspapers Co. Private Ltd., 123, Lower Circular Road, Calcutta 14. Phones: 34-4068 & 34-5014.

Nalanda Press.—159 & 160, Cornwallis Street, Calcutta 6.
National Art Press.—157/A, Dharamtolla Street, Calcutta 13.
National Art Studio.—1, Chandney Chawk Street, Calcutta 13.
National Halftone Co.—68, Sitaram Ghose Street, Calcutta 9.
National Press.—14/2, Old China Bazar Street, Calcutta 1.
National Press.—31, Keshab Sen Street, Calcutta 9.
National Press.—76, Bowbazar Street, Calcutta 12.
National Printing Works.—58/1H, Raja Dinendra Street, Calcutta 9.
National Prinitng Works.—1, Gangadhar Babu Lane, Calcutta 12.
National Printing Works.—33D, Madan Mitra Lane, Calcutta 6.
Navana Printing Works Pvt. Ltd.—47, Ganesh Chunder Avenue, Calcutta 13.
Navroz Printing Works.—29-30, Ezra Street, Calcutta 1.
New Empire Printing Works.—23, Strand Road, Calcutta 1.
New India Printing & Publishing Ltd.—41A, Baldeopara Road, Calcutta 6.
New Sree Durga Press.—2/1, Cornwallis Street, Calcutta 6.
Novelty Stationery.—5A, Bysack Street, Calcutta 7.
P. C. Banerji & Bros. Pvt. Ltd.—22, Sukeas Lane, Calcutta 1.
P. G. Press.—44, Santiram Rasta, Bally, Howrah.
P. M. Bagchi & Co.—19, Gulu Ostagar Lane, Calcutta 5.

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Photographic Stores & Agency Co. Pvt. Ltd.—154, Dharamtola Street, Calcutta 13.
Pioneer Stereotype Co.—64A, Dharamtola Street, Calcutta 13.
Poddar Printers.—4A, Ramanath Majumdar Street, Calcutta 9.
Pooran Press.—21, Balram Ghose Street, Calcutta 4.
Popular Press.—92/A, Bowbazar Street, Calcutta 12.
Prabartak Printing & Halftone Ltd.—52/3, Bowbazar Street, Calcutta 12.
Printers Congress Pvt. Ltd.—3, British Indian Street, Calcutta 1.
Printers Corner Pvt. Ltd.—1, Gangadhar Babu Lane, Calcutta 12.
Print & Paper (Sales) Pvt. Ltd.—4/7A, Waterloo Street, Calcutta 1.
Queen Printing Works.—63E, Radhabazar Street, Calcutta 1.
Radiant Process.—6, A.S.N. Banerjee Road, Calcutta 13.
Raghunath Printing Works.—24A, Bagmari Road, Calcutta 11.
Reliance Printing Works.—219/A, Old China Bazar Street, Calcutta 1.
Reliable Printers.—170, Mahatma Gandhi Road, Calcutta 7.
Relief Roller Casting Co.—4, Girish Chandra Bose Road, Calcutta 14.
Reproduction Syndicate.—7/1, Cornwallis Street, Calcutta 6.
Rising Art Cottage.—103, Upper Circular Road, Calcutta 9.
Robin Press.—36, Strand Road, Calcutta 1.
Rupamudra Pvt. Ltd.—4, New Bowbazar Lane, Calcutta 12.
S. Antool & Co. Pvt. Ltd.—91, Acharya Prafulla Chandra Road, Calcutta 9.
S. M. Banerji & Sons.—106A, Narkeldanga North Road, Calcutta 11.
Sadhana Press Pvt. Ltd.—76, Bowbazar Street, Calcutta 12.
Sambhunath Dutta & Co.—14/2, Old China Bazar Street, Calcutta 1.
Saniranjan Press.—57, Indra Biswas Road, Calcutta 37.
Santi Press.—145, Cotton Street, Calcutta 7.
Saraswaty Press Ltd.—32, Upper Circular Road, Calcutta 9.
Satabdi Press.—80, Lower Circular Road, Calcutta 14.
Satyacharan Banerji & Co. Pvt. Ltd.—34A, Weston Street, Calcutta 13.
Sen Press Pvt. Ltd.—6, Shibnarain Das Lane, Calcutta 6.
Sharma Block Works.—36, Baranashi Ghose Street, Calcutta 6.
Silapsram Ltd.—4, Fordyce Lane, Calcutta 14.
SHREE BISWANATH PRESS.—46, Joy Mitra Street, Calcutta 5.
Sri Sakti Press.—5, Chowringhee Terrace, Calcutta.
Standard Photo Engraving Co.—1, Ramanath Majumder Street, Calcutta 9.
Standard Press.—37A, Mott Lane, Calcutta 13.
Standard Printing Press.—6, Jaoynuddi Mistri Lane, Calcutta 27.
Star Printing Works.—30, Shibnarain Das Lane, Calcutta 6.
Style-o-Print.—4, Rammohan Roy Road, Calcutta 9.
Susama Press.—3, Ramkanta Sen Lane, Calcutta 4.
Susama Printing Works.—34A, Waston Street, Calcutta 13.
Swapna Press Ltd.—8/1, Lalbazar Street, Calcutta 1.
Tapashi Press.—30, Cornwallis Street, Calcutta 6.
Tarachand & Sons.—56, Chowringhee, Calcutta 16.
Technical Journals of India Pvt. Ltd.—24, Brabourne Road, Calcutta 1.
Timir Printing Works.—1, Chandney Approach, Calcutta 13.
Tower Halftone Co.—14C, Kapalitola Lane, Calcutta 12.
United Commercial Co.—30, Chandi Bari Street, Calcutta 6.
United Printing Works.—7, Old Mayor's Court, Calcutta 5.
United Trading Agency.—56, Radhabazar Street, Calcutta 1.
Usha Printing Works.—6/8, Ramanath Majumdar Street, Calcutta 9.
Venus & Co.—14/2, Old China Bazar Street, R. No. 23 & 81, Calcutta 1.
Venus Printing Works.—52/7, Bowbazar Street, Calcutta 12.

PROVISION MERCHANTS

UNITED S. A. CORPORATION.—44, Ezra Street, Calcutta.

PUMP MANUFACTURERS & DEALERS

American Elec. & Pump Distributors.—4, Mission Row, Calcutta 1.
A. T. Alihussain & Co.—29, Strand Road, Calcutta 1.
Bengal Iron Works Pvt. Ltd.—16-2, Chatterjee Para Lane, Howrah.
B. N. Pachal & Sons Pvt. Ltd.—208, Belilios Road, Howrah.
Bombay Engineering Works.—238, Belilios Road, Howrah.
B. G. H. & Co.—18, Raja Woodmunt Street, Calcutta 1.
British Electricals & Pumps Pvt. Ltd.—1-1B, Mission Row, Calcutta.
British Standard Pumps & Co.—59L, Prodapaditya Road, Calcutta 26.
Continental Plant Machinery Co. Pvt. Ltd.—2, Justice Chandra, Madhab Road, Calcutta 20.
Darling Pump Mfg. Co.—58, Clive Street, Calcutta 7.
East India Engg. & Agency Co.—63-1, Benaras Road, N. Bantra, Howrah.
Ebrahimji Hassanbhoy & Sons.—30, Strand Road, Calcutta 1.
Electrical Construction & Equipment Co. Ltd.—9, Kaliprasanna Singhee Road, Calcutta 2.
F. Husain & Brothers.—28, Strand Road, Calcutta 1.
Gopinath Ray & Co. Pvt. Ltd.—Panchanantola Road, Howrah.
Great Eastern Foundry Works.—138, Canning Street, Calcutta 1.
Hind Enterprises.—4, Mission Row, Calcutta 1.
Hindusthan Electric & Engg. Co.—64, Beadon Street, Calcutta 6.
Industrial Gases Ltd.—138, Canning Street, Calcutta 1.
Johnston Pumps India Ltd.—2, Fairlie Place, Calcutta.
Luxmi Engineering Co. Pvt. Ltd.—123, Narasingha Dutt Road, Howrah.
Lynx Machinery Co.—104, Ultadanga Main Road, Calcutta 4.
Marshall, Sons & Co. India Ltd.—33/1, Netaji Subhas Road, Calcutta.
P. N. Dey & Co.—34, Kalachand Nandy Lane, Howrah.
R. B. Rodda & Co. Ltd.—Jogendranath Mookherjee Road, Howrah.
Reliance Engineering Works.—233, Belilios Road, Howrah.
Republic Traders Corporation.—P-12, Mission Row Extension, Calcutta 1.
Roger Engineering Works.—10, Clive Road, Calcutta.
S. C. Dass & Co. Pvt. Ltd.—178, Belilios Road, Howrah.
Senapati Brothers Pvt. Ltd.—132, Belilios Road, Howrah.
Ultra Engineering Co.—172-8, Madhusudan Pal Chowdhury Lane, Howrah.
United Provinces Commercial Corpn.—6, Ganesh Chandra Avenue, Calcutta 13.
Varat Pump & Machinery Pvt. Ltd.—20, Netaji Subhas Road, Calcutta.
Victory Construction Co. Ltd.—Grosvenor House, 21, Old Court House Street, Calcutta 1.
Water Supply Specialists Pvt. Ltd.—Post Box No. 424, Calcutta 1.
William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

RADIO ENGINEERING

RADIO (RESEARCH) INSTITUTE OF SERVICE ENGINEERING.—73/3, Ekdalia Road, Calcutta 19. Imparts training and Research in Radio Electronics.

RISE HOME STUDY OF APPLIED ELECTRONICS.—73/3, Ekdalia Road, Calcutta 19. Imparts Home-study Practical Radio Training.

RADIO MANUFACTURERS & MERCHANTS

All India Trading Co.—1, Central Avenue, Calcutta.
Allied Radio Industries.—153A, Vivekananda Road, Calcutta.
Alpha Radios & Novelties Ltd.—8, Madan Street, Calcutta 13.
Betar Bhaban.—34, Ganesh Chandra Avenue, Calcutta.
Britannia Talking Machine Co. (Cal.).—184, Dharamtola Street, Calcutta.
Calcutta Radio Service.—34, Ganesh Chandra Avenue, Calcutta 13.
Calcutta Radio Stores.—4/1, Shambhu Nath Pandit St., Calcutta 20.
C. C. Saha Ltd.—45, Moti Sil Street, Calcutta 13.
Central Radio Service Pvt. Ltd.—25/A, Chittaranjan Avenue, Calcutta 13.
Cystophone Sound Corpn. Ltd.—115-A, Amherst Street, Calcutta.
Debsons Pvt. Ltd.—2, Madan Street, Calcutta.
D. N. Nundy.—1, Dharamtola Street, Calcutta.
Dey & Sons. K.C.—161/1, Harrison Road, P.O.B. No. 6799, Calcutta 7.
Eastern Electric & Trading Co.—Hall & Anderson Bldg., 31, Chowringhee Road, Calcutta.
Eastern Trading Co.—2, Royal Exchange Place, Calcutta.
Electro Radio Emporium.—76/1, Cornwallis Street, Calcutta.
ELECTRO RADIOS PRIVATE LTD.—10, Chowringhee Road, Calcutta 13. Wireless & Sound Engineers, Importers & Wholesalers.
Electronic Radio & Sound Agencies.—18, Chandni Chowk, Calcutta 13.
Elvoc Pvt. Ltd.—3, Panditiya Road, Calcutta.
Flashlight (I) Ltd.—135, Princep Street, Calcutta.
General Radio & Appliance Pvt. Ltd.—3, Madan Street, Calcutta 13.
General Radio Co.—6, Madan Street, Calcutta.
Ghosh & Co.—49, Chowringhee Centre, Calcutta 13.
Gramophone & Radio Dealers.—188, Dharamtolla Street, Calcutta 6.
Gramo Radio Emporium.—80B, Vivekananda Road, Calcutta 6.
Gramo Radio Stores.—54-A, Bhupendra Bose Avenue, Calcutta 4.
Harry's Music House.—18/2, Chowringhee Road, Calcutta.
Hindco Electric Co.—54, Ezra Street, Calcutta.
The Hind Radio Pvt. Ltd.—51, Chittaranjan Avenue, Calcutta 12.
Hindustan General Electric Corpn. Ltd.—Thapar House, 25, Brabourne Road, Calcutta.
Hindustan Musical Products Ltd.—6/1, Akrur Dutt Lane, P.O. Bow Bazar, Calcutta 12.
India Radio Mfg. Co.—18, Chandni Chowk Street, Calcutta 13.
International Radio Emporium Pvt. Ltd.—3/2, Madan Street, Calcutta 13.
Istaro.—20, Lindsay Street, Calcutta 16.
Lalwani Radio Corpn.—6/3, Madan Street, Calcutta 13.
Megaphone Co.—77-1, Mahatma Gandhi Road, Calcutta 7.
Mehta & Co.—2, Lindsay Street, Calcutta 16.
Mehta & Sons, R. V.—14, Bentick Street, Calcutta.
MODERN TRADING CO.—P-22, Mission Row Extension, Calcutta 13.
Modern Radio Service.—48, Free School Street, Calcutta 16.
Modi Radio Co.—129/7, Harrison Road, Calcutta 7.
Nan & Co.—9A, Dalhousie Square East, Calcutta.
Nerode Baran Sen & Bros.—11, Bentick Street, Calcutta.
Oriental Radio Corpn.—P-34, Mission Row Extension, Calcutta 18.
Parul Betar.—134/B, Cornwallis Street, Calcutta.
Philips India Ltd.—7, Justice Chandra Madhab Road, Calcutta.
R. SHANTILAL & CO., PRIVATE LTD.—31-C, Brabourne Road, Calcutta 1.
Radio & Accessories (India) Ltd.—3, Madan Street, Calcutta 13.
Radio Club.—89, Southern Avenue, Calcutta 29.
Radio Distributing Co.—1, Central Avenue, Calcutta 13.
Radio Electrics Corpn. Pvt. Ltd.—2, Madan Street, Calcutta.

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Radio Engineers & Co.—10, Lower Circular Road, Calcutta 17.
Radio & Photostores.—65, Ganesh Avenue, Calcutta.
Radio Manufacturers of India.—P-28, Ganesh Chandra Avenue, Calcutta.
Radio Museum.—164/3, Russa Road, Calcutta 25.
Radio Research Institute of Service Engineering.—73/3, Ekoalia Road, Calcutta 19.
Radio Spares.—8, Madan Street, Calcutta 13.
Radio Supply Stores Pvt. Ltd.—3, Dalhousie Square, Calcutta.
Radio Technics.—64/A, Jatindra Mohan Avenue, Calcutta 5.
Radiohms Agencies.—6, Madan Street, Calcutta 13.
Radios (India) Ltd.—11, Lindsay Street, Calcutta 16.
Recol's (India) Ltd.—2, Church Lane, Calcutta.
Rogers & Co., G.—12, Dalhousie Square, Calcutta.
Sen & Bros., N.B.—11, Esplanade East. Calcutta.
Senola Musical Products Co.—11, Esplanade East, Calcutta 1.
Sen's Radio Service.—133A, Rashbehari Avenue, Calcutta.
Shree Kamla Stores, (Pvt.) Ltd.—46, Upper Chitpore Road, Calcutta 7.
Singh Radio & Sound Engineering.—9, Chowringhee Road, Calcutta 13.
Singh Supply Stores.—41/1, Shambhu Nath Pandit Street, Calcutta 20.
Sonorous.—208, Rash Behari Avenue, Calcutta.
Southern Engineering Co., Ltd.—22, Strand Road, Calcutta.
Standard Radio & Winding House Pvt. Ltd.—1, Chandni Chowk Street, Calcutta 13.
Standard Radio Service.—8, Madan Street, Calcutta 13.
Swastika Radio Electric Stores.—12, Lower Chitpur Road, Calcutta.
Tarafdar & Sons.—36/2, Russa Road, Calcutta 26.
Traders Bureau.—12, Bhupendar Basu Avenue, Calcutta.
United Agency Co.—141, Syamaprasad Mukherjee Road, Calcutta.
Utility Radio Co.—82/3, B, Cornwallis Street, Calcutta.

RAZORS & RAZOR BLADES

Harbanslal Malhotra & Sons Ltd.—18, Netaji Subhas Road, Calcutta,
National Razors & Blades Ltd.—35, Stephen House, 4, Dalhousie Square, Calcutta.

RECTIFIERS

ELVOC PRIVATE LTD.—36, Panditia Road, Calcutta 29.

REFRACTORIES

Behar Potteries Ltd.—Rupnariainpur, Burdwan Dist.
Bengal Refractories Pvt. Ltd.—Jamgram, (Via Sitarampur), Burdwan Dt.
Burn & Co. Ltd.—Refractory & Ceramic Works.—Raniganj, Burdwan Dt.
Hindusthan Potteries.—105, Dharamtoolla Road, P.O. Lillooah.
Reliance Firebricks & Pottery Co. Ltd.—8, Clive Row, Calcutta.

REFRACTORY MATERIAL MANUFACTURERS

Assam Silliminate Ltd.—6, Ganesh Ch. Avenue, Calcutta 13.
Associated Mining Industries Ltd.—4, Lyons Range, Calcutta 1.
Burn & Co. Ltd.—12, Mission Row, Calcutta 1.
D. C. M. Products Pvt. Ltd.—9, Convent Road, Entally, Calcutta 14.
Hindusthan Potteries.—12, Shib Kristo Daw Lane, Calcutta 7.
Kumardhubi Fireclay & Silica Works Ltd.—Chartered Bank Bldgs., Calcutta 1.
United Provinces Commercial Corporation, The.—6, Ganesh Chandra Avenue, Calcutta 13.

ROOFING AND ROOFING MATERIALS

Adhesives & Allied Products.—12, Netaji Subhas Road, Calcutta 1.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
Robsan & Co. Pvt. Ltd.—P-14, Mission Row Extension, Calcutta 1.
Shalimar Tar Products (1935) Ltd.—6, Lyons Range, Calcutta 1.

ROPE MANUFACTURERS & DEALERS

Anadi Nath Manna.—62, Netaji Subhas Road, 2nd Floor, Calcutta.
Bally Rope Works.—59, Netaji Subhas Road, Calcutta.
Banerjee G. D. & Co. Pvt. Ltd.—Bakulia House, Kidderpore, Calcutta.
Bengal Rope Works.—16-B, Ratan Neogy Lane, Calcutta 4.
Bengal Rope Works Pvt. Ltd.—18, Raja Monindra Road, Calcutta 37.
Calcutta Rope Mfg. Co., Ltd.—22, Raja Woodmunt St., Calcutta.
Chatra Rope & Twine Works.—Serampore, E. Ry.
Dass Brothers & Co.—33, Duttapara Lane, Chatra, Serampore, Hooghly.
Dass Rope & Twine Cottage Industry.—44, Duttapara, Chatra, Serampore.
Eastern Mfg. Co. Ltd.—Titaghur, 24 Parganas.
Ganges Rope Co. Ltd.—2, Fairlie Place, Calcutta.
G. D. Banerjee & Co. Pvt. Ltd.—"Bakulia House, Kidderpore, Calcutta 23.
Gour Chunder Dass & Sons.—Serampore, Hooghly.
Gungadhur Banerjee & Co. Pvt. Ltd.—51-52, Benaras Road, Near Bamangachi Cabinm Salkia, Howrah.
Harton, W. H. & Co. Ltd.—8, Dalhousie Square East, Calcutta.
Hindusthan Rope Works.—Chatra P.O., Serampore, Dist. Hooghly.
Hooghly Rope & Twine Works.—33, Duttapara Lane, Serampore, Hooghly.
Indian Twine Ball Factory.—12, Tamer Lane, Calcutta 9.
Manton & Martin.—70, Netaji Subhas Road, Calcutta.
Mullick S. C. & Co.—23-1, Strand Road, Calcutta.
Oriental Tape Mfg. Co.—301, Grand Trunk Road, Sibpur, Howrah.
Oriental Trading Agency.—301, G. T. Road, Sibpore, Howrah.
Paul Brothers Rope Works.—Serampore, E. Ry.
R. & R. Bros.—7, Swallow Lane, Calcutta 1.
Raj Coomer Das & Co.—4, Duttapara, Chatra, Serampore, Dist. Hooghly.
Reliance Trading Co.—8B, Amratola Lane, Calcutta.
Shalimar Rope Works Ltd.—14, Netaji Subhas Road, Calcutta.
Sircar & Co. P. C.—67-1, Badridas Temple Street, Calcutta 4.
Victoria Steam Rope Works.—88, College Road, Howrah.

RUBBER GOODS MANUFACTURERS

Assam Bengal Rubber Works Ltd.—11, New Tangra Road, Calcutta 15.
Associated Rubber & Plastic Works.—61, Bentinck Street, Calcutta.
Banerjee & Co., A.N.—71-A, Netaji Subhas Road, Calcutta.
Bharat Rubber Industries Pvt. Ltd.—17, Paymental Garden Lane, Calcutta.
Central Rubber Works (Pvt.) Ltd.—20-B, Tangra Rd., Calcutta 15.
Dunlop Rubber Co. (India) Ltd.—Dunlop House, 57-B, Free School St., P.B. No. 391, Calcutta 16.
East India Rubber Works Pvt. Ltd.—161, Chittaranjan Avenue, Calcutta.
Firestone Tyre & Rubber Co. of India Pvt. Ltd.—76, Lower Circular Road, Calcutta 14.
George Spencer Moulton & Co. (India) Pvt. Ltd.—239, Lower Circular Rd., Calcutta 20.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta.
Goodyear Tyre & Rubber Co. of India Pvt. Ltd.—209, Lower Circular Rd., Calcutta.
Hind Rubber Works.—17, Bibi Bagan Lane, Calcutta 15.
HINDUSTAN RUBBER WORKS LTD.—14, Ballygunge Station Road, Calcutta 19. Manufacturers & Exporters; Government, Military and Railway Contractors; "PALICAN" Brand Rubber-proofed Raincoats, Hotwater Bottles, Ice Bags, Hospital Sheetings, Ground Sheets, Gumboots, overshoes, Swimming Rings, Air Beds, Air Cushions, Air Pillows, Air Travel Bags, Travelling Requisites, Holdalls, Hygienic Rubber goods for Hospital use, Rubber Tiles for Flooring and all kinds of Rubber Moulded goods, etc.
India Rubber Goods Mfg. Co.—31-22, Lower Chitpore Road, Calcutta 1.
Indian Rubber Mfrs. Ltd.—4, Lyons Range, Calcutta.
INDOTE PRODUCTS.—Rajbati Road, Akhanbazar, Chinsurah. Indotex means quality goods; Please contact the Premier Manufacturers in every kind of latex Tubings, Veterinary Liners and Cones, Surgical, Ambeclextrons, obstetrical, Household and Industrial Gloves, all acid and Alkali proof, Finger Stall Single & Double with Apron, etc., etc.
Industrial Leather & Rubber Works.—24, Strand Road, Calcutta.
International Rubber Mfg. Co.—51, Radhanath Chowdhry Road, Tangra, Calcutta 15.
Kadar Rubber Mfg. Co. Pvt. Ltd.—34, Strand Road, Calcutta.
KOHINOOR RUBBER WORKS.—36/1A, Canal East Road, Calcutta 11. Manufacturers and Exporters of Footwear, Canvas, Rubber, Waterproof and Baby Shoes; Sports goods, Football Bladders and Play Balls and Hospital Rubber Sheetings.
KRISHNA RUBBER INDUSTRIES.—3, Barretto's Lane, Calcutta 1.
Modern Rubber Mfrs. Pvt. Ltd.—12/1/B, Lindsay Street, Calcutta 16.
Mundra & Co.—8, Canning Street, Calcutta.
National Rubber Mfrs. Ltd.—Leslie House, 19, Chowringhee, Calcutta.
National Rubber Works.—171-A, Mahatma Gandhi Road, Calcutta 7.
National Tyre & Rubber Co. India Ltd., Rowland Road. Calcutta 20.
Nundlal Inderchand Ltd.—1, Canning St., Calcutta 1.
New India Rubber Works Pvt. Ltd.—34-A, Chingrighatta Road, Calcutta 15.
Oriental Rubber Works.—171-A, Mahatma Gandhi Road, Calcutta 7.
R.B.S. Rubber Mills Pvt. Ltd.—3, Bentinck St., Calcutta.
Rubber Moulding Co.—39, Strand Road, Calcutta.
Rubber Products & Moulding Co.—P. Box 11202, Calcutta 14.
S.G.R. Industries Ltd.—10, The Mall, Dum Dum, Calcutta 28.
United Tyres.—59-B, Chowringhee Road, Calcutta 20.
Wren & Co., D.—25, Swallow Lane, Calcutta 1.

SAFE MANUFACTURERS

Ganpat Saw & Co.—97, Mahatma Gandhi Road, Calcutta 7.
Ghosh & Co.—96, Mahatma Gandhi Road, Calcutta 7.
Godrej & Boyce Mfg. Co. Pvt. Ltd.—9, Brabourne Road, Calcutta.

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SANITARY ENGINEERS & SANITARY APPLIANCES MANUFACTURERS AND DEALERS

Annapurna Metal Work.—3, Ashu Biswas Road, Calcutta 25.
Asoka Trading Corporation.—46, Dharamtolla St., Calcutta 13.
Bengal Machine Works.—112, Narasingha Dutt Road, Howrah.
Calcutta Constructors P. Ltd.—34, Strand Road, Calcutta 1.
D. C. De & Sons.—150, Narasingha Dutta Road, Howrah.
H. G. Fewkes & Co. Pvt. Ltd.—44B, Wellesley St., Calcutta 15.
J. M. Sain & Brothers.—110, College St., Calcutta 12.
National Planning & Construction Ltd.—16, Ganesh Ch. Avenue, Calcutta 13.
P. A. Govardhan Das.—5, Clive Ghat Street, Calcutta 1.
Robsan & Co. P. Ltd.—P-14, Mission Row Extension, Calcutta 1.
Sanitary & Plumbing Stores Ltd.—146, Shyama Prosad Mookerjee Road, Calcutta 26.

S. C. BOSE.—309, Bowbazar Street, Calcutta 12. Phone : 22-5970.

S.D.M. Syndicate.—219, Bowbazar St., Calcutta 12.

THAKURDASS SUREKA.—40, College Street, Calcutta 12.

SAW MANUFACTURERS

SHREE VISHWAKARMA INDUSTRIES.—192, Cross Street, Calcutta 7. Manufacturers of Monkey Brand Band Saw and Chakra Brand Hand Saw, Web Saw, Crescent Saw, etc.

SAW MILLS

Adhunik Saw Mill.—19, Gariahat Road, Ballygunge, Calcutta.
Ambika Trading Co.—10/1, Canal East Road, Calcutta 4.
Anwar Ali & Co.—14/2, Burdwan Road, Calcutta 27.
Ashok Saw Mill.—28, Chaulpatty Road, Calcutta 10.
B. C. Biswas.—20, Canal South Road, Calcutta 15.
B. Chowdhury & Bros.—22, Chaulpatty, Calcutta 10.
Beliaghata Saw Mills.—23, Chaulpatty Road, Calcutta 10.
Beliaghata Timber Works Pvt. Ltd.—28-B, Chaulpatty Road, Calcutta 10.
Beliaghata Traders.—28, Chaulpatty Road, Calcutta 10.
Bengal Assam Saw Mill.—10-1A, Canal Circular Road, Calcutta 5.
Bengal Trading Syndicate.—29-D, Chaulpatty Road, Calcutta 10.
Bharat National Saw Mill.—17-H/2, Canal West Road, Calcutta.
Bharati Timber Works.—105/3, Ultadanga Main Road, Calcutta 4.
Bharati Saw Mills.—14, Canal South Road, Calcutta 15.
Bhattacharya (Agency) & Co. Pvt. Ltd.—8, Gurudas Dutt Lane, Calcutta 4.
Binapani Plywood Co.—4, Chaulpatty Road, Calcutta 10.
Bonner & Co.—29/A, Justice Chandra Madhab Road, Calcutta 20.
Cosmo Traders Pvt. Ltd.—87, Hari Ghosh Street, Calcutta 6.
Datta Brothers.—8/3, Gurudas Dutta Garden Lane, Calcutta.
Durga Timber Works—8/1/1, Gurudas Dutta Garden Lane, Calcutta 10.
East Calcutta Box Co.—34, Canal East Road, Narkeldanga, Calcutta.
Forest Products & Saw Mill.—14/3, Galiff Street, Baghbazar, Calcutta 3.
Ghose Brothers & Co.—30/H/1, Canal East Road, Calcutta 11.
Gujrat Timber Works.—59, Belgachia Road, Calcutta 37.
Harrison Saw Mill.—E-3, Gillander House, 12, Netaji Subhas Rd., Calcutta.
Hind Saw Mill.—7, Kulia Tangra Lane, Calcutta 15.
Indian Timber Industries.—20, Chaulpatty Road, Calcutta 10.
Indo-American Engineering Works.—2, Roy Jatindra Nath Chowdhury Lane, Calcutta 36.
Inland Traders.—14/2, Canal East Road, Calcutta 4.
Kamala Packing Box Co.—21-1, Canal East Road, Calcutta 4.
Kamala Wood Works.—6, Chandra Kumar Roy Lane, Calcutta 36.
K. G. Traders.—18, Beliaghata Road, Calcutta 15.
K. K. Timber Trading Co.—3, Gurudas Dutta Garden Lane, Calcutta 4.
K. P. Hati & Bros.—20, Chaulpatty Road, Calcutta 10.
K. R. Patel & Co.—93-A, Jessore Road, Dum Dum, Calcutta 28.
Laurry & Co., Ltd.—35/3, Canal Circular Road, Calcutta 11.
Modern Saw Mill.—35-B, Chaulpatty Road, Calcutta 10.
M. T. M. Co.—69, Gokul Boral Street, Calcutta 12.
National Saw Mill.—31, Gariahat Road, Ballygunj, Calcutta.
National Timber & Box Co.—39/H/3, Chaulpatty Road, Calcutta 10.
N. G. Basu & Sons.—5-1, Canal East Road, Calcutta 4.
N. I. Industries.—53, Netaji Subhas Road, Calcutta 1.
N. R. Ghose & Co., Pvt. Ltd.—2, Canal East Road, Calcutta 4.
Packing Box & Timber Supply Co.—38, Chaulpatty Road, Calcutta 10.
Paharpur Timbers Pvt. Ltd.—1-B, Judge Court Road, Calcutta 27.
Santu Saw.—80/1, Canal Circular Road, Calcutta 11.
Shanti Saw Mills.—10, Canal East Road, Calcutta 4.
Shiva Das Gopaljee Patel & Co.—1/1, Abdul Rasul Avenue, Calcutta 26.
S. K. Bagchi & Co.—65/1, Maharshi Debendra Road, Calcutta 6.
S. M. Ali Ltd.—10, Lower Chitpore Road, Calcutta.
S. N. Biswas & Co.—27-B, Chaulpatty Road, Calcutta 10.
Standard Saw Mill.—8-1-B, Gurudas Dutt Garden Lane, Ultadanga, Calcutta 4.
Standard Timbers.—3/2C, Gurudas Dutta Lane, Calcutta 4.
Surana Trading Co.—21, Chaulpatty Road, Calcutta 10.
United Sales Corporation.—30, Canal West Road, Calcutta 4.

SCIENTIFIC & SURGICAL APPARATUS & INSTRUMENTS MANUFACTURERS & DEALERS

Adair Dutt & Co. (India) Pvt. Ltd.—5, Dalhousie Sq. East, Calcutta.
Advani Pvt. Ltd.—3/D, Garstin Place, Calcutta 1.
Alcock W.J. & Co. Pvt. Ltd.—7, Hastings St., Calcutta.
Allen & Hanburys Ltd.—D-3, Gillander House, Netaji Subhas Road, Calcutta 1.
Allied Glass Industries.—28A, Fakir Chakrabarty Lane, Calcutta 6.
Associated Scientific Corporation.—232-B, Upper Circular Road, Calcutta 4.
Anglo-Swiss Watch Co.—6 & 7, Dalhousie Sq. East, Calcutta.
Artico.—5, Dalhousie Sqr. (East), Calcutta.
Associated Elec. Industries (India) Pvt. Ltd.—6, Mission Row, Calcutta.
Bajaj Electricals Ltd.—10, Ganesh Ch. Avenue, Calcutta.
Banka & Sons.—8, India Exchange Place, Calcutta 1.
Basmall & Co. (India) Pvt. Ltd.—296/98, Jessore Road, Calcutta 28.
Bell's Asbestos & Engg. (I) Pvt. Ltd.—24, Chittaranjan Avenue, Calcutta.
Bengal Chemical & Pharmaceutical Works.—6, Ganesh Chandra Avenue, Calcutta.
Biological Supply Concern Pvt. Ltd.—14, Hare Street, Calcutta 1.
Bombay Surgico Medical Agency Ltd.—113, Chittaranjan Avenue, Calcutta 12.
Bysakh & Co.—55, W.C. Banerjee St., Calcutta.
Calcutta Pure Drug Co.—2, Cooper Lane, Calcutta 1.
Calcutta Scientific Mart.—21, Tamer Lane, Calcutta 19.
Chemical & Surgical Works Ltd.—186, Bowbazar St., Calcutta 12.
Chuckervertty Chatterji & Co. Ltd.—15, College Square, Calcutta 12.
Cossipore Glass Blowing Works.—60, Satchasipara Road, Cossipore, Calcutta 2.
Das, K. K. & Co.—14-2, Old China Bazar St., Calcutta.
Darbara Singh & Sons.—14, Bowbazar St., Calcutta.
Dawn Bros.—P-43, B. K. Pal Avenue, Calcutta 5.
G.E.C. of India Ltd.—Magnet House, Chittaranjan Avenue, Calcutta.
Geologists' Syndicate Pvt. Ltd.—137, Canning St., Calcutta.
Gharpure & Co.—P/36, Royal Exchange Place Extension, Calcutta.
Gramophone Co. Ltd.—33, Jessore Road, Dum Dum.
H. Mukherji & Banerjee Surgical Pvt. Ltd.—39-1, College Street, Calcutta 12.
Hospital Appliances Mfg. Co.—101-B, Chittaranjan Avenue, Calcutta 12.
Hospital Supply Co.—111, Chittaranjan Avenue, Calcutta 12.
Indian Oxygen Ltd.—48-1, Diamond Harbour Road, Calcutta 27.
Industrial Instrument Co.—30, Strand Road, Calcutta.
Instrument Research Laboratory.—309, Bowbazar St., Calcutta 12.
Instrument Works.—37B, Bosepara Lane, Calcutta 3.
James Murray & Co. Pvt. Ltd.—5, Old Court House Street, Calcutta 1.
Jayer & Co.—12, Netaji Subhas Road, Calcutta 1.
Johnson, S. U. & Co.—1-2, Jadu Mitra Lane, Calcutta 4.
Kay Orr & Brothers.—P-36, India ExchangePlace Extn., Calcutta 1.
Kirleb Pvt. Ltd.—5, Marquis St., Calcutta.
Luxmi Scientific Glass Works.—Ultadanga Main Road, Calcutta 4.
Mahindra Engg. Co. Pvt. Ltd.—51, Chowringhee, Calcutta.
Mansfield Oil Gas Co. Ltd.—16, Radhanath Choudhury Rd., Calcutta 15.
Megna Industries Pvt. Ltd.—22, Canning Street, Calcutta 1.
Model General Stores Co.—7-D, Indra Roy Road, Calcutta 25.

MODERN SCIENTIFIC EQUIPMENT CO.—36, Brabourne Road, Calcutta 1. Phone : 22-5972. Grams : "MOSEQUIP," Calcutta.

Mukherjee & Banerjee Surgical Ltd.—39-1, College St., Calcutta 12.
Nabanil & Co.—3, Chittaranjan Avenue, C-4, Bharat Bhavan, Calcutta 13.
N.G.B. Concern Ltd.—9, Nayan Chand Datta St., Calcutta 6.
New Indian Scientific Apparatus Co.—20, Radha Kanto Jew St., Calcutta 4.
Nundon, T. C. & Sons.—46-B, Kansaripara Rd., Bhowanipore, Calcutta 25.
Oster Chemical & Pharmaceutical Works Pvt. Ltd.—78-B, Manicktolla Street, Calcutta 6.
Pharma Ortho Surgicals.—33, College St., Calcutta 12.
Philips India Pvt. Ltd.—7, Justice Chandra Madhab Road, Calcutta.
Precision Instrument Corpn. (India) Pvt. Ltd.—46, Dharamtolla Street, Calcutta 13.
Radio Lamp Works Ltd.—10, Ganesh Ch. Avenue, Calcutta 10.

S. K. BISWAS & CO.—137, Bipin Behary Ganguly Street, Kolay Buildings, Calcutta 12. Scientific and Surgical apparatus and Instruments Manufacturers.

Scientific & Surgical Equipment Pvt. Ltd.—112, Chittaranjan Avenue, Calcutta 7.
Scientific Apparatus Mfg. Co. Ltd.—4, Rashmoni Bazar Road, Calcutta 10.
Scientific Glass Apparatus Co.—5A, Prasanna Kumar Tagore St., Calcutta 6.
Scientific Glass Apparatus Mfg. Co.—11-2, Hari Nath Dey Road, Calcutta 9.
Scientific Instrument Co. Ltd.—11, Esplanade East, Calcutta.

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SCIENTIFIC INSTRUMENT MANUFACTURING CO.—(SIMCO), Scientific and Surgical apparatus Manufacturers and Dealers. 3, Sastitala Road, Narkeldanga, Calcutta 11. Grams: "METERHOME," Calcutta. Phone : 35-4482.

Scientific Miscellany Co.—15, Convent Road, Calcutta 14.
Scientific Supplies (Bengal) Co.—Town Office, C-37 & 38, College St. Market, Calcutta 12.
Siemens Engg. & Mfg. Co. of (India) Ltd.—24, Chittaranjan Avenue, Calcutta.
Sircar S. & Co. Ltd.—Ezra Mansions, 10, Govt. Place East, Calcutta 1.
Uday Scientific Industries.—5, Bhabanath Sen St., Calcutta 4.

SCREW MANUFACTURERS

A. M. Mullick & Co.—84-A, Netaji Subhas Road, Calcutta 1.
Capstan Wire Products Pvt. Ltd.—34, Netaji Subhas Road, Calcutta 1.
Jugal Kishore Karmoker & Bros.—12, Jadu Pandit Road, Beadon Street, Calcutta 6.
Modern Engineering Works.—12, Jadu Pandit Road, Beadon Street, Calcutta 6.
Steel & Allied Products.—Mukherji House, 17, Brabourne Road, Calcutta 1.

SEWING MACHINES

Bose & Co.—149/1, Dharamtalla Street, Calcutta.
Don Watson & Co. Pvt. Ltd.—19, British Indian St., Calcutta 1.
Hind Sewing Machines Ltd.—14, Sircar Lane, Calcutta 7.

JAY ENGINEERING WORKS LTD.—183-A, Prince Anwar Shah Road, Calcutta 13. P.O. Box No. 2158, Calcutta. Phone: 46-2344 to 2348 (5 lines). Grams: "USHAKO," Calcutta. Manufacturers & Exporters of Usha Sewing Machines and Electric Fans; Sales and Service Centres throughout the World.

Lotus Industries.—322, Armenian St., Calcutta 1.
Singer Sewing Machine Co.—29, Waterloo St., Calcutta.

SEWING THREAD MANUFACTURERS

India Ball Thread Co. Pvt. Ltd.—85, Burtalla St., Calcutta 7.
Mohta Trading Co.—4, Tonsook Lane, Calcutta 7.
Oriental Tape Mfg. Co.—301, Grand Trunk Road, Sibpur, Howrah.
Standard Sewing Thread Co.—3, Portuguese Church St., Calcutta.
Twin Ball Mfg. Co.—27, Fakir Chand Chakravarty Lane, Calcutta.

SHUTTLES

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

SHALIMAR WOOD PRODUCTS PRIVATE LTD.—138, Canning Street, Calcutta. Manufacturers of Jute Mill Bobbins, Shuttles, Card Staves, Card/Gill Pins and other Wooden Accessories.

SILK FILATURES & MILLS

Calcutta Silk Mfg. Co. Ltd.—37, Vivekananda Road, Calcutta 7.
Calcutta Woollen & Silk Mills Ltd.—191, Harrison Road, Calcutta 7.
India Silk & Textiles Ltd.—3 & 4, Hare Street, Calcutta 1.
National Silk Mills.—32, Cross Street, Calcutta 7.
Provati Textile Mills.—Panihati, 24 Parganas Dist.
Silko Ltd.—80-B, Park Street, Calcutta 17.
Swadeshi Industries Ltd.—142-A, Jamunalal Bajaj Street, Calcutta 7.
Tollygunj Silk Products.—Tollygunj, Calcutta.

SMALL TOOLS

Alex Miller (Merchants) P. Ltd.—137, Canning Street, Calcutta 1.
A. Mohammed & Co.—26, Netaj Subhas Road, Calcutta 1.
Asiatic Mfg. Co.—71-A, Netaji Subhas Road, Calcutta 1.
A. S. Abdullabhoy & Co.—81, Netaji Subhas Road, Calcutta 1.
Basmall & Co. (I) Ltd.—56-D, Beadon Street, Calcutta 6.
Bengal Iron & Steel Works.—8, Canning Street, Calcutta 1.
Buher (Asbestos) P. Ltd.—12, Netaji Subhas Road, Calcutta 1.
Burn & Co. P. Ltd.—P-10, Mission Row Extn., Calcutta 1.
Calcutta Hardware Co.—8-A, Ramkrishna Das Lane, Calcutta 9.
D. H. Brothers P. Ltd.—138, Canning Street, Calcutta 1.
Dhakuria Engineering Works P. Ltd.—23-24, Strand Road, Calcutta 1.
Edward Miller & Co.—20, Strand Road, Calcutta 1.
Great Eastern Cutlery Works.—20, Strand Road, Calcutta 1.
Harrison Agency.—71-A, Netaji Subhas Road, Calcutta 1.
Hassanally & Sons.—50, Netaji Subhas Road, Calcutta 1.
Indestro (India) Agency.—38, Netaji Subhas Road, Calcutta 1.
Indian Tools Corporation.—353, Upper Chitpur Road, Calcutta 6.
Machine Tools (I) P. Ltd.—Wimet House, Russell St., Calcutta 16.
Samuel Osborn (I) P. Ltd.—24, Chittaranjan Avenue, Calcutta.
S. K. Dutt.—20, Strand Road, Calcutta 1.
Subol Dutt & Sons P. Ltd.—13, Brabourne Road, Calcutta 1.
Small Tool Mfg. Co. of India Ltd.—33-1-A, U. C. Banerjee Road, Calcutta 11.
S. Vanak & Co.—12-C, Clive Row, Calcutta 1.
William Jacks & Co. Ltd.—16, Netaji Subhas Road, Calcutta 1.

SOAP & TOILET MANUFACTURERS

Asiatic Soap Co.—8, Dalhousie Sqr. East, Calcutta.
Bangaluxmi Soap Works Ltd.—7, Chowringhee Road, Calcutta 13.
Bengal Chemical & Pharmaceutical Works Ltd.—6, Ganesh Chandra Avenue, Calcutta 13.

BHARAT STARCH & CHEMICALS LTD.—'Thapar House', 25, Brabourne Road, Calcutta. Manufacturers of Soap of all kinds and Glycerine.

Bihar & Orissa Soap Factory.—28, Raja Brojendra St., Calcutta 7.
Bharat Rabi Soap Works.—70-2-C, Gouribari Lane, Calcutta 4.
Bharat Starch & Chemicals Ltd.—5, Royal Exchange Place, Calcutta 1.
Calcutta Chemical Co. Ltd.—35, Panditia Road, Calcutta 29.
Calcutta Soap Works.—"Calso" Park, Calcutta 39.
City Soap Works (Pvt.) Ltd.—1, Motilal Bysack Garden Lane, Calcutta 11.
Depilatory Soap Factory.—33, Bosepara, South, Bagh Bazar, Calcutta 3.
Dey & Co., Ltd.—56, Netaji Subhas Road, Calcutta.
Dibakar Industries.—7, Bhuban Dhar Lane, Calcutta.
Golden Soap Factory Ltd.—15, Grand Trunk Road, Lillooah, Howrah.
Grihalakshmi Soap Works.—23, Free School St., Calcutta 16.
Hanuman Soap Factory.—Kishanganj.
Himani Pvt. Ltd.—3, Khelat Babu Lane, Calcutta 2.
Hindusthan Dev. Corpn. Ltd.—4, Chittaranjan Avenue, Calcutta 13.
Hindustan Lever Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta.
Howrah Soap Co., Ltd.—18, Netaji Subhas Road, Calcutta.
Howrah Soap Works.—63, Jai Narain Babu's Lane, Khurunt, Howrah.
Hutchison, J. & R. Ltd.—10, Clive Row, Calcutta.
Ihothas Trading Co.—13, Netaji Subhas Road, Calcutta.

INDUSTRIAL SOAP & CHEMICAL WORKS.—226, Bagmari Road, Calcutta 11. Manufacturers of Soft Soap, Jute Batching Soap, Liquid Soap & Disinfecting Fluid.

John Paterson & Co. (India) Ltd.—96, Garden Reach Road, Calcutta 23.
Kusum Products Ltd.—Bombay Mutual Bldgs., 9, Brabourne Road, Calcutta 1.
Major Soap Co. Ltd.—25, Zakaria St., Calcutta.
Mira Chemical Industries Ltd.—11-A, Prince Anwar Shah Road, Tollygunge, Calcutta 33.
Model Soap Co.—Mehta Bldg., 55, Canning Street, Calcutta.
New Bombay Soap Factory.—245/1, Manicktolla Main Road, Calcutta 11.
Nawab Soap Co.—297/1, Upper Circular Road, Calcutta.
Parijat Soap Works.—47-1, Hazra Road, Calcutta 26.
Salim Soap Co.—17, Pollock St., Calcutta.
Shine Bright Soap & Chemical Works.—6, Uttam Ghosh Lane, Salkia, Howrah.
Shree Durga Soap Factory.—P.O. Barakar, Burdwan.
Shree Kalyanisheree Soap Factory.—P.O. Barakar, Burdwan.
Sisir Soap Works.—12/1, Jessore Road, Dum Dum, 24 Parganas.
Standard Chemical Industries.—378, G.T. Road, North, P.O. Belur Math, Howrah.
Sun Rise Soap Factory.—Sreepul Bagan, P.O. Bhadrakali, Hooghly.
Swaika Oil Mills.—18/B, Brabourne Road, Calcutta 1.
Swaraj Perfumery & Soap Works.—237-P, Manicktolla Main Road, Calcutta 11.
Vegetable Soapery.—1, Rajkumar Chatterjee Road, P.O. Cossipore, Calcutta 2.

SOLE AGENTS & REPRESENTATIVES

FAIRFIELD SYNDICATE AGENCY (PRIVATE) LTD.—22, Bonfield Lane, Calcutta 1.

SPEED REDUCTION UNITS & GEAR MFRS.

NEW ALLENBERRY WORKS.—62, Hazara Road, Calcutta 19.

SPORTING AND ATHLETIC GOODS

B. Das Gupta & Co.—132-6, Cornwallis Street, Calcutta 4.
Basu & Sons.—153/3, Bowbazar Street, Calcutta 12.
Das Gupta & Brothers.—139-B, Cornwallis Street, Calcutta 4.

DIANA AGENCIES.—18-A, Chowringhee, Calcutta 13. Sole Distributors for Dunlop Sports goods in India and Ceylon.

Ghosh & Co.—9/B, Ramanatha Majumdar Street, Calcutta 9.

G. K. SPORTS.—30, Chowringhee Road, Calcutta 16.

Indian Rubber Manufacturers Ltd.—11 & 12, Esplanade Mansions, Calcutta 1.
Mercantile Agency Syndicate.—3/1, Chowringhee Square, Calcutta 13.
Sethia Brothers.—4, Chowringhee Centre, Calcutta 13.
Sharma Sports Co.—Lindsay Mansion, Lindsay St., Calcutta 16.
Uberoi Ltd.—22/1, Chowringhee Road, Calcutta 13.
United Trading Co.—2, Clock Tower, New Market, Calcutta 13.

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SPRING MANUFACTURERS

A.C.A. Spring Mfg. Co.—34, Dr. Jagobondhu Lane, Calcutta.
All India Eng. & Spring Mfg. Co.—2/1/1, Ram Moy Road, Bhowanipore, Calcutta.
All India Spring Mfg. Co.—135, Netaji Subhas Road, Calcutta.
All India Spring Mfg. Co.—22, Strand Road, Calcutta.
Army Engineering Corpn.—42, Strand Road, Calcutta.
Asia Spring Mfg. Co.—21-A, Canning Street, Calcutta 1.
Bharat Spring Mfg. Co.—115, Netaji Subhas Road, Calcutta.
British India Spring & Steel Co.—67-B, Netaji Subhas Road, Calcutta.
Calcutta Spring Mfg. Co.—71-A, Netaji Subhas Road, Calcutta.
Chicago Spring Mfg. Co.—71-1, Netaji Subhas Road, Calcutta.
Commercial Spring Mfg. Co.—1, Meerbahar Ghat Street, 1st Floor, Barabazar, Calcutta.
Coventry Spring & Engineering Co. (Pvt.) Ltd.—67-B, Netji Subhas Road, Calcutta.
Eastern Spring Mfg. Co.—10, Canning Street, Calcutta 1.
Hardson Spring & Steel Co. of India.—Baidyapur, Dist. Burdwan.
Harris & Co.—78, Netaji Subhas Road, Calcutta.
Henry Morgan & Co.—71-A, Netaji Subhas Road, Calcutta.
Indo-British Spring Mfg. Co.—28, Christopher Road, Calcutta 14.
Indo-Burma Spring Mfg. Co.—22, Strand Road, Calcutta.
Industrial Steel Works.—29, Strand Road, Calcutta.
Joy Narayan Spring Mfg. Co.—103, Howrah Road, Salkia, Howrah.
Mahabir Spring & Steel Co.—11, I.R. Belilios Lane, Howrah.
METROPOLITAN SPRING MANUFACTURING CO.—23, Strand Road, Calcutta.
Modern Engineering Works.—12, Jadupandit Road, Beadon St., Calcutta.
New Dominion Eng. Works.—1/B, Pottery Road, Calcutta 15.
Oriental Spring Mfg. Co.—8, Sil Lane, Calcutta 15.
Pols Spring & Steel Co.—111-B, Netaji Subhas Road, Calcutta.
Regular Spring Mfg. Co.—113-G, Netaji Subhas Road, Calcutta.
Reliance Spring & Steel Co.—15A, Pottery Road, Calcutta 15.
Samson Spring & Engineering Co.—62, Panchanatolla Road, Howrah.
Sheffield Spring & Steel Co.—135, Canning St., Calcutta.
Spring Mfg. Co.—7C, Deb Lane, P.O. Entally, Calcutta 14.
Swami & Co.—40-1, Strand Road, Calcutta.
Swasti & Co.—5A, Clive Ghat Street, Calcutta.
Tapas Engineering Co.—19-8, Pottery Road, Calcutta 15.
Young Graduate & Co.—126-C, Dharamtala Street, Calcutta 13.

SPRING & SPRING-WASHERS

MODERN ENGINEERING WORKS.—12, Jadupandit Road, Calcutta 6. Manufacturers of Springs and Springwashers, Machine Screws; Dealers of Sugar Mill-Machinery & Stores and Cotton Mill Machinery & Stores.

STAINLESS STEEL

AMALGAMATED UNIVERSAL AGENCIES (Cal.).—2nd Floor, Block C-211, 71, Canning Street, Calcutta 1.
Ashok Metal Ind. Ltd.—157, Netaji Subhas Road, Calcutta.
Bombay Stainless Steel House.—P-37A, Kalkar St., Calcutta 7.
Chandra Industries (Pvt.) Ltd.—59, Cotton Street, Calcutta 7.
Corporated Engineers (I) Pvt. Ltd.—7, Chittaranjan Avenue, Calcutta 13.
H. C. Giddings Pvt. Ltd.—B-1, Hide Road, Kidderpore, Calcutta.
Krudd Industries Ltd.—20/21, Stephen House, Dalhousie Square East, Calcutta.

STARCH & CHEMICALS

BHARAT STARCH & CHEMICALS LTD.—"Thapar House," 25, Brabourne Road, Calcutta. Manufacturers of Starch, Thintrite, Dextrine, Cornflour, Maize oil and other By-Products.

STATIONERY & OFFICE EQUIPMENT MFRS. & SUPPLIERS

A. P. Manufacturing Co.—7, Khairu Lane, Calcutta 13.
Bengal Stationery Concern.—14/2, Old China Bazar Street, Calcutta.
Bharat Carbon & Ribbon Mfg. Co. Ltd.—543, Basantalal Saha Road, Calcutta 33.
Bharat (Sales) Ltd.—19, British India Street, Calcutta 1.
B. Motiram & Co.—B.-52/53, S. S. Hogg Market, Calcutta 13.
Bradma of India Ltd.—20/B, Park Street, Opp. Park Mansions, Calcutta 16.
Ciciko Office Machines Pvt. Ltd.—300, Bowbazar Street, Calcutta 12.
Continental Commercial Co. Ltd.—8/1, Dalhousie Square East, Calcutta.
Cosmo Equipment Co.—41/19A, Russa Road, Calcutta.
Eastern Industries Co.—9/4, Patuatola Lane, Calcutta 9.
F. N. Gooptu & Co.—12, Beliaghata Road, Calcutta 15.
G. Atherton & Co. Ltd.—4, Mission Row, Calcutta.
General Equipment Merchants Ltd.—9, Mission Row, Calcutta.
Gooool Chunder Dutt & Co.—1, Mission Row, Calcutta.
H. Mukherjee & Co.—14/2, Old China Bazar Street, Calcutta.
International Computers & Tabulators (India) Pvt. Ltd.—2 & 3, Clive Row, Calcutta 1.
Jayantilal & Co.—55/131, Canning Street, Calcutta.
J. B. Traders (India).—10, Princep Street, Calcutta 13.
J. Sur & Co.—3, Dalhousie Square East, Calcutta.
Kilburn & Co. Ltd.—4, Fairlie Place, Calcutta.
Kores (India) Ltd.—7, Canal Street, Calcutta 14.
Latham Abercrombie & Co. Pvt. Ltd.—30, Ganesh Chandra Avenue, Calcutta 13.
M. S. Ahmed & Co.—58/6, Canning Street, Calcutta.
National Cash Register Co.—4D, Dalhousie Square, Stephen House, Calcutta.
Nilmony Haldar & Co.—11, Chittaranjan Avenue, Calcutta 13.
Oriental Seal Wax Co.—31, Stephen House, Dalhousie Square East, Calcutta 1.
P. N. Ganeson & Sons.—P-35, India Exchange Place, Calcutta.
Pioneer Typewriter Co.—1, Netaji Subhas Road, Calcutta.
Pioneer Stationery House.—2/1, Old Court House Corner, Calcutta.
P. Sur & Co.—14/2, Old China Bazar Street, Calcutta.
Rapidol Industries Co.—24-E, Sura Third Lane, Calcutta 10.
Remington Rand of (India) Ltd.—3, Council House Street, Calcutta.
Roneo Ltd.—P-13, Mission Row Extn., Calcutta.
Shree Lakshmi Industries & Chemicals Ltd.—116/1/1, Harrison Road, Calcutta 7.
Standard Sales Agency.—27-B, Chittaranjan Avenue, Calcutta 13.
Standard Trading Co.—43, Ezra Street, Calcutta 1.
Sulekha Works Ltd.—Jadavpur, Calcutta 32.
Super Toilet & Chemical Co.—80, Cornwallis Street, Calcutta 6.
W. Newman & Co., Ltd.—3, Old Court House Street, Calcutta.

STEEL FURNITURE & FITTINGS

ACME MANUFACTURING CO.—"Jain House," 8/1, Esplanade East, Calcutta 1.
Anand Metal & Steel Works.—137, Canning Street, Calcutta.
Associated Steel Products Corpn.—23/24, Radhabazar Street, Calcutta 1.
Bengal Iron & Engg. Works.—39, Surendra Chandra Chatterji Lane, Salkia, Howrah Dist.
Bengal Iron & Steel Works.—8, Canning Street, Calcutta 1.
Bharat Sheet Metal Industries Ltd.—22, Beerpara Lane, Dum Dum, Calcutta.
Blackwoods India Ltd.—1, Taratolla Road, Calcutta.
Bungo Steel Furniture.—57, Diamond Harbour Road, Behala, Calcutta.
Cromelite (I) Pvt. Ltd.—P-35, India Exchange Place, Calcutta 1.
General Engg. Corpn. of India.—29, Shamnagar Road, Dum Dum, Calcutta.
Globe Agencies.—137, Canning Street, Calcutta 1.
Goodman & Co. I. Pvt. Ltd.—38, Netaji Subhas Road, Calcutta.
G. S. Agency.—88, Keshab Sen Street, Calcutta 9.
India Industrial Mission.—Cossipore, Calcutta 2.
India Metal & Steel Products.—21/1, Lalbazar St., Calcutta.
Indian Metal & Steel Products Ltd.—1, Ram Krishna Nasker Lane, Beliaghat, Calcutta.
Indian Stores Supplying Co.—137, Canning Street, Calcutta 1.
Jaiswal Industrial & Cutlery Mfg. (India) Ltd.—111-BT Road, Calcutta.
KEDARNATH PARSHOTAMDAS & CO. (PRIVATE) LTD.—37, Netaji Subhas Road, Calcutta 1. Manufacturers and Exporters of 'KP' Brand Conduit Pipes, 'Camel' Brand G.I. Buckets, 'Steelelite' Brand Steel Furniture.
Kem Engineering Works.—7, Convent Road, Calcutta 14.
Metropolitan Structural Works.—2-B, Satya Dr. Road, Kidderpore, Calcutta.
Raja Industrial Corpn., Pvt. Ltd.—No. 1, 7, Murlidhar Lane, Calcutta 7, No. 2, Madhab Ghose Road, Salkia, Howrah.
Rassco Mfg. & Supplying Agency.—30, Wellington Street, Calcutta 12.
RAYMAS CORPORATION PRIVATE LTD.—12, Chowringhee Square, Calcutta 1.
S. C. Karmarker & Co.—741, Hazra Road, Ballygunge, Calcutta.
Shankar Engineering Works.—52/1, Dr. A. Bani Datt Road, Howrah.
Shree Bajrang Electric & Steel Co., Ltd.—1, Kali Mazumdar Road, Howrah.
Shree Laxmi Iron & Steel.—12/13, Chakpara Road, Lillooah, Howrah.
Steel Products Ltd.—96, Garden Reach Road, Kidderpore, Calcutta.
Sudsons Pvt. Ltd.—3, Esplanade East, Calcutta 1.
Victory Engineering Works.—40, Tangra Road, Calcutta 1.

STEEL IMPORTERS

Aminchand Payarelal.—135, Canning Street, Calcutta.
Bajoria Agency Pvt. Ltd.—174, Mahatma Gandhi Road, Calcutta.
Bengal Corpn. (Pvt.) Ltd.—14, Netaji Subhas Road, Calcutta.
B. R. Herman & Mohatta (I) Pvt. Ltd.—19, British Indian St., Calcutta.
Bharat Overseas (Pvt.) Ltd.—P.N.B. House, 18-B, Brabourne Rd., Calcutta.
Hope Brudhomme & Co. (Pvt.) Ltd.—7, Wellesley Place, Calcutta.
Industrial Importers (Pvt.) Ltd.—Stephen House, Calcutta 1.

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J. S. Cohen & Co.—6-A, Sudder Street, Calcutta.
Kalinga Tubes Co., Ltd.—33, Chittranjan Avenue, Calcutta.
Khandelwal Bros. (Pvt.) Ltd.—33, Netaji Subhas Road, Calcutta.
Khemchand Rajkumar.—33, Netaji Subhas Road, Calcutta.
Lakshminarayan Ramniwas.—18, Netaji Subhas Road, Calcutta.
Louis & Dreyfus & Co.—18-A, Brabourne Road, Calcutta.
Machino Techno (Sales) Pvt. Ltd.—33, Netaji Subhas Road, Calcutta.
Mahindra & Mahindra Ltd.—Hall & Anderson Bldg., Calcutta.
P. L. Bhatt & Co.—5, Clive Row, Calcutta.
Rallis India Ltd.—16, Rare Street, Calcutta.
Ramkrishna Kulwantrai.—33, Netaji Subhas Road, Calcutta.
Raymon & Co. (I) Pvt. Ltd.—2, Brabourne Road, Calcutta 1.
Seth Nanakchand Shadiram.—29, Strand Road, Calcutta.
Shree Krishna Pvt. Ltd.—20, Mangoe Lane, Calcutta.
Soorajmull Nagarmull.—8, Dalhousie Square, Calcutta.
Standard Stores & Agency Pvt. Ltd.—24, Chittaranjan Avenue, Calcutta.

STORES SUPPLY (INDIA) AGENCY.—5-A, Clive Ghat Street, Calcutta. Steel Importers, Stockists & Dealers of Tools & Alloy Special Steels to suit all Industries.

Surendra (Overseas) Pvt. Ltd.—135, Canning Street, Calcutta.
Thapar Industrial Corporation.—29-A, Chandra Nath Chatterji Street, Calcutta 25.
United Steel Co. (I) Pvt. Ltd.—P-13, Mission Row Extension, Calcutta.
Vasantrai Shantilal.—13, Narayan Prasad Babu Lane, Calcutta.
V. D. Swami & Co. Pvt. Ltd.—2, Mangoe Lane, Calcutta.

STEEL RE-ROLLING MILLS

AGARWAL HARDWARE WORKS PRIVATE LTD.—167, Chittaranjan Avenue, Calcutta 7. Re-rollers of Rounds, Flats, Squares, Angles, Hexagonals, Octagons, Cotton & Jute Bailing Hoops and other light Structurals.

Bengal Rolling Mills Ltd.—67/B, Netaji Subhas Road, Calcutta.
Bhartia Electric Steel Co., Ltd.—4, Old Court House Street, Calcutta.
Bhartia Steel & Engineering Co. Pvt. Ltd.—61, Keshab Sen Street, Calcutta.
Bombay Steel Rolling Mills Ltd.—33, Netaji Subhas Road, Calcutta.
British India Rolling Mills.—1, Janaki Dass Lane, Calcutta 7.
Calcutta Iron, Steel & Non-Ferrous Metal Works.—22, Canning St., Calcutta.
Calcutta Steel Co. Ltd.—4, Old Court House Street, Calcutta.
Chaliha Rolling Mills.—5, Mission Row, Calcutta.
Dass Steel Industries of India.—19, Maharshi Devendra Road, Calcutta 7.
Guest, Keen Williams Ltd.—41, Chowringhee Road, Calcutta.
Hindusthan Iron & Steel Co.—8, Rajendra Deb Road, Calcutta.
Indian Iron & Steel Co., Ltd.—12, Mission Row, Calcutta.
Lalchand Mahadeblal.—7, Hazarimull Shah Road, Salkia.
Lilooah Steel & Wire Co. Pvt. Ltd.—5, Muktaram Babu Street, Calcutta.
National Engineering Co. Ltd.—33, Netaji Subhas Road, Calcutta.

NATIONAL IRON & STEEL CO., LTD.—Stephen House, 4, Dalhousie Square, Calcutta 1.

National Rolling & Steel Ropes Ltd.—4, Stephen House, Calcutta.
Orient Iron & Steel Co. Pvt. Ltd.—2, Height Road, Lillooah, Howrah.
Rama Rolling Mills.—156, Manicktola Main Road, Calcutta.
Sanganeria Co. Pvt. Ltd.—9, Jagmohan Mullick Lane, Calcutta.

SHREE BAJRANG ELECTRIC STEEL CO. (PRIVATE) LTD.—9, Waterloo Street, Calcutta.

Shree Hanuman Steel Rolling Mills Co. Ltd.—8, Dalhousie Sqr. East, Calcutta.
Shree Laxmi Iron & Steel Works Pvt. Ltd.—P/16, Kalakar St., Calcutta.
Sri Durga Rolling Mills.—197/1, G.T. Road, Ghusuri, Howrah.
Steel Equipment & Construction Pvt. Ltd.—22, G.T. Road, Lillooah, Howrah.
Steel Rolling Mills of Bengal Ltd.—2, Maharshi Devendra Road, Calcutta.

STEEL ROLLING MILLS OF HINDUSTAN PRIVATE LTD.—135, Canning Street, Calcutta. Phone: 22-7695-98. Factory: Hide Road Extension, Kidderpore, Calcutta. Phone: 45-4427.

Sun Rolling Mills Pvt. Ltd.—8, Cornwallis Street, Calcutta.
Swadeshi Industries Ltd.—142-A, Jamunalal Bajaj Street, Calcutta 7.
United Rolling Mills Pvt. Ltd.—160, Girish Ghosh Road, P.O. Belur Math, Howrah.

STEEL WIRE ROPES

AMALGAMATED UNIVERSAL AGENCIES (Cal.).—2nd Floor, Block C-211, 71, Canning Street, Calcutta 1.

STEVEDORES

A. C. Roy & Co., Pvt. Ltd.—5, Mission Row, Calcutta.
Alex Millers Pvt. Ltd.—7, Old Court House Street, Calcutta 1.
Balailal Mookerjee & Co. Pvt. Ltd.—Wardley House, 25, Swallow Lane, Calcutta.
Banerjee & Chatterji Pvt. Ltd.—10/1, Elgin Road, Calcutta 20.
Baney Madhab Mookerjee & Co.—74, Bentinck Street, Calcutta.
B. Bose Pvt. Ltd.—43, Dharamtala Street, Calcutta.
Butterworth & Farmer.—14, Alipore Park Road, Alipore.
Calcutta Supply Agency.—8, Canning Street, Calcutta 1.
Chatterji & Hazra Pvt. Ltd.—37, Canning Street, Calcutta 1.
Chinoy Chablani & Co.—13, Brabourne Road, Calcutta 1.
Darabshaw B. Cursetjee's Sons Pvt. Ltd.—13, Brabourne Road, Calcutta 1.

E. C. BOSE & CO.—22, Strand Road, Calcutta 22.

H. M. Coria & Son Pvt. Ltd.—35, Chittaranjan Avenue, Calcutta 12.
J. N. Mukerjee & Co., Pvt. Ltd.—20, Strand Road, Calcutta.
Keshavlal P. Gorsia.—24, Strand Road, Calcutta.
M. Elias Pvt. Ltd.—18, Netaji Subhas Road, Calcutta.
Nareshnath Mookerjee.—6, Clive Row, Calcutta 1.
P. E. Davis & Co.—Mezzanine Floor, 18, Strand Road, Calcutta.
P. Mukherjee & Co.—19, Strand Road, Calcutta 1.
Santos Chandra Banerjee & Sons Pvt. Ltd.—7, Swallow Lane, Calcutta.
Sarat Chatterjee & Co., Pvt. Ltd.—3, Mangoe Lane, Calcutta.
Sen Mukherji & Co.—P-20, Radhabazar Street, Calcutta 1.
Sharma & Co.—8-2, Fern Road, Calcutta 19.
T. C. Chatterjee & Co.—10, Canning Street, Calcutta 1.
T. P. Roy Chouduri & Co. Pvt. Ltd.—4/B, Chowringhee Place, Calcutta 13.

SUGAR MILL MACHINERY

A. C. Roy.—41-1, Belilios Lane, Howrah.
Bengal Iron Works P. Ltd.—16-2, Chatterjee Para Lane, Howrah.
B. N. Panchal & Sons P. Ltd.—208, Belilios Road, Howrah.
East India Engineering & Agency Co.—63-1, Banaras Road, North Bantra, Howrah.
D. K. Das & Co. P. Ltd.—233, Belilios Road, Howrah.
Fakir Chand Dass Mistry & Sons P. Ltd.—143/44, Belilios Road, Howrah.
Howrah Engineering Concern P. Ltd.—19, Maharshi Debendra Road, Calcutta 6.
Howrah Iron & Steel Works P. Ltd.—90, Banaras Road, Salkia.
India Weighing Scales & Engineering Co. P. Ltd.—233, Belilios Road, Howrah.
J. N. Puri.—206, Belilios Road, Howrah.
K. C. Dass.—32, Natabar Paul Road, Howrah.
Luxmi Engineering Co. P. Ltd.—123, Narasingha Dutt Road, Howrah.

MODERN ENGINEERING WORKS.—12, Jadupandit Road, Calcutta 6. Manufacturers of Springs & Spring Washers and Machine Screws; Dealers of Sugar Mill Machinery & Stores and Cotton Mill Machinery & Stores.

Panchkori Ghosh & Sons P. Ltd.—166, Belilios Road, Howrah.
Senapati Brothers P. Ltd.—132, Belilios Road, Howrah.
Ultra Engineering Co.—172-8, Madhusudan Pal Choudhry Lane, Howrah.

SUGAR MILLS

Belsund Sugar Co. Ltd.—14, Netaji Subhas Road, Calcutta.
Bharat Sugar Mills Ltd.—8, India Exchange Place, Calcutta.
Deoria Baitalpur Sindhi Sugar Mills Ltd.—5, India Exchange Place, Calcutta.
Deoria Sugar Mills Ltd.—5, India Exchange Place, Calcutta.
Diamond Sugar Mills Ltd.—28, Stephen House, Calcutta.
Hanuman Sugar Mills Ltd.—178, Mahatma Gandhi Road, Calcutta.
Mohini Sugar Mills Ltd.—12, India Exchange Place, Calcutta.
Motipur Sugar Factory Pvt. Ltd.—2, Rajamohan Street, Calcutta.
New India Sugar Mills Ltd.—8, India Exchange Place, Calcutta.
New Savan Sugar & Gur Refining Co., Ltd.—12, India Exchange Place, Calcutta.
New Swadeshi Sugar Mills Ltd.—8, India Exchange Place, Calcutta.
North Bihar Sugar Mills Ltd.—India Exchange Bldgs., India Exchange Place, Calcutta.
Radha Krishna Sugar Mills Ltd.—138, Harrison Road, Calcutta.
Ramnugger Cane & Sugar Co. Ltd.—7, Wellesley Place, Calcutta.
Rohtas Industries Ltd.—11, Clive Row, Calcutta.
Ryam Sugar Co. Ltd.—H.O. India Exchange, Calcutta.
Samastipur Central Sugar Co. Ltd.—H.O. 6, Jadulal Mallick Road, Calcutta 6.
Sasa Musa Sugar Works Pvt. Ltd.—9/12, Lall Bazar Street, Calcutta.
Shankar Sugar Mills Ltd.—9, Brabourne Road, Calcutta.
Shree Anand Sugar Mills Ltd.—33, Netaji Subhas Road, Calcutta.
Sitalpore Sugar Works Ltd.—93A, Dharamtolla Street, Calcutta.
Sitaram Sugar Co. Ltd.—12, India Exchange Place, Calcutta.
South Bihar Sugar Mills Ltd.—2-3, Clive Row, Calcutta.
Sugauli Sugar Works Pvt. Ltd.—3 & 5, Rajmohan Street, Calcutta.
Upper Ganges Sugar Mills Ltd.—8, India Exchange Place, Calcutta 1.
Vishnu Sugar Mills Ltd.—21, Jatindra Mohon Avenue, Calcutta 5.

SURGICAL GOODS

Associated Rubber & Plastic Works.—55, Bentinck Street, Calcutta.
Bengal Waterproof Works Ltd.—32, Theatre Road, Calcutta.

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

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Bhattacharya Rubber Works Ltd.—174, Jessore Road, Dum Dum, Calcutta.
East India Rubber Works Ltd.—161, Chittaranjan Avenue, Calcutta.
Hindusthan Rubber Works Ltd.—14, Ballygunge Station Road, Calcutta.
Indotex Products.—Matri Mandir, Babuganj, Hooghly.

P. HEMATLAL & CO.—71, Canning Street, Room No. A-106, 1st Floor, Calcutta 1; Grams: "KEMICETINE"; Phone: 34-6870. Importers & Wholesale Dealers in Drugs—Medicines and Surgicals.

R.B.S. Rubber Mills Pvt. Ltd.—Lillooah, Howrah.
S.G.R. Industries Ltd.—10, The Mall, Dum Dum, Calcutta.

SURVEY DRAWING EQUIPMENTS

STANDARD TRADING CO.—43, Ezra Street, Calcutta 1.

TANNERIES AND LEATHER GOODS MANUFACTORIES

Basak P & Co.—9, Chidam Mody Lane, Calcutta 6.
Basak Sett & Co.—3, Abhoy Ghosh Lane, Calcutta.
Bata Shoe Co. Pvt. Ltd.—30, Theatre Road, Calcutta 16.
Brand S. B. & Co.—80, Pathuriaghat Street, Calcutta.
Chingsue Tannery.—P.O.B. No. 962, Calcutta.
Chowdhury & Sons.—18, Old China Bazar Street, Calcutta.
Cuthbertson & Harper (India) Ltd.—10, Govt. Place, Calcutta.
Dutt S. L. & Bros.—59, Netaji Subhas Road, Calcutta.

HIND TANNERY.—129, South Tangra Road, Calcutta 39.

HINDUSTHAN TANNERY.—129, South Tangra Road, Calcutta 39.

Ideal Leather Works.—40, Central Avenue, Calcutta 12.
Industrial Leather Co.—3-1, Indra Roy Road, Calcutta 25.
Industrial Leather & Rubber Works.—24, Strand Road, Calcutta.
Jubilee Tannery.—54-A, Tiljala Road, Calcutta 19.
Modern European Tannery.—10, Topsia Road, Calcutta 15.
Morrison & Cottle, Pvt. Ltd.—30-G, Chowringhee Road, Calcutta 16.
National Chamois Works Ltd.—6, Mangoe Lane, Calcutta.
National Tannery Co. Ltd.—Canal South Road, Calcutta 15.
Paulmukh's Stores & Agency, Co.—28, Strand Road, Calcutta.
Reliance Tanneries.—3, Mangoe Lane, 2nd Floor, Calcutta 1.
Young & Co.—44, Chittaranjan Avenue South, Calcutta 12.

TAPE & WEBBING MANUFACTURERS

ALLIED TRADING CORPORATION.—71-A, Netaji Subhas Road, Calcutta 1. Manufacturers of Cotton Tape, Spindle Tape, Listing, Newar, Linen Tape, Office Pink Tape, Umbrella Tape, Cycle Rim Tape, Jute Webbing, Electrical Tape, Flax Twine, Ropes, etc. Phone: 22-3263; Grams: "FITAGHAR."

Dey & Co.—1, Kulia Tangra 2nd Lane, Calcutta 15.
Oriental Tape Mfg. Co.—301, Grand Trunk Road, Sibpore, Howrah.
Oriental Trading Agency.—301, Grand Trunk Road, Sibpore, Howrah.

TAR PRODUCERS

Bararee Coke Co. Ltd.—4, Clive Row, Calcutta.
Burrakur Coal Co. Ltd.—Chartered Bank Buildings, Calcutta.
Indian Iron and Steel Co. Ltd.—12, Mission Row, Calcutta.
Lodna Colliery Co. (1920) Ltd.—6, Lyons Range, Calcutta.
Tata Iron & Steel Co. Ltd.—23-B, Netaji Subhas Road, Calcutta.

TARPAULIN MANUFACTURERS & DEALERS

A. N. Mukherjee Ltd.—10, Shamlal Street, Calcutta 4.

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

Chandi Charan Nayak Pvt. Ltd.—124-1, Bowbazar Street, Calcutta 12.
Dharma Das Sen.—115, Netaji Subhas Road, Calcutta.
Harley F. & Co.—5, Delhi Sarampore Road, Calcutta 14.
India Waterproofing Co.—60/2, Dharamtalla Street, Calcutta 13.
Kilburn & Co. Pvt. Ltd.—2, Fairlie Place, Calcutta 1.
Mukherji Pvt. Ltd., A. N.—10, Shamlal Street, Calcutta 4.
New India Mercantile Co. Pvt. Ltd.—8, India Exchange Place, Calcutta.
New India Proofing Co.—Calso Park, Tiljala, Calcutta 39.
Premier Canvas Co.—28, N. S. Bose Road, Calcutta.
Railway Supply Corpn. Pvt. Ltd.—P-31, Mission Row Extn., Calcutta.
Shew Prosad Bishnu Prosad.—11, Dinu Rakhit Lane, Calcutta 5.
Sircar Bros. Pvt. Ltd.—26-1, S. N. Roy Road, Calcutta 38.
Soobashah & Co.—12, Zakaria Street, Calcutta 1.
Tarachand Gupta & Co.—131, Cotton Street, Calcutta 7.
Textile Waste Co.—113G, Netaji Subhas Road, Calcutta.

TEA AGENCY HOUSES

Andrew Yule & Co. Ltd.—8, Clive Row, Calcutta 1.
Balmer Lawrie & Co. Ltd.—21, Netaji Subhas Road, Calcutta 1.
Brooke Bond Estates India Ltd.—2, Metcalfe Street, Calcutta 12.
Davenport & Co. Pvt. Ltd.—6, Church Lane, Calcutta 1.
Duncan Bros. & Co. Ltd.—31, Netaji Subhas Road, Calcutta 1.

GILLANDERS ARBUTHNOT & CO. LTD.—Post Box No. 174, Gillander House, Calcutta 1.

James Finlay & Co. Ltd.—2, Netaji Subhas Road, Calcutta 1.
James Warren & Co. Ltd.—31, Chowringhee Road, Calcutta 16.
Jardine Henderson Ltd.—4, Clive Row, Calcutta 1.
Kettlewell Bullen & Co. Ltd.—21, Strand Road, Calcutta 1.
Kilburn & Co. Pvt. Ltd.—4, Fairlie Place, Calcutta 1.
Macneill & Barry Ltd.—2, Fairlie Place, Calcutta 1.
McLeod & Co. Ltd.—3, Netaji Subhas Road, Calcutta 1.
Octavius Steel & Co. Ltd.—14, Old Court House Street, Calcutta 1.
Shaw Wallace & Co. Ltd.—4, Bankshall Street, Calcutta 1.
Williamson Magor & Co. Ltd.—4, Mangoe Lane, Calcutta 1.

TEA BROKERS & MERCHANTS

Carritt Moran & Co. Pvt. Ltd.—9, Mission Row, Calcutta.
Figgis, A. W., & Co., Private Ltd.—D-6, Gillander House, Calcutta 1
J. Thomas & Co. Pvt. Ltd.—8, Mission Row, Calcutta.
S. K. Chakravertty & Co.—8-A, Lall Bazar Street, Calcutta.
Sudhir Chatterjee & Co. Pvt. Ltd.—31, Mission Row Extn., Calcutta.
Tea Brokers Pvt. Ltd.—29, Ganesh Chandra Avenue, Calcutta.
W. S. Cresswell & Co. Pvt. Ltd.—3, Clive Row, Calcutta.

TEA CHEST FITTINGS MANUFACTURERS

Assam Metal Works.—35, Chittaranjan Avenue, Calcutta 12.
Assam Bengal Veneer Industries Pvt. Ltd.—9, Clive Row, Calcutta 1.
Assam Plywood Products.—76-A, Jatindra Mohan Avenue, Calcutta 5.

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

Beezee Industries.—72-5, Upper Circular Road, Calcutta 9.
Bengal Tea-chest Fittings Mfg. Pvt. Ltd.—180, Mahatma Gandhi Road, Calcutta 7.
B. S. & Co.—33, Brabourne Road, Calcutta 1.
Cassava (India).—122-D, Raja Dinendra Street, Calcutta 4.

HIND METAL INDUSTRIES.—86, Basantlal Saha Road, Calcutta 33. Manufacturers of quality Tea-chest Fittings and Tea Garden Stores.

Indian Tea Chest Company.—7, Sagar Dutt Lane, Calcutta 12.
Iron & Steel Mfg. Syndicate.—8, Eden Hospital Road, Calcutta 12.
N. C. Chakraborty.—34-A, Chetla Road, Calcutta 27.
National Trading Corpn.—12-A, Netaji Subhas Road, Calcutta 1.
Oriental Suppliers Syndicate.—36, Brabourne Road, Calcutta 1.
Rajasthan Metal Works.—4, Jagomohan Mullick Lane, Calcutta 7.
S. M. Ali Pvt. Ltd.—Post Box 2533, Calcutta 1.

S. P. AGARWALA & COMPANY.—161-1, Mahatma Gandhi Road, Calcutta 7.

Sk. Abed Ali, 9, McLeod Street, Calcutta 16.
Sk. Baker Ali & Company.—65, Phears Lane, Calcutta 12.
Star Fitting Works.—64, Pathuriaghata Street, Calcutta 6.
Venesta Foils Ltd.—Kamarhati (Dt. 24 Parganas).
Zeedoneil Industries (India) Pvt. Ltd.—20, Strand Road, Calcutta 1.

TEA MERCHANTS

A. Tosh & Sons.—P-32/33, Royal Exchange Place Extension, Calcutta.
Ajad Hind Tea Co.—28, Mechua Bazar Street, Calcutta.
B. K. Saha & Bros. Pvt. Ltd.—5, Pollock Street, Calcutta.
Barooahs & Associates Pvt. Ltd.—5, Mission Row, Calcutta.
Bhansali & Co.—56, Ezra Street, Calcutta.
Chandmull Batia.—7, Canning Street, Calcutta.
Chhaganlal Kasturchand.—16, Pollock Street, Calcutta.
D. C. Ghose & Co. (Agents) Ltd.—11, Govt. Place East, 1st Floor, Calcutta.
D. Dayalbhai & Co.—12-13, Amratolla Street, Calcutta.

DILAVERKHAN RAHIMKHAN CO. PRIVATE LTD.—12, Amratolla Lane, Calcutta.

Dwarkadas & Co.—37, Ezra Street, Calcutta.
Eastern Tea Co.—207-3, Mahatma Gandhi Road, Calcutta 7.
G. A. Randerian Ltd.—16, Ganesh Chandra Avenue, 5th Floor, Calcutta 13.
G. Ambalal (Export) Pvt. Ltd.—4, Mission Row Extension, Calcutta.
G. Patel & Co.—2, Brabourne Road, Calcutta.
Goenka & Sons.—25, Waterloo Street, Calcutta.
Gordhandas Laljl.—8, Parsee Church Street, 1st Floor, Calcutta.
Guganram Tarachand.—402, Upper Chitpur Road, Calcutta.
Hazara Singh Indersingh.—8, Amratolla Street, Calcutta 7.
Hindusthan Tea Sales Pvt. Ltd.—P-36, India Exchange Place Extn., Calcutta.
Hira Trading Co.—54, Ezra Street, Calcutta.
Indo-World Trading Co.—10, Armenian Street, Calcutta 1.
Ispahani Ltd.—51, Ezra Street, Calcutta.

JAMES FINLAY & CO., LTD.—2, Netaji Subhas Road, Calcutta 1.

Jamnadas Tribhovandas & Co.—46, Ezra Street, Calcutta.
Jayantilal Manilal & Co.—13, Pollock Street, Calcutta.

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Jayshree Tea & Industries Ltd.—India Exchange Place, Calcutta.
K. Harkishondas & Co.—7, Swallow Lane, R. No. 45-46, 1st Floor, Calcutta.
K. Shashikant & Co.—55, Canning Street, F. Block, Calcutta.
Kanoi (India) Pvt. Ltd.—P-8, Mission Row Extn., Calcutta.
Kesaria & Co.—19, Amratolla Street, Calcutta.
Keshowjee & Co.—3, Pollock Street, Calcutta.
Khandelwal Bros. Pvt. Ltd.—33, Netaji Subhas Road, Calcutta.
Krishna Tea Co.—72, Canning Street, Calcutta.
Krishna Trading Co.—14/2, Old China Bazar Street, R. No. 220-221, 3rd Floor, Calcutta.
Lokumal Lilaram & Co. Pvt. Ltd.—44-45, Ezra Street, Calcutta.
M. A. M. Kashani & Sons.—17, Mangoe Lane, Calcutta.
M. K. Sinha & Co.—22, Swallow Lane, 3rd Floor, Calcutta.

MADHAVLAL & CO.—11, Ezra Street, Calcutta.

Madhu Jayanti Pvt. Ltd.—13, Pollock Street, Calcutta 1.
Maganlal & Co.—2, Portuguese Church Street, Calcutta.
Mahavir & Co.—54, Ezra Street, Calcutta.
Majumdar Bros.—9, Clive Row, Calcutta.
Orphan Tea Co.—18, Raja Woodmunt Street, Calcutta.
Parmanand Deepchand Hinduja.—1, Motisil Street, Calcutta.

PARAS TEA CO.—32-B, Brabourne Road, Post Box No. 792, Calcutta 1.

PARSHOTAMDASS PURANCHAND.—68, Cotton Street, Calcutta 7.

Parsram Parumal & Co.—4, Ram Kumar Rakhit Lane, Calcutta.
Periwal Tea Co.—13, Narain Prasad Babu Lane, Calcutta.
Phoenix Tea Co.—12-B, Netaji Subhas Road, Calcutta.
Pioneer Agency.—167, Old China Bazar Street, Calcutta.
Power Farming Pvt. Ltd.—165, Lower Chitpur Road, Calcutta 1.
Pranjivan & Co.—14-2, Old China Bazar Street, R.No. 203, 3rd Floor, Calcutta.
Purushottam Umedbhai & Co.—55, Canning Street, G. Block, Calcutta.

RAJNIKANT & CO.—5, Bentinck Street, Calcutta. Tea & Jute Merchants, Commission Agents & Exporters.

Ramanand Kishanchand.—25, Burtolia Street, Calcutta.
S. O. Sanyal & Co. Pvt. Ltd.—11, British Indian Street, Calcutta.
Shivson Tea Trading Co.—5/2, Govind Dhar Lane, Calcutta.

SIEWERT & DHOLAKIA PRIVATE LTD.—P-35, India Exchange Place Extension, Calcutta.

South India Trading Co.—3, Ram Kumar Rakhit Lane, Ground Floor, Calcutta.
Srinath Bajaj.—178, Mahatma Gandhi Road, Calcutta 7.
Sureschchandra & Co.—10, Jackson Lane, Calcutta.
Suresh Kumar & Co.—14/2, Old China Bazar Street, Calcutta 1.
Tandon Brothers.—3, Sukhlal Jahuri Lane, Calcutta 7.
Tea Marketing Co. of India Pvt. Ltd.—161-1, Harrison Road, R. No. 55, Calcutta.

TEA GARDEN STORES

A. S. Abdullabhoy & Co.—81, Netaji Subhas Road, Calcutta 1.
Chandi Charan Nayak P. Ltd.—124/1, Bowbazar Street, Calcutta 12.
D. C. Auddy & Brothers.—30, Strand Road, Calcutta 1.
Dey Dhur & Co.—53, Netaji Subhas Road, Calcutta 1.
D. Wren & Co.—Wardley House, 25, Swallow Lane, Calcutta 1.
Eastern Economic Engineering Co.—24, Strand Road, Calcutta 1.
Ganguli & Co.—89, Netaji Subhas Road, Calcutta 1.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta 1.
Gupta Enterprise.—24, Brabourne Road, Calcutta 1.
Hind Enterprises.—4, Mission Row, Calcutta 1.
International Stores.—73, Netaji Subhas Road, Calcutta 1.
J. C. Condoo & Sons.—22, Raja Woodmunt Street, Calcutta 1.
J. H. Fenner & Co. (I) Ltd.—10/3-A, Mercantile Buildings, Calcutta 1.
Kartick Churn Dutt & Co.—134, Canning Street, Calcutta 1.
Kaybee & Co.—13, Brabourne Road, Calcutta 1.
M. Chowdhury & Co.—113-G, Netaji Subhas Road, Calcutta 1.
Morris Balfour & Co.—25, Netaji Subhas Road, Calcutta 1.
Mundra & Co.—8, Canning Street, Calcutta 1.
S. D. Garbis & Co.—83, Elliot Road, Calcutta 16.
S. P. Agarwala & Co.—161/1, Harrison Road, Calcutta.

STANDARD METAL CO.—101, Netaji Subhas Road, Calcutta 1.

Standard Stores & Agency P. Ltd.—34, Chittaranjan Avenue, Calcutta 12.
Tarachand Gupta & Co.—141, Cotton Street, Calcutta 7.
United Kerala Trading Corpn.—12/B, Netaji Subhas Road, Calcutta 1.
Water Supply Specialists P. Ltd.—Post Box 424, Calcutta 1.
Winsome Trading Co.—23/24, Radhabazar Street, Calcutta 1.

TEA MACHINERY

A. C. Roy.—41-1, Belilios Lane, Howrah.
Britannia Engineering Co. Ltd.—Titaghur.
British India Electric Construction Co. Ltd.—21, N.S. Road, Calcutta.
Corporated Engineers (India) Ltd.—7, Chittaranjan Avenue, Calcutta.
Goodman & Co.—44-1, Canal East Road, Manicktolla, Calcutta.
Howrah Iron & Steel Works P. Ltd.—90, Benaras Road, Salkia.
Lakshmi Narayan Engineering Works.—133, Belilios Road, Howrah.
Mathew & Co.—5, Kasi Nath Dutt Road, Barnagore, Calcutta 86.

TELEVISION & PUBLIC ADDRESS EQUIPMENTS

G. S. EMPORIUM (AGENCY) LTD.—9, Royal Exchange Place, P.O. Box 7813, Calcutta 1; Phone: 22-6367; Grams: "ENERGETIC."

TEXTILE ACCESSORIES

A. C. Roy.—41-1, Belilios Lane, Howrah.
Bharat Industries Corpn. Ltd.—88, Sambhu Halder Lane, Salkia, Howrah Dist.
Bharat Textiles Co.—176, Cross Street, Calcutta 7.
D. K. Dass & Co. Pvt. Ltd.—233, Belilios Road, Howrah.
Fakirchand Dass Mistry & Sons Pvt. Ltd.—143 & 144, Belilios Road, Howrah.
India Aluminium Products.—P-11, New Howrah Bridge Approach, Calcutta 1.
Indian Healds, Reeds & Hosiery Mfg. Co. Ltd.—42, Chowringhee Road, Calcutta.
Machine & Mill Stores Corpn. Pvt. Ltd.—68-D, Netaji Subhas Road, Calcutta 1.
McGregor & Balfore Ltd.—P.O. Box No. 379, Calcutta.
Mehta Mill Stores Co.—12, Netaji Subhas Road, Calcutta 1.
Mondal & Karar Co.—177-1, Belilios Road, Howrah.
New Bengal Engineering Works.—75, Belilios Road, Howrah.
N. R. Ghosh & Co. Ltd.—2, Canal East Road, Calcutta.
Orient Textile Engineers Ltd.—24, Netaji Subhas Road, Calcutta 1.
Paul's Engineering Co.—207, Belilios Road, Howrah; P-7, Natabar Pant Road, Dassnagar.
Rainbow Porcelain Works.—53-B, Baldeopara Road, Calcutta 6.

TEXTILE HUMIDIFICATION PLANT

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

TEXTILE MACHINERY MANUFACTURERS

Bharat Industries Corpn. Ltd.—88, Shambhu Halder Lane, Salkia.
New India Mercantile Co. Pvt. Ltd.—8, India Exchange Place, Calcutta 1.
Swastik Textile Trading Co. Pvt. Ltd.—23, Motilal Heerabhai Market, Calcutta.
Textile Machinery Corpn. Ltd.—8, India Exchange Place, Calcutta.

TEXTILE MOTORS

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

TIN BOX MANUFACTURERS

Associated Metal Industries of India Ltd.—16, Mangoe Lane, Calcutta 1.
Bengal Tin Box Mfg. Co. Pvt. Ltd.—13, Nather Bagan Street, Calcutta 5.
Calcutta Tin Factory.—14-2, Nirode Behary Mullick Road, Calcutta 6.
Containers & Closures Ltd.—2, Fairlie Place, Calcutta 1.
D. G. Industries Pvt. Ltd.—171, Prince Anwar Shah Road, Calcutta 33
Dhur Tin Factory.—1, Sarat Ch. Dur Road, Barnagore, Calcutta 36.
Ganga Tin Factory.—5, Raja Rajkissen Street, Calcutta 6.
Ganpatray Ramnarain & Co.—107-A, Raja Dinendra Street, Calcutta 6.
Hind Tin Industries.—6, Jadulal Mullick Road, Calcutta 7.
India Toy & Metal Works Pvt. Ltd.—1-C, Raja Kali Kissen Lane, Calcutta 5.

THE METAL BOX COMPANY OF INDIA LTD.—Head Office: Barlow House, 59C, Chowringhee Road, Calcutta 20, Sales Office at P 48 Hide Road Extension, Calcutta 27 and B2 Hide Road Extension, Calcutta 23. (Plastics Sales Office: 249 Worli Road, Worli, Bombay 18 and Elaiya Mudali Street, Tondiarpet, Madras 21. Hamilton House, Connaught Place, New Delhi. Calcutta No. 1 Factory: P 48, Hide Road Extension, Calcutta 27. Calcutta No. 2 Factory: B2 Hide Road, Kidderpore, Calcutta 23. Factories—at 249 Worli Road, Worli, Bombay 18, Elaiya Mudali Street, Tondiarpet, Madras 21, Faridabad, Punjab, Jeppo, Mangalore. Specialists in tin printing and the production of Open Top cans for processed foodstuffs: Plain and Lithographed General Line tinplate containers; Composites; Collapsible and Rigid tubes; Crown Corks, Screw Caps, R. S. Pilferproof and other closures; Industrial components, particularly deep stampings; Injection moulding; Plain and printed bags from Diothene, other heat-sealing films and laminates; Calendars, Advertising Showcards and Novelties; Trays, Insecticide Sprayers and other Hardware; Toys and components for toys. Manufacturers of Can Reforming and Bottle Closing Equipment. Agents for Bottling Equipment manufactured by Meyer Liquid Limited.

Metal Press Works Ltd.—3, Jagmohan Mullick Lane, Calcutta 7.
Metalwares & Printing Works.—243, Upper Circular Road, Calcutta 6.
Moitra Industries.—8/1A, Sarkar Byelane, Calcutta 7.
National Sheet & Metal Works Pvt. Ltd.—36-A, Sahitya Parishad Street, Calcutta 6.

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TINPLATE FABRICATORS

Balgopaldas Iron & Steel Co. Ltd.—5, Gopal Doctor Road, Kidderpore, Calcutta.
Bengal Tin Box Mfg. Co. Ltd.—1, Jadu Mitra Lane, Calcutta 4.
Calcutta Tin Factory.—14/2, Nirode Behary Mullick Road, Calcutta 6.
Colour Printing & Hollow Wares Ltd.—243, Upper Circular Road, Calcutta 6.

CONTAINERS & CLOSURES LTD.—2, Fairlie Place, Calcutta 1.

Containers (India) Pvt. Ltd.—18, G. C. Ghose Road, Calcutta 37.
Crown Cork Mfg. Co.—1, Umakanto Sen Lane, Calcutta 30.
D. G. Industries Pvt. Ltd.—171, Prince Anwarshah Road, Calcutta 33.
Gange Tin Factory.—5, Raja Rajkissen Street, Calcutta.
Hind Galvanising & Engineering Co. Pvt. Ltd.—11, Golo Road, Howrah.
Hind Tin Industries.—6, Jadulal Mullick Road, Calcutta 7.
Hindustan Metal Products Syndicate.—243, Upper Circular Road, Calcutta 6.
Kamala Engineering Works.—124, Barrackpore Trunk Road, Calcutta 35.
Kohinoor Mfg. Corpn. Pvt. Ltd.—5/1, Rosemare Lane, Howrah.
Metal Seamers & Printers Ltd.—81/3, Harish Chatterjee Street, Calcutta 25.
Metal & Tin Box Co. (I) Pvt. Ltd.—233, Gopal Lal Tagore Road, Baranagore, Calcutta 36.
Metalwares & Printing Works.—6, Jadulal Mullick Road, Calcutta 6.
Metro Engineering Works Ltd.—38-A, Kansari Pada Road, Calcutta 25.
M. L. Dey & Co.—9, in Har Cross 1st Lane, Calcutta 12.
National Alloy & Metal Works Ltd.—17, Nabin Chandra Das Lane, Baranagore, Calcutta 36.
National Sheet & Metal Works Ltd.—36-A, Sahitya Parishad Street, Calcutta.
Neo Metalo Pvt. Ltd.—234, Gopal Lal Tagore Road, Calcutta 36.
Sheet Metal Products.—34-B, Ratu Sarkar Lane, Calcutta 7.
Shyamnagar Tin Factory Pvt. Ltd.—62, Sree Nagendra Nath Road, Satgachi, Dum Dum, Calcutta.
Sree Gopal Tin Factory.—109-B, Raja Dinendra Street, Calcutta 4.
Tin Plate Co. of India Pvt. Ltd.—4, Bankshall Street, Calcutta.

TOBACCO DEALERS

Bengal Tobacco Supply Agency.—52/6, Strand Road, Calcutta 6.
Charu Ch. Guha.—51/3, Strand Road, Calcutta 7.
G. C. Das & Co.—51/3/1-B, Strand Road, Calcutta 7.
Guha & Co.—P-66/1, Strand Bank Road, Calcutta 6.
Harekrishna Tobacco Stores.—22, Armenian Street, Calcutta 1.
J. N. Samanta.—51/3, Strand Road, Calcutta 7.
M. M. A. T. Chowdhury.—67/44, Strand Road, Calcutta 6.
S. N. Hazra Ltd.—52/5, Strand Road, Calcutta 6.
S. N. Nundy Pvt. Ltd.—45-A, Addya Sradha Ghat Road, Calcutta.

TOY MANUFACTURERS & DEALERS

Bengal Toy Industries.—22, Canning Street, Calcutta 1.
Dey, G. C., & Co.—4, Raja Radha Kanta Deb Lane, Calcutta 5.
Eastern Toy Co.—14-2, Clive Row, Calcutta 1.
G. C. Dey & Co.—4, Raja Radha Kanta Deb Lane, Calcutta 5.
India Toy & Metal Works Ltd.—1-C, Raja Kali Kissen Lane, Calcutta 5.
India's Hobby Centre.—1-A, Russel Street, Calcutta 16.

PRADIP PLASTIC MOULDERS.—12-B, Lower Chupore Road, North Block, Calcutta 1; Importers, Exporters, Manufacturers, Diaries (Series), Calendars, Jars, Components, Utility Products, Advertising and Complimentary effects.

TRACTORS

Associated Exports Imports Corporation.—8-B, Lall Bazar Street, Calcutta 1.
Bharat Industries & Commercial Corpn.—Tower House, Chowringhee Sqr., Calcutta.
Gopal & Kumar.—14, Netaji Subhas Road, Calcutta 1.
Hind Enterprises.—4, Mission Row, Calcutta 1.
Jayems Engineering Co.—22, Brabourne Road, Calcutta.
Mechanical Engineering Co. Ltd.—25, Swallow Lane, Calcutta.
Marshall, Sons & Co. (India) Ltd.—33/1, Netaji Subhas Road (P.O. Box No. 22), Calcutta.

TRACTORS (INDIA) LTD.—1, Taratolla Road, Garden Reach, Calcutta 24.

United Provinces Commercial Corporation.—6, Ganesh Chandra Avenue, Calcutta 13.

TRADE MARK ATTORNEYS

T. P. DATTA & SONS.—1/1, Rupchand Mukherji Lane, Calcutta 25.

TRANSFORMERS

Associated Electrical Industries Mfg. Co. Ltd.—1, Taratolla Road, Garden Reach, Calcutta.
Electric Construction & Equipment Co. Ltd.—35, Chittaranjan Avenue, Calcutta.

ELVOC PRIVATE LTD.—36, Panditia Road, Calcutta 29.

General Electric Co. of India (Mfg.) Ltd.—58, Taratolla Road, Garden Reach, Calcutta.
Hindusthan Electric Co. Ltd.—184, J. N. Mukherjee Road, Salkia, P.O., Box No. 10, Howrah.
India Electric Works Ltd.—Diamond Harbour Road, Behala P.O., Calcutta.
Indian Electric Transformers Co.—28, Waterloo Street, Calcutta.
Radon House.—89, Kalighat Road, Calcutta 26.

TRAVEL AGENTS

Jeena & Co.—Great Eastern Hotel, 29, Waterloo Street, Calcutta 1.

ORIENT EXPRESS CO. PRIVATE LTD., THE.—Norton Buildings, 1 & 2 Old Court House Corner, Calcutta 1. Phones: 22-1911 & 22-1358. Grams: "OREXPRESCO".

TUBES AND FITTINGS

Commercial Import & Export Pvt. Ltd.—40, Strand Road, Calcutta 1.
Indian Tube Co. Ltd.—41, Chowringhee Road, Calcutta 16.
J. M. Sain & Sons.—110, College Street, Calcutta 12.
Kalinga Tubes Ltd.—33, Chittaranjan Avenue, Calcutta 12.

STEWARTS AND LLOYDS OF INDIA, PRIVATE LTD.—Supply and Installation of Fabricated Pipework of all sizes for Gas, Water, Steam and Compressed Air, etc., Casing for Tube-wells, Oil country goods, Coils for Refrigeration and other industrial uses; Tubular Structures for Buildings, Pipe Bridges and Trestles; Pallets, Stillages and Trolleys for Materials Handling. Head Office: 41, Chowringhee Road, Calcutta 16. Works: 39, Hide Road, Kidderpore, Calcutta 23.

TUBE WELLS

Basak & Co.—P. 9, Chidam Mody Lane, Calcutta 6.
Calcutta Constructors Pvt. Ltd.—34, Strand Road, Calcutta 1.
Commercial Import Export Pvt. Ltd.—40, Strand Road, Calcutta 1.
Economic Trading Co.—64, Bowbazar Street, Calcutta 12.
Imperial Tubewell Co.—161-1, Harrison Road, Calcutta 7.
India Water Supply Corporation.—203-1, Harrison Road, Calcutta 1.
Pioneer Tubewell Industries Pvt. Ltd.—7, Wellington Square, Calcutta 13.
S. D. M. Syndicate.—219, Bowbazar Street, Calcutta.

ULTRAMARINE BLUE

AMALGAMATED UNIVERSAL AGENCIES (CAL.).—2nd Floor, Block C-211, 71, Canning Street, Calcutta 1.

UMBRELLAS

Fairway Trading Co.—40-A, Armenian Street, Calcutta 1.
Keshrimull Kundanmull's Umbrella Factory.—17, Grand Trunk Road, Howrah.
Lilooah Engineering Industry.—Station Road, Lilooah P.O., Bally, Howrah Dist.
Mohendra Lal Dutt & Sons.—49-B, Harrison Road, Calcutta 9.
National Metal Industries Ltd.—1, Bagzala Road, Dum Dum, 24 Parganas.
Sheik Elahi Bux Engineering Works.—55, Dr. Abani Dutt Road, Salkia P.O., Howrah Dist.

UMBRELLA RIB MANUFACTURERS

Amar Industries.—243, Chittaranjan Avenue, Calcutta 6.
Atta's Iron Foundry.—171, Grand Trunk Road, Salkia, Howrah.
Baldeoram Saligram Pvt. Ltd.—61, Strand Road, Calcutta 1.
Calcutta Rib Mfg. Co.—74, Cross Street, Calcutta 7.
Hind Engineering Works.—20-4-1, Burra Shivtala Main Road Calcutta 38.
Kalyan Engineering Co.—33/1, Tiljala Road, Calcutta 17.

KESHRIMULL KUNDANMULL.—46, Strand Road, Calcutta 7.

Kothari Industries.—243, Chittaranjan Avenue, Calcutta 6.
Lillooah Engg. Industries.—2, Portuguese Church Street, Calcutta.
Madan Engg. Works.—2, Raj Woodmunt Street, Calcutta.
Navbharat Engg. Co.—13, Bethiadanga 1st Lane, Calcutta 39.

UTENSILS

Aluminimum Corpn. of India Ltd.—Jaykaynagar, Near Asansol.
Bharat Sheet Metal Industries Ltd.—22, Beerpara Lane, Calcutta.
Bishnupur Metal Corpn. Ltd.—14, G. T. Road, Belur, Howrah Dist.
Crown Aluminium Works.—G. T. Road, Belur, Howrah Dist.
Dhur Galvanizing Works.—92, Ultadanga Main Road, Calcutta.
Empire Soap & Aluminium Works.—33, Mahinath Poral Lane, Salkia P.O., Howrah Dist.
Jeetmull Jaichandlall.—Nandan Konon, Station Road, Lillooah, Howrah Dist.
Kamala Factory (1932).—13-3, Pathuria Ghat, Calcutta.
Sundsons Ltd.—29, Jessore Road, Calcutta.
Union Metal Works.—169, Andul Road, Howrah.

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VALUERS

DHARAM PAL CHADHA & SONS.—H.O. 3, Madan Street, Calcutta 13. Phone : 23-5318. Branch Office : F-20, Shankar Market, Connaught Circus, New Delhi. Phone : 47200.

V-BELTS

KAYBEE & CO.—13, Brabourne Road, Calcutta 1.

VANASPATI

Hindustan Development Corporation Ltd.—4, Chittaranjan Avenue, Calcutta.
Hindustan Lever Ltd.—Ilaco House, 1 & 3, Brabourne Road, Calcutta.
Kusum Products Ltd.—9, Brabourne Road, Calcutta 1.
Sisir Oil Industries Ltd.—Belgharia, 24 Pargaras Dist.
Snow White Food Products Co. Ltd.—18, Netaji Subhas Road, Calcutta.
Swaika Vanaspati Products Ltd.—18B, Brabourne Road, Calcutta.
United Vegetable Mfrs. Ltd.—24, Finlay Road, Rishra, Hooghly.
Vanaspati Factory, No. 1.—Station Road, Tollygunge, Calcutta.
Vegetable Products Ltd.—Belgharia, 24 Parganas Dist.

VEGETABLE OILS

A. BRADLEY & CO.—(Estd. 1918), 5, Hungerford Street, Calcutta 16. Phones : 44-2159, 44-5564.

VEGETABLE PRODUCTS MANUFACTURERS

Hindusthan Development Corpn. Ltd.—Hindusthan Bldgs., 4, Chittaranjan Avenue, Calcutta.
Hindustan Vegetable Products Ltd.—47, Zakaria Street, Calcutta 7.
Kusum Products Ltd.—9, Brabourne Road, Calcutta.
Sisir Oil Industries, Ltd.—Belgharia, 24 Pargaras.
Snow White Food Products Co. Ltd.—18, Netaji Subhas Road, Calcutta.
Swaika Vanaspati Products Ltd.—Pollock House, 18-B, Brabourne Road, Calcutta.
Tungabhadra Industries Ltd.—India Exchange, Royal Exchange Place, Calcutta 1.

VICE MANUFACTURERS

India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
Indian Supercraft Industries.—21-A, Canning Street, Calcutta 1.
International Mechanical & Electrical Works.—5, Braunfield Row, Alipur, Calcutta 27.
S. P. Guchait & Sons.—2, Madhusudan Pal Chowdhury Lane, Belilios Road, Howrah.
Subol Dutt & Sons P. Ltd.—13, Brabourne Road, Calcutta 1.
W. Leslie & Co.—B-5, Clive Buildings, N. Subhas Road, Calcutta 1.

WATCHES & CLOCKS IMPORTERS & DEALERS

LORENZO WATCH CO.—Importers & Wholesale Dealers in Watches and Time Pieces; P/36, Radha Bazar Street, Calcutta 1; Head Office : 54, Abdul Rehman Street, Bombay 3.

WATERPROOF PAPER

BANKA & SONS.—8, India Exchange Place, Calcutta 1.

WATER PURIFICATION & WATER TREATMENT MACHINERY

JEWELL FILTER CO. LTD.—28, Chittaranjan Avenue, Calcutta 12.

WATER WORKS ACCESSORIES

Annapurna Metal Works.—3, Ashu Biswas Road, Calcutta 25.
Bengal Machine Tool Works.—112, Narasingha Dutta Road, Howrah.
B. N. Pachal & Sons P. Ltd.—208, Belilios Road, Howrah.
East India Agency & Engineering Co.—63-1, Banaras Road, Howrah.
Industrial Engineering Works.—149, Belilios Road, Howrah.
J. N. Dass & Co.—167, Belilios Road, Howrah.
Reliance Engineering Works.—233, Belilios Road, Howrah.

WATER METERS

D. H. Brothers P. Ltd.—138, Canning Street, Calcutta 1.
Garg & Sons.—138, Canning Street, Calcutta 1.

WELDING SETS

Associated Electrical Industries (India) Private Ltd.—Crown House, 6, Mission Row, Calcutta 1.
Bosco—36, Strand Road, Calcutta 1.
H. C. Giddings Pvt. Ltd.—B-1, Hide Road, Kidderpore, Calcutta.
Hind Enterprises.—4, Mission Row, Calcutta 1.
Indian Oxygen Ltd.—48-1, Diamond Harbour Road, Calcutta 27.
Industrial Gases Ltd.—138, Canning Street, Calcutta 1.
J. N. Samanto & Co. Pvt. Ltd.—4/5, Grand Trunk Road, Howrah.
Philips India Ltd.—31, Chowringhee Road, Calcutta 16.

VISHWA BHARATI TRADING CO.—G.P.O. Box 2628, 94/1, Canning Street, Calcutta 1. Phone : 345693. H.O., 14, Kumpta Street, P.B. 1052, Ballard Estate, Bombay 1. Phones : 264555 and 263795. Grams : "VIBHACO." Manufacturers and Stockists of Electric & Gas Welding Sets, Welding Accessories, Electrodes and Gas Welding Rods, fluxes, Welding Transformers, Spot Welders, Soldering & Brazing Equipments and all metal mender's Requirements, Industrial Safety Equipments, Industrial goggles, gloves & Respirators, etc.

WEIGHING MACHINES & SCALES MANUFACTURERS

Avenue Weighing Scales Co.—135, Netaji Subhas Road, Howrah.
Asiatic Machinery Corpn. Pvt. Ltd.—10-1, Kailash Chandra Lane, Howrah.
Avery Co. of India Pvt. Ltd.—282, Waterloo Street, Calcutta 1.
Barnagore Scale Mfg. Co.—21, Bholanath Nath Street, Barnagore, Calcutta 36.
Bharat Weighing Scales and Engineering Syndicate.—75-1, Kala Chand Nundy Lane, Howrah.

BHARATI SCALES & ENGINEERING CO.—4-1, Haldarpara Lane, Howrah.

Bhupendra Das & Brothers.—84-A. Netaji Subhas Road, Calcutta 1.
Crown Weighing Scales Co.—76, Narasinha Dutta Road, Howrah.
D. Saroj & Co.—16, Biswas Nursery Lane, Calcutta 10.

DEY'S WEIGHING SCALES & ENGINEERING WORKS.—233, Belilios Road, Howrah.

Girish Chandra Ghosh.—58, Clive Street, Calcutta 7.
India Machinery Co. Ltd.—29, Strand Road, Calcutta 1.
India Weighing Scales & Engg. Co. Pvt. Ltd.—233, Belilios Road, Howrah.
K. P. Das & Co. Pvt. Ltd.—43, Circular Road, Howrah.
M. C. Dharma Engineering Works.—38, Kamarpara Lane, Barnagore, Calcutta 36.
Nagendra Nath Karmarkar Wooman Charan Karmarkar.—213, Mahatma Gandhi Road, Calcutta 7.
O. K. Weighers (I) Ltd.—15, Madhusudan Pal Chowdhury Lane, Howrah.
Satish Chandra Das & Co.—113, Khangrapatti Street, Calcutta 1.
W. B. Scales Co.—10, Kailash Ch. Chandra Lane, Santragachi, Howrah.

WINE, SPIRIT & BEER MERCHANTS

Calcutta Foreign Liquor Trading Co.—5, Dharamtolla Street, Calcutta.
Fairmacs Trading Co.—33, Bowbazar Street, Calcutta.
Grahams Trading Co. (India) Pvt. Ltd.—6, Lyons Range, Calcutta.
Great Eastern Stores Pvt. Ltd.—30, Chowringhee Road, Calcutta.
Herbertsons Pvt. Ltd.—5, Dalhousie Square, Calcutta.
M. C. Shaw.—125, Lower Circular Road, Calcutta.
Phipson & Co. Pvt. Ltd.—6, Old Court House Street, Calcutta.
Plummer Brothers & Co.—5-6, Fancy Lane, Calcutta.
R. D. & Sons Pvt. Ltd.—12, Hare Street, Calcutta.
Shaw Wallace & Co. Ltd.—4, Bankshall Street, Calcutta.
Spencer & Co. Ltd.—32, Chowringhee Road, Calcutta.
Turner Morrison & Co. Pvt. Ltd.—6, Lyons Range, Calcutta.

WIRE NAILS

HINDUSTAN INDUSTRIAL CO.—192, Jamunalal Bazaz Street, Calcutta 7.

WIRE NETTING

Bharat Wire Netting Factory.—113, Netaji Subhas Road, Calcutta 1.
Biswas & Sons, R.P.—1-11, Barwaritala Road, Belighata, Calcutta 10.
B. K. Naik & Bros. Ltd.—141, Netaji Subhas Road, Calcutta 1.
Gulraj Kedarnath.—180, Mahatma Gandhi Road, Calcutta 7.
Indian Steel & Wire Products Ltd.—7, Wellesley Place, Calcutta.
Indian Wire Netting Factory.—24, Sastitolla Road, Narcoldanga, Calcutta 11.
Indo-Commercial Stores.—77-1, Netaji Subhas Road, Calcutta 1.
International Wire Netting Stores.—62, Netaji Subhas Road, Calcutta 1.

JAIN WIRE NETTING STORES.—62, Netaji Subhas Road, Calcutta 1. Phone : 33-1032. Grams : "TARJALI". Manufacturers of all kinds of Woven Wiremesh and Wire-netting, Chain link and Garden Fencing, etc.

Jeetmull Jaichandlall.—113, Netaji Subhas Road, Calcutta 1.
Jibon Krishna Dey & Brothers.—77, Netaji Subhas Road, Calcutta 1.
Kiran Wire-Netting Co.—18, Raja Woodmunt Street, Calcutta 1.
Naik & Co.—68-A, Netaji Subhas Road, Calcutta 1.
New Wire Netting Factory.—82, Netaji Subhas Road, Calcutta 1.

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R. P. BISWAS & SONS.—1/11, Barwaitala Road, Beliaghata, Calcutta 10. Pioneer Manufacturers of all sorts of Wire Nettings, Brass, Copper, Galvanised Iron Wove Wire Mesh, Special Make for River Embankment, Brick Mattress Wire Nettings, Variety Sausages Wire Nettings & Double Knotted Woven Wire Fencing; Expanded Metal, Chainlinked or Interlinked Wire Nettings, etc. Phone: 24-1955. Grams: "URPSUNS."

WIRE PRODUCTS MANUFACTURERS & DEALERS

Bengal Sheet Metal Works.—26, Pollock Street, Calcutta.
Howrah Wire Industries.—55, Canning Street, Calcutta 1.
Indian Wire Nail Mfg. Co.—7-1-1, Benaras Road, Salkia, Howrah Dist.
Indian Woven Wire Manufacturing Co.—15, Sitala Tala Lane, Calcutta.
International Wire Netting Stores.—62, Netaji Subhas Road, Calcutta 1.
Jain Wire Netting Stores.—62, Netaji Subhas Road, Calcutta 1.
J. Dass & Co.—7-D, Gour Sunder Sett Lane, Calcutta.
Jeetmull Jaichandlall.—113, Netaji Subhas Road, Calcutta.
Machinery Manufacturers.—243, Chittaranjan Avenue, Calcutta 6.
Mathew & Co.—5, Kasinath Dutt Road, Barnagore, Calcutta 36.
M. C. Mowjee & Co.—46, Ezra Street, Calcutta.
National Rolling & Steel Ropes Ltd.—Shamnagar, 24 Parganas Dist.
NATIONAL SCREW AND WIRE PRODUCTS LTD.—51, Stephen House, 4, Dalhousie Square East, Calcutta 1.
NETTLEFOLDS OF INDIA LIMITED.—P-35, India Exchange Place Extension, Calcutta 1. Phone: 22-3361. Grams: "SCREWGAUGE", Calcutta.
Nippon Steel Products Ltd.—181-B, Chittaranjan Avenue, Calcutta.
Standard Brush & Bellows Works.—11, Dayal Banerjee Road, Sibpore, Howrah Dist.
Standard Metal Co.,—101, Netaji Subhas Road, Calcutta 1.
Ultra Engineering Co.—172-8, Madhusudan Pal Choudhary Lane, Howrah.
Variety Industrial Works.—1, Kundan Lane, Lillooah, Howrah.
W. Leslie & Co.—B-3, Gillander House, Netaji Subhas Road, Calcutta 1.

WOOD AND TEXTILE PRESERVATIVES

Ascu Wood Products.—26, Chowringhee, Calcutta 13.
Gladstone Lyall & Co. Ltd.—4, Fairlie Place, Calcutta.
Shalimar Tar Products Ltd.—6, Lyons Range, Calcutta 1.
Standard Paint Works Pvt. Ltd.—44, Beadon Row, Calcutta 6.

X-RAY & ELECTROMEDICAL TRADERS

Adair, Dutt & Co. (India) Pvt. Ltd.—5, Dalhousie Square East, P.B. No. 2009, Calcutta.
Associated Electrical Industries (India) Pvt. Ltd.—Crown House, 6, Mission Row, P.B. No. 271, Calcutta.
General Electric Co. of India Pvt. Ltd.—Magnet House, Chittaranjan Avenue, P.B. No. 2329, Calcutta.
Philips India Ltd.—'Philips House', 7, Justice Chandra Madhab Road, Calcutta.
Picker International Corporation.—15-1, Stephen House, Dalhousie Square East, G.P.O. B. No. 332, Calcutta.

YARN MERCHANTS

Anantapur Textiles Ltd.—58, Clive Street, Calcutta 7.
Arati Cotton Mills Ltd.—Dass Nagar, Howrah.
A. T. Roy, P. K. Roy.—89, Cross Street, Calcutta 7.
Bangodaya Cotton Mills Ltd.—176, Cross Street, Calcutta 7.
Bansidhar Nandalal.—197, Mahatma Gandhi Road, Calcutta 7.
Bengal Fine Spg. & Wvg. Mills Ltd.—7, Bow Bazar Street, Calcutta 12.
Bengal Nagpur Cotton Mills Ltd.—4, Lyons Range, Calcutta.
Beniprosad & Co.—14, Noormal Lohia Lane, Calcutta 7.
Bharat General Textile Industries Pvt. Ltd.—87, Dharamtalla Street, Calcutta 13.
Bhuban Mohan Saha & Sons.—176, Cross Street, Calcutta 1.
Birla Jute Mfg. Co. Ltd.—8, India Exchange Place, Calcutta.
Biswanath Paul.—13, Bonefield Lane, Calcutta.
Brijlall Purusottamdas.—89, Cross Street, Calcutta 7.
Calcutta Fast Colour Dye Works.—192, Cross Street, Calcutta 7.
Central Cotton Mills Ltd.—9, Brabourne Road, Calcutta.
Dhakeswari Cotton Mills Ltd.—41, Chowringhee Road, Calcutta 16.
Dharamchand Kesordeo.—89, Cross Street, Calcutta 7.
Dhirendra Nath Dey Niharan Chandra Paul.—123, Old China Bazar Street, Calcutta.
D. Maganlal & Co.—192, Cross Street, Calcutta 7.
Doongarsidas Jhajharia & Sons.—89, Cross Street, Calcutta 7.
Dwarkadas Mohanlal.—714, Mahatma Gandhi Road, Calcutta 7.
Dwarkesh & Co.—14, Noormall Lohia Lane, Calcutta 7.
East India Cotton Mfg. Co. Pvt. Ltd.—49-1-1, Cotton Street, Calcutta 7.
Gordhandas Madanlal.—178, Mahatma Gandhi Road, Calcutta 7.
Gouri Sankar Jalan.—178, Cross Street, Calcutta 7.
Harnathrai Binjraj.—95, Lower Chitpur Road, Calcutta 7.
Hiralal Ramkumar.—195-1, Mahatma Gandhi Road, Calcutta 7.
H. V. M. Haji Hasan Dada.—12, Amratolla Lane, Calcutta.
India Jute Co. Ltd.—16, Strand Road, Calcutta 1.
Jethabhai Khatau & Co.—13, Narainprosad Babu Lane, Calcutta 7.
Jiwandas & Co.—176, Cross Street, Calcutta 7.
Jyoti Weaving Factory.—P-11, New Howrah Bridge Approach Road, Calcutta.
Kanhaiyalal Sitaram.—10, Pagiyapatty, Calcutta 7.
Kantilal & Co.—9, India Exchange Place, Calcutta.
Kedarnath Ramratan.—89, Cross Street, Calcutta 7.
Keshavji & Co.—Krishna Kumar & Co.—5, Clive Row, Calcutta.
K. G. Industries Ltd.—10, Lalmadhab Mukherjee Lane, Calcutta 7.
Krishna Kumar & Co.—5, Clive Row, Calcutta.
K. M. Industries.—12, Noormal Lohia Lane, Calcutta 7.
K. V. R. M. Ramanathan Chetty.—34-A, Brabourne Road, Calcutta.
Luxmidas Purushottamdas.—73, Cross Street, Calcutta 7.
Luxminarayan Cotton Mills Ltd.—4-B, Garstin Place, Calcutta.
M. N. Dutta & Son.—113, Manahardas Katra, Calcutta.
Madan Gopal Hosiery.—156, Cross Street, Calcutta 7.
Mahaliram Bajaj & Co.—174, Mahatma Gandhi Road, Calcutta 7.
Mahadevia & Mohta.—8, Lyons Range (Top Floor), Calcutta.
Menkwa Stores.—208, Cross Street, Calcutta 7.
Mohanlal Ratanchand.—71, Cross Street, Calcutta 7.
N. K. Jhajharia & Co.—160, Cross Street, Calcutta 7.
Narendra Kristo Dey.—Netai Chandra Dey, 192, Cross Street, Calcutta 7.
New General Agent Pvt. Ltd.—9, Jagmohan Mallick Lane, Calcutta 7.
New Gujarat Cotton Mills Ltd.—9, Brabourne Road, Calcutta.
Orissa Textile Mills Ltd.—33, Chittaranjan Avenue, Calcutta 12.
Pannalal Ramkumar.—198, Cross Street, Calcutta 7.
Patel Ghanashyamdas & Co.—14, Noormal Lohia Lane, Calcutta.
Pratap Ch. Dey, Amiya Kr. Dey & Bros.—166, Mahatma Gandhi Road, Calcutta 7.
P. Vrajlall Dulabhdas & Co.—P-22, Brabourne Road, Calcutta.
Radha Charan Roy, Ashis Roy.—166, Mahatma Gandhi Road, Calcutta 7.
Radha Gobinda Ramchandra Saha.—214/216, Cross Street, Calcutta.
Radha Kanta Dass, Mandindra Kr. Dass.—178, Cross Street, Calcutta 7.
Rambilash Nandalal.—71, Cross Street, Calcutta 7.
Ramator Satyanarain.—192, Cross Street, Calcutta 7.
Ramchandra Magalchand.—48, Cross Street, Calcutta 7.
Ramdayal Paul.—192, Cross Street, Calcutta 7.
Ramji Das Shree Ram.—46, Upper Chitpur Road, Calcutta 7.
Ramnicklal Nandalal Bros.—192, Cross Street, Calcutta 7.
Ramniwas Brikjeshore.—14, Noormal Lohia Lane, Calcutta 7.
Sankalchand G. Shah & Co. Pvt. Ltd.—174, Mahatma Gandhi Road, Calcutta 7.
Shree Bhawani Cotton Mills Ltd.—8, Royal Exchange Place, Calcutta.
Shree Hanuman Cotton Mills Ltd.—46, Strand Road, Calcutta 7.
Shreelal Biswanath.—19, Amratolla Street, Calcutta 1.
Shree Ram Mills Ltd.—15, Noormal Lohia Lane, Calcutta 7.
Sk. Ar. K. Ar. Samsundaram Chettiar.—193, Mahatma Gandhi Road, Calcutta 7.
South India Corporation Pvt. Ltd.—18-C, Sukeas Lane, Calcutta.
Sunderdas Thackersey & Brothers.—4, Lucas Lane, Calcutta.
Textiles & Yarn Ltd.—113, Manahardas Katra, Calcutta 7.
Vasanjee Morarjee.—4-5, Noormal Lohia Lane, Calcutta 7.
Vasantrai Shantilal & Co.—13, Narain Prosad Babu Lane, Calcutta.
Vasanjee Tapun Madhawji & Co.—5-1, Portuguese Church Street, Calcutta.
Victoria Cotton Mills Ltd.—370, Upper Chitpur Road, Calcutta.
V. Jiwandas & Co.—218, Cross Street, Calcutta 7.
W. A. Beardsell & Co. Pvt. Ltd.—Block A, 3, Clive Buildings, Netaji Subhas Road, Calcutta.
West Bengal Weavers' Co-operative Marketing Society Ltd.—10, Wellington Street, Calcutta 2.
Yarn Syndicate Ltd.—7, Sambhunath Mullick Lane, Calcutta 7.

ZINC OXIDE MANUFACTURERS

Kamani Metallic Oxides Pvt. Ltd.—30, Ganesh Chandra Avenue, Calcutta.
Pigments & Chemical Industries Pvt. Ltd.—32, Armenian Street, Calcutta.
Pigments & Chemical Products.—10, Armenian Street, Calcutta.
WALDIES ZINC PIGMENTS PRIVATE LTD.—' Gillander House,' Calcutta. Manufacturers of Zinc Dust.

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PONDICHERRY STATE

Area: 186 sq. miles; Pop. 3·85 lakhs (Projected population as on March 1, 1960).

Capital: Pondicherry.

Chief Commissioner: S. K. Datta, I.C.S.

The State of Pondicherry consists of:

(1) On the Coromandel Coast: (*a*) Pondicherry, the capital, together with the adjoining territory, divided into 8 communes, (*b*) Karikal and the dependent districts divided into 6 communes;

(2) On the coast of Andhra: Yanam, with the dependent villages all forming one commune;

(3) On the Malabar Coast: Mahé with the adjoining territory forming a single commune.

De facto transfer of these former French possessions to India took place on November 1, 1954 following an agreement between the Government of India and the Government of France. The instrument of transfer was signed in Pondicherry on November 1, 1954 by Mr. Kewal Singh on behalf of India and Mr. Pierre Landy representing France.

A treaty for the *de jure* transfer to India of the French establishments was signed on 28th May, 1956 by Mr. Nehru, as Minister for External Affairs and the French Ambassador in India Count Ostrorog. The treaty is awaiting ratification by the French Assembly.

The first general elections after the *de facto* transfer were held in July 1955 on the basis of universal adult franchise for the 39 seats in the State Representative Assembly and 200 in the 16 Municipal Councils. On an average, more than 85 per cent of the voters voted.

The second general elections took place on August 10, 1959.

The Municipal Administration in the State is carried on by the Municipal Councils, one in each of the sixteen communes.

The State is directly administered by the Government of India on the pattern of a Union Territory, through a Chief Commissioner appointed by them and an advisory body called "the Conseil du Gouvernement" consisting of six elected Councillors. The Chief Commissioner is assisted in the day-to-day administration of the State by a Chief Secretary, five Secretaries and the Inspector-General of Police.

Chandernagore in West Bengal was the first French India possession to become *de jure* a part of the Indian Union after the treaty for its cession was signed in Paris in 1951 by the representatives of the two Governments. The Treaty was ratified by the French Assembly on April 11, 1952.

ECONOMY

Main Food Crops: Paddy, Ragi, Cumbu, Varagu, Thenai.

Main Cash Crops: Groundnut, Coconut, Gingelly, Chillies, Cotton, Tobacco and Pepper.

Total production of Food Crops (annual average): 32,000 Tons.

Production of individual food crops in tons during the agricultural year ending 30th June 1959: Rice 35,644; Ragi 3,096; Cumbu 1,499. Annual average of the other individual food crops: Varagu 357; Thenai 357.

Production of individual cash crops in tons (annual average): Groundnut 4,867; Gingelly 274.

	Acres
Total area of State	119,040
Total area (net) cultivated ..	80,247
Total area of wet land	53,440
Total area under Food Crops ..	89,884
Total area under Cash Crops ..	16,003
Net area irrigated	56,755

(By tanks and channels—15,103 acres, by Cauvery irrigation system—25,118 acres, rest—18,321).

Main large scale industries of State with location in brackets:

Anglo-French Textiles Ltd. (Pondicherry); Swadeshi Cotton Mills Ltd. (Pondicherry); Sri Barathi Mills S. A. (Pondicherry).

The cotton mills had about 2,113 looms and 84,484 spindles on 31st August 1960.

Main cottage industries and their annual production valued in Rs.:

Foundries (12,000), oil presses (30,000), toy making (5,000), Soap making (12,000), hand-made matches (3,00,000), aerated waters (7,00,000), oil mills (10,00,000), biscuit (3,00,000), hand looms (20,000), cashew (5,000).

Total number of workers in cottage industries: about 1,000.

Minimum wages are not fixed in any industry.

The average monthly earnings will be about Rs. 70.

About 200 houses have been built under the Industrial Housing Scheme.

The Central Government sanctioned an estimate of Rs. 5·4 lakhs for the construction of a Housing Colony; 200 houses have been constructed. The cost of each tenement comes to about Rs. 2,365. The Central Government have agreed to let the houses to the workers at a concessional rent of Rs. 7-8-0 per month per house.

An Industrial Housing (Allotment) Committee has been formed for the allotment of houses.

Total capacity of power plant installed in State: 4,500 kW.

Total effective capacity: 3,700 kW.

About 6,400 KVA of power is also purchased from the Mettur System of the Madras State.

During 1959-60 electricity generated and purchased was 187·85 lakhs of K.W.H.

Total road mileage: 302

Mileage of metalled roads: 158

Mileage of unmetalled roads: 144

Total mileage of railway: 22.

There are no waterways or aerodromes in the State.

The original outlay under the Second Five-Year Plan of Pondicherry was Rs. 476·5 lakhs. Of this amount, social services accounted for 45·4 per cent, irrigation and power 17·3 per cent, transport 14·5 per cent, agriculture and allied subjects 14·1 per cent, and village and small industries 4·2 per cent and miscellaneous 4·5 per cent. The expenditure (rounded off to the nearest lakh) incurred on them during the Second Five Year Plan was as follows: 1956-57 Rs. 42 lakhs; 1957-58 Rs. 50 lakhs; 1958-59 Rs. 73 lakhs; 1959-60 Rs. 86 lakhs. Proposals for the 1960-61 Plan amounted to Rs. 121·16 lakhs.

EDUCATION

Total number of Colleges: 2 (for boys and girls); Total number of students: 1,394 (boys 1,302; girls 92); Total number of teachers: 55 (men 50; women 5).

Total number of primary schools: 295 (for boys 262; for girls 33); Total number of students 30,700 (boys 23,700; girls 7,000); Total number of teachers: 802 (men 592; women 210).

Total Number of high schools: 33 (24 for boys and 9 for girls); Total number of students: 10,900 (boys 5,600; girls 5,300); Total number of teachers: 400 (Men 270; Women 130).

Total number of nursery schools: 27 (boys 18; girls 9); Total number of students: 1,230 (boys 720; girls 510); Total number of teachers: 27 (men 4; women 23).

Professional Colleges: One Medical College with 211 students as on Nov. 28, 1960.

Number of Teachers' Training Centre: 1. Number of trainees: 95 (31 women).

There is also a School for Arts and Crafts with 146 boys. A Research Institute is run by the French Government. Another institution for general education called the "Sri Aurobindo International Education Centre" is run by Sri Aurobindo Ashram and has 356 students (174 boys; 182 girls) studying in various classes. There are in it 160 teachers (63 women) from different countries.

Position in relation to co-operation as on 30th June 1960:

Total number of Co-operative Societies	126
Total membership	20,993
Total Working Capital ..	Rs. 79,35,000

PONDICHERRY

Area: 112 sq. miles (Survey of India); Population: 2·70 lakhs (as on March 1, 1960).

Pondicherry is the chief of the former French settlements in India and its capital is the seat of the Government. The town is an enclave in the district of South Arcot in Madras State, about 89 miles from Madras.

There is no harbour, but a new pier is under construction at a cost of about Rs. 38 lakhs, the old steel pier having corroded and given way due to the 1952 cyclone. Ships lie at a distance from the shore and contact with land is maintained by means of the usual *masula* boats peculiar to this part of South India.

Since November 1, 1954 sea customs have been introduced in Pondicherry and a new department has been created under a Collector of Customs, assisted by a Superintendent of Excise.

KARIKAL

Area: 62 sq. miles (Survey of India); Population: 86,000 (as on March 1,1960).

Karikal is an enclave in the Tanjore District, and consists of a single tract of territory stretching along the east coast between Tranquebar and Nagore. It is at a distance of 90 miles from Pondicherry. It covers an area of 62 sq. miles and is divided into 6 communes containing 110 villages. The establishment has a population of 70,541, according to the 1948 census. Karikal is the terminus of a line from Peralam on the Tanjore District Railway.

YANAM

Area: 8 sq. miles (Survey of India); Population: 7,000 (as on March 1, 1960).

The town is situated in the delta of the Godavari covering an area of 8 square miles and is an enclave of the District of East Godavari in Andhra State. The soil is fertile.

MAHE

Area: 4 sq. miles (Survey of India); Population: 22,000 (as on March 1, 1960).

The territory of Mahé on the west coast consists of the town of Mahé on the left bank of the river of the same name; and the isolated district of Naluthara on the right bank containing the 4 villages of Chambara, Chalakara, Palour and Pandaquel. It is an enclave in the District of Cannanore in Kerala State.

Pepper, coconuts and betelnuts are the major crops.

CHAMBER OF COMMERCE

Post Box No. 26, Karikal
(Pondicherry State.)

President: M. Ismail Maricar; *Vice-President*: A. M. Dawood Shah; *Hon. Secretary*: S. Vijayaraghavan; *Treasurer*: R. A. Ramaswamy Chettiar.

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INDIAN TERRITORY UNDER PORTUGUESE OCCUPATION

Area: 1,537 sq. miles; Pop.: 637,591 (1950 Census); Capital: Cidade de Goa (Panjim).

The Hindu population is estimated at 388,488 (60·9 per cent) and the Christian at 234,275 (36·8 per cent). There are 14,162 (2·2 per cent) Muslims and 666 (0·1 per cent) Europeans and Eurasians.

ADMINISTRATIVE OFFICIALS

Governor-General, Brigadier Vassalo e Silva, who is also Commander-in-Chief.

Military Commander, Brigadier Martins Loeitao.

Elected Members of the Governor's Council (Conselho do Governo), Miss Georgina Figueiredo, Bonifacio Miranda, Amadeu Prazeres da Costa, Prisonio Furtado, Rev. Father Castilho Noronha and P. Quenin.

The last two have been appointed Deputies in the Portuguese National Assembly of Lisbon. They represent Portuguese India.

Governor of Diu, Capt. Vasconcellos.

H. E. the Patriarch of East Indies, D. Jose Alvernaz.

Indian territory under Portuguese rule is made up of: Goa, Daman, Diu.

All the three territories are situated practically within the area covered by Maharashtra and Gujarat States. Goa is on the Konkan Coast; Daman lies on the Gujarat coast at the entrance to the Gulf of Cambay; and Diu is a tiny islet and along with the isolated spots, Gogola and Simbor lies on the southern fringe of the Kathiawad peninsula.

There are about 3,100 Indian nationals living in Goa (Dec. 1960).

The enclaves of Dadra and Nagar Haveli, which formed part of Daman, have been taken over by Goan nationalists who have set up their own administration.

Mr. K. G. Badlani, a senior I.A.S. officer, is now Administrator of these areas. He will be responsible to the Panchayat.

GOVERNMENT

The Governor-General is the head of the administration and is stationed in the capital Cidade de Goa formerly known as Nova-Goa and also Panjim.

Associated in the task of government is the *Conselho do Governo* possessing restricted legislative and advisory powers. The Governor-General is its *ex-officio* President.

Daman and Diu have each a District Governor.

The advent of Dr. Oliveira Salazar to power and the establishment of his *Estado Novo* led to increasing centralization in the administration of Portuguese India. All measures of importance are now initiated by and carry the sanction of the home government in Lisbon. The Governor's Council, *Conselho do Governo* which assists him, is shorn of what little legislative powers it formerly possessed. There are no elected municipalities and local boards in the villages. Each municipality is in charge of an administrative committee nominated by the Governor-General, who also appoints the presidents of all charitable and cultural associations in the country.

A stringent censorship controls the freedom of the press.

Freedom of association is likewise controlled.

COMMERCE AND INDUSTRIES

The chief agricultural products of Goa are rice, coconuts, cashew-nuts, betel-nuts, mangoes, and sugar-cane. Of these cashew-nuts, betel-nuts, coconuts and mangoes which were exported in considerable quantities to the Indian Union, have been banned by the Government of India. The rice grown is not sufficient for local consumption and lasts for only six months in a year. For the remaining six months rice is imported from Pakistan, Mozambique (Portuguese East Africa) and Burma. Other exports include copra, bamboos, salt, salt-fish and manganese and iron ore, the exports of which have enabled the Goa Government to earn foreign exchange, specially in dollars, enough to finance all its imports. The imports consist of rice, machinery, textiles and other manufactured goods.

The currency in Goa is now the 'escudo' which was introduced from January 1, 1959. Formerly it was the Portuguese "rupia" but now it has been changed to suit Portugal.

According to the new regulations in force one Portuguese "rupia" is worth six escudos. The Indian rupee is at a discount and 70 Portuguese "rupias" are equal to 100 Indian rupees. This is done unofficially by traders and exchange dealers.

There are no banks operating in Portuguese territory with the exception of the Banco Nacional Ultramarino which has offices in the major towns. No Indian bank can open branches in Goa as the Banco Nacional has a monopoly. The Indian Government in its turn compelled the Portuguese Bank to close its branch in Bombay because Indian banks were not allowed to do business in Goa.

The Life Insurance Corporation of India has opened a branch at Panjim. It receives premiums of those insured in Goa and pays out matured policies of those who have insured in Goa.

A railway line maintained and run by the Western India Portuguese Guaranteed Railway, once a subsidiary of the former Madras and Southern Mahratta Railway, joins the port of Mormugao with the junction of Londa on the Southern Railway. It fulfilled a very important role by providing an outlet to the sea for the products of this part of the Mahratta country.

The Southern Railway which administered the railways in Goa on behalf of the W.I.P.R. did not renew the contract at the end of Dec. 1955 with the result that Goa has now no rail link with India. But shuttle services inside Goa were maintained by Goan authorities with the help of Western India Railway (registered in London), whose contract was to end in December 1960.

The air service between Goa, Daman and Diu has been resumed after making adjustments in the route.

There is a bi-weekly air service between Marmugao and Karachi.

Mormugao, which is the chief port, is also geographically one of the major ports on the west coast of India and is open to ocean-going vessels of every size from all parts of the world. But, as we have mentioned, there is neither trade nor communication between India and the Portuguese-held territory. But ships from Japan, America and Europe call at Mormugao to take cargo of iron ore and manganese, which are the chief exports of Goa.

There is now no restriction in the matter of travel between India and Goa for Goan citizens. A traveller can take Rs. 50 into Goa or bring Rs. 50 with him. But restriction on trade continues. Indians have to take a visa from the Brazilian Embassy in Delhi for travel to Goa.

Restrictions on Goan citizens about travel between India and Goa were removed on April 3, 1958. Since then Goan emigrants in the Indian Union have been travelling to Goa *via* Majali, the Indian frontier, 10 miles from Karwar. Two additional routes have been opened, one at Lakhrkot (Vengurla) and the other at Anmode (two miles from Castle Rock). But the Portuguese Government have refused to co-operate with the Indian Government; so at present only the Majali route is operating.

The boycott of ships calling at Goa and other Portuguese settlements in India by the All-India Port and Dock Workers' Federation, which was temporarily lifted, was re-imposed in May 1960.

DAMAN

Daman in Gujarat has a total area of about 33 square miles and a population of some 21,000 inhabitants, mostly of Gujarati extraction.

There are some very interesting historical relics here such as the old fort and a few surviving churches reminiscent of the old times.

DIU

About 150 miles to the north-west of Daman lies the tiny islet of Diu off the southern coast of Kathiawad. It is a small town separated from the mainland by a narrow arm of the sea. Dependent on it and surrounded by the territory of Junagadh is the enclave of Gogola and also the island and fort of Pani Cota in the bay of Simbor.

Diu is reached from Bombay by the Western Railway *via* Viramgam and Delwada. Access by sea is easier and more rapid but there is no harbour. There is an excellent roadstead where ships can safely anchor in two fathoms of water.

Area: 413 sq. miles. The population is estimated at 19,731.

PRO-MERGER MOVEMENT

With the merger of French territory in India, the pro-merger movement in the Portuguese pockets was intensified by the people of Goa, Daman and Diu. The Portuguese Government adopted severe repressive measures to put down this agitation with the result that over 300 Goan Satyagrahis were arrested and put in Goa jails.

It is now reckoned that there is only one Indian prisoner in Goa jails.

The Goa Action Committee, which is composed of all Goan parties in Bombay, appointed an administrator, Dr. Antonio Furtado, to administer the liberated areas of Nagar Haveli and Dadra. The present administrator is Mr. K. G. Badlani, I.A.S. These enclaves are situated near Daman.

A Rs. 85-lakh development plan has been prepared for the 191-square-mile enclave of Nagar Haveli. Among the construction activities included in the plan are three bridges over the two rivers, costing Rs. 10 lakhs, 75 miles of roads, schools and village water system.

Handmade paper industry, catechu (Ratla used in pan) manufacture, tanneries and tile and brick factories, a public library and a maternity home have also been constructed. Over 3,000 students now attend schools, on which the administration spends about Rs. 88,000. Spinning and carpentry are taught in the schools.

A model cottage hospital, a veterinary dispensary and four dispensaries have started functioning.

In December 1956 Portugal filed a claim before the World Court at The Hague to a right of passage for both armed forces and officials from Daman on the west coast, which she still governs, to the two Portuguese enclaves. Portugal lost control of the 41,000 people of these two enclaves after a rising in 1954.

India contested the jurisdiction of the World Court.

The World Court, giving judgment in April 1960, ruled that India, in 1954, had not acted contrary to her obligations resulting from Portugal's right of passage over Indian territory between Portuguese enclaves. It ruled that Portugal did not have a right of passage for armed forces, armed police and arms and ammunition, but it gave Portugal the right of passage to her enclaves in India for private persons only.

The World Court also rejected the claim of Portugal that there was a historical transfer of sovereignty by the Marathas to the Portuguese.

The first elected Administrative-cum-Legislative Council of Dadra and Nagar Haveli unanimously voted on June 13, 1961, for merger with the Indian Union. The Government appointed Administrator told the Council that he had been authorised by the Government of India to inform it that it accepted the request for merger and that it would be administered Centrally. A Bill for merger of these areas was introduced in the Lok Sabha in August 1961. The Bill has already received the President's assent.

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STATES ADMINISTRATIVE PERSONNEL

ANDHRA

ADMINISTRATIVE PERSONNEL

Governor : Bhimsen Sachar.

Comptroller, Governor's Household, M. K. K. Gaznavi.

Aide-de-Camp : Captain Virendra Pratap.

Secretary to the Governor, B. N. Jayasimha, I.A.S.

Private Secretary to the Governor : P. Kelu Nair.

Ministers

Chief Minister in charge of General Administration Department, i.e. Political, Legislature, Services, Public Service Commission, Law & Order, Elections and Census, Accommodation Control, High Court Judges, District Judges (including District Courts and Additional District Courts), Anti-Corruption, Tribunals, All-India Services, Home, Police, Prohibition, Arms Act, Cinematograph, Passports, Large Scale Industries including Large Scale Industrial Co-operatives, Mines, Industrial Trust Fund, Stationery and Printing, Commerce, Housing, D. Sanjivayya.

Deputy Chief Minister in charge of Revenue, Registration and Stamps, Customs, Evacuee Property, Atiyat, Jagir Administration and Jagirdars : Debt Settlement Board and Land Reforms, K. V. Ranga Reddy.

Minister in charge of Buildings, Highways, Irrigation and Power, Public Gardens, City Water Works and Public Works Department Workshops, Relief and Rehabilitation, A. Satyanarayana Raju.

Minister in charge of Education and Transport, S. B. P. Pattabhirama Rao.

Minister in charge of Planning (including Bureau of Economics and Statistics), Panchayats and Zilla Parishads, Information and Publicity and Tourism, P. Ranga Reddi.

Minister in charge of Religious and Charitable Endowments (excluding Muslim Waqfs Board and Waqfs), and Co-operation, K. Chandramouli.

Minister in charge of Finance, Commercial Taxes, Law Courts, Law Officers and Prisons, K. Brahmananda Reddi.

Minister in charge of Municipal Admn., Fisheries and Animal Husbandry, M. Narasinga Rao.

Minister in charge of Health and Medical, P. V. G. Raju.

Minister in charge of Social Welfare, Salar Jung Estate Committee, and Muslims' Waqfs Board, and Muslim Waqfs, Smt. Masooma Begum.

Minister in charge of Agriculture, Food and Food Production, Marketing, Rural Indebtedness and Debt Relief Forests, Labour, N. Ramachandra Reddy.

Minister in charge of Small Scale and Cottage Industries including Small Scale Industrial Co-operatives and Excise, Konda Lakshman Bapuji.

Secretariat

Chief Secretary to Government, General Administration, M. P. Pai, I.C.S.

Secretary to Government, Revenue Department, C. Seshagiri Rao, I.A.S.

Secretary to Government, Home Department, V. Rajeswara Rao, I.A.S.

Secretary to Government, Finance Department, M. A. Abbasi, I.A.S.

Secretary to Government, Law Department, D. Suryanarayana Swamy.

Secretary to Government, Public Works Department, S. A. Quader, I.A.S.

Secretary to Government, Planning and Local Admn. Department, C. Narasimham, I.A.S.

Secretary to Government, Education Department, J. P. L. Gwynn, I.C.S.

Secretary to Government, Health, Housing & Municipal Administration Departments, L. N. Gupta, I.A.S.

Secretary to Government, Industries Department, P. M. Nayak, I.C.S.

Secretary to Government, Agriculture Department, I. J. Naidu, I.A.S.

Special Secretaries, Syed Asgar Hussain (*Education*), I. Ramachandar Rao (*Industries*).

Heads of Departments

Board of Revenue : K. M. Unnithan, I.C.S. (*First member*) ; S. A. Iyengar, I.C.S. (*Second member*) ; Vacant (*Third member*) ; M. T. Raju, Bar-at-Law, I.C.S. (*Fourth member*) ; Ramlal, I.A.S. (*Fifth member*) ; R. S. Krishnaswami, I.C.S. (*Secretary*) ; M. A. Hameed, I.A.S. (*Joint Secretary*) ; N. Varaswamy Naidu, B.A. (*Addl. Joint Secretary*).

Registrar of Co-operative Societies, G. Chandrasekharan.

Inspector-General of Stamps and Registration, G. Satyanarayana.

Director of Endowments and Joint Secretary, Board of Revenue, Trimbak Lal.

Commissioner, Hindu Religious and Charitable Endowments, P. Lakshmiah.

Director, Agriculture, D. Viswanatha Reddy.

Director of Animal Husbandry and Fisheries, P. M. N. Naidu.

Chief Conservator of Forests, Rai Daulat Rai.

Director of Controlled Commodities, Sayed Ahmed, I.A.S.

Director, Bureau of Economics and Statistics, Rangaramanujam.

Director of Public Instruction, Dr. N. Ramlal.

Director of Archaeology, N. Ramesan, I.A.S.

Director & I. C., Anil De, I.A.S.

Director, Central Records, Smt. S. B. Phatak.

Labour Commissioner, E. V. Rami Reddy.

Chief Inspector of Forests, A. Ramamurthy.

Director of Social and Tribal Welfare, Vacant.

Director, Women's Welfare, Kumari B. Shakuntaladevi.

Transport Commissioner and Chairman, State Transport Authority, S. Basavaraju, I.A.S.

Inspector-General of Prisons, S. M. Hasan.

Director of Medical Services, Major K. N. Rao, I.M.S.

Director of Public Health, Dr. C. R. Naidu.

Chief Engineer, Nagarjunasagar Dam Construction, Jaffer Ali.

Chief Engineer, Nagarjunasagar Canals, G. A. Narsimha Rao.

Irrigation Adviser to Govt., L. Venkatakrishna Ayyar.

Chief Engineer, General, J. C. Hardikar.

Chief Engineer (Highways), N. Durrani.

Chief Engineer (Buildings & Public Health), Bala Pershad.

Chief Engineer (Electricity Projects), S. A. Quader.

Director, Deptt. of Information & Public Relations, Narendra Luther, I.A.S.

Inspector-General of Police, A. K. K. Nambiyar, I.P.S.

Addl. Inspector-General of Police, Shivkumarlal, I.P.S.

Commissioner of Police, S. P. Pattur.

Director, Anti-Corruption Deptt., Vijayarangam, I.P.S.

HIGH COURT

(Hyderabad).

Chief Justice, Mr. Justice P. Chandra Reddy.

Judges, Mr. Justice K. Umamaheswaram ; Mr. Justice P. Satyanarayanaraju ; Mr. Justice N. D. Krishna Rao ; Mr. Justice Syed Qamar Hasan ; Mr. Justice Manohar Pershad ; Mr. Justice A. Srinivasachari ; Mr. Justice Pingle Jagan Mohan Reddy ; Mr. Justice P. Basi Reddy ; Mr. Justice N. Kumarayya ; Mr. Justice M. Seshachalapathi ; Mr. Justice C. Sanjeevarao Nayudu ; Mr. Justice Davaloor Munikanniah ; Mr. Justice G. Chandrasekhara Sastry ; Mr. Justice H. Anantanarayana Ayyar, Mr. Justice K. V. L. Narasimhan ; Mr. Justice Sharfuddin Ahmed.

Registrar, A. D. V. Reddy.

Advocate-General, D. Narasaraju.

Public Service Commission

Chairman, Gulam Hyder, I.A.S.

Members, W. Venkataswamy ; Y. Pitchi Reddy, I.A.S.

Secretary, P. Krishnaiah Naidu, B.A.

Dy. Secretary, T. Gopalakrishna Rao, B.A.

Commissioner of Income-Tax

Andhra Pradesh, Hyderabad.

Commissioner of Income-Tax, N. H. Naqvi, B.Sc.

Collector of Customs

Visakhapatnam.

Collector of Customs, S. Narayanan, M.A., B.L.

Collector of Central Excise

Post Box 15, Hyderabad 4.

Collector of Central Excise, B. Sen, M.Sc., I.R.S.

Dy. Collector of Central Excise, V. Parthasarathy, M.A., B.L., I.R.S.

ASSAM

ADMINISTRATIVE PERSONNEL

Governor

General S. M. Srinagesh.

Personal Staff

Private Secretary, T. S. Krishnamurti, M.A., B.Com.

Military Secretary, Lt.-Col. A. K. Mitra.

Council of Ministers

Bimalaprasad Chaliha, *Chief Minister :— Appointments, Political, Home including Secretariat, Administration, Relief & Rehabilitation, Minority Commission, Roads & Buildings Wing under the P.W.D., Tribal Areas and Welfare of other Backward Classes, Transport and Information and Publicity, Education, Co-ordination of all other Departments including Development and matters not specifically allotted to any Minister.*

F. A. Ahmed :—*Finance, Community Development including N.E.S. Blocks, Panchayat (formerly Rural Development & Panchayat), Local Self-Government and Law (formerly Judicial and Legislative).*

Rupnath Brahma :—*Medical (including Public Health), Printing & Stationery, Registration and Stamps.*

Kamakhya Prasad Tripathy :—*Planning & Development, Statistics, Labour, Town and Country Planning, Industries (including Cottage Industries) and Power (Electricity).*

Hareswar Das :—*Revenue, Forests and Excise.*

Mahendra Nath Hazarika :—*Sericulture and Weaving, Khadi & Village Industries Board, Social Welfare and Jails.*

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Moinul Haque Chaudhury:—*Agriculture, Pisciculture, Veterinary and Livestock, Supply including Consumer Goods and Textile, Trade and Commerce, Parliamentary Affairs, Co-operation and Flood Control and Irrigation Wing under the Public Works Department.*

Deputy Ministers

Girindra Nath Gogoi, *P.W.D. (R. & B.), Local Self Government.*

Biswadev Sarma, *Co-operatives, Labour and Political Sufferers.*

Radhika Ram Das, *Education.*

Parliamentary Secretaries

Lolit Kumar Doley.—*Forest, Tribal Areas & Welfare Backward Classes & Planning Development.*

Sai Sai Terang.—*Relief and Rehabilitation.*

Secretariat

Chief Secretary, A. N. Kidwai, I.C.S.

Addl. Chief Secretary, K. Balachandran, I.C.S.

Development Commissioner and Secretary (Ex-Officio), Planning and Development Department, S. C. Kagti, I.A.S.

Secretary, Finance Department, Rana K. D. N. Singh, I.A.S.

Secretary, Revenue and Forests Departments, R. S. Paramasivam, I.A.S.

Secretary, Labour, Transport, D. Das, I.A.S.

Secretary, Industries Departments, B. S. Sarao, I.A.S.

Secretary, Textile, Supply Departments, M. E. St. John Perry, I.A.S.

Secretary, Education Department, L. Sharma, I.A.S.

Secretary, L.S.G., Town and Country Planning, Medical Departments, S. M. Rahman, I.A.S.

Secretary, Agriculture, Veterinary, Pisciculture, Soil Conservation and Co-operation Departments, M. N. Phukan, I.A.S.

Secretary, Law Department, B. C. Barua, M.Sc., B.L.

Secretary (Ex-Officio), Tribal Areas Departments, R. B. Vaghaiwalla, I.C.S.

Secretary, P.W.D. (Roads and Buildings Wing), K. Barua, B.E.

Secretary, P.W.D. (Flood Control and Irrigation Wing), B. P. Changkakoti, B.E.

Heads of Departments

Commissioner of Plains Division, B. L. Sen, I.A.S.

Commissioner of Hills Division & Appeals, R. B. Vaghaiwalla, I.C.S.

Commissioner of Excise and Taxes, R. Z. Ahmed, I.A.S.

Commissioner of Labour, H. P. Duara, B.Com. (Leeds).

Director of Land Records and Surveys, S. M. L. Bhatnagar, I.A.S.

Director of Agriculture, Dr. S. R. Barooah.

Director of Industries, A. D. Adhikari.

Director of Rural Development (Ex-Officio), J. N. Das, I.A.S.

Director of Public Instruction, S. C. Rajkhowa, M.A.

Director of Health Services and Inspector General of Prisons, Dr. B. L. Chowdhury.

Director of Economics and Statistics, S. C. Sarma, M.Sc., M.A.

Director of Information & Publicity, I. P. Choudhury, M.A., B.T., B.L.

Director of Supply (Ex-Officio), M. E. St. John Perry, I.A.S.

Director of National Employment, H. Rahman.

Director of Animal Husbandry and Veterinary, M. I. Mallick, B.Sc., M.R.C.V.S.

Director of Housing, M. C. Chaudhury.

Registrar, Co-operative Societies, K. K. Phukan, I.A.S.

Conservator of Forests, M. C. Jacob, I.F.S.

Legal Remembrancer, B. C. Barua, M.Sc., LL.B., A.J.S.

Inspector General of Police, H. Hussain, I.P.

Chief Engineer, P.W.D. (Roads & Buildings Wing), K. Barua, B.E., M.C.P.

Chief Engineer, P.W.D. (Flood Control & Irrigation Wing), B. P. Changkakoti, B.E.

Chief Electrical Engineer, M. R. Sitaram.

Chairman, Electricity Board, B. C. Kapur, I.A.S.

Commissioner, State Transport, R. H. Shaw, I.A.S.

High Court

Chief Justice, Mr. Justice Holiram Deka, M.A., B.L.

Puisne Judges, Mr. Justice S. K. Dutta, B.A. (Cal.), B.Sc. (Lond.), Bar-at-Law, Mr. Justice Gopalji Mehrotra, B.A., LL.B.

Registrar, D. N. Hazarika, B.L.

Dy. Registrar, D. N. Choudhury, B.Sc., LL.B.

Asstt. Registrar, K. Bardoloi, B.L.

Law Officials

Advocate-General, S. M. Lahiri, M.A., B.L.

Public Service Commission

Chairman, A. N. Bhattacharjee, I.A.S.; *Member*, Mrs. Bonily Khongmen; *Secretary*, P. Goswami, B.A.

North-East Frontier Agency

Adviser to the Governor, N. K. Rustomji, I.C.S.

Adviser for Tribal Affairs, Dr. Verrier Elwin, D.Sc.

Advisers, A. K. Basu (*Financial*), Brig. D. M. Sen (Legal).

Commissioner, Lt.-Col. G. S. Puri.

Dy. Commissioner, R. H. M. D'Silva, I.F.A.S.

Inspector-General, Assam Rifles, Maj.-General A. S. Guraya.

NORTH-EAST FRONTIER RAILWAY

(Pandu.)

General Manager, Ratan Lall.

Dy. General Manager (Works), D. H. Nailer.

Chief Personnel Officer, M. A. Uthappa.

Dy. General Manager, Katihar, A. K. Gupta.

Chief Engineer, T. R. Vaccha.

Chief Traffic Superintendent, K. J. Chande.

Chief Mechanical Engineer, L. T. Madnani.

Financial Adviser and Chief Accounts Officer, A. S. Hamid.

Chief Medical Officer, S. L. Malhotra.

Controller of Stores, A. T. Mansukhani.

Chief Electrical Engineer, R. J. Batliwala.

Chief Signal and Tele-communication Engineer, V. U. Shenai.

Chief Engineer (Survey and Construction), B. C. Ganguly.

BIHAR

ADMINISTRATIVE PERSONNEL

Governor.

Dr. Zakir Hussain.

Personal Staff.

Secretary to Governor, Lt.-Col. C. S. Bhatnagar.

Aide-de-Camp, Captain S. K. Khosla.

Ministers

Chief Minister and Minister for Appointment & Political (excluding Information & Transport), Cabinet, Industries (including mines and mineral resources), Gram Panchayat and Labour, Pandit Binodanand Jha.

Major Irrigation, Power, River Valley Projects & Information, Dip Narayan Sinha.

Forest, Welfare, Public Works Department, Public Health Engineering Deptt. & Excise, Bhola Paswan.

Food, Supply, Health, Agriculture, Transport and Medium & Minor Irrigation, Bir Chand Patel.

Education & Local Self Government, Satyendra Narayan Sinha.

Law, Religious Trusts, Jails & Relief and Co-operation, Housing Animal Husbandry & Veterinary, Ram Prakash Lal.

Rehabilitation & Transport, Jabbar Hussein.

Jails, Religious Trusts & Law, Jafar Imam.

Dy. Ministers

Food, Relief & Rehabilitation, Revenue & Welfare, A. A. M. Noor.

General Administration, Political, Irrigation, Power, Transport & Labour, Kedar Pandey.

Finance, Law, Religious Trusts & Jails, Ambika Saran Singh.

Agriculture, Forest, Health & Excise, Chandrika Ram.

Co-operation, Housing, Animal Husbandry, Veterinary, Public Works Deptt. & Public Health Engineering, Deo Narayan Yadav.

Community Project, Gram Panchayat, Industries, Education & Local Self Government, Daroga Roy.

Information, L. N. Jha.

Revenue, Abdul Ghafoor.

Forest & Welfare, S. C. Dubid.

Industries, Kamaldeo Narain Singh.

Parliamentary Secretaries.

Community Projects, Smt. Prabhavati Gupta.

Finance, Smt. Manorama Pandey.

Gram Panchayat, L. S. Tyagi.

Health, Smt. Sumitra Devi.

Industries, Chandrasekhar Singh.

Education & L.S.G., H. N. Singh, Baidyanath Mehta, Baleshwar Ram.

P.W.D., J. P. Swatantra.

Law, Jail, D. L. Baitha.

Secretariat

Chief Secretary to Government, M. S. Rao, I.C.S.

Additional Chief Secretary, S. J. Majumdar, I.C.S.

Development Commissioner, T. P. Singh, I.C.S.

Secretary to Government, Finance Department, S. N. Dutta, I.A.S.

Secretary to Government, Revenue Department, K. K. Mitra, I.A.S.

Secretary to Government, Labour Department, R. S. Mandal, I.A.S.

Secretary to Government, P.W.D., Karam Singh, I.A.S.

Secretary to Government, Education Department, Swaran Singh, I.A.S.

Secretary to Government, Local Self-Government & Gram Panchayat Department, B. N. Basu, I.A.S.

Secretary to Government, Planning Department, S. N. Singh, I.A.S.

Secretary to Government, Community Projects Department, Satishchandra Mishra, I.A.S.

Secretary to the Government, Irrigation Department, P. C. Bhagat, I.A.S.

Secretary to Government, Law Department, B. P. Singh.

Secy. to Govt., Welfare Dept., V. P. Kashyap, I.A.S.

Secy. to Govt., Relief & Rehabilitation Dept., Mohan Choudhari, I.A.S.

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Secy. to Govt., Agriculture and Animal Husbandry Dept., H. N. Thakur, I.A.S.
Secy. to Govt., Industries Dept., B. N. Sinha, I.A.S.
Secy. to Govt., Co-operative Department, Ramachandra Sinha, I.A.S.
Secy. to Govt., Supply and Commerce Dept., R. P. Khanna, I.A.S.
Secretary, Bihar Legislative Council, S. C. Lall, Bar-at-Law.
Secretary, Bihar Legislative Assembly, Enayatur Rahman.
Secretary, Housing Dept., B. B. Srivastava, I.A.S.
Members, Board of Revenue, C. K. Raman, I.C.S., K. Raman, I.C.S.
Secretary, Board of Revenue, S. K. Sinha, I.A.S.

Public Service Commission
15, Bayley Road, Patna.
Chairman, K. S. V. Raman.
Members, B. M. K. Sinha, R. J. Sinha.
Secretary, John Lall.
Asstt. Secretary, R. K. Chaudhuri.
Admn. Officer, M. Prasad.
Statistical Officer, J. K. Prasad.

HEADS OF DEPARTMENTS

Chief Administrator, Kosi and Gandak Projects, T. P. Singh, I.C.S.
Chief Conservator of Forests, S. P. Sahi.
Chief Engineers, P.W.D., Y. K. Lal, B. K. Dubey.
Chief Engineers, Irrigation, Bansilal Singh, Chandilal Das.
Chief Inspector of Factories, Atma Nand Singh.
Commissioner of Labour, S. N. Pandey, I.A.S.
Director of Agriculture, B. P. Akhauri.
Director of Extension Services, B. N. Sinha.
Director of Animal Husbandry, Dr. S. K. Sen, B.Sc., M.R.C.V.S.
Inspector-General of Registration and Commissioner of Excise, Vacant.
Director of Industries, N. P. Sinha, I.A.S.
Director of Health Services, Dr. S. M. Hasan.
Director of Public Relations, K. P. Ojha.
Director of Public Instruction, Kalimuddin Ahmed.
Inspector-General of Police, S. P. Varma, I.P.
Inspector-General of Prisons, B. S. Mukherjee, I.A.S.
Registrar of Co-operative Societies, L. Dayal, I.A.S.
Director, National Employment Service, Ramanand Pandey.
Commissioner, Commercial Taxes, K. A. Ramsubranayan, I.A.S.
Chief Engineer, Public Health Engineering, D. N. Jha.
Chief Engineer, Irrigation (North), C. D. Mitra.
Chief Engineer, Electricity, John Kuriyan.
Dy. Director of Public Relations (Hqrs. & Press), Uma Nath.
Transport Commissioner, S. Q. Rizwi.
Cane Commissioner, Jitendra Prasad.
Director, Central Bureau of Economics and Statistics & Director of Agricultural Statistics, Rash Behari Lal, I.A.S.

HIGH COURT

Chief Justice, Mr. Justice V. Ramaswami, I.C.S.
Mr. Justice Khaleel Ahmad, Barrister-at-Law, *Puisne Judge.*
Mr. Justice Satish Chandra Misra, M.A., B.L., *Puisne Judge.*
Mr. Justice Rati Kant Choudhary, B.L., *Puisne Judge.*
Mr. Justice Kamla Sahai, Barrister-at-Law, *Puisne Judge.*
Mr. Justice Rajkishore Prasad, M.A., B.L., *Puisne Judge.*
Mr. Justice Kanhaiya Singh, M.A., B.L., *Puisne Judge.*
Mr. Justice Hemanta Kumar Choudhuri, M.A., B.L., *Puisne Judge.*
Mr. Justice Kameshwar Dayal, B.L., *Puisne Judge.*
Mr. Justice U. N. Sinha, Barrister-at-Law, *Puisne Judge.*
Mr. Justice Nand Lall Untwalia, B.L.
Mr. Justice Harihar Mahapatra, M.A., B.L.
Mr. Justice Tarkeswar Nath, B.A., B.L., *Puisne Judge.*
Mr. Justice Anant Singh, B.A., B.L.
Mr. Justice Shyamnandan Prasad Singh, M.A., B.L.
Mr. Justice Ramratna Singh, M.A., B.L., *Puisne Judge.*
Mr. Justice G. N. Prasad, B.A., B.L., *Puisne Judge.*
Sarju Prasad Singh, B.L., *Registrar.*
Chandrika Prasad Sinha, B.Sc., B.L., *Deputy Registrar.*
1st Asstt. Registrar, Mohammad Yahya, B.A., B.L.
2nd Asstt. Registrar, Vishwanath Mishra, B.A., B.L.
Commissioner for Oaths and Affidavits, R. K. P. Agarwal.

DELHI

ADMINISTRATIVE PERSONNEL

Chief Commissioner, Bhagwan Sahay
Chief Secretary, L. O. Joshi, I.A.S.
Financial Adviser cum Housing Commissioner, K. L. Rathi.
Development Commissioner, K. P. Singh, I.A.S.
Judicial Secretary, P. D. Sharma.
Finance Secretary, N. V. Venkataraman.
Deputy Commissioner, S. Banerjee, I.A.S.
Inspector-General of Police, P. L. Mehta, J.P., I.P.
Dy. Inspector General of Police, M. P. Singh, I.P.S.
Superintendent, Medical Services, Dr. A. S. Sen.
Director of Education, B. D. Bhatt.
Director of Industries and Labour, L. R. Parija, I.A.S.
Director of Public Relations, Ram Lal Varma.
District and Sessions Judge, Hans Raj Khanna.
Addl. District and Sessions Judges, Krishnamurthy (*Industrial Tribunal*), Gurbachan Singh, Jasmer Singh, S. C. Mittal, M. S. Gujral, D. R. Puri.
Director of Training and Employment, A. S. Lal.
Sales Tax Commissioner, V. R. Bapat.

Delhi Transport Undertaking, Municipal Corporation of Delhi, Scindia House, New Delhi.

General Manager (Transport), P. K. J. Menon, I.A.S.

Collector of Central Excise & Land Customs, New Delhi.

Collector of Central Excise and Land Customs, K. Narasinhan, I.R.S.
Assistant Collectors, M. L. Wadhawan, I.R.S. (*Customs*), C. Chidambaram, I.R.S. (*Tech.*).

GOVERNMENT OF INDIA TOURIST OFFICE
88, Janpath, New Delhi.

Director, D. J. D. Sehgal.
Asstt. Directors, Mrs. V. Charvat, Miss Kanta Thakur, R. K. Taxali.

Northern Railway
State Entry Road, New Delhi.

General Manager, P. H. Sarma.
Sr. Deputy General Manager, Anand Mohan.
Chief Security Officer, S. N. Aga.
Chief Personnel Officer, S. B. Zaheer.
Chief Operating Supdt., S. P. Lal.
Chief Commercial Supdt., Ranjit Singh.
Chief Engineer, Iqbal Singh.
Chief Engineer (Const.), K. C. Sood.
Chief Mechanical Engineer, P. N. Mathur.
Controller of Stores, H. L. Khanna.
Chief Signal & Tele-Com. Engineer, K. N. Kinra.
Chief Electrical Engineer, P. C. Bahree.
Chief Medical Officer, Dr. B. Lall.
F. A. & Chief Accounts Officer, T. S. Subramanian.
Chief Auditor, S. Ramier.
Public Relations Officer, G. D. Agnihotri.

GUJARAT

ADMINISTRATIVE PERSONNEL

Governor : Nawab Mehdi Nawaz Jung.
Secretary : Pardumansinhji, I.A.S.

Ministers

Chief Minister in charge of General Administration, Planning & Finance, Dr. Jivraj M. Mehta.
Minister for Home, Land, Information, Accommodation, Control and Ports, Rasiklal Parikh.
Minister for Co-operation, Sarvodaya, Cottage Industries, Community Projects, Panchayats, District Local Boards, Housing, Roads & Buildings, Irrigation and Labour, Ratubhai M. Adani.
Minister for Health, Fisheries, Printing Press, Civil Supplies, Municipalities, Road Transport, Industries, Electricity and Jails, Manekkal C. Shah.
Minister for Law, Justice, Education, Agriculture, Forests, Prohibition & Excise, Social Welfare and Rehabilitation, Hitendra K. Desai.

Deputy Ministers

Dy. Minister for Roads & Buildings, Housing and Ports, Minor Irrigation, Tubewells, Flood Control, Premjibhai B. Thakkar.
Dy. Minister for Co-operation, Sarvodaya, Community Projects & Cottage Industries, Jaswantlal S. Shah.
Dy. Minister for Road Transport, Industries and Electricity, Chhotubhai M. Patel.
Dy. Minister for Agriculture & Forests, Bahadurbhai K. Patel.
Dy. Minister for Finance & Labour, Maldeo M. Odedra.
Dy. Minister for Land, Accommodation, Control & Jails, Akbaralli A. Jasdenwalla.
Dy. Minister for Prohibition & Excise, Social Welfare & Rehabilitation, Smt. Urmilaben P. Bhatt.
Dy. Minister for Health and Fisheries, Smt. Kamlaben M. Patel.

Secretariat

Chief Secretary to Government, V. Isvaran, I.C.S.
Deputy Secretaries, N. D. Buch, I.A.S., G. C. Baveja, I.A.S., R. A. Patel.

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Secretary to Government, Finance Department, V. L. Gidwani, I.C.S.
Deputy Secretaries, S. K. Gangapadhyaya, I.A.S., R. H. Mehta.
Secretary to Government, Public Works Department, G. L. Sheth, I.C.S.
Chief Engineers, U. J. Bhatt (*Roads & Bldgs.*), N. D. Daftary (*Irrigation Projects*).
Deputy Secretaries, D. J. Mehta, M. M. Patel.
Secretary to Government, Education and Labour Department, M. Mabibuddin, I.A.S.
Deputy Secretaries, S. H. Varia, B. B. Brahmabhatt.
Secretary to Government, Legal and Industries Department, M. G. Monani, I.C.S.
Joint Secretary, A. S. Sarela.
Deputy Secretary, K. A. Parikh.
Secretary to Government, Rural Development Department, R. M. Desai, I.A.S.
Deputy Secretaries, H. H. Trivedi, I.A.S., T. M. Sheth, I.A.S.
Secretary to Government, Agriculture and Lands Department, L. R. Dalal, I.C.S.
Deputy Secretaries, R. C. Raval, I.A.S., M. E. Gangat, P. N. Ambegaokar.
Secretary to Government, Local Self Government and Public Health Department, J. G. Shah, I.A.S.
Deputy Secretary, I. B. Patel.

Principal Officials

Director of Agriculture and Animal Husbandry and Ex-Officio Milk Commissioner, Dr. M. D. Patel.
Director of Public Health, Dr. T. B. Patel.
Director of Medical Services and I. G. Prisons, Dr. M. J. Shah.
Registrar of Co-operative Societies and Director of Cottage Industries, V. R. Mehta, I.A.S.
Director of Education and Archives, M. D. Rajpal, I.A.S.
Director of Technical Education, T. A. Desai.
Chief Conservator of Forests, Hari Singh.
Commissioner of Labour and Employment Exchange, D. K. Badheka, I.A.S.
Collector of Sales Tax, S. M. Ghosh, I.A.S.
Director of Industries, Transport and Mining, C. B. Patel.
Director of Information and Examiner of Books and Periodicals, M. H. Shah.
Director of Printing and Stationery and Civil Supplies, B. A. Koreishi.
Inspector General of Police, J. D. Nagarwala, I.P.
Director of Prohibition and Social Welfare, R. B. Shukla, I.A.S.
Director of Fisheries, K. R. Srivatsa, I.A.S.
Director of Accounts and Treasuries, P. Y. Godbole, I.A. & A.S.
Director of Bureau of Economics and Statistics, V. V. Divatia.
Charity Commissioner, Custodian of Evacuee Property and Competent Officer, S. C. Bhatt.

Sales Tax Tribunal

President, Baxi; *Members*, R. C. Mehta and S. P. Parikh.

State Electricity Board

Chairman, H. M. Patel.
Members, R. P. Desai, K. Sethuraman, J. R. Modi, V. K. Kurien.

State Financial Corporation

Chairman, Amritlal Hargovind; A. Bhupani (*Mg. Director*), Ghanshyambhai Thacker, Navnit Shodan (*Directors*).

State Co-operative Housing Finance Society Ltd.

Board of Directors, Jayantilal Bhikhabhai (*Chairman*), Padurao B. Desai, Maganbhai R. Patel, Dr. Chhotabhai J. Patel, Gordhandas Chokhawalla, Chandrakant Chhotalal Mehta, Gulabbhai Sheth, Dhimanbhai Shah.

High Court

Chief Justice, K. T. Desai, B.A., LL.B.
Judges, Mr. Justice A. R. Bakshi, Mr. Justice N. M. Miabhoy, Mr. Justice J. M. Shelat, Mr. Justice V. B. Raju, Mr. Justice P. N. Bhagwati, Mr. Justice R. B. Mehta, Mr. Justice N. R. Mody (*Additional*).

HIMACHAL PRADESH

Headquarters, Simla 4.

ADMINISTRATIVE PERSONNEL

Lt. Governor, Bajrang Bahadur Singh Bhadri.
Chief Secretary and Financial Commissioner, Secretary, Appointment, Administration, Home, Revenue, Transport and Public Relations & Tourism Department, O. N. Misra, I.A.S.
Development Commissioner, Ex-Officio Secretary, Development, Industries, Animal Husbandry, Social Welfare, Panchayats and Agriculture, T. S. Negi.
Finance Secretary to Administration, and Secretary, Excise, Bishan Chandra.
Secretary, Judicial, Law, Evacuee Property, Relief and Rehabilitation and Local Self-Govt., Legal Remembrancer, Custodian of Evacuee Property and Chief Electoral Officer, K. B. Srivatava.
Secretary to Lt. Governor and Secy., Border, Mahabir Singh, I.A.S.
Ex-Officio Secretary, Civil Supplies and Co-operatives, also Registrar, Co-operatives, G. L. Garg.
Ex-Officio Secretary, Public Works Department and also Chief Engineer, P.W.D., J. Mukand.
Ex-Officio Secretary, Medical and Public Health, and also Director of Health Services and Inspector General of Prisons, Lt. Col. P. Chandra.
Ex-Officio Secretary, Forest and also Chief Conservator of Forests, V. P. Agarwal.
Ex-Officio Secretary, Education and also Director of Education, K. L. Sethi.
Ex-Officio Joint Secretary, Transport and General Manager, Himachal Govt. Transport, Suraj Singh.
Ex-Officio Joint Secretary, Revenue and Excise and Taxation Commissioner, Vyas Dev.
Ex-Officio Joint Secretary, Planning & Development and Deputy Development Commissioner & Director of Panchayats, Vidya Sagar Sharma.
Ex-Officio Joint Secretary, Agriculture and Animal Husbandry and Director of Agriculture Department, Dr. L. S. Negi.
Judicial Commissioner, C. B. Capoor.
Director of Panchayats and Registrar Co-operatives and Director of Civil Supplies, G. L. Gargava.
Director of Industries and Controller of Printing and Stationery, S. L. Kapoor.
Director of Social Welfare, Raghubir Singh.
Inspector General of Police, Inder Singh.
Director of Consolidation of Holdings and Land Records, Tulsi Ram.
Director of Economic & Statistics, K. N. Vali.
Director of Public Relations & Tourism, H. K. Mittoo.

DISTRICT ADMINISTRATION.

Deputy Commissioner, Mahasu District, P. K. Goyal.
Deputy Commissioner, Mandi, Hans Raj Mahajan.
Deputy Commissioner, Chamba, Basant Rai Jain.
Deputy Commissioner, Bilaspur, K. R. Chandel.
Deputy Commissioner, Sirmur District, Lakshman Dass.
Deputy Commissioner, Kinnaur, N. D. Dayal.

JAMMU AND KASHMIR

ADMINISTRATIVE PERSONNEL

Sadar-i-Riyasat

Sadar-i-Riyasat, Yuvaraj Karan Singh Ji.

MINISTERS

Prime Minister, Gen. Admn., Services, Cabinet Work, Civil Secretariat, Law & Order, Militia, Police, Civil Liaison, Comm. Development, Bakshi Ghulam Mohammed.
Industries and Commerce, S. L. Saraf.
Development, Shamas-ud-Din.
Revenue, Dina Nath Mahajan.
Health, Chunilal Kotwal.
Agriculture & Food, Assadullah Mir.
Education. G. M. Sadiq.
Finance, G. L. Dogra.
Irrigation and Power, Mir Qasim.
Transport & Supplies, G. M. Rajpouri.
Planning, D. P. Dhar.

MINISTERS OF STATE

Community Development, Abdul Gani Trali.
Ladakh Affairs, Kushak Bakulla.
Forest, Ghulam Nabi Wani Sogami.
Social Welfare, Bhagat Chhajju Ram.
Industries & Commerce, Amar Nath Sharma.

SECRETARIES

Chief Secretary, Pirzada Ghulam Ahmad.
Legal Adviser, M. A. Shamiri.
Military Secretary & Secretary to Sadar-i-Riyasat, Dewan Iqbal Nath.
Dy. Private Secretary to P.M., D. N. Dhar.
Law Secretary, M. S. Naqashbandi.
Secretary, General Department, Dwarka Nath.
Home Secretary (Food, Supplies also), H. R. Sharma.
Education and Information Secretary, R. C. Raina.
Finance & Planning Secretary, P. N. Chaku.
Development Secretary, Noor Mohammad.
Revenue Secretary, Ghulam Nabi.
Health Secretary, Ghulam Mohammed.
Secretary, Legislative Assembly, G. N. Naqashbandi.
Secretary, Legislative Council, R. L. Nagpal.
Secretary, Public Service Commission, B. N. Munshi.
Secretary, Industries & Commerce, Hakim Ghulam Safdar.
Secretary, Agriculture & Community Development, P. N. Kaul.

HEADS OF DEPARTMENTS

Inspector General of Police, D. W. Mehra.
Director of Information, J. N. Zutshi.
Director of Education, G. A. Mukhtar.
Director of Industries, Dr. Mir Habibullah.
Director of Health Services, Dr. Fazl Rehman.
Chief Conservator, Forests, A. A. Firdos.
Transport Commissioner, S. K. Raina.
Director of Tourism, P. N. Madan.
Development Commissioner, Agha Muzaffar.
Chief Engineer, P.W.D., Kashmir, P. N. Wanchoo.

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Chief Engineer, Irrigation, Kashmir, Ghulam Hassan Khan.
Chief Engineer, P.W.D., Jammu, H. K. Gandotra.
Chief Engineer, Irrigation, Jammu, B. N. Mengi.
Chief Engineer, Floods, P. N. Kumra.
Director, Geology, D. R. S. Mehta.
Director of Agriculture, G. M. Butt.
Director, Animal Husbandry, Ghulam Mohi-ud-din.
Financial Commissioner, M. M. Siddiqi.
Excise & Taxation Commissioner, Abd-ur-Rashid.
Director, Fisheries, G. M. Malik.
Principal Information Officer, G. D. Sharma.

PUBLIC SERVICE COMMISSION

Chairman, A. H. Durrani.
Members, Mian Ghulam Mohd., B. S. Samyal.
Secretary, B. N. Munshi.

HIGH COURT

Chief Justice, Justice Janki Nath Wazir, B.A., LL.B. (Lond.), Bar-at-Law.
Puisne Judges, Justice Saiyid Murtaza Fazl Ali, B.A. (Hons.), B.L., Justice K. V. Gopalakrishnan Nair, B.A., B.L.
Registrar, Munshi Ghulam Mohammad, B.A., LL.B.

KERALA

ADMINISTRATIVE PERSONNEL

Governor, V. V. Giri.

Governor's Staff.

Secretary, P. Velayudhan Nair.

MINISTERS

Chief Minister: General Administration, Integration, Planning, Community Development, Education, Stationery & Printing, Museum & Zoos and Archaeology, Pattom A. Thanu Pilai.

Dy. Chief Minister: Finance, Insurance, Commercial Taxes, Agricultural Income Tax, Social Welfare, Cooperation, R. Sankar.

Minister for Home Affairs: Home, Police, Jails, Elections, Anti-corruption, P. T. Chacko.

Minister for Industries: Industries & Commerce, Mining and Geology, Cement, Iron & Steel, Handlooms, Coir, Information & Publicity, K. A. Damodara Menon.

Minister for Transport & Labour: Transport, Labour, Industrial Housing, K. T. Achuthan.

Minister for Food & Agriculture: Food, Agriculture & Animal Husbandry, Irrigation, Forests, Civil Supplies, E. P. Paulose.

Minister for Public Health & Electricity: Public Health & Ayurveda, Devaswoms & Charitable Institutions, Electricity, V. K. Velappan.

Minister for Public Works: Public Works, Buildings & Communications, Ports, Railways, Tourism and Tourist Department, D. Damodaran Potti.

Minister for Law & Revenue: Law & Legislation, Administration of Civil & Criminal Justice, Land Revenue, Excise & Prohibition, K. Chandrasekharan.

Minister for Harijan Uplift & Registration: Registration, Harijan Uplift, Housing, Resettlement, Colonisation, K. Kunhambu.

Minister for Local Administration & Fisheries: Municipalities and Panchayats, Sports and Sports Associations, Fisheries, P. P. Ummer Koya.

Secretariat

Chief Secretary, A. G. Menon, I.A.S.
Secretary, Finance Department, P. S. Padmanabhan, I.A.S.
Secretary, Agriculture Department, C. Thomas, I.A.S.
Secretary, Industries Department, M. Abdussalam, I.A.S.
Secretary, Public Works Department, K. K. Raman Kutty, I.A.S.
Secretary, Health & Labour Depts., V. V. Joseph, I.A.S.
Additional Secretary, Public Department, T. Krishnan Nair, I.A.S.
Additional Development Commissioner & Additional Secretary, Development Department, S. Ananthakrishnan, I.A.S.
Secretary, Revenue Department, C. K. Kerala Varma, I.A.S.
Secretary, Law Department, P. Narayanaswamy.
Additional Secretary, Law Department, P. Sankaran Elayath.
Secretary, Home Department and Chief Electoral Officer, P. I. Jacob, I.A.S.
Secretary, Education Dept., P. K. Abdulla, I.A.S.
Secretary, Planning Department, C. R. Krishnamoorthy, I.A.S.
Addl. Secretary, Health and Labour Department, K. C. Sankara Narayanan, I.A.S.

PRINCIPAL OFFICIALS

Accountant-General, S. Vasudevan, I.A. & A.S.
Chief Conservator of Forests, M. P. George.
Chief Engineer (General and Irrigation), T. P. Kuttiammu.
Chief Engineer (Buildings and Roads), C. S. Padmanabha Iyer.
Chief Engineer (Public Health), T. B. Menon.
Chairman, Electricity Board, A. O. Oommer.
Chief Inspector of Factories, P. Sitarama Kukiliyya.
Commissioner of Labour, A. Kunjukrishna Pillai, I.A.S.
Director of Agriculture, P. M. Mathew, I.A.S.
Director of Animal Husbandry and Vet. Services, R. K. Kartha.
Director of Public Instruction, M. Chandrabhanu, I.A.S.
Jt. Director of Public Instruction, Rama Varma (Appan) Thampuran.
Director of Industries and Commerce, K. P. Vishwanathan Nair, I.A.S.
Addl. Director of Industries & Commerce, T. V. Krishnakutty Warrier.
Jt. Director of Industries (Khadi & Village), P. Karunakara Menon.
Jt. Director of Industries & Commerce (Co-operation), B. Achuthan Nambiar.
Jt. Director of Industries & Commerce (Technical), K. K. Raja.
Director of Health Services, Dr. Bhaskara Menon.
Director of Public Relations, V. R. Narayanan Nair.
Director of Harijan Welfare, C. K. Kochu Koshy, I.A.S.
Director of Fisheries, A. I. George, M.A., M.Sc.
Director of Statistics, Gopalakrishnan Nair.
Transport Commissioner, George Thomas, I.A.S.,
Director of Transport, K. Madhavan Nair.
Inspector-General of Police, N. Krishna Menon, I.P.S.
Inspector-General of Prisons, A. V. John.
Registrar of Co-operative Societies, P. Sivarama Pillai.
Mg. Dir., Finance Corporation, M. G. Achuthan Nair.
Director of Collegiate Education, Dr. K. Bhaskaran Nair.
Director of Technical Education, V. V. Gopalakrishna Iyer.

HIGH COURT

Chief Justice, Mohammed Ahmad Ansari.
Judges, M. S. Menon; T. K. Joseph; P. T. Raman Nayar; C. A. Vaidialingam; S. Velu Pillai, Smt. Anna Chandy; P. Govinda Menon, T. C. Raghavan.
Registrar, T. M. Krishnan Nambiar.
Advocate General, K. K. Mathew.

PUBLIC SERVICE COMMISSION

Thulasi Hill, Pattom, Trivandrum 4.

Chairman, V. K. Velayudhan.
Members, P. T. Bhaskar Panickker, C. O. T. Kunni Packi, P. Kesavan.
Secretary, Jacob Varugis.

MADHYA PRADESH

ADMINISTRATIVE PERSONNEL

GOVERNOR

Hari Vinayak Pataskar.

PERSONAL STAFF

Secretary, K. K. Rangole.
Private Secretary, S. Y. Dighe.
Aide-de-Camp, T. B. Aga.

MINISTERS

Chief Minister, G. A. D., Home, Publicity, Complaints, Planning & Dev., Co-ordination, Agriculture, Anti-Corruption, Dr. Kailas Nath Katju.

Minister, Revenue, Survey & Settlement, Land Records, Land Reforms, Local Self Government (Urban), Commerce & Industry, Bhagwantrao Mandloi.

Minister, Forest, Natural Resources, Shambhu Nath Shukla.

Minister, Education, Law, Physical Education, Tourist Traffic, Dr. Shankar Dayal Sharma.

Minister, Finance, Separate Revenue, Economics & Statistics, Registration, Mishrilal Gangwal.

Minister, P.W.D., Roads & Buildings & Irrigation, excluding Chambal Project, Electricity, Shankarlal Tiwari.

Minister, Labour, Rehabilitation, Housing, Chambal Project, V. V. Dravid.

Minister, Tribal Welfare, Raja Naresh Chandra Singh.

Minister, Jail, Food, Civil Supplies, A. Q. Siddiqi.

Minister, Social Welfare excluding Physical Education, Co-operation, Local Self Govt. (Rural), Ganesh Ram Anant.

Minister, Public Health, Rani Padmawati Devi.

DEPUTY MINISTERS

Deputy Minister, Agriculture, Co-operation, Shyam Sunder Narain Mushran.

Deputy Minister, Tribal Welfare, Labour, Rehabilitation, Social Welfare, excluding Physical Education, Shivbhanu Solanki.

Deputy Minister, Forest, Natural Resources, Jail, Food, Civil Supplies, Sajjan Singh Vishnar.

Deputy Minister, Finance, Separate Revenue, Economics, and Statistics, Registration, Mathura Prasad Dube.

Deputy Minister, Home, Narsinghrao Dixit.

Deputy Minister, Commerce & Industry (Including Road Transport and State Industries), Kesholal Gomashta.

Deputy Minister, Revenue, Survey & Settlement, Land Records, Land Reforms, L.S.G., Jagmohan Das.

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Deputy Minister, P.W.D. (Roads & Buildings, Irrigation excluding Chambal Project), Electricity, Dashrath Jain.
Publicity, Planning and Development, Sitaram S. Jaju.
Public Health, Social Welfare, Govind Narayan Singh.
Education, Vasant Rao Uike.

SECRETARIAT

Chief Secretary, H. S. Kamath, I.C.S.
Home Secretary, Mahabir Prasad Shrivastava, I.A.S.
Finance Secretary, M. Y. Godbole, I.A.S.
Revenue Secretary, N. D. Gupta, I.A.S.
Local Self Government Secretary, G. P. Jani, I.A.S.
Agriculture Secretary, R. C. Morab, I.A.S.
Commerce and Industry Secretary, N. Sundaram, I.A.S.
Education Secretary, L. C. Gupta, I.A.S.
Public Works Secretary, N. P. Dixit, I.A.S.
Planning and Development Secretary, P. S. Bapna, I.A.S.
Law Secretary, R. S. G. Trivedi.
Special Secretary, Integration, Gopaldas Kshetrapal, I.A.S.
Food Secretary, K. L. Pasricha, I.A.S.
Addl. Secretary (G.A.D.), S. L. Verma, I.A.S.
Rehabilitation Secretary, T. N. S. Bahel, I.A.S.

BOARD OF REVENUE

President, K. Radhakrishnan, I.C.S.
Member, S. P. Mitra, I.A.S.
Member, R. S. Shukla, I.A.S.

COMMISSIONERS OF DIVISIONS

Indore, Y. Bhargava, I.A.S.
Bilaspur, Maharaj Virbhadra Singh, I.A.S.
Jabalpur, M. P. Dubey, I.A.S.
Rewa, R. C. Rai Poddar, I.A.S.
Gwalior, P. D. Chatterji, I.A.S.
Bhopal, M. G. Karnikar, I.A.S.
Raipur, C. L. Gupta, I.A.S.

HEADS OF DEPARTMENTS

The location of the Offices is given in brackets.

Inspector-General of Police (Bhopal), K. F. Rustomji, I.P
Director of Health Services (Indore), Dr. G. L. Sharma.
Inspector-General of Prisons (Bhopal), Darshan Singh.
Chief Engineer (Irrigation), P.W.D. (Raipur), M. L. Sood, I.S.E.
Chief Engineer (Buildings and Roads), P.W.D. (Bhopal), S. N. Tripathi.
Chief Conservator of Forests (Rewa), B. R. Mishra, I.F.S.
Director of Public Instruction (Bhopal), S. P. Verma.
Director of Geology and Mining (Raipur), S. K. Barooah.
Director of Information & Publicity (Bhopal), I. S. Parihar.
Director of Economics and Statistics (Bhopal), Dr. M. M. Mehta.
Director of Social Welfare (Indore), Shankhdharsingh, I.A.S.
Director of Civil Supplies (Indore), R. N. Bisaria.
Director of Food (Bhopal), K. L. Pasricha, I.A.S.
Excise Commissioner (Gwalior), Narayan Singh, I.A.S.
Settlement Commissioner (Gwalior), J. K. Varma, I.A.S.
Director of Industries (Indore), G. K. Moghe, I.A.S.
Labour Commissioner (Indore), Birbal, I.A.S.
Director of Agriculture (Rewa), Mohammed Akbar, I.A.S.
Director of Tribal Welfare (Bhopal), M. A. Khan, I.A.S.
Sales-Tax Commissioner (Indore), K. C. Tiwari, I.A.S.
Registrar, Co-operative Societies (Indore), Devendar Nath, I.A.S.
Director of National Employment Service, A. B. Vaidya.
Director of Languages, A. M. Shastri.
Director of Veterinary Services (Rewa), Juneja.
Superintendent, Govt. Printing and Stationery, G. N. Parthsarthi.
Inspector General of Municipalities, R. S. Verma.
Public Health Engineer, N. N. Shah.
Govt. Architect, D. G. Karanjgaonkar.
Examiner of Local Fund Accounts (Gwalior), Desouza.
Chief Electoral Officer, M. S. Choudhry, I.A.S.
Housing Commissioner, L. K. Jayawant.
Superintendent of Census Operations, G. Jagatpathi, I.A.S.

HIGH COURT

Judges at Jabalpur, P. V. Dixit (*Chief Justice*), Justice T. P. Naik, Justice T. C. Shrivastava, Justice P. K. Tare, Justice K. L. Pandey, Justice S. P. Bhargava, Justice C. B. Kekre, Justice N. M. Golvalker.
Judges at Indore, Justice V. R. Newaskar, Justice H. R. Krishnan, Justice S. B. Sen, Justice M. A. Razzaque.
Judges at Gwalior, Justice A. H. Khan, Justice Shiv Dayal, Justice P. R. Sharma.

PUBLIC SERVICE COMMISSION

(Indore)

Chairman, S. P. Mushram, I.A.S.
Members, J. S. Dave, Lal Pradyumn Singh.
Secretary, N. M. Vyas.

MADRAS

ADMINISTRATIVE PERSONNEL

GOVERNOR

Bishnuram Medhi.

PERSONAL STAFF

Comptroller, Governor's Household, A. Ranganathan.
Asstt. Comptroller, C. Viswanathan Nair.
Private Secretary, K. V. Subramanian.
Honorary Surgeon, Dr. G. Chandrasekharan.
Aides-de-Camp, Capt. M. V. Kandaswamy; G. Handa.
Hon. Naval Aide-de-Camp, Commander V. N. Sonpar, I.N.

MINISTERS

Chief Minister, in charge of Public, Planning and Community Development (including Local Development Works, Women's Welfare, Community Projects and Rural Welfare), K. Kamaraj Nadar.
Minister in charge of Home including Police, Courts and Prisons and Prohibition, Food and Agriculture (including Khadi and Village Industries and Hindu Religious Endowments), Railways, Post and Telegraphs and Civil Aviation, M. Bhaktavatsalam.
Minister in charge of Finance, Education, Information and Law (including Legislature and Engineering Colleges), C. Subramaniam.
Minister in charge of Revenue, Public Health and Medical, M. A. Manickavelu.
Minister in charge of Industries, Labour and Co-operation (including Housing, Commercial Taxes and Nationalised Transport), R. Venkataraman.
Minister in charge of Public Works (excluding Electricity) and Harijan Welfare, P. Kakkan.
Minister in charge of Electricity, Transport (including Registration, Accommodation Control, Stationery and Printing and Government Press), V. Ramaiah.
Minister in charge of Local Administration and Fisheries, Srimathi Lourdhammal Simon.

SECRETARIAT

Chief Secretary, R. A. Gopalaswami, I.C.S.
Deputy Secretary (Public) & Protocol Office, K. Diraviam, I.A.S.
Secretary (Revenue), J. Sivanandam, I.A.S.
Secretary (Home), R. F. Isar, I.C.S.
Secretary (Finance), T. A. Verghese, I.C.S.
Secretary (Industries), T. K. Palaniappan, I.A.S.
Secretary (Edn. & Public Health), K. Srinivasan, I.A.S.
Secretary (Public Works), E. P. Royappa, I.A.S.
Secretary (Law), K. Rajasekharan.
Secretary (Rural Development & Local Administration), R. A. Gopalaswami, I.C.S.
Secretary (Agriculture), A. Venkatesan, I.A.S.
Secretary, Legislature (Assembly), T. Hanumanthappa, M.A., B.L.
Secretary, Legislature (Council), C. D. Natarajan, M.A., B.L.

BOARD OF REVENUE

First Member and Commissioner of Land Revenue and Food Production: S. K. Chettur, I.C.S.
Second Member (on other duty as Development Commissioner and Second Secretary to the Government), T. A. Verghese, I.C.S.
Third Member and Commissioner of Excise, Commercial Taxes and Prohibition, C. A. Ramakrishnan, I.C.S.
Fourth Member and Commissioner of Land Revenue and Food Production, P. P. J. Vaidyanathan, I.C.S.
Secretary, Board of Revenue, S. Moni, I.A.S.
Additional Secretary, Board of Revenue, S. A. Sunderarajan, I.A.S.

PRINCIPAL OFFICIALS

Director of Agriculture, V. Karthikeyan, I.A.S.
Director of Animal Husbandry, D. Pattabhiraman.
Registrar of Co-operative Societies, V. Balasundaram, I.A.S.
Director of Public Instruction, N. D. Sundaravadivelu.
Director of Information and Publicity, R. Kulandaivelu.
Chief Engineer, Electricity, V. P. Appadurai.
Chief Conservator of Forests, C. A. R. Bhadran, I.F.S.
Director of Harijan Welfare, R. Subramanian, I.A.S.
Director of Women's Welfare, Miss B. Anjani Devi, I.A.S.
Chief Engineer (Highways), P. Sirajuddin.
Commissioner of Hindu Religious and Charitable Endowments, M. S. Sarangapani Mudaliar, I.A.S.
Director of Industries and Commerce, P. Subanayagam, I.A.S.
Inspector-General of Prisons, V. N. Rai, I.P.
Commissioner of Labour, T. N. Lakshminarayanan, I.A.S.
Chief Inspector of Factories, P. V. Viswanathan.
Director of Medical Services, V. R. Thayumanaswami, I.M.S.
Dean, Government General Hospital and Madras Medical College, Dr. K. G. Krishnaswami, M.S.
Director of King Institute, Guindy, Dr. S. Govindarajan.
Director of State Transport, T. Srinivasan, I.A.S.
Inspector-General of Police, S. Balakrishna Shetty, I.P.
Commissioner of Police, Madras City, R. M. Mahadevan, I.P.
Director of Public Health, N. Parthasarathy.

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Chief Engineer, P.W.D. (General and Buildings), J. G. Abraham.
Chief Engineer, P.W.D. (Irrigation), K. V. Ekambaran, I.S.E.
Special Chief Engineer, U. Ananda Rao, I.S.E.
Inspector-General of Registration and Registrar General of Births, Deaths and Marriages, K. Gopal.
Chairman, Sales-Tax Appellate Tribunal, K. Venkataraman, I.C.S.
Controller of Stationery and Printing, C. D. Janakiraman.
Director of Statistics, D. S. Rajabushanam.
Director of Industries, H. K. Ghazi, I.A.S.
Director of Handlooms, R. Subramaniam, I.A.S.

MADRAS STATE ELECTRICITY BOARD
157, Mount Road, Madras 2.

Chairman, S. R. Kaiwar, I.C.S.

HIGH COURT

Chief Justice, S. Ramachandra Iyer, B.A., B.L.
Judge, Ganapatia Pillai, Mr. Justice S.
Judge, Anantanarayanan, Mr. Justice M., I.C.S.
Judge, Jagadisan, Mr. Justice G. R., B.A., B.L.
Judge, Veeraswami, Mr. Justice K., B.A., B.L.
Judge, Srinivasan, Mr. Justice K., I.C.S.
Judge, Venkatadri, Mr. Justice T., B.A., B.L.
Judge, Ramakrishnan, Mr. Justice P., I.C.S.
Judge, Kailasam, Mr. Justice P. S., B.Sc., B.L.
Judge, Haji P. Kunhamed Kutti, Mr. Justice, B.A., B.L.
Registrar, S. K. Gajendram Naidu, B.A., B.L.
Advocate-General, Madras, V. K. Tiruvenkatachari, M.A., B.L.
Sheriff of Madras, R. M. Dave.

PUBLIC SERVICE COMMISSION
MADRAS 2.

Chairman, V. Rathna Mudaliar.
Members, V. R. Nagarajan, A. M. Allapichai.
Secretary, T. D. Aiyasawmy; *Dy. Secy.*, V. M. Ambrose; *Asstt. Secys.*, C. M. Kuppuswamy, A. Muhammed Mohidden, G. K. M. Achuthakurup.

RAILWAY SERVICE COMMISSION
16/31, Eldams Road, Teynampet, Madras 18.

Chairman, T. J. M. Wilson.
Member, P. T. Padmanabhan.
Secretary, Vacant.

SOUTHERN RAILWAY

(General Manager's Office, Park Town, Madras 3).

ADMINISTRATIVE PERSONNEL

General Manager, Madras, H. D. Singh.
Senior Dy. General Manager, Madras, D. B. Patel.
Chief Personnel Officer, V. G. Naidu.
Dy. Chief Personnel Officer, M. M. Nathanial.
Dy. Gen. Manager (General), Madras, Krishnaraju.
Chief Engineer, S. F. Braganza.
Chief Signal and Tele-Communications Engineer, Madras, E.B.O. Mc Auliffe.
Chief Operating Superintendent, Madras, P. K. Madhava Menon.
Chief Commercial Superintendent, Madras, J. B. Rao.
Chief Mechanical Engineer, Perambur, R. N. Chaudharie.
Chief Electrical Engineer, Madras, S. P. Tonse.
Controller of Stores, Perambur, C. D. Ellicott.
Financial Adviser and Chief Accounts Officer, Madras, D. U. Rao.
Chief Medical Officer, Madras, Dr. P. A. Menon.
Chief Security Officer, Madras, M. Singaravelu.

MAHARASHTRA

ADMINISTRATIVE PERSONNEL

Governor

SRI PRAKASA.

Personal Staff

Secretary to the Governor : W. G. Pathak.
Asstt. Secretary : S. D. Sawant.
Comptroller of the Household : T. H. Barker.
As.D.C. : Lieut. V. L. Koppikar, I.N., K. Prabhakaran, I.P.S.
Asstt. Comptroller : C. X. Fonseca.
Hony. Surgeon : Dr. S. B. Cooper.
Hony. Physicians : Dr. R. J. Vakil; Dr. Mehli K. Pavri.
Hony. Dental Surgeon : Dr. C. T. Chudgar.
Hony. Ophthalmic Surgeon : Dr. H. D. Dastoor.
Hony. E.N.T. Surgeon : Dr. R. A. F. Cooper.
Hony. Aides-de-camp : R. S. Modi; P. K. Chaubal.

Ministers

Chief Minister, in-Charge of General Administration, Home, Planning and Industries : Y. B. Chavan.
Minister for Buildings and Communications : M. S. Kannamwar.
Minister for Law, Judiciary and Labour : Shantilal H. Shah.
Minister for Revenue : Vasantrao P. Naik.
Minister for Rural Development and Forests : B. G. Ghade.
Minister for Finance : S. K. Wankhede.
Minister for Education : D. S. Desai.
Minister for Civil Supplies, Housing, Printing Presses, Waqfs and Fisheries : S. G. Kazi.
Minister for Co-operation : T. S. Bharde.
Minister for Agriculture : P. K. Savant.
Minister for Prohibition and Social Welfare : Dr. T. R. Naravane.
Minister for Irrigation and Power : S. B. Chavan.
Minister for Public Health, Small Savings and Tourism : H. J. H. Taleyarkhan.
Minister for Urban Development : D. Z. Palaspagar.

Deputy Ministers

Deputy Minister for Prohibition : Dr. Bhaskar R. Patel.
Deputy Minister for Education : Smt. Nirmala Raje Bhosle.
Deputy Minister for Buildings and Communications : Devisingh V. Chauhan.
Deputy Minister for Sarvodaya, Forest Labourers' Societies and Khar Land Development : S. R. Patil.
Deputy Minister for Planning, Industries and Labour : G. D. Patil.
Deputy Minister for Co-operation : Dr. N. N. Kailas.
Deputy Minister for Revenue : M. D. Choudhari.
Deputy Minister for Home : Y. J. Mohite.
Deputy Minister for Public Health : Madangopal J. Agarwal.
Deputy Minister for Irrigation and Power : N. U. Deshmukh.
Deputy Minister for Rural Development : Narendra M. Tidke.
Deputy Minister for Agriculture : Madhusudan A. Vairale.

Secretariat

GENERAL ADMINISTRATION DEPARTMENT

Chief Secretary : N. T. Mone, I.C.S.
Dy. Secretaries : J. H. Patwardhan, I.A.S., N. S. Pardasani, I.A.S., N. V. Sunder Raman, I.A.S.

REVENUE DEPARTMENT

Secretary : D. R. Pradhan, I.C.S.
Deputy Secretaries : S. M. Kamruddin, I.A.S., P. H. Abhyankar, B.A., B.Com., LL.B., S. G. Sawant.

AGRICULTURE AND FORESTS DEPARTMENT

Secretary : G. V. Bedekar, I.C.S.
Dairy Development Commissioner and Ex-Officio Joint Secretary : D. N. Khurody, I.D.D. (Hons.).
Deputy Secretaries : Dr. B. G. Ghate, I.A.S., S. N. A. Razvi, I.A.S.
Director of Civil Supplies : B. S. Sheshgiri, B.Ag. (Bom.), B.Sc. (Lond.), M.Sc. (Cantab.).

INDUSTRIES AND LABOUR DEPARTMENT
Old Secretariat Bldg., Bombay 1.

Secretary : S. E. Sukthankar, D.F.C., I.A.S.
Deputy Secretary : K. V. Seshadri, I.A.S.
Deputy Secretary, Secretary, Board of Transport & State Controller : P. K. Namjoshi, I.A.S.
Officer on Special Duty : P. C. Nayak, I.A.S.

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HEADS OF DEPARTMENTS

Director of Industries, Bombay : Dr. M. R. Mandlekar, M.Sc., Ph.D.
Commissioner of Labour, Bombay : D. G. Kale, M.Sc. (Lond.), Bar-at-Law.
Director of Geology & Mining, Nagpur : S. V. Bhave, I.A.S.
Director of Employment, Bombay : P. B. Patil, I.A.S.
Director, Govt. Printing & Stationery : J. W. D'Souza, B.A.
Commissioner for Workmen's Compensation : V. B. Potdar, B.A. (Hons.), U.M.
President, Industrial Court, Bombay : M. R. Meher, I.C.S. (Retd.).

HOME DEPARTMENT

Secretary : B. B. Paymaster, I.C.S.
Deputy Secretaries : J. C. Agarwal, I.A.S. ; Y. S. Kasbekar, I.A.S. ; J. R. Cabral.

URBAN DEVELOPMENT AND PUBLIC HEALTH DEPARTMENT

Secretary : J. B. Bowman, I.C.S.
Deputy Secretaries : A. W. Khan, I.A.S., A. K. Majumdar, I.A.S.

IRRIGATION AND POWER DEPARTMENT

Secretary : S. G. Barve, I.C.S.
Chief Engineers & Jt. Secretaries, G. N. Pandit, D. B. Anand.
Deputy Secretaries : K. C. Nayar, I.A.S., J. B. D'Souza, I.A.S., M. D. Kale, S. V. Lonkar, V. R. Ghangurde.

FINANCE DEPARTMENT

Secretary : M. R. Yardi, I.C.S.
Financial Adviser : K. Rama Krishna Ayyar, I.A. & A.S.
Deputy Secretaries : P. D. Kasbekar, I.A.S., R. C. Rele, D. J. Madan, M. Misbah, George Hurry, N. B. Jangle, S. G. Walawalkar.
Insurance Officer, S. C. Damle.

CO-OPERATION AND RURAL DEVELOPMENT DEPARTMENT

Secretary : D. D. Sathe, I.C.S.
Deputy Secretaries : S. V. Chavan, I.A.S., M. V. Deo, I.A.S.

BUILDINGS & COMMUNICATIONS DEPARTMENT

Secretary : P. N. Damry, I.A.S.
Chief Engineer & Jt. Secretary, A. G. Maydeo.
Deputy Secretary : N. V. Sunderaraman, I.A.S.

LEGAL DEPARTMENT

Secretary to Government and Remembrancer of Legal Affairs : B. P. Dalal, I.C.S. (Retd.).
Joint Secretary : S. B. Palekar.
Charity Commissioner : C. Godsay.
Deputy Secretaries : Smt. S. R. Potnis ; S. W. Dhurandhar ; V. S. Datar.
Solicitor to Government and Ex-Officio Deputy Secretary to Govt. : R. D. Nigudkar.
Solicitor (Mofussil Litigation) : D. L. Bhojwani.

EDUCATION & SOCIAL WELFARE DEPARTMENT

Secretary : P. J. Chinmulgund, I.C.S.
Deputy Secretaries : D. B. Kamble, I.A.S., K. J. Save, I.A.S.
Under Secretaries : R. S. Gaitonde, C. G. Sahasrabuddhe, V. B. Parulkar, Y. D. Jaeel.
Assistant Secretaries : R. S. Rambhad, S. P. Chitale, G. H. Shaikh.

LEGISLATURE DEPARTMENT

Council Hall, Bombay 1.

Secretary : S. H. Belavadi, B.Sc., LL.B., J.P.H. (H.S.).
Deputy Secretary : S. R. Kharabe, B.A., LL.B.

SOME HEADS OF DEPARTMENTS

Chief Electoral Officer (Bombay), J. H. Patwardhan, I.A.S.
Director of Education (Poona), Dr. A. G. Powar.
Director of Public Health (Poona), Dr. J. K. Adranvalla.
Architect to Government (Bombay), M. K. Jadhav.
Director, Anti-Corruption and Prohibition Intelligence Bureau (Bombay), E. S. Modak, I.P.
Settlement Commissioner & Director of Land Records & Inspector-General of Registration (Poona), Mohd. Abdulla, I.A.S.
Director of Archives and Historical Monuments (Bombay), Dr. P. M. Joshi.
Registrar of Firms (Bombay), H. K. Rajadhyaksha.
Chief Ports Officer (Bombay), V. V. Jawadekar.

POSTMASTER-GENERAL'S OFFICE (CENTRAL)

Postmaster-General, Bombay : B. Lall.
Directors of Telegraphs : I. K. Gupta (*South*) ; K. R. D. Iyengar (*North*).
Directors of Postal Services, Bombay : S. B. Velankar (B) ; Rahimuddin Ahmed (*N*) ; T. R. Sankaran (S).
Dy. Director of Telegraphs : S. K. Dey.
Vigilance Officer : D. K. Kulkarni.

BOMBAY G. P. O.

Presidency Postmaster, Bombay : H. Anand Rao.

OFFICE OF THE DIRECTOR, FOREIGN POST, BOMBAY.

Director, Foreign Posts : M. Jankiram.
Dy. Director, Foreign Posts : S. A. Joshi.

TELEGRAPH TRAFFIC.

Chief Superintendent, Bombay C.T.O. : C. H. Vaishnav.

TELEGRAPH ENGINEERING.

Divisional Engineers, Telegraphs, Bombay : J. J. Kathuria (*City Division*) ; V. H. Mahadevan (*East Division*).
Divisional Engineer, Telegraphs, Poona : Vacant.
Divisional Engineer, Telegraphs, Rajkot : G. C. Chatterjee.
Fault Controllers, Bombay : V. Ramamurthy, K. Venugopalan.

INDIAN AUDIT DEPARTMENT (CENTRAL)

CIVIL AUDIT

Accountant-General's Office, Queen's Road, Bombay.

Accountant General, S. Sankaran.
Senior Deputy Accountant General, P. K. Ganapathy.
Deputy Accountant General (Administration), M. L. Chopra.
Deputy Accountant General (Works), M. M. B. Annavi.
Deputy Accountant General (Outside Audit Department), Aziz-Uddin.
Senior Deputy Accountant General, Nagpur, S. P. Saksena.
Deputy Accountant General, Nagpur, S. Panchapakeshan.

RAILWAY AUDIT

Chief Auditor's Office, Central Railway, V. T., Bombay.

Chief Auditor, Central Rly. : D. D. Dhingra.

Chief Auditor's Office, Western Railway, Churchgate, Bombay.

Chief Auditor, Bombay : G. B. Singh, I.A. & A.S.

CENTRAL EXCISE

New Central Excise Bldg., Queen's Road, Bombay 1.

Collector of Central Excise, Bombay, G. Koruthu, M.A., I.R.S.
Deputy Collector of Central Excise, Bombay, S. M. Bijawargi, B.Sc., LL.B., I.R.S.
Headquarters Assistant Collector of Central Excise, Bombay, B. J. Suares, B.A., I.R.S.
Chief Accounts Officer, Central Excise, Bombay : P. K. Donde, B.A. (Hons.), LL.B.

BOMBAY CUSTOMS DEPARTMENT (CENTRAL)

New Custom House, Ballard Road, Bombay.

Collector of Customs : Jasjit Singh.
Addl. Collector of Customs : Vipin Maneklal.
Dy. Collector of Customs : M. R. Ramachandran, M.A.
Asstt. Collectors of Customs : A. C. Saldanha, B.A. (Hons.) ; R. C. Misra, M.A., LL.B. ; B. B. Julka, M.A. ; S. B. Sarkar, M.Sc. ; M. A. Rashid, M.A. ; R. C. Shelat, B.A. (Hons.), B.Sc. ; M. S. Pai, B.Sc. (Eng.) ; S. M. Haeems, B.A. ; K. K. Dwivedi, B.A. ; J. M. Varma ; K. J. Raman ; N. B. Sonavane, M.A. ; M. A. Borthwick ; M. L. Wadhvan, M.A. ; P. D. Souza, B.A. (Hons.) ; W. M. Fernandez, B.E. (Elec.).
Deputy Chief Chemist : Mohan Lal, M.Sc.
Chemical Examiner : K. S. Subramanian, M.Sc., A.I.I.Sc., A.R.I.C.
Chief Inspector (Preventive) : C. Simons.

REGIONAL PASSPORT & EMIGRATION OFFICE (CENTRAL)

Army & Navy Building, 148, Mahatma Gandhi Road, Bombay 1.

Regional Passport Officer & Emigration Officer : H. C. Hogg.

BOMBAY PORT TRUST

Ballard Road, Bombay.

BOARD OF TRUSTEES (1961-63)

Nominated by Government : Chairman, A. L. Dias, I.C.S. ; V. G. Kanetkar, I.P. ; D. R. Khanna ; Brig. Kamta Prasad ; Rear Admiral S. G. Karmarkar, I.N. ; Jasjit Singh ; M. G. Kotwal ; M. G. Pimputkar, I.A.S. ; S. S. Ramasubban ; S. K. Venkatachalam ; H. N. Trivedi.
Elected by the Bombay Chamber of Commerce & Industry : F. Rozario ; P. C. R. Coates.
Elected by the Indian Merchants' Chamber : Pratapsingh Mathuradas ; S. M. Shah ; Ratansey Champsi ; Naval H. Tata.
Elected by the Maharashtra Chamber of Commerce : K. V. Apte.
Elected by the Bombay Municipality : Dr. S. G. Patel ; V. N. Desai.
Elected by the Millowners' Association : Pratap Bhogilal.
Elected by the Indian National Steamship Owners' Association : G. T. Kamdar ; V. S. Vallabhdas.

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Elected by the East India Cotton Association Ltd.: M. R. Ruia.
Elected by the All India Sailing Vessels Industries Association: D. M. Ashar.

Officers of the Bombay Port Trust

General Manager, T. S. Parasuraman, B.A.
Secretary: E. H. Simoes, B.A.
Dy. Secretary: S. D. Chittar, B.A.

Chief Accountant's Dept.

Chief Accountant: I. B. Das Gupta, B.A., M.Com., LL.B., A.F.S.A.A., A.C.A.
Dy. Chief Accountant: D. A. Screwvala, B.Com., B.Sc. (Lond.), C.D.I.I.
Dy. Chief Accountant (Jr.): A. Santos, M.A.

Chief Engineer's Dept.

Chief Engineer: K. G. Sarma, B.E., B.Sc. (Eng.) (Manchester), M.I.C.E., M.I. Struct. E.
Dy. Chief Engineer: K. C. Desai, B.Sc. (Eng.), M.I.E., A.M.I.C.E., A.C.G.I.
Consulting Engineers & Agents in London: Messrs. J. A. S. Rolfe & D. P. Bertim.

Port Dept.

Dy. Conservator: R. A. A. Rego.
Harbour Master: P. N. Kapani.

Docks Dept.

Manager: V. Vaz, B.A.
Dy. Managers: M. H. Sayani, B.A.; J. B. de Souza-Lawrence, M.A.; M. M. Sethna, B.A.

Railway Dept.

Manager: J. N. Adaggra, B.A.

Estate Dept.

Manager: N. D. Baria, B.E. (Civil), M.I.E., M.I.S.

Stores Dept.

Controller of Stores: P. V. Thadhani, B.Sc., B.Sc. (Tech.) (Manch.), A.M.C.T. (Manha).
Dy. Controller of Stores: G. A. Mokal, M.A., LL.B.

Legal Dept.

Legal Adviser: S. D. Nariman, B.A., LL.B., Solicitor.

Medical Dept.

Chief Medical Officer: Dr. N. V. Nene, M.B.B.S. (Bom.), M.R.C.P. (Lond.).

Labour Dept.

Chief Labour Officer: B. H. Mehta, B.A., LL.B., Solicitor (*on Deputation*): A. S. Devasthali (Ag.).

INCOME-TAX DEPARTMENT (CENTRAL)

Aayakar Bhavan, 4th Floor, Queen's Road, Bombay.

Commissioner of Income-tax (Central), Bombay: G. S. Srivastava.
Inspecting Asstt. Commissioner of Income-tax (Central), Bombay: M. A. Hussain.
Appellate Asstt. Commissioner of Income-tax, (Central) Range, Bombay: N. Subba Rao.
Income-tax Officer (Headquarters) (Central), Bombay: V. R. Amin.
Additional Income-tax Officer, Section I (Central), Bombay: P. K. Raina.
Additional Income-tax Officer, Section II (Central), Bombay: U. C. Ganguly.
Additional Income-tax Officer, Section III (Central), Bombay: A. Nundy.
Income-tax Officer, Section IV (Central), Bombay: V. R. Amin.
Additional Income-tax Officer, Section V (Central), Bombay: S. P. Sachidanandan.
Additional Income-tax Officer, Section VI (Central), Bombay: K. T. Thakore.
Income-tax Officer, Section VII (Central), Bombay: D. H. Dutta.
Additional Income-tax Officer, Section VIII (Central), Bombay: D. S. Sarma.
Income-tax Officer, Section IX (Central), Bombay: A. Nundy.
Income-tax Officer, Section X (Central), Bombay: P. K. Subramaniam.
Income-tax Officer, Section XI (Central), Bombay: U. C. Ganguly.
Income-tax Officer, Section XII (Central), Bombay: P. K. Subramaniam.
Income-tax Officer, (Central) Circle I-A, I-C, II-A, II-C, II-D, Bombay, Circle II, III, Ahmedabad: K. T. Thakore.

INCOME-TAX DEPARTMENT, BOMBAY CITY I AND II

Commissioner of Income-tax, Bombay City (I): S. A. L. Narayana Row, B.A., B.L.
Commissioner of Income-tax Bombay City (II): R. N. Jain, B.Com., LL.B.
Income-tax Officers, Headquarters, Bombay City I & II: K. N. Balasubramanian, N. A. Shah, V. K. Jayaraman, P. Sankaranarayanan, S. K. Nerurkar.
Inspecting Assistant Commissioner of Income-tax, Bombay City I & II: K. E. Johnson (A-Range); G. S. Sampath (B-Range); S. V. Ramaswamy (*C-Range*); V. S. Narayanan (*D-Range*); D. E. Amroliwala (*E-Range*); A. K. Dasgupta (*F-Range*); B. S. Nadkarni (*G-Range*); V. D. Sonde (*H-Range*); S. T. Tirumalachari (*K-Range*); V. C. Desai (*L-Range*); K. V. Rao (*M-Range*); R. N. Bose (*E. D. Range*); Kalwant Rai (*N-Range*); N. D. Sakhwalker (*P-Range*).
Appellate Assistant Commissioners of Income-tax, Bombay City-I & II: M. A. Subramanian (*A-Range*); T. A. Balakrishnan (*B-Range*); V. S. Shetti (*C-Range*); K. K. Sen; Y. B. Khan (*E-Range*); Satya Prakash (*F-Range*); T. S. R. Narasimhan (*G-Range*); D. S. Sarma (*H-Range*); P. S. Bhaskaran (*K-Range*); S. S. Seth (*L-Range*); R. Venkatraman; M. P. Gumashta (*N-Range*); N. S. Raghavan (*P-Range*); Kanwal Krishnan (*P-Range*).
Income-tax Officers Special Investigation Branch: P. Muralidharan; S. M. Deshmukh (*1st Addl.*); S. J. Karnik (*2nd Addl.*); V. B. Nair (*3rd Addl.*).
Public Relations Officer: G. G. A. Naidu.
Authorised Representatives, Income-tax Appellate Tribunal, Bombay: Bombay Bench A—A. M. Ramakrishnan, M.A., B.L.; *Bombay Bench B*—P. N. Saxena, B.A., LL.B., LL.M. (*Part I*); *Bombay Bench C*—E. D. Helms, M.A., LL.B.
Junior Authorised Representatives: N. V. Karandikar, B.Sc., LL.B.; R. L. Butani, B.A., LL.B.

INCOME-TAX, BOMBAY SOUTH

Connaught Road,
Poona.

Commissioner of Income-tax, Bombay South, Poona: M. H. Mirza, B.Com., A.C.A.
Inspecting Assistant Commissioner of Income-tax, Range I, Poona: S. M. Shah, B.Sc.,
Inspecting Assistant Commissioner of Income-tax, Range II, Poona: G. M. Hiramath, B.Sc.
Inspecting Assistant Commissioner of Income-Tax, Akola Range, Akola: B. V. Mundkur, M.A.
Appellate Assistant Commissioners of Income-tax: Sheikh Abdullah (*Akola Range*), K. N. A. Ayyar (*Nasik Range*), K. R. Raghavan (*Range II-Poona*), A. K. Mukherjee (*Range I-Poona*), P. V. Godbole (*Aurangabad*).

HIGH COURT OF JUDICATURE

Fort, Bombay No. 1.

CHIEF JUSTICE.

H. K. Chainani, Mr. Justice.

PUISNE JUDGES

N. L. Abhyankar, Mr. Justice.
Y. S. Tambe, Mr. Justice.
B. N. Gokhale, Mr. Justice.
S. P. Kotval, Mr. Justice.
K. G. Datar, Mr. Justice.
N. A. Mody, Mr. Justice.
V. M. Tarkunde, Mr. Justice
D. V. Patel, Mr. Justice.
V. S. Desai, Mr. Justice.
K. K. Desai, Mr. Justice.
V. A. Naik, Mr. Justice.
S. G. Patwardhan, Mr. Justice.*
S. M. Shah, Mr. Justice.
M. G. Chitale, Mr. Justice.
Y. V. Chandrachud, Mr. Justice.
D. P. Shikare Mr. Justice. (*Addl.*)

GAZETTED OFFICERS

Registrar, D. G. Palekar, B.A. (Hons.), LL.B.
Addl. Registrar, V. R. Gadkari, B.A. (Hons.), LL.B.
Special Officer (Inspection): C. T. Dighe, B.A., LL.B.
Deputy Registrar: N. M. Shanbhag, B.A., LL.B.

OFFICERS, HIGH COURT AT NAGPUR.

Special Officer, G. S. Jadhav, B.A., LL.B.
Additional Special Officer, S. R. Bhav.

OFFICERS, ORIGINAL SIDE.

Prothonotary and Senior Master: S. J. Rahimtoola, B.A. (Hons.), LL.B., J.P., Barrister-at-Law.
Master and Assistant Prothonotary: B. N. Nakra, Advocate.
Master and Registrar in Equity and Commissioner for taking Accounts: G. V. Dalvi, B.Sc., B.A., Barrister-at-Law.
Official Assignee: S. H. A. Vakil, B.A., Bar-at-Law.
Court Receiver: M. W. Pradhan, B.Sc., LL.B.
Official Liquidator: P. D. Dalal, B.A. (Hons.), LL.B., Attorney-at-Law.
Taxing Master: V. J. Paymaster, B.Sc., LL.B., Attorney-at-Law.
Chief Translator & Interpreter: P. F. H. Nagamian, B.A.
Accounts Officer: Subramanya Viswanathan, G.D.A.
Insolvency Registrar: M. D. Daru, LL.B., Attorney-at-Law.

* Is due to retire in Oct. 1961.

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SHERIFF'S OFFICE.

Sheriff of Bombay : Lt. Col. J. D. Kothawala.
Dy. Sheriff of Bombay : S. V. Kondaskar, B.A., Barrister-at-Law.

LAW OFFICERS.

Advocate-General : H. M. Seervai, M.A., LL.B., Advocate (O.S.).
Govt. Pleader : R. B. Kotwal, B.A., LL.B.
Solicitors to the Government of Maharashtra : Little and Co., Bombay.
Public Prosecutor for Bombay : C. M. Trivedi, B.A., LL.B., Bar-at-Law.
Administrator-General and Official Trustee : H. S. Patil, B.Sc., LL.B.
Editor, Indian Law Reports, Bombay : S. V. Gupte, B.A., LL.B., Advocate (O.S.).

CITY CIVIL AND SESSIONS COURT, GREATER BOMBAY

Principal Judge and Sessions Judge : T. P. Ghogate, B.A. (Hons.), LL.B.
Judges : B. C. Vakil, B.A. (Hons.), LL.B. ; B. J. Divan, M.A., LL.B. Advocate (O.S.) ; V. D. Tulzapurkar, M.A., LL.B. ; J. R. Vimadalal B.A. (Hons.), LL.B., Advocate (O.S.) ; P. C. Kapadia, B.A., LL.B. ; L. M. Paranjpe, M.A., LL.B. ; B. N. Deshmukh, M.A., LL.B. ; D. G. Gatne, B.A. (Hons.), LL.B. ; G. A. Desai ; V. T. Walavalkar ; K. H. Nagrani, B.A. (Hons.), LL.B.
Officers, A. P. Yajnik, M.A., LL.B. (*Registrar, City Civil Court*) ; V. K. Kulkarni, M.A., Advocate (*Registrar, City Sessions Court*).

COURT OF SMALL CAUSES

Carnac Road, Fort, Bombay

Chief Judge : P. S. Badami, B.A. (Hons.), B.Sc., Bar-at-Law, J.P.
Judges : Prasannamukh Surchandra Badami, B.A. (Hons.), B.Sc. (Bom.), Bar-at-Law, J.P., Vinit (Hindi, Gujarath Vidyapith) ; Thakorlal Bapubhai Desai, B.Sc., LL.B. (Bom.), J.P., Vinit (Hindi, Gujarath Vidyapith) ; Narayan Mulchand Shah, B.A., LL.B. (Bom.), Advocate (O.S.), J.P. ; Arthur Isaac Samson, B.A., LL.B. (Bom.) (O.S), J.P. ; Shiv Mohan Khatri, M.A. (Cantab.), Bar-at-Law, M. (H.S.), G. (H.S.) ; Vafadar K. Irani, M.A., LL.B. ; Ratilal Raichand Parekh, Advocate ; D. G. Rajadhyaksha, B.A. (Hons.), LL.B.
Temporary Additional Judges : M. V. Purandare, B.A., LL.B. ; S. G. Borde, B.A., LL.B. ; A. L. Pinto, M.A., LL.B. ; S. B. Ranade, B.A., LL.B. ; Sitaram Dagdoo Patil, B.Sc., LL.B. ; A. A. Syed, M.A., LL.B.
Registrar : Keshav Dwarkanath Tipnis, B.A. (Hons.), LL.B., Hindi Pravin.
Additional Registrar : G. B. Upadhyay, M.A., LL.B.

PRESIDENCY MAGISTRATES, GREATER BOMBAY

Chief Presidency Magistrate and Revenue Judge, Bombay, G. K. Rege, B.A. (Hons.), LL.B., Bar-at-Law.
Additional Chief Presidency Magistrates, Bombay, M. Nasrullah, B.A., Bar-at-Law ; D. D. Yennimadi, B.A., LL.B.

PRESIDENCY MAGISTRATES, BOMBAY :

A. A. Shellim, B.A., LL.B.
T. A. Sonawane, B.A., LL.B.
M. Nemazee, B.A., LL.B.
Harilal Gajanan Mahimtura, B.A., LL.B., Bar-at-Law.
H. J. Chinoy, B.A., LL.B., Advocate (O.S.).
K. J. Bijlani, B.A., LL.B.
V. M. Gehani, B.A., LL.B.
G. J. Saldhana, B.A., LL.B.
M. M. Dhruv, M.A., LL.B.
J. S. Dawda, Bar-at-Law.
J. H. A. Vakil, LL.M., Advocate (O.S.).
H. A. Ellias, B.A. (Cantab.), Bar-at-Law.
V. N. Lokur, M.A., LL.B.
M. M. Valand, B.A. (Hons.), LL.B.
K. S. Dhurandhar, B.A., LL.B.
H. S. Ursekar, M.A., LL.B.
V. V. Athalye, Advocate.
D. J. Soni, B.A., LL.B.
B. J. Abhyanker, B.A., LL.B.
M. Y. Gupte, B.A., LL.B.
B. L. Gadkari, B.A. LL.B.
G. K. Purani, B.Sc., LL.M.
A. S. Rangnekar, M.A., LL.B.
V. D. Mehta.
G. K. Nilkanth.
C. S. Kotwal.
L. J. Cordeiro.

Judicial Magistrates Offg. as Presidency Magistrates, B. H. Deshpande, B.A., LL.B., R. N. Bhadre, B.A., LL.B.
Presidency Magistrate, Juvenile Court, Bombay, Mrs. A. H. Kulkarni, M.A.
Registrar and Presidency Magistrate, Bombay, E. L. Lokhandwala, M.A.

OFFICE OF THE INSPECTOR-GENERAL OF POLICE

Old Secretariat Bldg., II Floor, Bombay.

Inspector-General of Police : K. J. Nanavatty, B.Sc., I.P.
Assistant Inspector General of Police : D. A. Khamgaonkar, M.Sc., I.P.S., M. G. Katre, B.A. (Hons.), LL.B., I.P.S.

GREATER BOMBAY POLICE FORCE

Office—Hornby Road, Opp. Arthur Crawford Market, Bombay.

Addl. Inspector General and Commissioner of Police : V. G. Kanetkar, I.P.
Commissioner of Police : S. Majeedullah, I.P.S.
Dy. Commissioners of Police : T. M. Kadambande, I.P.S., *Special Branch I (C.I.D.)* ; V. V. Naik, I.P.S. (*North*) ; V. V. Chaubal, I.P.S. (*Special Br. II, C.I.D.*).

PROHIBITION DEPARTMENT

Superintendent : C. K. Batliwala.

CRIME BRANCH, C.I.D.

Superintendent : M. G. Korde.
Addl. Superintendent : S. H. J. Kanga.

SPECIAL BRANCH I.

Superintendents : S. N. Sawant, J. R. Taraporewala.

SPECIAL BRANCH II, C.I.D

Superintendent of Police : K. D. Kothawala.

ANTI-CORRUPTION BUREAU

Superintendent : B. K. Shetye.

LA. DIVISION (I)

Superintendent : J. J. Jameson.

LA. DIVISION (II)

Superintendent : P. R. Purohit.

LA. DIVISION (III)

Superintendent : J. T. F. Gurr.

M.T. SECTION

Superintendent : K. V. Sidhaye.

COMMISSIONER OF LABOUR

Framji Cawasji Institute Bldg., Dhobi Talao, Bombay.

Commissioner of Labour, D. G. Kale, M.Sc. (Lond.), Bar-at-Law.
Dy. Commissioners of Labour, R. J. Tamboli, R. A. Shaik.
Chief Inspector of Factories : N. L. Gadkari.
Chief Inspector of Steam Boilers and Smoke Nuisances : J. S. Jacob.
Dy. Commissioner of Labour, Nagpur : G. K. Dhutia.

MAHARASHTRA SALES TAX TRIBUNAL

3rd Floor, Old Secretariat Bldg., Mayo Road, Bombay 32.

President : T. P. Ghogale, B.A. (Hons.), LL.B.
Members : A. C. Ramalingam, M. G. Gupte.
Registrar : G. R. Prabhawalkar, B.A.

SUPERINTENDENT OF PARKS AND GARDENS, MAHARASHTRA STATE

14, Queen's Barracks, Fort, Bombay.

Superintendent : Kumari Sarojini S. Pawar, M.S., Ph.D. (Cornell).

OFFICE OF THE DIRECTOR OF AYURVED

Barrack No. 4, Opp. Sachivalaya, Foreshore Road, Bombay 1.

Director : Pandit Hari Datt Shastri, Ayurvedacharya.

DIRECTORATE OF PRINTING AND STATIONERY

Charni Road Gardens, Bombay 4.

Director : J. W. D'Souza, C. & G. (Tech.) (Lond.).

DIRECTORATE OF PUBLICITY

Sachivalaya, Bombay 1.

Director of Publicity : Binod U. Rao.
Dy. Director of Publicity (News) : D. R. Samant.
Administrative Officer : M. N. Sawant.
Films Officer : K. N. Samarth.
Dy. Director of Publicity (Admn.) : B. B. Chitgupti.
Engineer-in-Charge, Rural Broadcasting : M. M. Wagle.
Production Officer : Y. H. Pitke.
Dy. Director (Tourism) : V. G. Deshmukh.

RURAL BROADCASTING DIRECTORATE OF PUBLICITY

Eros Theatre Building, 42, Queen's Road, Bombay.

Engineer-in-Charge : M. M. Wagle.
Divisional Engineers : S. Gajanan Rao ; S. K. Navare.
Establishment Officer : M. V. Prabhu.

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DIRECTORATE OF PROHIBITION AND EXCISE

Old Custom House, Bombay 1.

Director of Excise and Prohibition, Bombay : W. G. Subhedar, B.Sc., LL.B., I.A.S.
Deputy Director of Excise and Prohibition (Headquarters), Bombay : W. C. Hearn, B.A. (Hons.).
Deputy Director of Excise and Prohibition, Nagpur : Mohd. Fazluallah Siddiqui, B.A.
Deputy Director of Excise and Prohibition, Aurangabad : V. S. Sawant, B.A., LL.B.
Superintendent of Prohibition and Excise, Bombay : C. A. Forage.

MAHARASHTRA CO-OPERATIVE TRIBUNAL

J. K. Bldg., Dougall Road, Ballard Estate, Bombay 1.

President : B. D. Nadkarni.
Member : S. A. Pande.
Registrar, A. R. Deshpande.

MAHARASHTRA LABOUR WELFARE BOARD

Jambori Maidan, Worli, Bombay 18.

Chairman : Smt. Nirmala Raje Bhosle, Deputy Minister for Education.
Welfare Commissioner : C. Thomas.
Assistant Welfare Commissioners : Kumari M. S. Deshpande; S. G. Mangaonkar.

FACTORY INSPECTION OFFICE

Bombay 7.

Chief Inspector of Factories : N. L. Gadkari, B.Sc. (Lond.), A.C.G.I., J.P.
Dy. Chief Inspectors of Factories : G. M. Kolhatkar, B.Sc. (Eng.), (Bombay); F. T. R. Brito, B.E. (*Nagpur*); V. M. Mardhekar, B.E. (Elec.) (*Poona*).

FOREST DEPARTMENT

Poona.

Chief Conservator of Forests & Wild Life Preservation Officer : R. R. Chaudhari, M.Sc., LL.B. (Bom.), B.Sc. (Edin.).
Conservator of Forests : J. V. Karamchandani, B.Sc. (Edin.).
Conservator of Forests, Poona Circle : D. V. Khisty, M.Sc., A.I.F.C.

HAFFKINE INSTITUTE

Parel, Bombay 12.

Director : Dr. H. I. Jhala, M.D., F.C.P.S., D.T.M.
Assistant Director, I/C Dept. of Immunology : Dr. S. S. Rao, M.Sc., Ph.D.
Assistant Director, I/C Dept. of Pharmacology : Dr. N. K. Dutta, M.B., D.Phil.
Assistant Director, I/C Dept. of Entomology : Dr. P. J. Deoras, M.Sc., LL.B., Ph.D.
Assistant Director, I/C Dept. of Clinical Pathology : Dr. M. V. Sant, M.D., M.Sc. (Med.).
Assistant Director, I/C Dept. of Chemotherapy : Dr. C. V. Deliwala, M.Sc., Ph.D.
Assistant Director, I/C Dept. of Virology : Dr. A. N. D. Nanavati, M.D.
Assistant Director, I/C Dept. of Biochemistry : Dr. (Smt.) A. Venkataraman, B.A., M.Sc., Ph.D. (Madras).
Assistant Director, I/C Administration : Dr. K. Ganapathi, D.Sc.
Business Manager : P. K. Sholapurwala, B.Sc., LL.B.

HOME GUARDS

Secretariat Annexe, Mahatma Gandhi Road, Bombay 1.

Commandant General : M. J. B. Maneckji.
Director of Administration : Smt. P. M. Maneckji.
Director of Audit & Accounts : P. C. Hansotia.
Director of Supplies : S. A. Joshi.
Director of Training : A. J. D'Monte.
Director of Transport : B. V. Bhatia.
Director of Personnel : T. E. Kachwala.
Directors : Smt. P. M. Maneckji (*Women's Wing*); M. R. S. Captain (*Legal Wing*).
Chief Instructor, Central Training Headquarters : V. B. Masooji.
Fire and Aviation Adviser to the Govt. of Maharashtra : M. J. B. Maneckji.

MOTOR VEHICLES DEPARTMENT

Industrial Assurance Bldg., Churchgate, Bombay 1.

Director of Transport and Secy., S.T.A. : M. S. Palnitkar, I.A.S.
Dy. Director of Transport : K. Ramalingam, B.A.
Regional Transport Officers : V. S. Dubhashi (*Bombay*), S. M. Karaka (*Aurangabad*), D. K. Sukhtankar (*Nagpur*), V. G. More (*Poona*), M. K. Deshpande (*Thana*).

OFFICE OF THE DAIRY DEVELOPMENT COMMISSIONER AND JOINT SECRETARY, AGRICULTURE AND FORESTS DEPARTMENT

Old Secretariat, Bombay 1.

Dairy Development Commissioner & Joint Secretary to Government : D. N. Khurody.
Dy. Dairy Development Commissioner (Admn.), V. S. Tambay.
Dy. Dairy Development Commissioner (Tech.) : M. G. Mohoni.
Assistant Dairy Development Commissioner (Administration) : K. S. Kanvinde.
Director, Greater Bombay Milk Scheme : G. A. Sharma.
Regional Dairy Development Officer, Poona : G. S. Godbole.
Regional Dairy Development Officer, Nagpur : S. G. Phutane.
Director, Dairy Technology Institute : Y. R. Karnik.

OFFICE OF THE DIRECTOR, BOMBAY MILK SCHEME

Wakefield House, Ballard Estate, Bombay 1.

Director, Bombay Milk Scheme : A. J. Vaz.
Chief Accounts Officer : K. M. Shah.
Chief Executive Officer (Colony) : Y. V. Salpekar.
Controller, Milk Transport Service : N. G. Pandit.

CHARITY COMMISSIONER

Bank of India Bldg., 3rd Floor, Flora Fountain, Bombay 1.

Charity Commissioner : C. P. Godsay, B.A., H.C.S.
Director of Accounts : D. M. Vakil, B.Com., F.C.A.
Deputy Charity Commissioner, Public Trusts Registration Office : R. N. Bongirwar, B.Sc., LL.M.
Deputy Charity Commissioner, Office of the Charity Commissioner : M. S. Apte, B.A. (Hons.), LL.M.

DIRECTORATE OF DRUGS CONTROL (ADMINISTRATION)

Manekji Wadia Bldg., 127, M. Gandhi Road, Bombay.

Director : M. K. Rangnekar.
Asstt. Directors : V. C. Sane (*Advt.*), V. N. Solanki (*Bombay*).

DEPARTMENT OF AGRICULTURE

Poona.

Agricultural Commissioner : Capt. S. P. Mohite, I.A.S.
Director of Agriculture : Dr. M. B. Ghatge.
Jt. Directors of Agriculture : Dr. V. G. Vaidya; G. N. Godse; P. N. Driver; Dr. B. S. Kadam.

DEPARTMENT OF TECHNICAL EDUCATION

Elphinstone Technical High School Bldg., Cruickshank Road, Bombay 1.

Director of Technical Edn. : Prof. T. N. Tolani.
Dy. Director : R. S. Kenkre.
Dy. Director (Trg.), M. D. Naik.
Dy. Directors of Technical Edn. : M. R. Bhise (*Bombay*); B. K. Naldurgkar (*Poona*); H. T. Gandhi (*Nagpur*).

ENGINEERING COLLEGES

Principal, College of Engineering, Poona : G. V. Vartak.
Principal, Engineering College, Nagpur : A. D'Souza.
Principal, College of Engineering, Karad, G. V. Sapre.
Principal, College of Engineering, Aurangabad, G. P. Nagarkar.

DIRECTORATE OF SOCIAL WELFARE

Maharashtra State, Poona.

Director : P. G. Gavai, I.A.S.
Dy. Director : Dr. M. S. Sabnis, M.A. (Bom.), Ph.D. (U.S.A.).
Asstt. Director (Land Matters) : T. B. Wankhade, B.Sc.
Asstt. Director (Edn.) : T. B. Awale, M.A., B.T., T.D. (Lond.).

ELECTRICAL DEPARTMENT

Buildings & Communications Department Offices, Veer Nariman Road, Fort, Bombay.

Electrical Engineer to Government, Buildings & Communications Department, Bombay : R. G. Aras.
Executive Engineers & Electric Inspectors : V. A. Joshi (*Bombay*), Y. G. Penkar (*Poona*), R. P. Thengodkar (*Nagpur*).
Executive Engineers (Elec. Works) : V. G. Bapat, B.Sc. (*Bombay*), K. N. Kulkarni (*Poona*).

DEPARTMENT OF ANIMAL HUSBANDRY

Poona

Director of Animal Husbandry : G. A. Sharma.
Dy. Directors : R. C. Kare, P. D. Lele (*Hq.*), H. V. Kulkarni (*Nagpur Rn.*), Dr. F. S. Khambata (*Bombay Rn.*), S. P. Deshpande (*Poona Rn.*), V. N. Sarma (*Aurangabad Rn.*).
Dy. Directors, Poona : S. N. Sapre (*Disease Investigation Section*), S. G. Dixit (*Institute of Veterinary Biological Products*).

MAHARASHTRA DISTRICT GAZETTEERS (REVISION) EDITORIAL BOARD

Old Secretariat, Bombay 1.

Executive Editor and Secretary, P. Setu Madhva Rao, I.A.S.
Asstt. Editor, Dr. B. G. Kunte, M.A., Ph.D.

DIVISIONAL COMMISSIONERS

Divisional Commissioner, Bombay Dn. : N. G. Abhyankar, I.A.S.
Divisional Commissioner, Poona Dn. : S. P. Mohite, I.A.S.
Divisional Commissioner, Aurangabad Dn. : R. G. Salvi, I.A.S.
Divisional Commissioner, Nagpur Dn. : A. U. Shaikh, I.A.S.

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BOMBAY DIVISIONAL COMMISSIONER

Old Custom House, Fort, Bombay.

Commissioner : V. M. Joshi, I.C.S., F.I.A.
Assistant Commissioners : S. S. Malpathak (*Revenue*), D. M. Kulkarni (*General*), G. S. Patil (*Development*), G. V. Kaopte (*Panchayats*), R. G. Khandekar (*Small Savings*).

BOMBAY COLLECTORATE

Old Custom House Yard, Fort, Bombay.

Collector of Bombay, N. G. Abhyankar, I.A.S.
Deputy Collector, Bombay, and Personal Assistant to Collector, B. K. Potdar, B.A. (Hons.), B.C.S.
Superintendent, Bombay City Survey and Land Records, R. J. Sethna, B.E., B.A., B.Sc., LL.B.
District Dy. Collector, Bombay Suburban Dist. : B. D. Pendharkar.
Mamlatdar, South Salsette, Andheri : K. V. Kulkarni.
Addl. Collectors : W. G. Pathak, D. L. Master, B.A., LL.B., L.S.G.D. (*Income Tax Recovery*).
Supervisor, Bombay Entertainment Duty Act : V. C. Vora, M.Sc., M.I.S.E.
Organisation & Methods Officer : S. N. Dhumak, B.A.

STAMPS

Town Hall, Fort, Bombay.

Collector of Bombay and Superintendent of Stamps : N. G. Abhyankar, I.A.S.
Asst. Superintendent of Stamps : B. T. Deshpande.

MAHARASHTRA HOUSING BOARD

Esplanade Maidan, Cruickshank Road, Bombay.

Chairman : H. G. Vartak.
Members : L. S. Dabholkar, M. H. A. Agbotwala, B. D. Mahtre, P. U. Upadyaya.
Secretary : J. B. Patil ; *Legal Adviser :* R. C. Reli.

OFFICE OF THE HOUSING COMMISSIONER

Housing Commissioner : C. R. Desai.
Asstt. Housing Commissioners : D. P. Shah (*North*), T. W. Kalani (*West*), D. S. Nadkarni (*South*), S. B. Soman (*Estate Management*).
Estate Manager : J. N. Bhagwat.
Chief Accounts Officer : S. S. Chhugani.

COMMISSIONER OF SALES TAX

Old Secretariat Building, 3rd floor, Mayo Road, Fort, Bombay.

Commissioner of Sales Tax, Maharashtra State, Bombay : M. N. Heble, I.A.S.
Deputy Commissioner of Sales Tax, Central Division, Poona : K. G. Paranjpe.
Deputy Commissioner of Sales Tax, Bombay City Division (Adm.), Bombay : K. K. Uppal.
Deputy Commissioner of Sales Tax, Bombay City Division (Enf.), Bombay : M. G. Sabnis, B.Com.
Deputy Commissioner of Sales Tax, Eastern Division, Nagpur : P. V. Patankar, B.A. (Hons.), B.Com.
Deputy Commissioner of Sales Tax, Bombay City Division (Appeals I), Bombay : K. V. Ogale, B.A. (Hons.).
Deputy Commissioner of Sales Tax, Bombay City Division (Appeals II), Bombay : H. B. Munshi.
Deputy Commissioner of Sales Tax, Bombay City Division (Appeals III), Bombay : K. V. Kalghatri.

MAHARASHTRA PUBLIC SERVICE COMMISSION

Bank of India Building, Mahatma Gandhi Road, Bombay 1.

Chairman, Lt. Gen. S. P. P. Thorat.
Members, N. L. Ahmad, M.A. (Aligarh), B.Litt. (Oxon.) ; S. N. Mane, Barrister-at-Law ; P. S. Lawale, I.A.S. (Retd.).
Secretary, R. A. Kodkani, M.A.
Dy. Secretary, S. S. Kale, B.A., LL.B.

MAHARASHTRA STATE ROAD TRANSPORT CORPORATION

80–81, Dr. Annie Besant Road, Worli, Bombay 18.

Chairman, R. G. Saraiya, B.A., B.Sc., J.P.
Vice-Chairman, S. E. Sukthankar, D.F.C., I.A.S.
General Manager, L. S. Lulla, I.A.S.
Chief Accounts Officer, A. A. Krishna, I.A. & A.S.
Chief Mechanical Engineer, S. N. Chawla, M.I.R.T.E., M.I.E.
Dy. General Manager (Traffic), R. E. Wates.
Divnl. Controller (Hqrs.): Dr. S. G. Patwardhan, M.A., Ph.D., Associate Inst. Transport.
Controller of Stores, M. K. Mantri, M.I.M.I. (Eng.), M.I.R.T.E. (Eng.).
Senior Executive Engineer, J. N. Mullan, B.Sc., B.E., A.M.I.E., B.S.E.(I).
Secretary, M.S.R.T. Corpn., K. S. Prabhudesai, B.A. (Hons.).
Publications Officer, Joseph John, B.A.
Public Liaison Officer and Editor, "Maharashtra S.T. Samachar", D. M. Nadkarni, B.A., LL.B.
Secretary to S.T. Services Board and Secy. to Vice-Chairman, W. M. Bhandare.
Chief Labour Officer, C. N. Bagve, B.Sc.

DIRECTORATE OF EMPLOYMENT

Mercantile Chambers, Graham Road, Ballard Estate, Bombay 1.

Director of Employment, P. B. Patil.
Deputy Director of Employment, N. C. Pavri.
Assistant Director of Employment, S. D. Framroze.
Employment Market Information Officer : C. S. Girap.
Employment Liaison & Youth Employment Officer : B. S. Gokhral.
Occupational Information Officer, A. J. Shahani.

DEPARTMENT OF FISHERIES

Taraporevala Aquarium, Bombay 2.

Director of Fisheries : Dr. C. V. Kulkarni, M.Sc., Ph.D.

INSPECTOR-GENERAL OF PRISONS

Maharashtra State, Poona.

Inspector-General of Prisons : M. B. Salvi.
Dy. Inspector-General of Prisons : Terence Michael LaTouche.
Supdt., Yeravda Central Prison : Louis Blake.
Principal, Jail Officers' Trg. School, Yeravda : D. J. Jadhav, B.A.
Supdt., Nasik Road Central Prison : B. D. Sawarkar.

SECRETARIAT RECORD OFFICE

Elphinstone College Bldg., Fort, Bombay.

Director of Archives and Historical Monuments : Dr. P. M. Joshi, M.A., Ph.D. (Lond.).
Historical Archivist to Govt. : Dr. V. G. Dighe, M.A., Ph.D. (Bom.) (*on deputation to Govt. of India*).

KOYNA PROJECT

Mercantile Bank Bldg., 4th Floor, Mahatma Gandhi Road, Bombay 1.

Chief Engineer (Electrical): B. V. Deshmukh.
Superintending Engineers : G. M. Marathe (*Design & Coordination*) ; K. N. Deshmukh (*Transmission Construction Circle*).

MAHARASHTRA REVENUE TRIBUNAL

Old Secretariat Annexe, Fort, Bombay 1.

President : J. R. Dhurandhar, B.A., LL.B.
Members : S. B. Jathar, B.A., LL.B. ; U. M. Mirchandani, I.C.S. (Retd.); B. A. Bhonsale, Bar-at-Law : P. J. Majmundar, B.A. (Hons.), LL.B.
Registrar : E. Gorey.

BUREAU OF ECONOMICS & STATISTICS

6th Floor, Sachivalaya Annexe, Bombay 32.

Director, M. A. Telang, M.A. (Bom.).
Dy. Directors, P. J. Divatia, B.Sc. (Bom.), A.M. (Colum.) ; K. S. Narayanan, M.A., D. R. Deoras, M.Sc. (*Nagpur*).

COMMISSIONER FOR WORKMEN'S COMPENSATION

New Govt. Hutment No. 3, Opp. C.C.I., Dinsha Wachha Road, Bombay 1.

Commissioner : V. B. Potdar, B.A. (Hons.), U.M.
Addl. Commissioner : V. B. Potdar, B.A. (Hons.), LL.M.
Registrar : Govind Shripad Shirgaokar.

INSTITUTE OF VOCATIONAL GUIDANCE

Elphinstone Technical High School Bldg., 3, Cruickshank Road, Bombay 1.

Officer-in-Charge : Fali Savaksha Chothia.

WAGE BOARDS FOR THE COTTON & SILK TEXTILE AND SUGAR INDUSTRIES

Old Secretariat Bldg., Mayo Road, Bombay 1.

Chairman, Purushottam Kanji.
Secretary : M. P. Joshi.

FORENSIC SCIENCE LABORATORY

J.J. Hospital Compound, Byculla, Bombay 8.

Director : Dr. Harbhajan Singh Mahal.

EXAMINER OF BOOKS & PUBLICATIONS

Old Secretariat Bldg., Fort, Bombay.

Examiner of Books and Publications : P. S. Thorat.

DIRECTORATE OF INDUSTRIES, MAHARASHTRA STATE

Sachivalaya Annexe, Bombay 1.

Director of Industries, Statistics Authority, Central Stores Purchasing Officer and Controller of Buildings for the City of Bombay and Thana Taluka, Dr. Mukund Ramrao Mandlekar, Ph.D. (Lond.).
Addl. Industries Commissioner, M. W. Desai, I.A.S.

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REGISTRAR OF CO-OPERATIVE SOCIETIES,

(Industrial Co-operative Section)
22, *Wellesley Road, Poona*-1.

Joint Registrar, Industrial Cooperatives, P. S. Nadkarni.
Deputy Registrar, Industrial Cooperatives, B. D. Mahajan.
Joint Registrar, Cooperative Societies (Nagpur Division), N. S. Kulkarni.
Joint Registrar, Cooperative Societies (Bombay Division), M. R. Anandrao.
Joint Registrar, Cooperative Societies (Aurangabad Division), P. V. Patil.
Joint Registrar, Cooperative Societies (Poona Division), M. B. Ghorpade.

GOVT. OF INDIA TOURIST OFFICE

123, *Queen's Road, Bombay* 1.

Director : Miss A. Mehta.
Asstt. Directors : Mrs. S. Jagannathan, Miss V. Maneklal.

INDIAN AIRLINES CORPORATION

Bombay Airport

Santa Cruz (East), Bombay.

Area Manager : D. A. Samant.
Traffic Manager : C. J. Lisely.
Operations Manager : J. J. Ezekiel.
Chief Engineer : H. N. Kelawalla.

PRESS INFORMATION BUREAU

United India Bldg., Sir Pherozeshah Mehta Road, Fort, Bombay 1.

Deputy Principal Information Officer : C. L. Bhardwaj.
Information Officer : K. R. Sundar Rajan.
Assistant Information Officers (Gujarati): H. D. Mehta, R. B. Patel.
Assistant Information Officers (Marathi): A. R. Godbole, M. L. Kulkarni.
Assistant Information Officer (All India Radio) : G. L. Raval.

MEMBERS OF THE BOMBAY CORPORATION

V. B. Worlikar, *Mayor.*

Ward No. 1 (*Colaba*): Daroga, Jahangir Dadabhoy, M.Sc. (Lond.), M.I.C.E., M.I.E., A.M.I.Mech.E. ; Dr. D'Souza, J. Leon, M.B., B.S.

Ward No. 2 (*Fort*): Boman Behram, Bomanji Kavasji, M.A., LL.B. ; Dr. Ugrankar, Shripad Shivrao, M.B., B.S. (Bom.), M.R.C.P. (Lond.).

Ward No. 3 (*Bori Bunder*): Joshi, Jamiatram Kashiram ; Uppur, Thimmappa Kovaga ; Bedi, Manmohan Singh Harnam Singh.

Ward No. 4 (*Mandvi*): Bandookvala, Eshakbhai Abbasbhai ; Shah, Jivraj Bhanji.

Ward No. 5 (*Dongri*): Sayad Mahomed Hussain Ahmed Mia ; Memon, Alimahomed Umar.

Ward No. 6 (*Umarkhadi*): Fernandes, George John ; Chimbulkar, Rajaram Krishna ; Mhatre, Balvant Krishna.

Ward No. 7 (*Khara Talao*): Jarivala, Abdul Sattar Abdul Majid, B.A. (Hons.), LL.B. ; Kanchwala, Taherbhai Ibrahim, LL.B. ; Motorvala, Jainuddin Abbasbhai.

Ward No. 8 (*Kumbharwada*): Dr. Dhabuvala, Babubhai Manubhai ; Shah, Chhotalal Nanchand ; Kangutkar, Dashrath Tatya, B.A.

Ward No. 9 (*Markets*): Dr. Patel, Shantilal Girdharlal, M.B., B.S. ; Parikh, Dhirajlal Mathuradas, M.A., LL.B. ; Virvadia, Muktilal Vardhilal.

Ward No. 10 (*Dhobi Talao*): Belose, Ramchandra Lakshman, B.A., LL.B. ; Dr. Moraes, Condorceth, M.B., B.S. ; Parikh, Mohanlal Pranlal.

Ward No. 11 (*Fanaswadi*): Trivedi, Karunashankar Himmatram ; Raut, Lakshmikant Rajaram ; Dave, Khelshankar Prabhashankar.

Ward No. 12 (*Girgaum*): Pendse, Govind Moreshwar ; Dr. Shah, Nagindas Nanalal, L.C.P.S. ; Bakhle, Durgaparasad Prasannakumar.

Ward No. 13 (*Khetwadi*): Shrimati Reddy, Tara Gangagram ; Lakhani, Jivanlal Mulchand ; Dr. Kalgutkar, Baba Dinnath, L.C.P.S., M.B., B.S.

Ward No. 14 (*Walkeshwar*): Shrimati Pandya, Lily Anant, B.Sc. (Lond.) ; Shrimati Dalal, Deviben Sitaldas, B.Sc. ; Sawant, Rajaram Dajirao.

Ward No. 15 (*Mahalaxmi*): Vania, Dara Dinsha, B.A., LL.B. ; Trivedi, Harishkumar Narbheshankar ; Mirashi, Rajabhau Govind.

Ward No. 16 (*Tardeo*): Shety, Madhukar Shantaram ; Minocher Homji Bamansha Hormasji ; Dr. Divgi, Bhavanishankar Padmanabh.

Ward No. 17 (*Kamathipura*): Pujari, Linganna Puttal ; Reddy, Ganaram Lakshman.

Ward No. 18 (*Nagpada*): Chunavala, Mahomed Hasan Fazluddin ; Phaniband, Khatal Musa ; Babu Miran.

Ward No. 19 (*Mazgaon*): Vairagi, Mohandas Thakurdas ; Singh, Dudhnath Jhengtu ; Kandalkar, Tukaram Ganesh.

Ward No. 20 (*Byculla-West*): Sheikh, Hafizuddin Jamiruddin ; Khare, Charandas Hari ; Sethi, Meghraj Lakshmidas ; Munshi, Mohiuddin Noormahomed.

Ward No. 21 (*Byculla-East*): Ganacharya, Gulabrao Bhaurao ; Zute, Bhiku Dhondiba ; Save, Ramchandra Hiraji.

Ward No. 22 (*Ghorupdeo*): Borkar, Shivraj Keshav ; Gomes, Robert Joseph.

Ward No. 23 (*Sewri*): Patil, Ganpat Lakshman; Dr. Pusalkar, Ganesh Dattarray, M.B., B.M. ; Shigvan, Pandurang Daji.

Ward No. 24 (*Lalbaug*): Desai, Krishnaji Gangaram ; Loke, Gajanan Shankar.

Ward No. 25 (*Parel*): Shrimati Rangnekar, Ahilya Pandurang, B.Sc. ; Dr. Rau, Sujirsanjiva Sujirgopal, M.D.

Ward No. 26 (*Naigaum*): Wagh, Shankar Saluji ; More, Ramkrishna Bapuji ; Goad, Yeshwant Savalaram ; More, Narayan Mahadev ; Mahadeshwar, Sakharam Babaji.

Ward No. 27 (*Matunga*): Mehta, Nanalal Dharamsi ; Dr. Bilpodiwala, Minocher Cawasji, M.B., B.S.

Ward No. 28 (*Sion*): Madhavan, M. ; Ganatra, Ravji Khimji ; Dr. Mansharmani, Bhagwandas Ratansing, L.C.P.S.

Ward No. 29 (*Love Grove*): Mirajkar, Shantaram Savlaram ; Desai, Keshav Lakshman ; Sardar, Paratapsing Lakshmidas ; Ruke, Ragho Ganu.

Ward No. 30 (*Lower Parel*): Bhogle, Ramchandra Krishnaji ; Hule, Govind Mahadev ; Yadav, Ramlalsingh Ramdassingh.

Ward No. 31 (*Worli*): Kurane, Pralhad Krishnaji, B.A. ; Worlikar, Vasudev Balkrishna ; Kharat, Ramchandra Genuji ; Kavte, Manishankar Narayan.

Ward No. 32 (*Parbhadevi*): Dr. Matkar, Waman Shankar, L.C.P.S. (Bom.) ; Patil, Jaivant Moreshwar ; Mandekar, Anant Mahadev ; Singh, Shobhnath Ramgajadhar.

Ward No. 33 (*Dadar*): Bapat, Vaman Pandurang, B.Sc., (Eng.), A.M.I.E. ; Mohadikar, Prakash Ganesh, B.A. (Hons.), B.Ed. ; Mantri, Madhukar Dattatray, B.A., LL.B., Dip. L.W. ; Parekh, Kantilal Mulchand, B.Sc. (Bom.), M.Sc. (M.I.T., U.S.A.).

Ward No. 34 (*Mahim*): Bhatia, Pessumal Dunichand ; Ashayya, Badhya Buchayya ; Shrimati Toraskar, Asha Vithal ; Khandvani, Mahomed Amin Abbamia ; Dr. Castellino, Victor Aloysius, M.B., B.S.

Ward No. 35 (*Bandra-East*): Desai, Vishnuprasad Nandrai, B.A. ; Jagtap, Sitaram Ramchandra ; Dr. Hingorani, Ram Bulchand ; Bagwe, Gajanan Shridhar, B.A., LL.B.

Ward No. 36 (*Bandra-West*): Correa, Hyginus Joseph, B.A., LL.B. ; Patkar, Sitaram Ramchandra ; Varde, Sadanand Shankar, M.A.

Ward No. 37 (*Andheri-Vile-Parle—South*): Indulkar, Pratap Mahadev ; Vora, Pranlal Harkishondas, M.A., LL.B. ; Shah, Jagoobhai Vadilal.

Ward No. 38 (*Andheri-Vile-Parle—North*): Dhume, Balkrishna Shantaram, L.E.E. ; Raval, Vasudev Gulabram ; Patel, Bhal Shrikrishna ; Singh, Ramswarupsingh Kunaisingh.

Ward No. 39 (*Kurla*): Khanolkar, Mohan Sitaram ; Khan, Mahomed Nabi Abdul Hafiz ; Tripathi, Rammanohar Vishnunarayan, B.A.

Ward No. 40 (*Chembur*): Advani, Hashuji Parasram, B.A. (Hons.), B.Com., LL.B. ; Johnson Jacob.

Ward No. 41 (*Ghatkopar*): Upadhyya, Purshottamdas Uttamram ; Dighe, Bhalchandra Sakharam ; Adak, Kisan Narayan.

Ward No. 42 (*Malad-Goregaon*): Shrimati Gore, Mrinal Keshav ; Singhi, Teckchand Hansraj, B.A. ; Patel, Shankarbhai Muljibhai, B.Sc.

Ward No. 43 (*Borivli-Kandivli*): Modi, Shantilal Amritlal ; Chogle, Harvijay Waman ; Patil, Ramakant Parshuram.

Ward No. 44 (*Mulund, Tulshi and Vihar Lake Area*): Thakkar, Karsandas Virji, M.Sc.

Standing Committee

Dr. W. S. Matkar (*Chairman*) ; Bapat, V. P. ; Belosay, R. L. ; Dhume, B. S. ; Joshi, J. K. ; Kanchwala, Taherbhai I. ; Kharat, R. G. ; Lakhani, Dr. J. M. ; Madhavan, M. ; Parikh, Dhirajlal M. ; Parikh, Mohanlal P. ; Patkar, S. R. ; Singh, D. N. ; Singhi, Teckchand H. ; Vania, Dara D. ; Varde, S. S. ; Vora, P. H.

Improvements Committee

R. K. Ganatra (*Chairman*), Castellino, Dr. V. A., Chogle, H. W., Dalal, Smt. Deviben S., Daroga, J. D., Dave, Khelshankar P., Ganacharya, Gulabrao B., Mandekar, Anant M., Memon, Alimohamed U., Mirashi, R. G., More, N. M., Parekh, Kantilal M., Patel, Shankarbhai M., Patil, Dr. Bhal S., Savant, R. D., Wagh, Shankar S.

Education Committee

Pranlal H. Vora, (*Chairman*), Dr. M. C. Bilpodiwala, H. J. Correa, Jyotindra D. Desai, Dr. J. Leon D'Souza, D. T. Kangutkar, Vishnukumar S. Kardak, M. A. Khandvani, Smt. Tara P. Kher, M. N. Munshi, Lilyben A. Pandya, Smt. Tara G. Reddy, Smt. Asha V. Toraskar, H. N. Trivedi.

Best Committee

Chairman : B. P. Divgi.

PRINCIPAL MUNICIPAL OFFICERS

Municipal Commissioner for Greater Bombay, M. G. Pimputkar, I.C.S.
Dy. Municipal Commissioner (General), Vacant.
Dy. Municipal Commissioner (Improvements), S. M. Y. Sastry, M.A., B.L.
Dy. Municipal Commissioner (Suburbs), B. C. Cariapa, I.A.S.
Dy. Municipal Commissioner (Labour), V. V. Joshi, M.A. (Oxon.).
City Engineer, S. V. Desai, B.E. (Civil), A.M.I.E. (Ind.), A.M.I.C.E. (Lond.), Dip. D.P. (Lond.).
Public Health Engineer, Vacant.
Hydraulic Engineer, R. V. Abreau, B.Sc., B.E. (Civil), M.I.E. (Ind.).
Executive Health Officer, Dr. R. B. Fondekar, M.B.B.S., B.Hy.
Dean, K.E.M. Hospital and G. S. Medical College, Dr. S. V. Joglekar, M.S., F.C.P.S.
Dean & Supdt., B. Y. L. Nair Charitable Hospital & Topiwala National Medical College, Dr. L. Monteiro, M.D.
Superintendent, Lokmanya Tilak Hospital, Vacant.

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Medical Superintendent, Kasturba Gandhi Memorial Hospital, Dr. J. K. Thanawalla, M.D., F.C.P.S.
Medical Superintendent, R. P. T. B. Hospital, Sewree, Vacant.
Dean, Nair Hospital Dental College, Lamington Road, Dr. H. D. Merchant, D.M.D., F.I.C.D.
Chief Accountant, Municipal Head Offices, N. V. Naik, G.D.A.
Adm. Officer (Enquiries), Vacant.
Chief Officer, Fire Brigade, Byculla, Vacant.
Solicitor to the Corporation, A. M. Desai, M.A., LL.B.
Assessor & Collector, Municipal Head Offices, N. S. Shirodkar, B.A. (Hons.).
Controller of Stores, Franklin D'Souza, B.E.
Transport Superintendent, A. M. Albuquerque, L.M.E.
Superintendent of Gardens, Victoria Gardens, G. S. Hegde, B.Ag.
Election & Town Duty Officer, V. G. Sabnis, B.E. (Civil).
Superintendent of Licences, C. K. Patel, M.A.
Insecticide Officer, Vacant.
Chief Inspector, Shops & Establishments, N. J. Alvares, M.A., LL.B.
Executive Engineer (Estate & Land Management), S. M. Postwalla, B.E.
Education Officer, Smt. Kapila Khandvala, B.A., B.T., M.A. (U.S.A.).
Labour Officer, Smt. Freny A. Irani, B.A., LL.B.
Public Relations Officer, M. A. Mistri, M.A.
Manager, Municipal Printing Press, S. W. Apte.
Municipal Chief Auditor, R. V. Damania, B.Com., G.D.A., A.S.A.A.
Editor, "Bombay Civic Journal", Smt. L. Ugrankar.
Municipal Secretary, P. C. Pandya.
Municipal Analyst, Dr. V. Sadashivan, B.Sc. (Ag.), M.Sc., A.I.I.C.
Municipal Medical Examiner, Dr. D. D. Bamji, M.D., F.C.P.S.
Personal Assistant to the Municipal Commissioner, M. B. Bondre, M.A.
Assistant Municipal Commissioner, S. G. Redkar, B.Sc., LL.B.
Supervising Medical Officer, Dr. Smt. V. S. Kalewar, M.B.B.S., F.C.P.S.
Development Officer, B. B. Godambe, B.E. (Civil).

SUBURBAN OFFICE (MERGED AREAS)

Waterfield Road, Bandra.

Dy. Municipal Commissioner, B. C. Cariapa, I.A.S.
Dy. City Engineer (Suburbs), D. S. Thakur.
Executive Engineer (Suburbs), Water Works, T. M. Kandawala.
Dy. Executive Health Officer, Dr. D. V. Parulekar.
Asstt. Supdt. of Licences, Shops & Establishments, S. K. Kadri.
Assistant Accountant (Suburbs), V. C. Parikh.
Asstt. Supdt. of Markets (Suburbs), B. M. Phataraphod.
Dy. Assessor & Collector (Suburbs), Sayed Hussein Seyed Sultan.

MUNICIPAL SECRETARY'S OFFICE

Municipal Secretary, P. C. Pandya, M.A., LL.B., M.P.A. (U.S.A.).
Dy. Secretary, K. I. Lalani, B.A. (Hons.), LL.B.

CHIEF AUDITOR'S DEPARTMENT

Municipal Chief Auditor, R. V. Damania, B.Com., G.D.A., F.S.A.A. (Lond.).
Deputy Municipal Chief Auditor, Vacant.

ENGINEERING DEPARTMENT

Municipal Office Annexe, 2nd and 3rd Floors, Cruickshank Road, Bombay 1.

City Engineer, S. V. Desai.
Dy. City Engineer (Suburbs), D. S. Thakur.
Executive Engineer (Vaitarna-cum-Tansa Master Plan), D. R. Bhise.
Executive Engineer Construction (Drainage), B. M. Shah.
Executive Engineer (Housing), D. D. Dawalbhakta.
Executive Engineer (Planning), V. L. Ghangurde.
Municipal Architect, D. S. Palande.
Executive Engineer (Construction), M. A. Nentin.
Executive Engineer (Subs.) Zone, I, P. J. Darukhanawala.
Executive Engineer (Subs.) Zone, II, I. F. Pathan.
Executive Engineer (Subs.) Zone, III, L. S. Kadoo.
Executive Engineer (Transport), A. M. Albuquerque, L.M.E., I.E.E.
Executive Engineer (Mechanical), V. R. Gadre.
Planning Branch Engineers, M. N. Ranade, K. V. Shriniwasan, G. A. Prabhuchimulkar.
Assistant Engineers, Factory (City), Y. H. Munshi, *Factory (Subs.)*, E. J. Khambatta.

Construction Branch

Divisional Engineers, N. R. Balsara, B. D. Sanjana, T. K. Santoke, K. C. Joshi, G. F. Khambatti.

Housing Branch

Divisional Engineers, S. D. Kale, V. M. Bhide.

Mechanical Electrical and Transport Branches

Assistant Engineers, V. R. Parulekar (*Designs, Mechanical*), B. D. Dani (*Electrical*), K. R. Shanbhag (*Transport (City)*), V. H. Bhadbhade (*Transport (Subs.)*).
Workshop Superintendent, S. G. Datar.

Drainage Construction

Assistant Engineers, P. R. Bhide, V. H. Gumaste, U. A. Patel, R. V. Barve.
Executive Engineers, C. Soares (*South Zone*), V. K. Chitale (*Central Zone*), N. G. Sahane (*North Zone*).

MECHANICAL ENGINEER'S DEPARTMENT

Municipal Workshops, Foras Road, Bombay 8

Executive Engineer, Mechanical, Vasudeo Raghunath Gadre.
Assistant Engineers (Electrical), Bhagwant Dattatray Dani (*Designs*), Vithal Ramchandra Parulekar.
Mechanical, Seetaram Ramchandra Rane.
Love Grove Pumping Station, Sorab Manchershah Taraporwalla.
Workshop Superintendent, Sharadchandra Govind Datar.
Superintendent & Chemist, Dadar Purification Works, Laxmikant Parshuram Borkar.

TRANSPORT BRANCH

Municipal Workshops, Bombay 8

Executive Engineer (Transport), Albert Marius Albuquerque.
Asstt. Engineer, Transport (City), Kundapur Ramchandra Shanbhag.
Asstt. Engineer, Transport (Suburbs), Vinayak Hari Bhadbhade.

WATERWORKS DEPARTMENT

Municipal Office Extension Bldg., Cruickshank Road, Bombay 1

Hydraulic Engineer, R. V. Abreu.
Executive Engineer, Charles D'Mello.

CITY IMPROVEMENT DEPARTMENT

Municipal Offices, Dr. Dadabhoy Naoroji Road, Bombay 1

Deputy Municipal Commissioner (Improvements), S. M. Y. Sastry.
Executive Engineer (Estate & Land Management), S. M. Postwala.
Deputy Estate Agent and Land Manager, D. N. Kagal.
Assistant Estate Agent (Special), R. F. D'Souza.
Assistant Estate Agents (Acquisition), P. A. Umrigar, H. M. Vaidya.

CITY ENGINEERS DEPARTMENT : CONSERVANCY BRANCH

Municipal Office Annexe, 2nd Floor, Cruickshank Road, Bombay 1

Head Supervisor, P. D. Thakur.
Standards Officer, U. G. Lad.

BOMBAY VACCINATION DEPARTMENT

Near Parel Tram Terminus

Ag. Superintendent.—S. C. Chatterjee.

LICENCE DEPARTMENT

Municipal Annexe Bldg., 2nd Floor, Cruickshank Road, Fort, Bombay 1.

Superintendent of Licences, C. K. Patel, M.A., LL.B.
Asstt. Superintendent of Licences (North), G. P. Pitale, B.A., LL.B.
Asstt. Superintendent (Encroachment) (South), J. H. Pimenta.
Asstt. Superintendent of Licences (Suburbs), S. K. Kadri, M.A., LL.B.

ASSESSMENT AND COLLECTION DEPARTMENT

Municipal Offices, Dr. Dadabhoy Naoroji Road, Bombay 1

Assessor & Collector, N. S. Shirodkar, B.A. (Hons.).
Dy. Assessor and Collector (City), A. S. Tipnis.
Dy. Assessor and Collector (Suburbs), Sayed Husein Sultan.

THEATRE TAX SECTION

Senior Inspector, Rutton Hormasji Pastakia, M.A.
Junior Inspectors, Vasant Putlaji Desai; Keshav Krishnaji Vaishampayan, L.S.G.D.

SHOPS AND ESTABLISHMENTS DEPARTMENT

Improvement Trust Building, 7, Napier Road, Fort, Bombay 1

Chief Inspector, N. J. Alvares, M.A., LL.B.
Dy. Chief Inspector, Abdul Qadir Abdulrahim Munshi, B.A. (Hons.).
Senior Inspectors, Shivsharan Gordhandas Patel, B.A., LL.B.; Gulam Mohd. Kara Ravat, B.A.; Kamlakar Atmaram Karnik, M.A., LL.B.; Sanjiv Anant Pai, B.A.; Abdul Razak Mohd. Siddique Patel, B.A., LL.B.; Nissim Abraham Reubens, B.A., LL.B.; Marcus De-Souza-Louzado, B.Sc.; Krishnarao Ramrao Vaidya, M.A., LL.B.; Narhar Ramchandra Patankar, M.A., B.Sc., LL.B.

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MARKETS AND SLAUGHTER HOUSES DEPARTMENT

Crawford Market, Dr. Dadabhoy Naoroji Road, Bombay 1

There are 72 markets in Greater Bombay out of which 45 are the property of the Municipal Corporation while the rest are owned by private individuals and licensed by the Corporation.

Superintendent of Markets and Slaughter Houses, Dr. Victor Periyan.
Asstt. Superintendent of Markets (Suburbs), Dr. B. M. Phatarphod.
Senior Assistant, Bandra Slaughter House, Dr. S. A. Malandkar.
Chief Inspector, Dr. D. M. Bailur.

STORES DEPARTMENT

Central Stores : 566, DeLisle Road, Byculla ; Sub-Depot : Bellasis Road, Byculla

The Department purchases articles, stores, etc. required by the Corporation.

Controller of Stores, Franklin D'Souza, B.E. (Civil), A.M.I.E.
Dy. Controller of Stores (General), D. S. Nagarkatti.

MUNICIPAL FIRE BRIGADE

Headquarters : Byculla Bridge, Telephone No. 101, 6 *lines;* (for fires and accidents only).
76111-2-3 Direct Lines.

Ag. Chief Officer, Fire Brigade : Capt. Syed Mahmudshah.*
Deputy Chief Officer : S. Fredilis, P. T. Samant, B.Sc., Grad. I.Fire E.
Second Officer : V. G. Pawar.
Additional Second Officer : Vacant.

Fire Brigade Stations.

Headquarters, Byculla Bridge : E. M. Jacob, L. S. D. Meherwanji, N. V. Chitnis, S. S. Rane.
Alexandra Docks, Frere Road : B. D. Borude, N. P. Shinde.
Gowalia Tank, Gowalia Tank Road, Gamdevi : G. N. Shetgeri.
Sewree, Cotton Depot, Sewree : N. A. Khatib.
Fort, Gunbow Street, Fort : R. B. Karma, V. B. Nikam.
Colaba, Victoria Bunder Road : A. S. Kulkarni, G. S. Salvi, R. R. Rao.
Shivaji Park, 2nd Shivaji Park Road : V. V. Vaidya.
Worli, Dr. Annie Besant Road, Worli : G. A. H. Qureishi, D. J. Kulkarni.
Dadar, Vincent Road, Dadar : S. V. Shilotri.
Memonwada, Sardar Vallabhbhai Patel Road : B. V. Wagle, M. N. Naik, S. K. Deshmukh.
Mandvi, Sardar Vallabhbhai Patel Road : S. M. Udiawar.
Andheri, Ghodbunder Road, Andheri : S. M. Desai, B. G. Sawant.

MUNICIPAL FIRE BRIGADE AMBULANCE SERVICE

Fire Brigade Headquarters, Byculla, Bombay No. 8.

Ambulance Services for Maternity Cases (Free).
Ambulance Services for Street Accidents (Free).
Ambulance Services for all other non-infectious cases (Rs. 8 for the first hour or fraction thereof and Rs. 4 for each succeeding ½ hour or fraction thereof within the Greater Bombay limit and Rs. 12 for first hour or fraction thereof and Rs. 6 for each succeeding half hour or fraction thereof—tolls and other charges extra—outside the limits of Greater Bombay).
Hours of work :—24 hours.
Telephone No. 101 for street accidents.
Telephone No. 76111, for other purposes.

PRIMARY EDUCATION DEPARTMENT

Municipal Offices, Fort, Bombay 1

The Education officer is the executive Officer of the Department subject to the general supervision and control of the Commissioner and the Education Committee. Under the Education Officer there are Superintendents entrusted with the inspection of schools. There are at present 569 Municipal Schools and 110 classes conducted by the Education Dept. and 41 Aided and Recognised Schools to which the Education Dept. gives grants and recognition. The total number of pupils in all the Primary Schools in Greater Bombay is 4,28,780 out of whom 3,16,105 are in Municipal Schools and 1,12,675 in Aided and Recognised Schools.

The Department conducts one Urdu Training Institute for Women and two Training Classes, one for Urdu and the other for Gujarati Teachers in Municipal Schools. About 300 trainees are taking benefit of these training facilities.

Education Officer, Smt. Kapila T. Khandwala, B.A., B.T. (Bom.), M.A. (U.S.A.), J.P.

GARDENS DEPARTMENT

Victoria Gardens, Bombay 27

The Corporation maintains a number of gardens, bandstands, public parks and rockeries in the traffic islands of the city : in all there are 107 sites in the care of the Gardens Department within the city limits and 20 sites in the suburbs. The principal Gardens are the Victoria Gardens, the Sir Pherozeshah Mehta Gardens and Kamala Nehru Park on Malabar Hill, the Children's Park along Ridge Road, the Joseph Baptista Gardens on the Bhandarwada Reservoir on the Mazagaon Hill. In all there are 35 gardens, 9 small gardens and open spaces, 58 recreation grounds, 14 play-fields, 4 fountains, 5 Strips of Box Hedges and 9 traffic islands. Among the playgrounds the most important are the Mustan Shah Tank, the Reynolds Road, the Willingdon Memorial Playgrounds and the playground at 2nd Peer Khan Street. They are provided with gymnasium apparatus. An Akhada or Wrestling Pit has also been provided at the Willingdon Playground at Souter Street.

Superintendent, Municipal Gardens, G. S. Hegde.

ELECTION BRANCH (ELECTION AND TOWN DUTY DEPT.)

Improvement Trust Building, Napier Road, Bombay 1

Election and Town Duty Officer, V. G. Sabnis, B.E.

B.E.S.T. UNDERTAKING

General Manager, R. C. Joshi, I.C.S., J.P.
Deputy General Manager, G. V. Karve, M.Sc., A.M.I.E.E. (Lond.), M.A. I.E.E., Chart. Elec. Engr.
Secretary, D. S. Venkataraman, F.C.C.S.
Commercial Manager, M. C. Chudawala, G.D.A., A.C.A.
Controller of Stores, M. R. Ananthanarayanan, B.E. (Madras), A.M.I.E. (India).
Chief Engineer (Supply), K. Matthan, B.A. (Madras), B.Sc. (Eng.) (Lond.).
Chief Engineer (Transport), S. G. Laud, B.Sc., (Mech. & Elec.) (Banaras Univ.), M.M.E.A.
Distribution Engineer, K. N. Rao, B.Sc., B.E., A.M.I.E. (India).
Services Engineer, P. V. Keskar, D.M.E. D.E.E. (Nottingham), A.M.I.E. (India).
Chief Accounts Officer, G. J. Gadre, B.Com., F.C.A.
Traffic Manager (Trams), J. M. Gandevia.
Traffic Manager (Buses), C. D. Jeffereis.
Engineer-in-Charge (Way & Works), S. K. Banerji, C.E. (Roorkee), A.M.I.E. (Ind.).
Legal Adviser & Solicitor, R. S. Gavankar, B.A. (Hons.), LL.B.
Personnel Officer, S. S. Rege, B.A. (Hons.).
Public Relations Officer, J. D. Joglekar, LL.B.

BOMBAY CHRISTIAN BURIAL BOARD

Sewri Cemetery, Bombay 15

N. G. Abhyankar, I.A.S. (Collector of Bombay), *Chairman.*
K. Matthan, B.A., B.Sc. (Eng.), *Honorary Secretary, BEST House, Fort, Bombay.*
H. V. Laughlin, and T. C. Falcao, *Cemetery Clerks, Sewri Cemetery, Bombay* 15.

OTHER MEMBERS.

The Venerable the Archdeacon of Bombay.
The Chaplain of St. Thomas' Cathedral.
The Minister, the Church of Scotland.
The Chaplain of Byculla.
The Chaplain of Holy Name Church, Wodehouse Road.
The Chaplain of St. Anne's Church, Mazagaon.

ELECTED MEMBERS.

J. S. Pereira, B.A., B.Sc.

HONORARY PRESIDENCY MAGISTRATES AND JUSTICES OF THE PEACE FOR GREATER BOMBAY

Shalome Abraham, Jaswantlal Varjivandas Agashivala, Shrimati Deena Ahmedullah, Dr. J. W. Airan, Smt. Piroj Anandkar.

Anant Narayan Bagwe, Shrimati Meenakshi Dattaprasanna Bakhle, Anant Sakaram Bakhre, Dalip Singh Bakshi, Smt. Homai H. Peerbhoy, Shamlal Harilal Bhagwati, D. L. Bhatt, Dr. Suryakant Jethalal Bhatt, M. S. Bhavanji, Dr. Madhav Narayan Birje, Janardhan Ganpatrao Bodhe.

Thiruvilvamala Venkatakrishna Chidambaran.

Smt. Nalini Shantaram Dahanukar, Shrimati Tarunica Venila, Dehejia, Ladkoba Shrirang Desai, Madhusudhan Bhailal Desai, Shapur Fredun Desai, Dattatraya D. Deshpande, Vaman Hari Deshpande, Dr. Khanderao Anandrao Dhairyawan, Rusi Cooverji Doodhmal, Smt. Parviz M. Dubash, Phiroz Darabshaw Dubash.

Manmohan Purshottam Gandhi, H. D. Gaokar, A. P. Ghandy, Smt. Kamalini K. Gokhale, Yeshwant Arjoonrao Gole, Dr. Arsene Gomes.

* Resignation from August 31, 1951, is reported.

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Pestonji Cawasji Hansotia, Dr. R. V. Herwadkar, Dr. Mohan Vasudeo Hindlekar.

K. R. Irani, Dr. Ganpat Vishram Jadhav, Hindurao Bhaskarrao Jadhav, Natwarlal Bhimbhai Jagirdar, M. V. B. Jayakar, Shrimati Indira Purshottam Joshi, Keshavlal Dalpatram Joshi, Shrimati Sushila Dattatraya Joshi.

Dr. Dattatraya Nagesh Kale, T. A. Kamat, Tribhuwan Damodar Kansara, Babubhai Motilal Kapadia, Smt. Neera Y. Karande, D. G. Kher, H. N. Khira, M. D. Kooka, Dr. Gangadhar Subrao Koppikar, Krishnarao Moreshwar Kotasthane, Dr. Mansukhlal Chotalal Kothary, Atmaram Narayan Kothare, Peshotan Sorabji Kuka.

M. G. Mahimtura, Behram Kaikobad Marzban, Rustom Phirozeshah Marzban, Dr. Homi Shapurji Mehta, Rama Rao Venkat Rao Melmane, Dr. J. J. Merchant, Shrimati Sulochana Mohanlal Modi, Dr. J. I. C. Moraes, Balkrishna Manikrao Mulgaonkar, Phiroze Rustomjee Mullaferoze.

Dr. Balkrishna Ramchandra Nayen, Shrimati Kamala Vishnu Nimbkar, Vishnu R. Nimbkar, Dattatraya Ganesh Nimbkar.

W. R. Patankar, Smt. Daya Patwardhan, Narshibhai Jhaverbhai Patel, Dr. Raghubhai Maganlal Patel, Jehangir Jamshedji K. Patell, Dr. H. F. Pavri, Dr. R. K. Pavri, Balkrishna Parshuram Pathak, Shrimati Leelabai Vithal Phadke, Shrimati Manorama Gangadhar Phadke, Dr. (Shrimati) Champubai Dattatraya Pradhan, Dr. Gajanan Dinkar Purandar, Dr. Narayan Raghunath Purandare.

V. V. Ranade, Janardan Mahadeo Rane, Dr. V. D. Rao, Shrimati Lila Mastakar Rele, Shrimati Bridget Leo Rodrigues.

Shrimati Nirmala Manohar Samarth, Amersey Odhavji Sanghvi, Bicaji Bhujangrao Sardeshpande, Gajanan Waman Sathe, Smt. Banoo P. Sethna, Shrimati Khorshed Minocher Sethna, Bhogilal Chimanlal Shah, Chunilal Jhaverchand Shah, Harshavadan Jivanlal Shah, Narandas Mohanlal Shah, Abdul Hussain Kassam Shaikh, Hassan Shaikh, Shrimati Sarala Jayachandra Sheth, Shanischandra Chimanlal Sheth, Sahadeo Sitaram Shivatarkar, Dr. V. F. Sequeira, B. R. Sunkersett.

D. T. Talwalkar, Jayantilal Kalyanrai Thakore, Charandas Meghji Mathradas Toprani, Dr. (Smt.) Sumati B. Vagal, Vaman Pundlik Varde.

Shrimati Avabai Bomanji Wadia, D.P. Waghchowrey, Laxmikant Narayan Welingkar, Smt. Banoo P. Sethna, Kumari N. Durga Bhagwant.

JUSTICES OF THE PEACE (OFFICIALS)

Abhyankar, N. G., I.A.S.; Abhyankar, P. H., B.A., B.Com., LL.B. Agarwal, J. C., I.A.S.; Ahmad, N. L., M.A. (Aligarh), B.Litt. (Oxon); Alexander, Captain P.; Alvares, E. M., M.A., LL.B.; Anand, D. B., I.S.E.; H. Ananda Rao; Aras, R. G., B.Sc. (Bom.), B.Sc. (Tech.) (Manchester), A.M.I.E. (Ind), A.M.I.E.E. (Eng.); Ayyar, Ramakrishna, I.A. & A.S.; Badami, P. S., B.A. (Hons.), B.Sc., Bar-at-Law.; Bambawale, B. A., I.C.S.; Barve, S. G., I.C.S.; Bedekar, G. V., I.C.S.; Belavadi, S. H., B.Sc., LL.B.; Berry, T.; Bhalla, S. L., I.A. & A.S.; Bhinge, R. L., I.P.S.; Bhonsale, B. A.; Bijawargi, S. M.; Borkar, D. S., B.E., A.M.I.E.; Borwankar, S. G., B.E.; Bowman, J. B., I.C.S.; Cabral, J. R., B.Sc. (Hons.); Cameron, Captain Douglas St. John; Cariapa, B. C., I.A.S.; Chavan, S. V., I.A.S.; Chinmulgund, P. J., I.C.S.; Dafle, A. R.; Dalal, B. P., I.C.S. (Retd.); Dalal, P. D., B.A. (Hons.), LL.B.; Damry, P. N., I.A.S.; Datar, V. S., M.A., M.L.; Desai, M. W., I.A.S.; Desai, T. B., B.Sc., LL.B.; Deshmukh, B. D., B.A., LL.B.; Deshmukh, K. N., B.E.; Deshpande, B. T.; Deo, M. V., I.A.S.; Dhurandhar, J. R., B.A., LL.B.; Dhurandhar, S. W., B.A., LL.B.; Dias, A. L., I.C.S.; Donde, P. K.; Dravid, N. K., I.C.S.; D'Souza, J. B., I.A.S.; Ghangurde, V. R., B.E., A.M.I.E. (Ind.), M.S.E. (II); Ghate, B. G., I.A.S.; Godse, Chandrakantrao; Gowardhan, B. K., I.P.S.; Harvey, Captain, M.F.S.C.; Heble, M. N., I.A.S.; Irani, V. K., M.A., LL.B.; Iyengar, B. R. R., B.Sc. (Hons.), D.I.I.Sc., M.A.I.E.E. (U.S.A.), M.I.E. (Ind.), Iyer, Muthu Ganapathy, Jadhav, M. K., F.R.I.B.A. (Lond.), F.I.A.A. dip, Arct. (V.C.I.); Jain, R. N.; Jasjit Singh, I.A.S.; Jathar, S. B.; Jasudason, Captain L. N. C.; Joshi, R. C. I.C.S.; Joshi, V. M., I.C.S.; Kadam Bande, T. M., I.P.S.; Kailaspathy, S. V., A.C.A.; Kale, D. G., M.Sc., Bar-at-Law; Kale, M. D., B.S.E. (I); Kamble, D. B., I.A.S.; Kamruddin, S. M., I.A.S.; Kanekar, Dr. M. B., M.B.B.S.; Kanetkar, V. G., I.P.; Karmarkar, Rear-Admiral S. G., Karnik, S. P., I.P.S.; Kasbekar, M. S., I.P.S.; Kasbekar, P. D., I.A.S.; Kasbekar, Y. S., I.A.S.; Katey, V. R., I.A. & A.S.; Katre, M. G., I.P.S.; Khamgaonkar, D. A., I.P.S.; Khanna, D. R.; Kharabe, S. R., B.A., LL.B.; Khatri, S. M., M.A. (Cantab), Bar-at-Law; Khurody, D. N., I.D.D.; Koruthu, G., I.R.S.; Kulkarni, C. V., M.Sc., Ph.D.; Kulkarni, S. K., I.P.S.; Lal, Sukh Sampat; Lawale, P. S., I.A.S.; Lobo, John, I.P.S.; Lonkar, S. V., B.E.; Lulla, L. S., I.A.S.; Madan, D. J., I.A.S.; Majeed Ullah, S., I.P.S.; Majmundar, P. J.; Malkani, R. M., B.L. (Edin.), Bar-at-Law, Mandlekar, Dr. M. R., Ph.D. (Lond.); Mane, S. N., B.A.; Bar-atLaw; Maneckji, M. J. B.; Maneckji, Smt. P. M.; Marathe, G. M., B.Sc. (Eng.), A.M.I.E.E.; Meher, M. R., I.C.S. (Retd.); Mirchandani, B.D., I.C.S.; Mirchandani; U. M., I.C.S. (Retd.); Misbah, M., M.A.; Modak, E. S., I.P.; Moghe, K. K., I.A.S.; Mone, N. T., I.C.S.; Mugwe, M. G., I.P.S.; Murthy, N. G. K., I.S.E.; Nadkarni, P. S., I.A.S.; Namjoshi, P. K., M.A., LL.B.; Nanavatty, K. J., I.P.; Natu, S. V., B.S.E. (I); Natu, W. R., Nayar, K. C.; I.A.S.; Nigudkar, R. D., B.A., LL.B.; Padhye, M. G., B.E., M.S.E. (I); Palekar, D. G., B.A., LL.B.; Palekar, S.B., B.A. (Hons.); LL.B.; Palnitkar, M. S., I.A.S.; Pandit, G. M., I.S.E.; Pandya, P. C., M.A., LL.B., M.P.A. (U.S.A.); Parameswaran, C. S.; Parasuraman, S.T., Pardasani, N. S., I.A.S.; Parikh, R. R.; Parnaik, D. T., G.B.V.C.; Pathan, S. M. A., I.P.S.; Patel, D. B.; Pathak, W. R.; Patel, M. M.; Patil, H. S.; B.Sc.; LL.B.; Patil, P. B.; I.A.S.; Patil, S. D., B.Sc., LL.B.; Patwardhan, J. H., I.A.S.; Paymaster, B. B., I.C.S.; Phadkar, B. K.; Pimputkar, M. G., I.C.S.; Potnis, Smt. S. R., B.A. (Hons.)-LL.B.; Pradhan, D. R., I.C.S.; Pradhan, M. W.; Pradhan, R. D., I.A.S.; Pradhan, S. G., I.P.S.; Rahimtoolai S. J., B.A., LL.B., Bar-at-Law; Rajadhyaksha, A. G., I.P.; Rajadhyaksha, D. G., B.A. (Hons.), LL.B.; Rajagopalan, T. V., Rajwade, M. V.; I.A.S.; Rajwade, M. V., B.E.; Ramakrishna; Ramasubhan, S. S.; Razvi, S. N. A., I.A.S.; Rele, R. C.; B.Sc.; Row, S. A. L. Narayan; Saldanha, E. C., B.S.E. (I); Sami, V.; Samson, A. I., B.A., LL.B.; Sankaren, S.; Sapre, M. G., B.A., LL.B.; Sapre, S. N., I.A.S.; Sathe, D. D., I.C.S.; Shah, N. M., B.A., LL.B.; Seshadri, K. V., I.A.S.; Sheshgiri, B. S., B.Ag. (Bom.), B.Sc. (Lond.), M.Sc. (Cantab); Simoes, E. H.; Singh, Dr. Nagendra, I.C.S.; Srivastava, G. S.; Subandh, B. N.; Subhedar, W. G., I.A.S.; Sukhtankar, S. E., I.A.S.; Sundara Raman, N. V., I.A.S.; Swamy, N., I.A.S.; Syed, A. A., M.A., LL.B.; Tanksalwala, M. R., B.Com; Thorat, D. P. P., I.P.S.; Walawalkar, S. G., B.A. (Hons.), Yardi, M. R., I.C.S.

JUSTICES OF THE PEACE (NON-OFFICIALS)

(WITHIN AND FOR THE LOCAL AREA COMPRISED IN GREATER BOMBAY)

Abraham, Shalome; Acharekar, Rajaram Kashinath; Adnani Lachmandas Lilaram; Adenwalla, Nariman Dadabhoy; Adivarekar, Shankar Hari; Aga, Jamshed Burjor; Agarwal, Gopaldas Tulsiram; Agashiwalla, Jaswantlal Varjivandas; Ahirekar, Anant Vithal; Ahmedullah, Srimati Deena; Ahuja, G. S.; Ahuja, Kumari Kamala Jesaram; Airan, Dr. J. W.; Aiyer, Subbarayar Srinivas; Akshikar, K. G.; Ambalal, Kilachand; Ambardekar, Dr. G. S.; Amreliwala, Gulamhusein Alibhai; Amrolia, Jal Dhanjishaw; Anandkar, Kumari Pirojbai; Anklesaria, Dr. Dhirajlal Tribhuvan; Annigeri, Shrimati Sitabai; Ansari, Abdul Hamid; Antia, Gustasp Pirojshaw; Apte, Shrimati Manorama Laxman; Arolkar, Dharamraj Mahadeo; Arora, Ratanlal Mohanlal; Arsiwalla, Abdul Hussen Esaji; Awar, Sayaji Bhumaji.

Badami, Jayantilal Surchandra; Bagwe, Anant Narayan; Bakhle, Shrimati Meenakshi Dattaprasanna; Bakre, Anant Sakharam; Bakshi, Dalip Singh; Bakshi, Ramprasad P.; Bulsara, Jal Phiroze; Bandookwala, Eshakbai Abbasbhai; Banerjee, Shib Chandra; Banker, Shrimati Lilavati Dhirajlal; Banerjee, Shrimati Sarla Gopalchandra; Bapat, Vasant V.; Barodawalla, Abdul Hassain Salebhoy; Barve, Parshuram Mahadeo; Barve, Raghunath Dattaraya; Bastikar, Kumari Tara Ramkrishna; Bawla, Ismail Mohomed; Baxi, Dr. Kantilal Madanlal; Bedi, Awtar Singh Harnam Singh; Benjamin, S.; Bhabha, Cooverji Hormasji; Bhagwat, Kumar Durga N.; Bhagwati, Shamlal Harilal; Bhansali Dr. Kantilal Malukchand; Bharucha, Adam Musa; Bharucha, Meneckshaw Dossabhoy; Bhatt, Dinubhai Labhshankar; Bhatt, Kamalkant Kantilal; Bhatt, Suryakant Jethalal; Bhate, M. G.; Bhatlekar, M. K.; Bhatt, Prabhashankar Ramchandra; Bhau, Bhaskerbhai Jamnadas Narotamdas; Bhilpodiwalla, Minocher Cawasji; Bhise, Shrimati Snehalata Dattatraya; Bhiwandiwalla, Ardeshir H.; Bhoosrath, Dr. Vithal Rajaram; Bhosle, Shankarrao Dhondiram; Bhujpuria, Khimji Madaon; Billimoria, Shrimati Dhanbai Kaikhusroo; Billimoria, Major Nusserwanji Pirojshah; Birje, Madhav Narayan; Birla, Rameshwar Das; Bobade, Pandurang Baburao; Bodhe, Janardhan Ganpatrao; Brown, James Alexandar.

Cama, Muncherji Nusserwanji; Captain, Meherwanji Cursetji, Chalnani, Dr. Satrandas Khusalchand; Chandavarkar, Ganesh Laxman; Chandavarkar, Smt. Vatsalabai; Chaphekar, Shrimati Manorama Krishnaji; Chapsi Dwarkadas; Chaturbhuj, Gordhandas Vallabhdas; Chaves, Joseph; Chheda, Shivji Nathoo; Chellaram, Lokumal Kishinchand; Chidambaran, Thiruvilvamala Venkatakrishna; Chikhalikar, A. N.; Chinai, Babubhai Maneklal; Chitnis, Dr. Vasant Keshav; Chogle, Harivijay Waman; Chudasama, Shrimati Manharkuverbai Mansinhji; Contractor, Framroz Sorabji; Cooper, Peshotan Framji; Crasto, Justin Remi; Currimbhoy, Shrimati Zarina Ebrahim.

Dabholkar, Laxmikant Shantaram; Dahanukar, Shrimati Nalini Shantaram; Dalal, Shrimati Deviben S.; Dalal, Jayant Shivlal; Dalal, Merwanji Nadirsha; Dani, Jamubhai Vallabhdas; Daruvalla, Jal Khurshedji; Datey, Dr. K. K.; Dave, Bhaishankarbha Prashankar; Dave, Hiralal Aditram; Davavala, Vithaldas Girdharlal; Dayal, Shrimati Babiben Mulji; Dayal, Khatau Gordhandas; Dehejia, Shrimati Tarunica Venilal; Desai, Dr. Amul Maganlal; Desai, Chandrakant Mohanlal; Desai, Ganpatishanker Naranji; Desai, Hasmukhbhai Maganlal; Desai Krishnaprasad Chotalal; Desai, Dr. Ladkoba Shrirang; Desai, Madhusudan Bhailal; Desai, Shrimati Maniben N.; Desai, Shrimati Nirmala Dhanvantrai; Desai, Shapur Fredun; Desai, Vishnuprasad Nandrai; Deshpande, Dattatraya D.; Deshpande, Madhav Krishna; Deshpande, Waman

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Hari; Devatia, Shrimati Jollyben Harshidbhai; Dhairyawan, Dr. Khanderao Anandrao; Dhalla, Burjor Dadabhoy; Dharamdas, Hargovandas; Dhebri, Dr. Revtikant Purushottam; Dhoble, Dattatraya Amrit; Dhorajiwalla, Mohamedalli Aliji; Divgi, Bhavanishankar Padmanabh; Diwan, Govind Shrinivas; Doodhmal, Rusi Cooverji; Doshi, Dr. Dhirubhai Vallabhji; Dossa, Jamnadas Ramdas; Dubash, Bomanji Ardeshir; Dubash, Phiroz Darabshaw; Dubash, Rustomji Darabshaw; Dubash, Smt. P. M.

Ebrahim, Ramzanally Peermohamed; Engineer, Hormasji Jehangirji.

Fazalbhoy, Mohamed Akbar; Fazalbhoy, Mohammadali Gulamali; Fazalbhoy, Yusufali Abdulla; Fazalbhoy, Hussein Alimohamed; Ferreira, Dominic Joseph.

Gaikwad, Krishna Kalu; Gandhi, Himatlal Varjivan; Gandhi, Karsandas Mohanlal; Gandhi, Manmohan Purshottam; Gandhi, Dr. Nalinikant Mulchand; Gandhi, Navnitlal Mohanlal; Gandhi, Pravinchandra Varjivan; Gandhi, Ratilal Mulji; Gandhi, Wadilal Chatrabhuj; Gandhy, Adi Peshotan; Gaonkar, Gangadhar Kakasaheb; Gaonkar, H. D.; Garware, Bhalchandra Digambar; Gawankar, Shantaram Yeshwant; Ghaswalla, Harkishondas Laxmidas; Gheewala, Ochchhaulal Harkisondas; Ghia, Shrimati Chanchalaben Maganlal; Ghose, Nirendra Nath; Gogate, Manohar Narayan; Gokhale, Shrimati Kamalini Keshav; Gokhale, Ramchandra Ganesh; Goklaney, Lal H. V.; Gole, Yeshwant Arjunrao; Gomes, Dr. Arsene; Gramopadhye, Dr. G. B.; Gubby, Nagu Shriniwas; Gumaste, Keshav Balwant; Gupta, Kanahyalal Harichand; Gupta, Tarachand Khushiram; Gurjar, Narayan Pandurang.

Hafizka, Abdul Kader; Haji, Gulam Mohamed Ismail; Haji, Syed Aboo Mohamed; Hamied, Dr. K. A.; Hansotia, Pestonji Cawasji; Hansraj, Rattansey; Harris, Mohinuddin; Hate, Dr. (Shrimati) Chandrakala Anandrao; Heredia, James Nathaniel; Herwadkar, Dr. R. V.; Hindlekar, Dr. Mohan Vasudeo; Hiranandani, Divanmal Hardasmal; Hiranandani, Dr. Lakhumal Hiranand; Hirlekar, Shrimati Yamunabai K.; Hutheesing, Shrimati Krishna Gunottam.

Irabati, Laxman Balaji; Irani, Kaikhushroo Rustom; Ishar Singh, Daya Singh; Ismail, Shrimati Fathema; Ismail, Haji Hasham; Ismail, Mohamed Hassiam.

Jadhav, Ganpat Vishram; Jadhav, Hindurao Bhaskarrao; Jagirdar, Natwarlal Bhimbhai; Jain, Jaichand; Jairazbhoy, Hassanally Casamalli; Jalan, Ghanshamdas Kishanlal; Jalundhwala, Shrimati B. C.; Jambotkar, Gajanan Hari; Jasdenvala, Abdullabhai Adamji; Javeri, Narendra Mangaldas; Javeri, Navnitlal Chunilal; Jawkar, Dattaram Baburao; Jayakar, Madhukar Vishwasrao Balaji; Jeevandas, Kumari Prema; Jehangir, Smt. Hirabai Cowasji; Jhabwalla, Shrimati Meherbanoo Shiavax; Jhaveri, Nanubhai Kanthadbhai; Jeejeebhoy, Sir Jamsetjee; Jog, Ramchandra Ganesh; Joshi, C. B.; Joshi, Shrimati Indira Purshottam; Joshi, Jamiyatram Kashiram; Joshi, Keshavlal Dalpatram; Joshi, Dr. Mahadev Dattatraya; Joshi, Manishankar Devshankar; Joshi, R. B.; Joshi, Shrimati Sushila Dattatraya; Juvale, Yeshvant Mahadeo.

Kadam, Narayan Dhondu; Kadav, Vishnupant Kashinath; Kajrolkar, Ramchandra Sadoba; Kale, Dattatraya Nagesh; Kalidas, Shrimati Sulochana Amritlal; Kamdar, Bhagwandas Morarjee; Kamat, T. A.; Kanekar, Anant Atmaram; Kanhere, Dr. Laxman Hari; Kanji, Dwarkadas; Kanji, Jaisinh Vithaldas; Kansara, Tribhuvan Damodar; Kapadia, Babubhai Motilal; Kapadia, Framroze Pestonji; Kapadia, Pranlal Sunderji; Kapadia, Ratanshi Chapsi; Karande, Shrimati Neera Yeshwant; Karandikar, Dr. M. A.; Karanjia, Nariman Kaikhusroo; Karnik, Dr. Hemant Ramkrishna; Karuven, Shrimati Yeshoda Muliyil; Katre, Shrimati Vimal Waman; Kavarana, Minocher Rustomji; Kelkar, K. R.; Kerkar, Dr. Vishwanath Mangesh; Kesharwalla, Hirji Keshavji; Khadilkar, Yeshwant Krishna; Khambata, Shrimati Mehru Kaikhushru; Khandalwala, Shrimati Dina Dorab; Khandelwal, Jankidas Bhikkilal; Khandelwal, Ramprasad Ramchand; Khandwala, Shrimati Kanta Dhirajlal; Khandwala, Kumari Kapilaben; Khandwalla, Navinchandra Juliram; Khandke, Dattatraya Narahari; Khata, Dharamdas Bhogilal; Khatau, Dharamsey Mulraj; Khatkhatay, Shaikh Muhammad; Khedekar, Chintaman Bhambuji; Kher, D. G.; Khety, Abdulhusain Bedalbhoy; Khimji, Bhawanji Arjun; Khimji, Karsandas Tulsidas; Khira, Himmatlal Narshidas; Khopkar, Dr. Madhusudan Shankar; Khorakiwalla, Fakruddin Taherbhai; Kilachand, Tulsidas; Kirkire, Shrimati Kusum Gopal; Kirpalani, Shrimati Guli Hiranand; Kolge, Kashiram Sakharam; Koli, Narayan Chandraji; Kooka, Minochar Darashaw; Koppikar, Dr. Gangadhar Subbarao; Kotasthane, Krishnarao Moreshwar; Kothare, A. N.; Kothari, Dhirajlal Girdharlal; Kothari, Jamnadas Khimji; Kothari, Dr. Mansukhlal Chotalal; Kothari, Ratilal Chimanlal; Kothari, Vadilal Amritlal; Kothawala, Lt.-Col. Jamshed Dorabsha; Kshirsagar, Dnyandeo Shantaram; Kubal, Ankush Tukaram; Kudpi, Bhujangrao Nagayya; Kuka, Peshotan Sorabji; Kuka, Rustom Behram F.; Kulkarni, Gopal Ramchandra; Kulkarni, K. P.; Kulkarni, Dr. Ravindranath Narayanrao; Kulkarni, V. H.; Kulkarni, W. H.

Ladiwala, Jamnadas Kherajbhai; Lalan, Ramji Ravji; Lalji, Virajlal Vasanji; Lalji, Gulam Hussein Habib; Latif, Mohamed Abdul; Lathi, Jayantilal Laxmidas; Lele, Bhaskar Viswanath; Loke, Gajanan Shankar.

Madhavan, M.; Madurkar, Balkrishna Vithal; Mafatlal, Arvind Navinchandra; Magar, Dr. Shrimati Anjanabai Narhar; Mahadeshwar, Sakharam Babaji; Mahashabde, Govind Balkrishna; Maheshwari, Sharadchandra Bhavanji; Mahimtura, Dr. Mitrasen Gajanan; Mahindra, Harish; Maitra, Jagadish Chandra; Makani, Ibrahim Abdulla; Makharia, Gangadhar Chatrabhuj; Malelu, John Samuel Shamsunder; Mani, Ramswamy Subramanian; Mankar, Jayantilal Naradlal; Mariwalla, Vallabhdas Vasanji; Marzban, Behram Kaikobad; Marzban, Rustom Phirozeshah; Masani, Shrimati Dolly Pheroze F.; Masani, Minochar Rustom; Mashelkar, Narayanrao S.; Mathalone, Reginald; Mathradas, Haridas; Mathuradas, Dwarkadas; Matkar, Dr. Waman Shankar; Mehdi, Rajabally Kassam; Meher, Ghamji Manaji; Meher-Homji, Dr. Dady Rustomji; Mehta, Dr. Chamanlal Maneklal; Mehta, Chhotubhai Keshavji; Mehta, Dara Sorabji; Mehta, Dhirajlal Lalshankar; Mehta, Dr. Homi Shapurji; Mehta, Manilal Vijpal; Mehta, Markandrai Balwantrai; Mehta, Navalchand Abhechand; Mehta, Ratilal Bachardas; Mehta, Surendra Maganlal; Melmane, Rama Rao Venkat Rao; Merchant, Haji Mahomed Jamal; Merchant, Hansraj Parshottam; Merchant, Haridas Nensey; Merchant, Dr. Jamnadas Jagmohandas; Mhatre, Parshuram Atmaram; Miaji, Yusuf; Mirani, Hansraj Jivandas; Mistry, Rzhim Karim; Mithawala, Bhailal Mohanlal; Mittal, Morarilal; Modak, Narayan Vinayak; Modi, Shrimati Jerbai Homi; Modi, Shrimati Sulochana Mohanlal; Modi, Surendra Manilal; Mogre, Shantaram Moreshwar; Mohamed, Amin Mohamed Idris; Moraes, Dr. J. I. C. C.; Morakhia, Kantilal Ishwarlal; Morarji, Gordhandas Gokuldas; Morarka, Ratanlal Ramkumar; Motwani, Nanik Gyanchand; Mulgaonkar, Balkrishna Manikrao; Mullaferoze, Phiroze Rustomjee; Mydeo, Vasudev Govind.

Nadirsha, Erach Ardeshir; Nadkarni, Kumari Anusuya Mahadeo; Nagda, Laxmichand Cooverji; Nagwekar, Vishwas Mahadeo; Naik, P. G.; Naik, Dr. Ramrao Narayan; Nair Govind Parmeshwar; Nanavati, Shrimati Maniben; Naravane, Kashinath Ganesh; Narendra, Singh Mahinder Singh; Narottamdas, Dr. Gowardhandas Bhagwandas; Narsi, Muljibhai Vishram; Nathani, Sultan Alladin; Nathani, Sultan Karamali; Navalkar, Kumari Malati Vinayak; Nayen, Dr. Balkrishna Ramchandra; Nerurkar, R. S.; Nerurkar, Shrimati Sushila Digambar; Nikaljay, Shrimati Tarabai Ramchandra; Nimbkar, Shrimati Kamala Vishnu; Nimkar, Dattatraya Ganesh; Nimkar, Vishnu R.; Nurie, M. Y.

Oak, Dr. Shridhar Vithal; Oke, B. Y.; Oza, Gabharubhai Jivabhai; Oza, Indravadan Manmohanrai.

Pai, Nagnath Vasudeo; Pakvasa, Arvind Mangaldas; Pakvasa, Shrimati Purnima Arvind; Palaye, Padmanabh Shastri; Palekar, Gopal Purshottam; Palkar, Dr. J. M.; Pandit, Atmaram Bhaskar; Pandey, Ramsahai Shioprasad; Pandya, Chandulal Shivram; Panju, Esmail Abdulkarim; Panwala, Dr. Manubhai A.; Parekh, Chimanlal Bapalal; Parekh, Khushaldas Kurji; Parekh, Nathalal Manekchand; Parikh, Dr. Ambalal C.; Parikh, Chimanlal Motilal; Parikh, Prof. G. D.; Parikh, Ramanlal Mohanlal; Parikh, Kumari Dr. Vidyaben C.; Parulekar, Anant Vithal; Patankar W. R.; Patel, Dahyabhai Shankarbhai; Patel, Dayabhai Vallabhbhai; Patel, Ishwarbhai Somabhai; Patel, Dr. Jal Ratanji; Patel, Jehangir Jamshedji K.; Patel, Narsibhai Javerbhai; Patel, Dr. Nathoobhai Dayalji; Patel, Pralhadbhai Keshavlal; Patel, Pramukhalal Manilal; Patel, Dr. Raghubhai Maganbhai; Patel, Rustom Eduljee; Patel, Vallabhbhai Motibhai; Patil, Kanojkumar Gopal; Patkar, Dr. Shrirang Jagannath; Patkar, Sitaram Ramchandra; Patrao, Dr. Stanislaus; Patuck, Sorab N. C.; Patwa, Venilal Narottamdas; Patwardhan, Shrimati Dayabai; Patwardhan, Dr. Shivram Vishwanath; Pavri, Home Framroze; Pavri, Dr. Hormusji Framroze; Pavri, Pirojshaw Framroz; Pavri, Dr. Ratanshaw Kaikhasru; Pawar, Nathuram Pandurang; Phadke, Dr. G. M.; Phadke, Shrimati Leelabai Vithal; Peerbhoy, Shrimati Homai A.; Phadke, Shrimati Manorama Gangadhar; Phatak, Balkrishna Parshuram; Pinto, Frederick Michael; Podar, Ghanshamdas Sitaram; Podar, Ramnath Anandilal; Looneger, Nasserwan Hormasji; Poonajiajee, Jehangir Jamshedjee; Popat, Dr. Mohanlal Bhavanbhai; Potia, Fidda Ali Mohamed Ali; Prabhudesai, Dr. V. K.; Pradhan, Dr. Shrimati Champabai Dattatraya; Pradhan, Shantaram Govind; Pratap, Bhogilal; Pratapsing, Mathuradas Vissonji; Pratapsinh, Shoorji Vallabhdas; Premchand, Shrimati Tarabai Maneklal; Premji, Mohamed Hussain Hasham; Priyolkar, Anant Kakba; Pundole, Noshir Nowroji; Pupala, Narsingrao Chinappa; Purandare, Dr. Gajanan Dinkar; Purandare, Dr. Narayan Raghunath; Purandare, Dr. V. S.; Purushotham Kanji.

Rahimtoola, Fazal Ibrahim; Raiji, Shrimati Jayashri; Raipelly, Dashrath Bapurao; Rajadhyaksha, Dr. Bhalchandra Hari; Rajadhyax, M. V.; Rajpal, Ghanshamdas Naraindas; Ramdas, Kilachand Devchand; Ramalingam, A. C.; Ranade, V. V.; Rane, Janardhan Mahadeo; Rane, Dr. Jayanand Moreshwar; Rane, Shrimati Snehalata Ramrao; Rangoonwala, Zainulabidin Gulamhusain; Rao, Dr. Sujir Sanjiva; Rao, Dr. V. D.; Ratansi, Mulji; Rattansey, Devji; Raval, Dr. Vasudeo Gulabram; Raw, Kavi Sadashiv Jaganivas; Rege, P. S.; Rege, Shivram Dattatraya; Rele, Shrimati Leela Mastakar; Rodrigues, Leo; Rodrigues, Shrimati Bridget Leo; Ruia, Ramniwas Ramnarain; Rustomjee, Kumari Amy B. H. J.

Sabharwal, Harbans Singh Jodh Singh; Saifyuddin, Salebhai Saheb; Said, Dr. Sayed Mohommed; Salebhoy, Abdul Kadar; Salla, Virji Narsi; Salvey, Gajanan Sadashiv; Salvi, Pandharinath Mahadeo; Samant, Narayan Daji; Samant, Shrimati Sharayu Shamrao; Samant, Yeshwant Atmaram; Samarth, Shrimati Nirmala Manohar; Samarth, Raghunath Narayan; Sanghvi, Amersey Odavji; Santos, John; Sapre, Dhondu V.; Sarang, Abdul Kadar Mohamed; Saraiya, Shrimati Padmavati Ramanlal; Saraiya,

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Ramanlal Gokaldas; Sardeshpande, Bhicaji Bhujangrao; Sathe, Gajanan Vaman; Savani, Maganbhai Nanjibhai; Savla, Hirji Ghelabhai; Sayani, Shrimati Kulsum Janmohmed; Sethna, Shrimati Banu Pirozshah; Sethna, Shrimati Dina Kawasji; Sethna, Shrimati Khurshid Minocher; Sethna, Khushru Shiavax; Sethna, Ratan Shiavax; Shah, Bhogilal Chimanlal; Shah, Chandulal Somalal; Shah, Chandulal Tribhuvandas; Shah, Chandulal Vardhman; Shah, Chunilal Javerchand; Shah, Gambhirchand Oomedchand; Shah, Gangji Devraj; Shah, Harshavadan Jeevanlal; Shah, Indulal Hiralal; Shah, Jivraj Bhanjo; Shah, Khushalbhai Khengar; Shah, Laxmichand Lalji Ramji; Shah, Lakhamsi Ghelabhai; Shah, Liladhar Passoo; Shah, Madhavlal Hiralal; Shah, Mahendra Jivanlal; Shah, Dr Nagindas Nanamal; Shah, Narandas Mohanlal; Shah, Pannalal B.; Shah, Ratilal Dahyabhai; Shah, Shantilal Chunilal; Shah, Shantilal Hiralal; Shah, Shantilal M.; Shah, Vithaldas Hakamchand; Shaikh, Abdulhussain Kassam; Shaikh, Hassan; Sharma, Jagdeo Shankar; Sharma, Kantilal Mohanlal; Shavaksha, Shrimati Gook K. S.; Sheode, Shankar Krishna; Shete, Dattaram Ganpatrao; Sheth, Smt. Sarala Jaychandra; Sheth, Shanischandra Chimanlal; Sheth, Dr. Shantilal Chhaganlal; Shetye, Vasudeo Govind; Shinday, Dr. Baburao Nanasaheb; Shivtarkar, Sahadeo Sitaram; Shivtarkar, Sitaram Namdeo; Sinha, Bindeshwar Prasad; Sequeira, Dr. Victor Frederick; Sodha, Hiralal Tribhuwandas; Somaya, Gokuldas Velji; Songaonker, Savlaram Gundaji; Soondardas, Morarjee; Soudagar, Gulamnabi Haji Abdul Rehman; Sovani, Smt. Kamla Shankar; Sovani, Shankar Vinayak; Sthalekar, Anant Sheshgiri; Subramaniam, K. G.; Sukhtankar, Sadanand Ramchandra; Sunkersett, Bhalchandra Raoji; Syed, Ibrahim Burhah.

Taher, Mohamed Habibulla; Talwalkar, Dattatraya Trimbak; Tapuriah, Motilal Mugutmal; Tata, J. R. D.; Tata, Naval Hormusji; Thacker, Ramji Lavji; Thackersey, Krishanaraj Madhavjee Damodhar; Thackersey, Shrimati Premlila Vithaldas; Thakare, Sahadeo Mukund; Thakore, Jayantilal Kalyanray; Thakore, Kantilal Motilal; Thakur, Maheshwar Vishnu; Thar, Shantilal Liladhar; Tope, T. K.; Tripathi, Ramratan Ayodhyaprasad; Trivedi, Harishkumar Narbheshankar; Tulla, Vishwanath Rajanna; Tyebjee, Dawoodkhan Salebhoy; Toprani, Charandas Megji; Trilokekar, Shrimati Manorama K.

Upadhyaya, Purshottamdas Uttamram.

Vagal, Dr. Shrimati Sumati Balaram; Vahalia, Harisukh Harilal; Vaidya, Balkrishna Narayan; Vaidya, Shrimati Bhanumati Murarji; Vaidya, Murarji Jadavji; Vaidyanathan, Lalgadi Swaminath; Vakharia, Dwarkadas Haridas; Vakharia, Maniklal Nathabhai; Vakil, Vasantram Jamiatram; Vallabhdas, Peraj; Varadkar, Parshuram Vishwanath; Varde, Vaman Pundalik; Vartak, Dr. Purshottam Gajanan; Vatcha, Rustom Sorabji; Vazifdar, Shrimati Shera Noshir; Vaziralli, Nazirhussein; Velinkar, Vasant Shrikrishna; Vengsarkar, Dr. Sawlaram Ganpatrao; Vengsarkar, Shrimati Sumatibai Sawlaram; Verma, Mangaldas Nandlal; Vora, Chhotalal Bhaichand; Vyas, Mulshankar Hirji.

Wadia, Shrimati Awabai Bomanji; Wadia, Jamshed Bomanji; Wadia, Neville Ness; Wadia, Dr. Sarosh Ratanji; Wagh, Waman Wasudeo; Waghchourey, D. P.; Walavalkar, Shrimati Lalitprabha Wasudeo; Walkatti, Sidram Tipanna; Wellingkar, Laxmikant Narayan; Worlikar, Wasudeo Balkrishna.

Yagnik, Shrimati Pramila Bhanushankar; Yevale, Hari Abaji; Yusuf, Abdul Rahiman Mohamad.

RAILWAY PERSONNEL IN BOMBAY

BOMBAY PORT TRUST RAILWAY

Manager, J. N. Adaggra, B.A.
Assistant Managers, H. A. Mirza; D. R. S. Basrur, M.A.; N. P. Bapat, B.A. (Hons.), LL.B.
Assistant Managers (Junior), J. A. Vaz, B.A.; H. J. Kapadia.

CENTRAL RAILWAY

Offices :—Victoria Terminus, Bombay

GENERAL MANAGER'S OFFICE

V.T., Bombay

General Manager, Des Raj Khanna.
Senior Deputy General Manager, A. N. Mukherjee.
Secretary to the General Manager, K. V. Pandit, B.A. (Hons.).
Statistical Officer, K. Sambamurthy.
Compilation Officer, G. D. Joseph, B.A.
Public Relations Officer, B. Natarajan, M.A.
Assistant Public Relations Officer, C. K. Kolady, B.Sc.
Advertisement Officer, R. B. Manelkar, B.A.

PERSONNEL ORGANIZATION

Chief Personnel Officer, C. S. Parameswaran.
Dy. Chief Personnel Officer, A. R. Sundara Rajan.

ENGINEERING DEPARTMENT

Bombay Division (Headquarters).

Chief Engineer, Bombay, A. V. D'Costa.
Chief Engineer (Construction), V. S. Sathe, B.E., B.Sc. (Eng.), Hons. Lond. Dip., N.C. (Lond.), M.I.E. (Ind.), Fellow, P.N. Inst.
Deputy Chief Engineers, Bombay, G. A. Sheriff (*Headquarters*); S. Wahabuddin Ahmed, B.Sc., A.M.I.E., A.E.G.I. (*South*); P. Govinda Rao (*Construction*); S. Venkatraman (*Central*); S. Rodriques, B.E. (*North*); P. H. Mehta (*Bridges*).

OPERATING DEPARTMENT

Head Office (Bombay), Victoria Terminus.

Chief Operating Superintendent, V. T. Narayanan, M.A.
Deputy Chief Optg. Superintendents, Mohd. Faqhuddin, B.Com. (Leeds), Bar-at-Law, R.F.E.S. (Lond.) (*Coaching*); S. R. Gokhale, B.Sc. (*Goods*).
Divisional Optg. Superintendent (Goods), C. K. Swaminathan, B.E.
Divisional Optg. Superintendent (Coaching), D. R. Misra.
Divisional Optg. Superintendent (Planning & Projects), T. V. Srinivasan, B.Sc.

Bombay Division

Divisional Supdt., P. N. Kaul.
Divisional Optg. Supdt. (Movement), H. V. Samuel, B.A. (Hons.).
Divisional Personnel Officer, S. K. Nair, M.Sc.
Divisional Mechanical Engineer, M. A. Cherian, B.Sc.

COMMERCIAL DEPARTMENT

V.T., Bombay

Chief Commercial Superintendent, D. B. Patel.
Dy. Chief Commercial Superintendents, S. P. Ranganathan, B.A., M.Sc. (*General*); K. S. J. Dalal, B.A., LL.B. (*Claims*).
Divisional Commercial Superintendents, S. K. Agrawal, B.E. (*Developments*); G. F. Velloz, B.Sc. (Hons.) (*Refunds & Rates*); M. J. Ali Khan, B.A. (*General*); C. S. Christian, M.A. (*Catering*); B. V. Nadkarni (*Claims Prevention*).
Superintendent of Claims, B. K. Verma, M.Sc., LL.B.

TRANSPORTATION (POWER) AND MECHANICAL ENGINEERING DEPARTMENT

Headquarters Office, Bombay, V.T.

Chief Mechanical Engineer, K. C. Chopra.
Dy. Chief Mechanical Engineers, R. D. Nadirshaw, A.M.I. Mech. E., A.M.I. LOCO. E.; A. Balakrishnan, B.E., A.M.I. LOCO. E.

Locomotive Workshops, Parel

Works Manager, S. C. Vadera, A.M.I.E.
Production Engineer, L. C. Chib-Gral, I.M.E.

Carriage & Wagon Workshops, Matunga

Works Manager, M. K. Kapur, A.M.I.M.E.
Production Engineer, M. M. Luther, A.M.I.M.E.

SIGNALS & TELE-COMMUNICATION DEPARTMENT

Chief Signal & Tele-Com. Engineer, Vacant.
Dy. Signal & Tele-Com. Engineer, D. P. Purang, B.Sc., C.E. (Hons.), A.M.I.Tele. Com. E.
Divisional Signal & Tele-Com. Engineers, C. K. Ramachandran, B.E.; H. G. S. Rao.

ELECTRICAL BRANCH

Chief Electrical Engineer, J. D. Malhotra, A.M.I.E.E., A.M.I.E. (India).
Dy. Chief Electrical Engineer, D. S. Mehta.

KALYAN POWER HOUSE, THAKURLI

Power House Superintendent, V. Seetharaman.

STORES DEPARTMENT

Head Office :—Victoria Terminus, Bombay

Controller of Stores, F. J. Vachha, B.A. (Hons.), B.E. (Hons.), B.Sc. Hons. Lond., A.M.I.Struc.E., A.M.I.San.E.
Dy. Controller of Stores, S. G. Ghosalkar, B.E.
Dy. Controller of Stores (Planning), G. C. Basavaraj, B.E.

ACCOUNTS DEPARTMENT

V.T., Bombay and Secunderabad

Financial Adviser and Chief Accounts Officer, G. F. Penu Anthony, M.A.
Dy. Chief Accounts Officer, Finance, L. N. Kaula, B.Sc.
Deputy Chief Accounts Officer (General), M. A. Hai.

MEDICAL DEPARTMENT

Chief Medical Officer, Dr. R. C. Vevania, M.B.B.S. (Bom.), L.R.C.P. (Lond.), M.R.C.S. (Eng.), D.T.M. & H. (Lond.), B.P.H. (Bombay).

SECURITY DEPARTMENT

Chief Security Officer, M. G. Heblikar, I.P.S.
Security Officer, S. Bashir Ahmed.

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WESTERN RAILWAY

HEADQUARTERS OFFICE, CHURCHGATE (GENERAL & PERSONNEL)

General Manager, S. S. Ramasubban, M.A.
Senior Deputy General Manager, R. Krishnaswamy.*
Dy. General Manager (General), M. J. Patel, B.E. (Bom.), A.M.I.Struc.E.
Secretary to General Manager, G. K. Sathe, B.Sc.
Public Relations Officer, M. L. Gupta, B.A.
Statistical Officer, A. Aranjo, B.A., B.Com.
Efficiency Officer, P. N. Jha, G.I.Mech.E. (Lond.).
Compilation Officer, H. S. Chandwani.
Law Officer, V. D. Thatte, B.A., LL.B.
Executive Engineer (Vigilance Cell), S. A. Desai, B.E., A.M.I.E.
Senior Accounts Officer (Vigilance Cell), S. Y. Kalyanasundaram, M.A.

Personnel

Chief Personnel Officer, S. S. Lal, M.I.L.E.
Dy. Chief Personnel Officer, P. K. Ananthanarayanan, B.A. (Hons.).

Accounts Department

Financial Adviser and Chief Accounts Officer, S. G. Pathan.
Dy. Financial Adviser, E. Vardachari.
Dy. Chief Accounts Officer (General), G. L. Bhatia, B.A. (Hons.).

Engineering Department

Chief Engineer, C. L. Kapur, B.Sc. (Lond.).
Chief Engineer (Survey and Construction), M. B. Patel, B.Sc., (Eng.), A.C.G.I., A.F.P.W.I.
Deputy Chief Engineers (South), J. S. Khergamwala, B.E., A.M.I.E.; *(Centre)*, G. N. Mehta, B.E., A.M.I.E., A.F.P.W. (Lond.); *(North)*, U. H. Mehta, B.Sc., A.C.G.I., A.F.P.W.I.; *(West)*, A. N. Albuquerque B.Sc.; *(Bridges)*, V. Giridhardas, B.E. (Madras); *(Survey and Construction)*, S. S. Gohel, B.Sc. (Lond.); *(Construction—Udaipur)*, R. S. Barve, B.E. (Civil).

Signal and Telecommunication Department

Chief Signal and Telecommunication Engineer, G. R. Pathak, L.M.E., L.E.E. (Bom.), A.M.I.R.S.E., A.F.P.W.Inst.
Dy. Chief Signal and Telecommunication Engineer, P. R. Mullan, A.M.I.R.S.E. Grad. Inst.

Electrical Department

Chief Electrical Engineer, S. C. B. Mazumder, B.Sc. (Elec. & Mech.) (Glasgow).
Dy. Chief Electrical Engineer, T. S. Vishwanathan.

Mechanical Department

Chief Mechanical Engineer, J. F. Muncherjee.
Dy. Chief Mechanical Engineer (Loco.), D. V. Ketkar, B.Sc.
Dy. Chief Mechanical Engineer (C. & W.), Kailash Nath, B.Sc., A.M.I.M.E., A.M.I.L.E.
Dy. Chief Mechanical Engineer (W), K.G. Hiranandani, G.I. Mech. E., G.I. Loco. E. (Lond.).
Dy. Chief Operating Supdt. (Power), E. R. Shroff, A.M.I.Loco.E. (Lond.).
Divisional Mechanical Engineer—Bombay, D. Gilder.

Transportation (Traffic) and Commercial Department

Chief Operating Supdt., N. S. Swaminathan.
Chief Commercial Supdt., T. N. Parthasarathi, B.Sc., M.A.
Dy. Chief Commercial Supdt. (G), V. R. Kewalramani, M.A., LL.B. (Bombay), B.Sc. (Econ.) (Lond.).
Dy. Chief Commercial Supdt. (Claims), S. G. Samant, M.Sc. (Bombay).
Dy. Chief Commercial Supdt. (Development), S. M. C. Pinto, M.A.
Road Superintendent, Vacant.
Dy. Chief Operating Supdt. (Coaching), K. K. Pooviah, B.A., B.Sc. (Bombay).
Dy. Chief Operating Supdt. (Goods), R. Srinivasan, B.Sc.
Dy. Chief Operating Supdt. (Planning), S. N. Sachdev, B.A. (Punjab).

Bombay Division

Divisional Operating Supdt., O. E. Oommen, B.Sc. (Hons.).
Divisional Commercial Supdt., N. R. K. Krishnan, M.A. (Madras).

STORES DEPARTMENT

Controller of Stores (Bombay), P. C. Vaidh.
Deputy Controller of Stores (G.), P. P. Narvekar, B.E. (Civil).
Dy. Controller of Stores (Planning & Works), Bombay, B. B. Bansal.

MEDICAL DEPARTMENT

Chief Medical Officer, Bombay, Dr. A. Lakshminarayanan, M.B.B.S.

RAILWAY PROTECTION FORCE

Chief Security Officer, Bombay, K. S. Pravinsinhji, I.P.

RAILWAY SERVICE COMMISSION, BOMBAY

(Churchgate Station Bldg., 1st Floor, Bombay 1).

Chairman, D. S. Sonone.
Member, D. D. Sethna.
Secretary, Vacant.

MANIPUR

ADMINISTRATIVE PERSONNEL

Imphal, Manipur.

Chief Commissioner, Jagat Mohan Nath Raina, I.A.S.
Chief Secretary, C. S. Nayar.
Judicial Commissioner, T. N. R. Tirumalpad.
Deputy Commissioner & Development Commissioner, M. L. Kampani.
Secretary, Development, T. Kipgen.
Secretary, Law, H. C. Agarwala.
Secretary (Medical), S. Gourhari Singh.
Secretary (Works), Y. P. Kohli (*Ag.*).
Secretary (Edn.), S. D. Bahuguna.
Secretary (Finance), S. P. S. Sodhi, I.A. & A.S.
Additional Development Commissioner, W. S. Rynjah.
Addl. District Magistrate, S. Goswami, I.F.A.S.
Dist. and Sessions Judge, Chandra Prakash.
Publicity Officer, S. Gopendra Sharma.
Director, Medical & Health Services, W. C. Malbotra.
Supdt. of Police, L. Gipal Singh.
Commandant, Manipur Rifles, L. H. Hartnett.
Registrar, Co-operative Societies, M. Shivana.
Director of Agriculture, L. Udhob Singh.
Director of Industries, Y. Bir Chandra Singh.
Chief Forest Officer, R. K. Bijoychandra Singh.
Chief Fisheries Officer, M. Radheshyam Singh.
Taxation Officer, R. K. Sanahal Singh.
Principal Engineer, Y. P. Kohli.
State Trading Officer, T. Kalachand Singh.

MYSORE

GOVERNOR

His Highness Sri Jaya Chamaraja Wadiyar, G.C.B., G.C.S.I.
Secretary, M. Satchidanand Murthy.

MINISTERS

Chief Minister, Home, Commerce and Industry excluding Cottage and Rural Industries, Ports, Plannning and Development Departments, B. D. Jatti.
Finance, T. Mariappa.
Revenue, including all matters pertaining to land and Stamps and registration, Kadidal Manjappa.
Local Self-Government, including Village Panchayats, Housing and Rural Water Supply, T. Subramanya.
Education, Anna Rao Ganamukhi.
Public Works and Electricity, H. K. Veeranna Gowda.
Social Welfare, Amelioration of Scheduled Castes, Scheduled Tribes and Backward Classes, Agriculture, Food, N. Rachiah.
Medicine and Public Health, including Indigenous Medicine and Public Health Sanitation, Dr. K. K. Hegde.
Transport, K. F. Patil.
Co-operation, Marketing, Warehousing, Weights and Measures and Cottage and Rural Industries, Mali Mariappa.
Law and Labour, B. Vaikunta Baliga.
Forests, H. S. Rudrappa.
Excise, Prohibition & Rural Industries, Veerendra Patil.
Home, H. M. Chennabasappa.

Deputy Ministers

Rural Industries, Smt. Leelavati Magadi.
Finance, J. H. Shamsuddin.
Public Works & Electricity, M. N. Naganoor.
Education, Mrs. Grace Tucker.
Planning & Development, H. C. Linga Reddy.
Home, B. Basavalingappa.

SECRETARIAT

Bangalore.

Chief Secretary and Ex-officio Development Commissioner, R. J. Rebello, I.A.S.
Secretary to Government, Finance Department, G. Mathais, I.A. and A.S.
Additional Development Commissioner and Ex-officio Secretary, Planning and Development Department, B. V. Iyengar, I.A.S.
Secretary to Government, Home Department, R. N. Vasudeva, I.A.S.
Secretary to Government, Local Self-Government and Public Health Department, M. S. Shankar Rao, I.A.S.
Secretary to Government, Commerce and Industries Department, V. Subramanyam, I.A.S.
Secretary to Government, Revenue Department M. S. Swaminathan, I.A.S.
Secretary to Government, Public Works and Electricity Department, R. Srinivasan, I.A.S.
Secretary to Government, Education Department, Mohamed Rahamatulla, I.A.S.
Secretary to Government, Law Department, R. P. Vasudeo, B.A., B.L.
Additional Secretary to Government, Law Department, T. K. Tukol, M.A., LL.B.
Secretary to Government, Agriculture and Forest Department, T. V. Reddy, I.A.S.
Secretary, Mysore Legislature, G. S. Venkataramana Iyer, B.Sc., M.L.
Secretary, Mysore Govt. Insurance Dept., A. Ramachandra Naidu, B.Sc.
Secretary, Financial Corporation, Mrs. B. Puttaraj, B.A., LL.B.

DIVISIONAL COMMISSIONERS

Divisional Commissioner, Belgaum Division, S. M. Vasudeva Rao, I.A.S.
Divisional Commissioner, Mysore Division, B. Beerappa, I.A.S.
Divisional Commissioner, Gulbarga Division, D. K. Srinivasachar, I.A.S.
Divisional Commissioner, Bangalore Division, K. Narayanaswamy, I.A.S.

HEADS OF DEPARTMENTS

Commissioner of Excise and Commercial Taxes, C. Narsimha Murthy, I.A.S.

* Appointed General Manager, Chittaranjan Locomotive Works from end of Sept. 1961.

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Commissioner for Settlement and Land Records, V. Byrappa, I.A.S.
Director and Vice-Chairman, Mysore Iron and Steel Works and Ex-officio Iron and Steel Controller, M. D. Shivananjappa, I.A.S.
Vice-Chairman, Board of Management of the Kolar Gold Mining Undertakings, K. Narayanaswamy, I.A.S. (Offg.)
Registrar of Co-operative Societies, K. R. Marudeva Gowda, I.A.S.
Inspector-General of Police, S. N. Hosali, I.P.
Director of Medical Services, Dr. V. R. Naidu, M.B.B.S., M.S.
Director of Public Health, Dr. C. Rajagopala Chetty.
Chief Engineer (General), K. M. Joshi, B.Sc., B.E.
Controller of State Accounts, H. Chikkanna, B.A.
Director of Printing, Stationery and Publication, D. S. Gurubasavappa, B.Sc.
Director of Govt. Gardens, Dr. M. H. Mari Gowda, M.Sc., Ph.D.
Director of Literary and Cultural Development, K. S. Dharaundriah, M.A., B.T.
Commissioner for Labour, Chief Inspector of Factories, Registrar of Trade Unions and Ex-officio Director, National Employment Service in Mysore, K. Seshadri, I.A.S.
Director of Public Instruction, A. C. Dyave Gowda, M.A., B.T.
Director of Technical Education, K. Channabasavappa, B.E., etc.
Director of Agriculture and Commissioner for Food Production, M. Mallaraj Urs, B.Sc. B.Sc. (Edin.).
Director of Animal Husbandry and Veterinary Services, Dr. K. S. Shetty, G. M. V. C., Ph.D.
Director of Industries and Commerce, T. Shamanna, I.A.S.
Chief Engineer, Hydro-Electric Construction, Projects, H. V. Narayana Rao, B.Sc., B.Sc. (Lond.).
Chief Engineer, Electricity Board, J. L. D'Sa, B.E., B.Sc. (Hons.), A.M.I.E.E.
Inspector-General of Prisons, R. R. Paydenkar, B.A.
Commissioner for Transport, M. Malleshaya, I.A.S.
General Manager, Mysore Government Road Transport Department, P. Muzahid, I.A.S.
Director of Social Welfare, M. Basappa, B.A.
Director of Mines and Geology, N. H. Mallikarjunnappa, B.Sc., M.Sc., F.G.S.
Chief Conservator of Forests, N. S. Kaikini, B.Sc., A.I.F.C.
Director of Sericulture, V. R. Uthaman, B.Sc.
Commissioner for Religious Endowment & Ex-Officio Director of Tourism, N. S. Ramachandra, I.A.S.
Superintendent of Census, K. Balasubramanyam, I.A.S.
Ports Officer, M. L. Adwani.
Principal Information Officer, Srisatyan, B.A. (Hon.).
Director of Archæology, Dr. M. Seshadri, M.A.
Director of Fisheries, V. V. Kalyani, M.Sc., B.T.
Government Architect, B. R. Manikyam, B.E.
Chief Electoral Officer, R. Sampath Kumaran, B.Sc.

HIGH COURT

Public Office Bldgs., Bangalore 1.

Ag. Chief Justice, Nittoor Srinivasa Rau; *Judges*, H. Hombe Gowda; A. R. Somnath Iyer; M. Sadasivayya; K. Sadananda Hegde; A. Narayana Pal; Ahmed Ali Khan (*Additional*); Mir Iqbal Hussain (*Addl.*); B. M. Kalagate (*Addl.*)

REVENUE APPELLATE TRIBUNAL

Chairman, B. M. Abu Baker, I.A.S.
Members, P. T. Kadkol, B.Sc., LL.B. (*Bangalore Bench*); N. S. Ramachandra, I.A.S. (*Bangalore Bench*); Vasudeva Rao, B.A. (Hons.), I.A.S. (*Belgaum Bench*); N. S. Methrani, B.A. (Hons.), LL.B. (*Belgaum Bench*).

MYSORE PUBLIC SERVICE COMMISSION

'Atara Kacheri', Bangalore.

Chairman, K. N. Padmanabhiah, B.A., LL.B.
Members, M. K. Appajappa, I.A.S.; Pampan Gowda, B.A., LL.B.
Secretary, Y. C. Hombalayya, I.A.S.
Asstt. Secy., M. Krishnaswamy.
Addl. Asst. Secretary, B. Channabasavappa, M.A., LL.B.

NAGALAND

(Hqrs.: Kohima)

EXECUTIVE COUNCILLORS:

Village Ranges, Tribal Councils, Planning and Community Development, Commerce and Large-Scale Industries and Relief and Rehabilitation, Silu Ao.
Medical and Public Health, Jasokie Angami.
Agriculture, Forests, Veterinary, Animal Husbandry and Education, R. C. Chiten Jamir.
Public Works and Cottage Industries, Hokishe Sema.
Fisheries and Excise, Akum Imlong Chang.

ORISSA

Administrative Personnel

GOVERNOR

Y. N. Sukthankar, M.A., LL.B. (Cantab.), Bar-at-Law, I.C.S. (Retd.).

PERSONAL STAFF

Secretary to Governor, Hit Prakash.
Asstt. Secretary, A. J. Rao.
Private Secretary, Balaram Baijal.
Aides-de-Camp, Sadananda Sinha, I.P.S., Capt. A. M. Nandkeolyar.

Ministers

Chief Minister, Bijayananda Patnaik.
Minister for Revenue, Excise and Development, Sadasiba Tripathy.
Minister for Health, P. V. Jagannath Rao.
Minister for Education, Development (Agriculture), Tribal and Rural Welfare, Pabitra Mohan Pradhan.
Minister for Works (Roads and Buildings) and Transport, Harihar Singh Mardaraj.
Minister for Political and Services, Health, Planning and Co-ordination, Biren Mitra.
Minister for Home, Commerce, Labour and Supply, Nilamani Rontray.

Officials

Chief Secretary, V. Ramanathan, I.C.S.
Development Commissioner, M. Ramakrishnayaya, I.A.S.
Member, Board of Revenue, B. Sivaraman, I.C.S.
Member, Administrative Tribunal, Iswar Chandra Misra, M.A., B.L.
Commissioner, Central Division, A. K. Barren, M.C., I.A.S.
Commissioner, Northern Division, P. K. Kapila, I.A.S.
Commissioner, Southern Division, V. S. Matthews, I.A.S.
Secretary, Political & Services Department, V. Ramanathan, I.C.S.
Secretary, Home Department, Pramod Singh, I.A.S.
Secretary, Mining & Geology Department, D. L Purkayastha, I.A.S.
Secretary, Education Department, Pramod Singh, I.A.S.
Secretary, Tribal & Rural Welfare Department and Director of Tribal & Rural Welfare, K. C. Ray, I.A.S.
Secretary, Planning & Co-ordination Department, M. Ramakrishnayaya, I.A.S.
Director of Community Projects and National Extension Service & Ex-Officio Additional Secretary, K. Ram Murty, I.A.S.
Secretary, Labour Department, K. C. Ray, I.A.S.
Secretary, Law Department, B. C. Das, Bar-at-Law.
Superintendent and Remembrancer of Legal Affairs and Ex-Officio Additional Secretary, Abhimanyu Misra, B.A., B.L.
Secretary, Finance Department and Ex-Officio Director of Small Savings, Somanath Nanda, I.A.S.
Secretary, Supply Department and Controller of Supplies, A. K. Mazumdar, I.A.S.
Secretary, Industries Department, D. L. Purkayastha, I.A.S.
Secretary, Health Department, S. M. H. Burney, I.A.S.
Secretary, Commerce Department, A. K. Mazumdar, I.A.S.
Secretary, Revenue & Excise Department, H. K. Ghosh, I.A.S.
Secretary, Works & Transport Department, Kartar Singh, I.A.S.
Secretary, Development Department and Director of Marketing, G. C. Dash, I.A.S.
Secretary, Legislative Assembly Department, Nilakantha Rath, B.A., B.L.

Heads of Departments at Bhubaneshwar

Director of Health Services, Dr. G. C. Patnaik, M.B.B.S. (Pat.), D.T.H. (Cal.), D.G.O. (Mad.), L.M. (Dublin), D.R.C.O.G. (Lond.), D.P.H. (Cal.),
Registrar of Co-operative Societies, A. C. Bandyopadhyay, I.A.S.
Director of Gram Panchayat, B. B. Rath, I.A.S.
Dy. Director of Mines, B. D. Prusty.
Inspector General of Prisons, Dr. S. Satpati, M.B.B.S.
Director of Community Project, K. Ram Murty.
Chief Engineer, Public Health, K. K. Kartha.
Superintending Engineer, Flood Control Circle, B. R. Mishra.
Joint Director of Marketing, R. N. Dwivedi.
Chief Engineer, Public Works, K. K. Kartha.
Public Health Engineer, Lingaraj Das.
Chief Engineer, Irrigation, S. C. Palit.
Director of Agriculture and Food Production, A. L. Nair, I.A.S.

Heads of Departments at Cuttack

Chairman, State Transport Authority, B. Venkat Raman, I.A.S.
Director of Public Instruction, B. C. Das.
Inspector General of Police, J. C. Ghosh.
Director of Animal Husbandry & Veterinary Services, G. D. Biswal.
Chief Conservator of Forest, D. N. Choudhury, B.Sc. (Pat.) A.I.F.C.
Director of Fisheries, G. N. Mitra.
Director of Industries, B. Venkat Ramani, I.A.S.
Commissioner of Labour, D. P. Tripathi, I.A.S.
State Motor Transport Controller, S. K. Ray.
Commissioner of Commercial Taxes, Dr. M. Datta Majumdar, I.A.S.
Director, Bureau of Statistics and Economics, C. Mishra.
Land Reforms Commissioner and Excise Commissioner, P. N. Mahanti, I.A.S.
Chief Engineer, Electricity, Puri, P. V. A. Narayan Murty.
Land Reclamation Officer, Hirakud Land Organisation, Sambalpur, G. S. Behera.

BOARD OF REVENUE

Member, B. Sivaraman, I.C.S.
Secretary, Anirudha Das, I.A.S.

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HIGH COURT

Cuttack.

Mr. Justice R. L. Narasimham, I.C.S., *Chief Justice.*

Mr. Justice R. K. Das, B.A., B.L., *Puisne Judge.*

Mr. Justice G. C. Das, B.A., B.L., *Puisne Judge.*

Mr. Justice S. B. Barman, Bar-at-Law, *Puisne Judge.*

Mr. Justice J. K. Misra, M.A., B.L., *Addl. Judge.*

T. V. Rao, B.A., LL.B., *Registrar.*

PUBLIC SERVICE COMMISSION

Chairman. G. B. Misra, M.A., B.L.

Member, B. C. Patnair, I.A.S. (Retd.).

Member, Motilal Pandit, B.A. (Hons.).

Secretary, U. Das, B.A. (Hons.), Dip.-in-Ed.

PUNJAB

ADMINISTRATIVE PERSONNEL

GOVERNOR

N. V. Gadgil.

Secretary, V. P. Gautama, I.A.S.

A.D.C., Capt. K. K. Nanda.

Military Secretary, Major G. K. Vaze.

MINISTERS

Chief Minister, General Administration (including Publicity), Elections, Integration, Vigilance, Transport, Political Sufferers, Law and Order, Tribal Areas, Medical and Health, Revenue, Relief and Rehabilitation, Consolidation, Sports & Game Department, S. Pratap Singh Kairon.

Finance, Excise & Taxation, Planning and Statistics and Cottage Industries, Dr. Gopi Chand Bhargava.

Industries (excluding Cottage industries), Food and Supplies, Local Bodies (excluding Panchayats), Jails and Justice and Labour, Pt. Mohan Lal.

Agriculture, Animal Husbandry, Fisheries, Forests and Game Preservation, Giani Kartar Singh.

Panchayats, Co-operatives, Community Development and Package Programme, Gurbanta Singh.

Education, Labour, Printing and Stationery and Languages, Amar Nath Vidyalankar.

Irrigation & Power, and Social Welfare, Scheduled Castes, Sardar Gian Singh Rarewala.

Public Works Department (Buildings and Roads), Capital Project, and Housing, Suraj Mal.

DEPUTY MINISTERS

Local Bodies (excluding Panchayats), Scheduled Castes, Yashwant Rai. (Attached to Minister for Industries and Minister for Irrigation & Power.)

Health (Health and Medical), Social Welfare, Bibi Parkash Kaur. (Attached to Chief Minister and Minister for Irrigation & Power.)

Community Development & Irrigation & Power, Dalbir Singh. (Attached to Irrigation Minister and Minister for Community Projects.)

Agriculture, Animal Husbandry and Fisheries & Law & Order, Harbans Lal. (Attached to Chief Minister and Agriculture & Forest Minister.)

Jails, Food and Supplies, Banarsi Dass. (Attached to Industries Minister.)

Tribal Areas, and Areas for Forests and Games Preservation), Pratap Singh. (Attached to Chief Minister and Agriculture and Forest Minister.)

Education, Printing and Stationery and Languages, Yash Pal. (Attached to Education & Labour Minister.)

Public Works Department (Buildings & Roads), Capital Project, and Housing, Niranjan Singh Talib. (Attached to Minister for Public Works Dept.)

SECRETARIAT

Chief Secretary to Government, E. N. Mangat Rai, I.C.S.

Financial Commissioner (Development) and Secretary, Developments, Panchayats, Social Welfare, Relief and Sports Departments, A. L. Fletcher, I.C.S.

Financial Commissioner (Rehabilitation Department) and Secretary, Rehabilitation, B. S. Grewal, I.C.S.

Financial Commissioner (Revenue) and Secretary, Revenue Department, Gyan Singh Khalon, I.C.S.

Planning Commissioner and Secretary, Planning and Industries Departments, Saroop Krishan I.C.S.

Secretary, Home and Commissioner, Gurdwara Elections, A. N. Kashyap, I.A.S.

Commissioner, Ambala Division, K. L. Budhiraja, I.A.S.

Commissioner, Patiala Division, H. B. Lal, I.A.S.

Commissioner, Jullundur Division, R. S. Randhawa, I.A.S.

Secretary, Vigilance and Labour Departments, Hardev Singh Chinna, I.A.S.

Secretary, P.W.D./B & R/Public Health Branches and Capital Project, B. B. Vohra, I.A.S.

Secretary, Irrigation and Power Departments, Ishwar Chander, I.A.S.

Secretary, Education, C. D. Kapur, I.A.S.

Secretary, Food and Supplies and Transport, Prem Sarup, I.A.S.

Secretary, Agriculture, K. S. Narang, I.A.S.

Secretary, Vidhan Sabha, Dr. Kuldip Chand Bedi, Bar-at-Law.

Secretary, Legislative Council, R. L. Nirula.

Secretary, Legislative Department, Jagjit Singh.

Advocate General, S. M. Sikri, Bar-at-Law.

Administrative Genl. & Official, Trustee, Parkash Chand Mahajan.

Director of Agriculture, Dr. Pritam Singh Deol.

Director, Animal Husbandry & Warden of Fisheries, P. S. Brar, M.R.C.V.S.

Director of Ayurvedic, Patiala, Kanti Narain.

Genl. Manager, Bhakra Dam Admn. & Secretary to Govt., Nangal Township, M. R. Chopra.

Dy. Inspector Genl., C.I.D. S. Ajaib Singh, I.P.S.

Secretary, Capital Project, B. B. Vohra.

Chief Engineer, Capital Project, G. R. Nangea.

Director, Civil, Home, Defence and Special Adviser to Govt. in Education Deptt. & Physical Education and N.C.C., Major Genl. Gurbaksh Singh.

Colonization Officer, Kesho Ram.

Director, Consolidation of Holdings, Avtar Singh Brar.

Registrar, Co-operative Societies, M. L. Batra, I.A.S.

Financial Commissioner, B. S. Grewal, I.C.S.

Development Financial Commissioner, A. L. Fletcher, I.C.S.

Chief Electoral Officer, A. N. Kashyap, I.A.S.

Excise and Taxation Commissioner, Patiala, Daljit Singh, I.A.S.

Chief Conservator of Forests, G. S. Dhillon, P.F.S.

Director of Health Services, Jagdish Singh, F.R.C.S.

Director of Industries, R. S. Talwar, I.A.S.

Director, Irrigation & Power Research institute, Dr. H. L. Uppal.

Chief Engineers, Irrigation Branch, (Central), K. C. Bhatia; *(Admn.),* C. L. Handadi. S.E.; *(North),* V. P. Goel; *(South),* G. S. Sindhu.

Commissioner of Labour, P. N. Bhalla.

Director, Language Department, Lal Singh, M.A.

Director, Land Records, Kartar Singh, P.C.S.

Secretary, Legislative Council, Chandigarh, R. L. Nirula.

Director, National Employment Services, Ambala Cantt., Jitendra Lal.

Chief Engineers, P.W.D./B. & R. (North), G. C. Khanna; *(South)* D. C. Sharma.

Chief Engineer, P.W.D./B. & R., Public Health, Balwant Singh.

Director of Panchayats, D. C. Verma, S.A.

Commissioner, Planning Saroop Kran.

Inspector General of Police, Gurdialngh.

Controller, Printing & Stationery, K. C. Kuriyan.

Inspector General of Prisons, Ambala, L. Isa Dass.

Director, Public Instruction, Miss Sarla Khanna.

Director, Public Relations, Roshan Lal Verma.

Director, Research & Medical Education, Dr. Tulsi Dass, F.R.C.S. D.O.M.S.

Director, Social Welfare, S. C. Pandit.

Controller, Transport P. N. Sahni, I.A.S.

Secretary, Vidhan Sabha Dr. Kuldip Singh Bedi, Bar-at-Law.

Secretary, Vigilance Deptt., Hardev Singh Chinna, I.A.S.

Director, Welfare of Scheduled Castes and Backward Classes, Jullundur, Munshi Ram.

Director of Technical Education, R. L. Khanna.

HIGH COURT

Mr Justice G. D. Khosla, I.C.S.	Chief Justice.
Mr. Justice D. Falshaw, I.C.S.	Puisne Judge.
Mr. Justice S. S. Dulat, I.C.S.	Do.
Mr. Justice Bishan Narain	Do.
Mr. Justice I. D. Dua	Do.
Mr. Justice Mehar Singh	Do.
Mr. Justice Tek Chand	Do.
Mr. Justice Kundan Lal Gosavi	Do.
Mr. Justice S. B. Capoor, I.C.S.	Do.
Mr. Justice A. N. Grover	Do.
Mr. Justice R. P. Khosla	Do.

Additional Judges, Mr. Justice Gurdev Singh, Mr. Justice Daya Krishan Mahajan, Mr. Justice Jagjit Singh Bedi, Mr. Justice Shamsher Bahadur, Mr. Justice Prem Chand Pandit.

Registrar, P. P. R. Sahni.

PUBLIC SERVICE COMMISSION

Patiala.

Chairman, Jaswant Singh Basur.

Members, Achhra Singh, Pitam Singh Jain, Prof. Abdul Majid Khan, D. D. Kapila.

RAJASTHAN

ADMINISTRATIVE PERSONNEL

Governor : Gurumukh Nihal Singh.

Secretary to Governor : R. D. Khanna, I.A.S.

A. D.C. : B. N. Sharma, Balwant Singh.

Ministers

Chief Minister, General Administration Department, Political, Appointments, Planning and Development, Education & Mines & Mineral-based Industries, Mohan Lal Sukhadia.

Finance, Community Development, Village Industries and Panchayats, Haribhau Upadhyaya.

Home, Law Department & Legal Remembrancer's Office, Judicial Department and Transport, Ram Kishore Vyas.

Revenue including Jagir Resumption, Devasthan Department, Relief and Rehabilitation and Famine Relief, Damodar Lal Vyas.

Medical & Public Health, Stationery and Printing Presses, Legislative Assembly and Elections and Labour, Badri Prasad Gupta.

Agriculture, Animal Husbandry, Cooperation and Food, Nathu Ram Mirdha.

Municipalities and Forests, Sampat Ram.

Industries (Except Mineral based Industries), Civil Supplies, and Social Welfare Department, Rikhab Chand Dhariwal.

Irrigation (Except Rajasthan Canal and Bhakra), and Ayurved, Bheekha Bhai.

Buildings & Roads and Power, Maharaj Rana.

Excise and Taxation and Bhakra & Rajasthan Canal Project, Ramchandra Chaudhri.

Deputy Ministers

Education and Finance, Poonam Chand Vishnoi.

Agriculture and Irrigation, Daulat Ram.

Planning (Co-ordination), Power, State Enterprises and Technical Education, Barkatullah Khan.

Secretariat

Chief Secretary, Bhagwat Singh Mehta, I.A.S.

Addl. Chief Secretary and Development Commissioner, B. L. Rawat, I.A.S.

Finance Secretary, M. Mukerjee, I.A.S.

Home & Industries Secretary, Z. S. Jhala, I.A.S.

Revenue Secretary, R. K. Chaturvedi, I.A.S.

Irrigation & Power Secretary, G. B. K. Hooja, I.A.S.

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Agriculture Secretary, Shiv Shankar, I.A.S.
Law Secretary, D. C. Sharma.
Education Secretary, Vishnu Dutt Sharma, I.A.S.
Spl. Secretary, Appointments, R. D. Thapar, I.A.S.
Secretary, Commerce & Industries, Mines and Local Self-Govt., A. K. Roy, I.A.S.
Secretary, P.W.D., Presses, Labour and P.W.D. (B. & R.), Gordhan Singh Choudhary, I.A.S.
Secretary, Excise and Taxation, Ram Singh, I.A.S.
Secretary, Legal Affairs, Lehar Singh Mehta.

Principal Officials

Chairman, Rajasthan Canal Board, Kanwar Sain.
Chairman, Electricity Board, K. P. U. Menon, I.A.S.
Inspector General of Police, Goverdhan, I.P.S.
Inspector General of Prisons, Kewal Singh Panwar.
Director of Medical and Health Services, Dr. B. N. Sharma.
Director, Animal Husbandry, G. S. Rathor.
Chief Engineer, Buildings and Roads, Kishori Lal.
Chief Engineer, Irrigation, Moti Ram.
Commissioner, Jagir, Daulat Singh, I.A.S.
Jt. Development Commissioner, Ram Singh, I.A.S.
Director of College Education, S. S. Saxena.
Director of Primary & Secondary Edn., J. S. Mehta, I.A.S.
Director of Technical Education, V. G. Garde.
Director of Agriculture, Samrat Raj, R.A.S.
Director of Industries & Supplies, Gordhan Singh, I.A.S.
Chief Conservator of Forests, N. N. Sen.
Commissioner, Excise and Taxation, Gulzari Lal Mathur.
Commissioner, Labour, S. S. Mathur, I.A.S.
Registrar, Co-operative Societies, Niranjan Singh, I.A.S.
Director, Mines and Geology, M. L. Shethi.
Director of Transport, Roshan Mal, R.A.S.
Director of Local Bodies, Parmanand.
Director, Social Welfare, R. C. Sood, I.A.S.
Director, Economics & Statistics, L. K. Verma.
Director of Public Relations, Rajendra Shankar Bhatt.

Board of Revenue

Ajmer.

Chairman, Shyam Lal Jain, I.A.S.
Members, Kanwar Bahadur, I.A.S.; R. N. Hawa, I.A.S.; Khemchand, I.A.S.
Registrar, P. D. Khanna, R.A.S.

Public Service Commission

Lohagal, Ajmer.

Chairman, V. V. Narlikar.
Members, Shanti Lal Ahuja; L. L. Joshi; Shyam Lal.
Secretary, Rabindra Nath Upadhyay.

High Court

Jodhpur.

Chief Justice, Sarjoo Prashad.*
Judges, Jawan Singh Ranawat, Durga Shankar Dave, Inder Nath Modi, Daulat Mal Bhandari, Jagat Narayan, Lakshmi Narayan Chhangani.
Additional Judges, Chandra Bhan Bhargava; Bhagwati Prasad Beri.
Registrar, Roop Singh Rajvi.
Dy. Registrars, D. D. Gupta, T. S. Gupta.
Advocate-General, Gulab Chand Kasliwal.

TRIPURA

ADMINISTRATIVE PERSONNEL

Chief Commissioner, N. M. Patnaik, I.A.S.
Chief Secretary, Harbans Singh, I.A.S.
District Magistrate and Collector, Lt.-Col. H. S. Butalia, I.F.A.S.
Addl. District Magistrates, H. S. Dubey, I.F.A.S., N. N. Chowdhury.
Secretaries, R. K. Dev Barma; P. C. Mukherjee; P. Mazumdar; G. N. Chatterjee (on leave); S. K. Chowdhury (Officiating).
Dev. Commissioner, Vacant.
Dy. Secretaries, H. K. Dev Barma; G. N. Sribastav.
Director of Education, G. N. Chatterjee (on leave), S. K. Chowdhury (Officiating).
Director of Agriculture, H. Naithani.
Director of Land Records, P. R. Purohit.
Director of Industries, M. K. Majumder.
Director of Rehabilitation, P. Mujumder.
Div. Forest Officer, N. C. Bhattacharjee.
Settlement Officer, A. K. Lodh.
Principal Engg. Officer, R. K. Saha, B.E.
Superintendent of Police, H. N. Sarkar, I.P.S.
Commandant, Armed Police, Major H. K. Dev Barma.
Legal Remembrancer, T. P. Chowdhury.
Registrar, Tripura Secretariat, S. B. K. Dev Barma.
Special Officer, Primary & Basic Edn., M. C. Bhattacharjee.
Inspector of Schools, H. Dutt Choudhury.
Statistical Officer, J. Saha.
Labour Officer, B. C. Halder.
Publicity Officer, S. C. Bhattacharyya.
Judicial Commissioner, T. N. R. Tirumalpad.
Dt. and Sessions Judge, S. N. Banerjee.
Co-operative Officer, R. N. Bhattacharjee.
Cultural Research Officer, Naresh Chandra, M.Sc.
Project Executive Officer, Community Project, S. Bhowmik.

UTTAR PRADESH

ADMINISTRATIVE PERSONNEL

Governor, B. Ramakrishna Rao.

PERSONAL STAFF

Secretary to the Governor, Mahesh Chand Sharma, I.A.S.
Aides-de-Camp to Governor, Capt. Mahandar Singh Sodhi; Capt. C. S. Naidu.
Hon. Aides-de-Camp, Rts. Major and Hon. Capt. Manindra Nath; Capt. Bhagwan Din.
P.A. to the Governor, K. R. Nagappa.

MINISTERS

Chief Minister, Industries, Planning, Labour and Genl. Adm. Power, Information, Food and Civil Supplies, Health and Harijan Welfare, Chandra Bhanu Gupta, M.A., LL.B.
Health, Justice, Relief and Rehabilitation, Revenue, Hukum Singh Visen, B.A., LL.B.
Home and Agriculture, Charan Singh, M.A., B.Sc., LL.B., M.L.A.
Education and Social Welfare, Acharya Jugal Kishore, M.A. (Oxon.), M.L.A.
Community Projects, Village and Small Scale Industries and Labour, Shrimati Sucheta Kripalani, M.A.
Finance, Hargovind Singh, B.Sc., LL.B., M.L.C.
Public Works, Girdhari Lal, M.A., LL.B.

MINISTERS OF STATE WITH CABINET RANK

Co-operation and Parliamentary Affairs, Mangla Prasad, B.A., LL.B., M.L.A.
Transport, Muzaffar Hasan, M.L.A.
Irrigation, Ram Murti, M.A., LL.B., M.L.A.
Excise, Dr. Sita Ram, M.Sc. (Wis), P.H.D. (Ohio), M.L.A.
Local Self-Government, Kailash Prakash, M.L.A.
Economics and Statistics and Forest, Algu Rai Shastri, M.L.C.
Local Self-Government, Panchayat Raj and Harijan Sahayak, Chaturbhuj Sharma.

MINISTERS OF STATE

Social Welfare and Harijan Sahayak, Jawaharlal Rohatgi.
Food and Civil Supplies, Jagmohan Singh Negi.
Information, Rauf Jafri.
Relief and Rehabilitation, Charitable Endowments and the Badrinath Temple, Govind Sahai.

DEPUTY MINISTERS

Parliamentary Affairs, Shanti Prapanna Sharma, M.L.A.
Social Welfare, Srimati Prakashwati Sud, M.L.A.
Education, Ram Swarup Yadav, B.A., LL.B., M.L.A.
Labour and Community Projects, Wasi Naqvi, B.A., LL.B., M.L.A.
Public Works, Dharam Singh, B.A., L.T., M.L.A.
Revenue, Udai Shanker Dubey, M.L.A.
Industries, Malkhan Singh.
Parliamentary Affairs, Nawal Kishore.
Power and Power Projects, Bhagwati Prasad Shukla.

PARLIAMENTARY SECRETARIES

Parliamentary Secretaries, Kripa Shankar; Dr. Ram Narain Pandey; Ganesh Lal.

PUBLIC SERVICE COMMISSION

Chairman.

Radha Krishna, M.A., LL.B.

Members.

Surat Narayan Mani Tripathi, M.A., LL.B.
Girish Chandra, M.A., LL.B.
Madhab Singh Bisht, C.E., D.S., M.I.E., M.A., S.C.E.
Dr. Mohammad Hammad Faruqi, M.A., LL.B., Ph.D., Bar-at-Law.
Pooran Chandra Pande, I.A.S. (*Secretary*).

SECRETARIAT

Chief Secretary and Commissioner, Uttarakhand Division, Govind Narayan, I.C.S.
Additional Chief Secretary to Government and Secretary Planning, Economics and Statistics, Social Welfare and Harijan Sahayak Departments and Development Commissioner, Satish Chandra, I.C.S.
Secretary, General Administration Department, Girija Prasad Pandey, I.A.S.
Secretary, Finance Department and Director Small Savings, V. M. Bhide, I.A.S.
Secretary, Public Works, Transport, Relief and Rehabilitation, Commissioner, Relief and Rehabilitation and Regional Settlement Commissioner, R. S. Das, I.A.S.
Secretary and Commissioner, Irrigation and Power Departments and Chairman, U.P Electricity Board, B. B. Lal, I.C.S.
Secretary, Home Department, Asoka Sen, I.A.S.
Secretary, Rihand Dam Control Board and State Flood Control Board, Bisheshwar Dayal Goel, C.E., M.I.E.
Secretary, Revenue, Shiv Ram Singh, I.A.S.
Secretary Legislative Department and Legal Remembrancer to Government, U.P., R. P. Verma, B.A., LL.B.
Secretary, Judicial Department and Legal Remembrancer to Govt., Lakshmi Prasad Nigam, B.Sc., LL.B.
Secretary, Education Department, Kehar Singh, I.A.S.
Secretary, Information and also Secretary to Chief Minister, Brij Lal Chak, I.A.S.
Secretary, Local Self Government, S. S. L. Kakkar, I.A.S.
Secretary, Industries Department, Sri Pat, I.A.S.
Secretary, Labour and Excise Departments, Harish Chandra Saxena, I.A.S.
Secretary, Agriculture, Animal Husbandry and Forest Departments, Raj Kumar Talwar, I.A.S.
Secretary, Co-operative and Cane Departments, Kuldip Narain Channa, I.A.S.
Secretary, Medical and Public Health, Food and Civil Supplies and Commissioner, Food and Civil Supplies, Basant Singh Seth, I.A.S.

HEADS OF DEPARTMENTS

Commissioner for Consolidations, U.P., I. D. N. Sahi, I.C.S.
Settlement Commissioner, U.P., Pran Nath Kapur, I.A.S.
Commissioner, Sales Tax, U.P., Bijai Bahadur Sahi, I.A.S.

* Is due to retire in Oct. 1961.

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Inspector General of Registrations, U.P. and Chief Inspector of Stamps, Jwala Prasad Singh, M.A., LL.B.
Commissioner Entertainment and Betting Tax, U.P., Uma Shanker Gupta, M.A., LL.B.
Director of Information, U.P., Aparajita Prasad Singh, I.A.S.
Director of Agriculture, U.P., Dr. B. K. Mukerjee, Ph.D. (London), D.Sc.
Director of Animal Husbandry, U.P., M. R. Mahajan, M.R.C.V.S.
Registrar, Co-operative Societies, Iftikhar Husain, I.A.S.
Chief Conservator of Forests, Raghubir Chand Soni, B.Sc. (Alld.), M.A. (Cantab.), A.I.F.S.
Director, Panchayat Raj, U.P., Bhagwant Singh, I.A.S.
Director of Social Welfare, U.P., Ravi Shanker Johri, I.A.S.
Director of Harijan Welfare, Iftikhar Husain II, M.A.
Accountant General, Uttar Pradesh, C. Konar, I.D.A.S.
Examiner, Local Funds Account, Keshav Das.
Chief Inspector of Government Offices, S. R. S. Nigam, M.A.
Inspector General of Prisons, U.P., Dr. S. N. Chatterjee, P.M.S.I.
Director of Education, U.P., C. M. N. Chak, M.Sc., (Lko), B.A. (Cantab.).
Director of Industries, U.P., M. S. Das, I.A.S.
Director, Government Cement Factory, Churk, Mirzapur, T. L. Mahendra, I.A.S.
Labour Commissioner, U.P., Uma Shanker, I.A.S.
Director of Economic Intelligence and Statistics, U.P., Jugal Kishore Pandey, M.A.
Director of Medical/Health Services, Dr. K. M. Lal, M.B.B.S.
Chief Engineer, Local Self Government Engineering Department, U.P., Ram Das Verma, B.Sc. (Illinois, U.S.A.), M.I.E. (Ind.), M.A., I.E.E., Fellow A.S.C.E.
Chief Engineer, Public Works Dept., Jagdish Prasad.
Chief Engineer, Irrigation Dept., Akhil Chandra Mitra.
Chief Engineer, Rihand (Power) Electricity Department, U.P., Krishna Chandra Gupta.
Chief Engineer (Hydel), U.P. State Electricity Board, Om Prakash Bhasin.
Transport Commissioner, U.P., Daljit Singh Rathor, I.A.S.
Cane Commissioner, and also Sugar Commissioner, U.P. and Registrar, Cane Co-operative Societies, Ganga Singh Chooramani, I.A.S.
Director, Training and Employment, Ganpat Ram Nagar.

North-Eastern Railway
Gorakhpur.

General Manager, Harbans Singh.
Dy. General Manager (W), Inder Singh.
Secretary to General Manager, Ger. McGowan.
Public Relations Officer, V. K. Chaube.
Chief Personnel Officer, B. M. Kaul.
Dy. Chief Personnel Officer, K. Devanathan.
Chief Security Officer, Onkar Singh.
Chief Engineer, H. H. Banerjee.
Dy. Chief Engineer (East), Krishna Chandra.
Dy. Chief Engineer (West), H. D. Bhaumick.
Dy. Chief Engineer (Bridges), Kalicharan.
Dy. Chief Engineer (Cons.), Manmohan Singh.
Chief Operating Superintendent (Transportation), Rajendra Dev.
Dy. Chief Operating Superintendent (G), K. Janakiraman.
Dy. Chief Operating Superintendent (C), M. K. Majumdar.
Chief Commercial Superintendent, H. P. Varma.
Dy. Chief Commercial Superintendent, D. S. Sethi.
Chief Mechanical Engineer, I. C. Bahree.
Dy. Chief Mechanical Engineer (M), L. K. Bery.
Dy. Chief Optg. Supdt. (R), Harnath Singh.
Dy. Chief Mechanical Engineer (Shops), C. B. Lal.
Dy. Chief Marine Superintendent (M.K.G.), A. H. Alwyn.
Chief Electrical Engineer, S. S. Kochak.
Chief Signal and Tele-Communication Engineer: A. J. Gillies.
Dy. Chief Signal & Tele-Communication Engineer, P. A. D'Souza.
Controller of Stores, B. P. Bhagat.
Dy. Chief Controller of Stores, R. N. Mubayi.
Chief Medical Officer, Dr. I. B. Chaudhury.
Financial Adviser and Chief Accounts Officer, C. D. Dharkar.
Dy. Chief Accounts Officer, P. C. Gupta.
Dy. Financial Adviser, R. Sarangarajan.

RAILWAY SERVICE COMMISSION
19, Sardar Patel Marg, Allahabad 1.

Chairman, R. R. P. Sinha.
Member, R. P. Tamta.
Secretary, R. P. Singh.

Judicial Department

(HIGH COURT OF JUDICATURE AT ALLAHABAD.)

Mr. Justice Manu Lal Chuni Lal Desai, B.A. (Cantab.), I.C.S.	*Chief Justice.*
Mr. Justice Vashistha Bhargava, I.C.S.	*Judge.*
Mr. Justice Ram Narain Gurtu, B.A. (Oxon.), Bar-at-Law	*Do.*
Mr. Justice Nasirullah Beg, M.A. (Cantab.), Bar-at-Law	*Do.*
Mr. Justice Basudeva Mukerji, M.A., LL.B.	*Do.*
Mr. Justice Anand Narain Mulla, M.A., LL.B.	*Do.*
Mr. Justice Vishnu Datta Bhargava, B.A., LL.B.	*Do.*
Mr. Justice Balaram Upadhya, M.A., LL.B.	*Do.*
Mr. Justice Vidyadhar Govind Oak, I.C.S.	*Do.*
Mr. Justice Ambika Prasad Srivastava, M.A., LL.B.	*Do.*
Mr. Justice Jagbans Kishore Tandon*, B.A., LL.B.	*Do.*
Mr. Justice Jadish Sahai, M.A., LL.B.	*Do.*
Mr. Justice Bishambhar Dayal, B.A., LL.B.	*Do.*
Mr. Justice Jawahar Nath Takru, B.A., LL.B.	*Do.*
Mr. Justice Bishan Narain Nigam, M.A., LL.B., I.C.S.	*Do.*
Mr. Justice Shanti Swarup Dhavan, B.A. (Cantab.), Bar-at-Law	*Do.*
Mr. Justice Shashi Kant Verma, B.A. (Alld.), LL.B., Bar-at-Law	*Do.*
Mr. Justice William Broome, I.C.S.	*Do.*
Mr. Justice Dhatri Saran Mathur, I.C.S.	*Do.*
Mr. Justice Debi Prasad Uniyal, M.A., LL.B.	*Do.*
Mr. Justice Surendra Narayan Dwivedi, B.A., LL.B.	*Do.*
Mr. Justice Ram Asray Misra, M.A., LL.B.	*Do.*
Mr. Justice Kailash Prasad Mathur, M.A., LL.B.	*Do.*
Mr. Justice Jhandu Dat Sharma, B.A., LL.B.	*Do.*
Mr. Justice Mithan Lal, B.Sc., LL.B.	*Do.*
Mr. Justice T. Ramabhadran, I.C.S.	*Do.*
Mr. Justice Shambu Dayal Singh	*Do.*
Mr. Justice Shiv Chander Manchanda, M.A. (Cantab.), Bar-at-Law	*Do.*
Mr. Justice Brijlal Gupta	*Additional Judge.*
Mahesh Chandra, M.A., LL.B.	*Registrar.*
Ram Prasad Dikshit, B.Sc., LL.B.	*Joint Registrar.*
Kanhaiya Lal Misra, B.A. (Hons.), LL.B.	*Advocate-General.*
Jagdish Kishore Srivastava, B.A., LL.B.	*Administrator-General & Official Trustee.*

* Was due to retire in July 1961.

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WEST BENGAL

ADMINISTRATIVE PERSONNEL

Governor

Shrimati Padmaja Naidu.

Secretaries

S. K. Mukherjee, I.A.S. (*Secy. to Governor, Raj Bhavan, Calcutta*).
S. N. Sen, I.A.S. (*Dy. Secy. to Governor and Director of Hospitality, Raj Bhavan, Calcutta*).
P. N. Bhattacharya (*Asstt. Secy. to Governor, Raj Bhavan, Calcutta*).

Ministers

Chief Minister, Minister-in-charge of Home (excluding Police, Defence), Finance, Co-operation, Cottage & Small-scale Industries, and Development Deptt., Dr. B. C. Roy.
Minister-in-charge of Irrigation and Waterways Deptt., Ajoy Kumar Mukherjee.
Minister-in-charge of Works and Buildings and Housing Deptts., Khagendra Nath Das Gupta.
Minister-in-charge of Law, Local Self-Government and Panchayat Deptts., Iswar Das Jalan.
Minister-in-charge of Food, and Supplies and Refugee, Relief and Rehabilitation Deptts., Prafulla Chandra Sen.
Minister-in-charge of Animal Husbandry and Community Development, Dr. Rafiuddin Ahmed.
Minister-in-charge of Home (Police and Defence), Kalipada Mookherjee.
Minister-in-charge of Commerce and Industries, and Tribal Welfare, Bhupati Mazumdar.
Minister-in-charge of Labour, Abdus Sattar.
Minister-in-charge of Excise Deptt., Shyama Prosad Burman.
Minister-in-charge of Education, Rai Harendra Nath Chowdhuri.
Minister-in-charge of Agriculture, Food Production, Forest and Fisheries, Tarun Kanti Ghosh.

Ministers of State

Minister-in-charge of Refugee, Relief, Rehabilitation and Jails, Smt. Purabi Mukherjee.
Minister-in-charge of Health, Dr. Anath Bandhu Ray.
Minister-in-charge of Land and Land Revenue, Prof. Shyamadas Bhattacharjee.
Home (Publicity), Jagannath Kolay (Chief Whip, Cong. Leg. Party).

Deputy Ministers

Home (Transport), Satish Chandra Roy Singha.
Tribal Welfare, Tenzing Wangdi.
Relief and Supplies, Rajani Kanta Pramanik.
Cottage and Small-scale Industries, S. Kazem Ali Mirza.
Refugee Relief and Rehabilitation, Shrimati Maya Banerjee.
Panchayat Education, Sourindra Mohan Misra.
Community Development and Animal Husbandry, Smarajit Banerjee.
Police, Ardhendu Sekhar Naskar.
Co-operation, Chittaranjan Roy.
Health, Ziaul Huq.
Food, Charu Chandra Mohanti.
Labour, Narbahadur Gurung.
Food, Relief & Supplies, Ashutosh Ghosh.

Secretariat

Chief Secretary, R. Gupta, I.C.S.
Secretary, Home Dept., M. M. Basu, I.C.S.
Secretary, Finance Department, H. N. Ray, I.C.S.
Secretary, Refugee Relief and Rehabilitation Dept., and Commissioner, R. R. & R., S. N. Banerjee, I.A.S.
Secretary, Agr., Food and Production, R. Ghosh, I.A.S.
Secretary, Commerce and Industries, Cottage and Small-Scale Industries and Co-operation Deptt., S. K. Banerjee, I.A.S.
Secretary, Education Dept., Dr. D. M. Sen.
Secretary, Medical and Public Health and Director of Health Services, Lt.-General D. N. Chakravarty.
Special Engineer, Floods, and Admn. Officer, Mayurakshi Project, I. B. De, I.S.E.
Secretary, Law Dept., K. K. Hajara, I.C.S.
Secretary to the Chief Minister, S. K. Chatterjee, I.C.S.
Special Officer and ex-Officio Secretary, Finance Dept., N. N. Mazumdar, I.A.A.S. (Retd.).
Addl. Finance Secretary, K. K. Roy, I.A.S.
Transport Commissioner, S. K. Banerjee, I.A.S.
Secretary, Animal Husbandry, Forest & Fisheries, S. D. Majumdar, I.A.S.
Secretary, Irrigation and Waterways and Fisheries Deptt., A. D. Khan, I.C.S.
Member, Board of Revenue and ex-Officio Secy., Land and Land Revenue and Tribal Welfare Deptt., B. Sarkar, I.C.S.
Additional Member, Board of Revenue, N. K. Ray Chaudhury, I.C.S.
Jt. Secretary, Works and Bldgs. Dept., D. N. Banerjee, I.A.S.
Jt. Secretary, Labour Dept., S. M. Bhattacharjee, I.A.S.
Spl. Officer, Anti-Corruption and Enforcement Deptt., V. S. C. Bonarjee, I.A.S.
Secretary, Local Self-Govt. Dept., A. Neogi, I.A.S.
Secy., Food and Supplies, B. R. Gupta, I.A.S.
Secretary & Commissioner, Relief, S. K. Gupta, I.A.S. (Retd.).
Development Commsnr. and ex-Officio Secy., Development Dept., H. Banerjee, I.C.S.
Jt. Development Commsnr. and ex-Officio Jt. Secy., Development Dept., S. B. Ray, I.A.S.

Board of Revenue

Writers' Buildings, Calcutta 1.

Member, B. Sarkar, I.C.S.
Additional Member, N. Ray Chowdhury, I.C.S.
Secretary, J. N. Mookerjee, I.A.S.
Special Officer & Ex-Officio Secretary, S. N. Mitra, I.A.S. (Retd.).
Deputy Secretary, A. Chatterjee, M.Sc., W.B.C.S.
Registrar, S. Ganguly, B.Sc.

DEPARTMENTAL OFFICIALS

Advocate-General, S. M. Bose.
Inspector-General of Police, H. S. Ghosh Chowdhry, J.P., I.P.
Commissioner of Police, Upanandha Mukherjee, I.P.S.
Inspector-General of Prisons, Dr. A. R. Rudra.
Labour Commissioner and Registrar of Trade Unions and also Chief Inspector of Shops and Establishments, Calcutta, D. Chatterjee, I.A.S.
Registrar of Co-operative Societies, S. Dutta, I.A.S.
Commissioner, Workmen's Compensation, S. N. Mukherjee.
Registrar, Workmen's Compensation, P. C. Maitra, M.A., B.L.
Conservator-General of Forests, V. S. Rao, I.F.S.
Chief Inspector of Factories, G. C. Roy, B.Sc. (Cal.), B.Sc., C.P.E. (Glas.), A.M.I.Mech.E.
Administrator-General and Official Trustee, A. K. Dutta, Attorney-at-Law.
Commissioner of Excise, A. Bose.
Chief Engineer, Irrigation, A. L. Das, I.S.E.
Chief Engineer, Works and Buildings, J. K. Banerjee.
Chief Inspector of Boilers, S. C. Roy.
Chief Electrical Engineer and Electrical Adviser to Government, Dr. M. Dutta.
Superintending Engineer (State Electricity Board), Dr. M. Dutta, M.Sc. (Cal.), M.Sc. (Tech.) (Manch.), Ph.D. (Edin.), M.I.E.E.
Director of Land Records and Surveys, T. Ghosh, I.A.S.
Special Officer and ex-Officio Director of Land Records and Surveys, Dinesh Chandra Gupta, I.A.S.
Chairman, Calcutta Improvement Trust, K. Sen, I.C.S.
Director of Agriculture, Dr. H. K. Nandy.
Milk Commissioner, Dr. S. C. Ray.
Director of Industries, B. C. Mullick.
Director of Public Instruction, D. M. Sen.
Director of Publicity, P. S. Mathur, M.Sc.
Director of Fisheries, Dr. K. C. Saha.
Director of Social Welfare and Ex-Officio Jt. Secretary, K. S. Mitra.
Chief Engineer, Construction Board, Sachin Banerjee.
Chairman, Industrial Tribunal, M. Banerjee.

Public Service Commission

Anderson House, Alipore, Calcutta 27.

Chairman, B. Das Gupta, I.A.S. (Retd.).
Members, Dr. P. C. Rakshit, M.Sc., Ph.D., B. K. Sinha, I.A.S. (Retd.).
Secretary, A. C. Roy, I.A.S. (Retd.).
Dy. Secretary, J. C. Ghosh, W.B.C.S. (Retd.).
Asstt. Secretaries, S. Bose, B.A., R. N. Guha, M.A., B. K. Sen, B.Sc.
Registrar, S. Banerjee.

Eastern Railway

Fairlie Place, Calcutta.

General Manager, M. M. Khan.
Sr. Dy. General Manager, B. S. Venkataraman.
Financial Adviser & Chief Accounts Officer, J. Rama Rao.
Chief Operating Superintendent, K. K. Mukerjee.
Chief Commercial Superintendent, R. Gopalkrishna Iyer.
Chief Engineer, H. S. Hart.
Chief Engineer (Construction), A. N. Sen Gupta.
Chief Signal and Telecom. Engineer, R. D. Stephenson.
Chief Personnel Officer, M. A. Ashruff.
Controller of Stores, P. Hoon.
Chief Security Officer, S. A. Abbas.
Chief Mechanical Engineer, E. G. Kotiswaran.
Chief Electrical Engineer, S. K. Gopinath.
Public Relations Officer, K. K. Das.

South-Eastern Railway

Garden Reach, Calcutta 43.

General Manager, S. N. Wadhwa.
Sr. Dy. General Manager, A. K. Mullick.
Financial Adviser and Chief Accounts Officer, S. P. Sahni.
Financial Adviser & Chief Accounts Officer, (Const.), K. V. Kasturi Rangan.
Chief Operating Superintendent, G. D. Khandelwal.
Chief Commercial Superintendent, V. K. Rangaswami.
Chief Engineer, A. E. Young.
Chief Engineer (Construction), M. N. Bery.
Chief Signal and Telecom. Engineer, S. M. Gourishankar.
Controller of Stores, B. R. Kinra.
Chief Security Officer, D. G. Bhattacharyya.
Chief Mechanical Engineer, R. B. L. Mathur.
Chief Electrical Engineer, H. R. Dogra.
Chief Personnel Officer, S. S. Mukherjee.

Railway Service Commission

Clem Browne Railway Institute, Sealdah, Calcutta 14.

Chairman, S. M. Mukerji.
Members, Dr. Harimohan, R. C. Dash.
Secretary, G. P. Srivastava.

HIGH COURT

Chief Justice, Himansu Kumar Bose, Bar-at-Law.
Puisne Judges, Prisanta Bihari Mukharji, Bar-at-Law; Jyoti Prakash Mitter, M.A. (Oxon.), Bar-at-Law; R. S. Pachawat, Bar-at-Law; Deep Narayan Sinha, Bar-at-Law; Paresh Nath Mookerjee, M.A., LL.B.; Sisir Kumar Sen, M.A. (Pun.), I.C.S.; Debabrata Mookerjee, M.A., LL.B.; Gopendra Krishna Mitter, Bar-at-Law; Prokash Chandra Mallick, M.A., LL.B.; Nirmal Kumar Sen, M.A., LL.B.; Sushil Kumar Datta, B.A. (Com.), Bar-at-Law; Uma Charan Law, Bar-at-Law; Bimal Kumar Bhattacharya, M.A., LL.B., Ph.D. (Lond.), Bar-at-Law; Subodh Kumar Niyogi, M.A., LL.B.; Dwijendra Nath Das Gupta, M.A., LL.B.; Kamalesh Chandra Sen, M.A., LL.B.; Purushottam Chatterjee, M.A., LL.B.; Amaresh Chandra Ray, M.A., LL.B.; Binayak Nath Banerji, M.A., LL.B.; Ajit Nath Ray, B.A., (Oxon.), M.A. (Cal.), Bar-at-Law; Sankar Prosad Mitra, M.A. (Cantab.), Bar-at-Law.
Sheriff, K. K. Birla.
Registrar (Appellate Side), B. K. Panda, M.A., LL.B.
Registrar (Original Side), Krishna Lal Dutt, Attorney-at-Law.
Official Assignee and Official Receiver, M. M. Chakraburty.

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PONDICHERRY

ADMINISTRATIVE PERSONNEL

Secretariat

Chief Commissioner, S. K. Datta, I.C.S.
Chief Secretary : A. Krishnaswami, I.A.S.
Secretary, General Administration : S. Barkataki, I.A.S.
Secretary, Development Departments : T. K. Ramakrishnan.
Secretaire aux Affaires Politiques Legislation et Sante : E. Tetta.
Secretary, Finance Dept., S. A. R. Chari.
Legal Secretary : B. R. Chakravarti.
Deputy Secretary (G.A.) & Chef du Cabinet : K. S. Seshan.

Principal Officials

Chief of Judicial Service : B. Mariadassou.
Inspector-General of Police : M. U. Mulk, I.P.S.
Chief of Political Affairs : Marcel Saint Andre.
Controller of Imports & Exports : S. Banerjee.
Collector of Customs and Central Excise : A. J. B. Lobo.
Director of P.W.D. : Mathai Jacob.
Executive Engineer, N. Kumaraswami.
Director of Electricity : N. B. Vasudevan.
Revenue Officer, A. Selvanadin.
Director of Medical Services : Dr. Ponnou Joseph.
Principal, Medical College, Dr. S. G. Vengsarkar.
Director of Public Instruction : Rollin Parandjody.
Registrar of Co-operative Societies, A. Pushparaj.
Pay and Accounts Officer, C. N. Loganathan.
Port Officer : L. G. Hardas.
Director of Agriculture : M. D. Sandanakrishna Naidu.
Director of Fisheries, E. Palani.
Director of Industries, M. Santhaseelan.
Project Executive Officer, P. Lurdeswamy.
Director of Animal Husbandry : Dr. Sandou.
Resident Engineer (New Pier Project) : G. S. Ramanathan.
Public Relations Officer : V. Krishnamurti.
Prosecution Magistrate : Abel Clovis.
President of Labour Tribunal : A. David.
Superintendent of Police & Controller of Prison, Pondicherry, R. Kaliappan.
Superintendent of Police, Karikal, M. Balakrishna Raju.
Conservateur des Hypotheques : A. Carnot.
Harijan Welfare Officer : N. Doraiswamy.
Statistical Officer : Ajaib Singh.

JUDGES

Judges : A. Tamby, L. Caillard, S. Siva, Kichenadattin, J. Gnany, Abraham Mouttou, J. Michel, Ramalingame, Francois Andonissamy, Soundiramourty.

ADMINISTRATORS

Administrator of Karikal : G. B. Deshpande.
Administrator of Mahe : Narasing Rao Kallurkar.
Administrator of Yanam : S. Ramalingam.

GOVERNMENT OF INDIA PERSONNEL

PRESIDENT

Dr. Rajendra Prasad

PRESIDENT'S SECRETARIAT

Secretary, A. V. Pai, I.C.S.
Press Secretary, R. L. Handa.
Under Secretary, V. J. Moore.
Personal Secretary & Under Secretary (Hindi), Smt. Gyanvati Darbar.
Addl. Private Secretary, V. Verma.

OFFICE OF THE MILITARY SECRETARY TO THE PRESIDENT

Mily. Secretary, Maj.-Gen. Sardar Harnarain Singh.
Dy. Mily-Secretary, Lt.-Col. C. S. Reddy, 5, Maratha.
Dy. Mily. Secretaries, Lt.-Col. C. S. Reddy, 5, Maratha.
Surgeon, Lt.-Col. S. S. Maitra.
Comptroller of the Household, Lt.-Col. Harnath Singh.
Under-Secretary, B. Chatterjee.
Aides-de-Camp, Capt. D. K. Mehta; Flt.-Lt. M. M. Sinha; Lt. S. C. Bindra, I.N.; Capt. C. L. Datta; Capt. F. N. Bilimoria.
J.C.O.As.D.C., Ris.-Maj. and Hony. Capt. Ganpat Singh, M.C., 2nd Lancers (G.H.); Sub. Major & Hony. Capt. Gur Charan Singh, Vre, Mc. & Bar., 1st Sikh Regt.; Sub-Major & Hony. Lt. Birman Gurung, M.C. (2/4 G.R.).

PRESIDENT'S BODYGUARD

Chief Commandant, Maj.-Gen. Sardar Harnarain Singh.
Commandant, Maj. Mohd. Mirza.
Second-in-Command, Capt. M. K. Bhawani Singh, 3rd Cavalry.

VICE-PRESIDENT

Vice-President, Dr. Sarvepalli Radhakrishnan.

VICE-PRESIDENT'S SECRETARIAT

Assistant Private Secretary to the Vice-President, Vinayak D. Phadke, M.A.
Personal Assistant to the Vice-President, K. R. Gupta.

MEMBERS OF THE CABINET

Prime Minister and Minister of External Affairs and also in-charge of the Department of Atomic Energy, Jawaharlal Nehru.
Minister of Home Affairs, Lal Bahadur Shastri.
Minister of Finance, Morarji R. Desai.
Minister of Railways, Jagjivan Ram.
Minister of Labour & Employment and Planning, Gulzari Lal Nanda.
Minister of Commerce & Industry, K. C. Reddy.
Minister of Steel, Mines & Fuel, Sardar Swaran Singh.
Minister of Defence, V. K. Krishna Menon.
Minister of Food & Agriculture, S. K. Patil.
Minister of Irrigation & Power, Hafiz Mohammad Ibrahim.
Minister of Law, A. K. Sen.
Minister of Transport & Communications, Dr. P. Subbarayan.

MINISTERS OF STATE

Minister of Parliamentary Affairs, S. N. Sinha.
Minister of Information and Broadcasting, Dr. B. V. Keskar.
Minister of Health, D. P. Karmarkar.
Minister of Agriculture, Dr. P. S. Deshmukh.
Minister of Mines & Oil, K. D. Malaviya.
Minister of Rehabilitation and Minority Affairs, Mehr Chand Khanna.
Minister of Commerce, Nityanand Kanungo.
Minister of State in the Ministry of Transport and Communications, Raj Bahadur.
Minister of State in the Ministry of Home Affairs, B. N. Datar.
Minister of Industry, Manubhai M. Shah.
Minister of Community Development and Co-operation, S. K. Dey.
Minister of Education, Dr. K. L. Shrimali.
Minister of Scientific Research and Cultural Affairs, Humayun Kabir.
Minister of Works, Housing & Supply, B. Gopala Reddy.

DEPUTY MINISTERS

Deputy Minister of Defence, Sardar S. S. Majithia.
Deputy Minister of Labour, Abid Ali.
Deputy Minister of Works, Housing and Supply, Anil Kumar Chanda.
Deputy Minister of Agriculture, M. V. Krishnappa.
Deputy Minister of Irrigation & Power, Jaisukhlal Hathi.
Deputy Minister of Commerce & Industry, Satish Chandra.
Deputy Minister of Planning, Shyam Nandan Mishra.
Deputy Minister of Finance, Bali Ram Bhagat.
Deputy Minister of Scientific Research and Cultural Affairs, Dr. Mono Mohan Das.
Deputy Minister of Railways, Shah Nawaz Khan.
Deputy Minister of External Affairs, Shrimati Lakshmi N. Menon.
Deputy Minister of Home Affairs, Shrimati Violet Alva.
Deputy Minister, Defence, K. Raghuramaiah.
Deputy Minister, Food and Agriculture, A. M. Thomas.
Deputy Minister of Law, R. M. Hajarnavis.
Deputy Minister of Railways, S. V. Ramaswamy.
Deputy Minister of Civil Aviation, Ahmed Mohiuddin.
Deputy Minister of Finance, Shrimati Tarkeshwari Sinha.
Deputy Minister of Rehabilitation, Purnendu Sekhar Naskar.
Deputy Minister of Community Development & Co-operation, B. S. Murthy.
Deputy Minister of Planning, Labour and Employment, L. N. Mishra.

PARLIAMENTARY SECRETARIES

External Affairs, J. N. Hazarika; Sadath Ali Khan.
Information & Broadcasting, Anand Chandra Joshi.
Defence, F. P. S. Gaekwad.
Community Development & Co-operation, S. D. Mishra.
Steel, Mines & Fuel, G. P. Sinha.

PRIME MINISTER'S SECRETARIAT

Principal Private Secretary, K. Ram, I.C.S.
Private Secretary (Administration), M. L. Bazaz.
Private Secretary (Public), P. N. Sahi.
Private Secretary (Personal), S. P. Khanna.
Asst. Private Secretaries, N. K. Seshan; R. K. Goel.

CABINET SECRETARIAT

CIVIL WING

Secretary to the Cabinet & Planning Commission, Vishnu Sahay, I.C.S.
Hon. Statistical Adviser to the Cabinet, Prof. P. C. Mahalanobis, F.R.S.
Joint Secretary to the Cabinet, B. G. Rau, I.C.S.
Joint Secretary to the Cabinet and Director, Central Statistical Organisation, P. C. Mathew, I.C.S
Under Secretaries, T. S. Anantakrishnan, D. P. Chopra.

ORGANISATION AND METHODS DIVISION

Director, Indrajit Singh.

MILITARY WING

Deputy Secretary (Military) to the Cabinet, Brigadier H. K. Sibal.
Staff Officers, Lt.-Col. C. H. Joseph (Army); Cdr. Diwan Balak Ram (Navy); Wing Cdr. S. Purushotham (Air).

JOINT INTELLIGENCE AND PLANNING STAFF

Joint Intelligence Staff (Army), Lieutenant Colonel Gurbans Singh.

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Joint Intelligence Staff (Air), Wing Commander M. M. Sakhare.
Joint Planning Staff (Air), Wing Commander H. R. Chitnis.
Joint Planning Staff (Navy), Commander V. E. C. Barboza.

JOINT COMMUNICATIONS—ELECTRONICS COMMITTEE

Scientific Officer (Signals), Lt.-Col. J. N. Shahani.
Staff Officer 3 (Army), Cap. H. M. Goyal.
Secretary, Joint Communications—Electronic Committee, Lt. Cdr. T. S. Virdi.
Staff Officer-2 (Air), Sqn. Ldr. R. K. Janweja.

CENTRAL STATISTICAL ORGANISATION

Joint Director, Central Statistical Organisation, Dr. K. R. Nair.
Joint Director, Central Statistical Organisation, Dr. Uttam Chand.
Officer on Special Duty, Dr. S. G. Tiwari.

DIRECTORATE OF NATIONAL SAMPLE SURVEY

Chief Director, Rajeshwari Prasad, I.A.S.

NATIONAL SAMPLE SURVEY

Rajabahadur Mansions, 32, Apollo St., Bombay 1.
Asstt. Director, N. K. Singh.

RAJYA SABHA SECRETARIAT

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Deputy Chairman, S. V. Krishnamoorthy Rao.
Secretary, S. N. Mukerjee.
Joint Secretary, B. N. Banerjee.

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Deputy Speaker, Hukam Singh.
Secretary, M. N. Kaul.
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SECRETARIAT

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Member for Finance and Administration, Atomic Energy Commission, and Secretary to the Govt. of India (Finance), P. N. Thapar, I.C.S.
Joint Secretaries to Govt., R. Bhaktavatsalu, V. M. Parulekar.
Secretary, Atomic Energy Commission & Deputy Secretary to Govt., N. S. Siva.
Dy. Secretaries to Govt., R. Shroff & R. C. Sharma.

PUB. DIVISION

Head, Pub. Division, Department of Atomic Energy, N. T. Gulrajani, A.M.I.E.E. (Lond.).

TARAPUR ATOMIC POWER PROJECT

Officer on Special Duty, M. N. Chakravarti.

ARCHITECTURE & CIVIL ENGINEERING DIVISION

Ag. Chief Engineer (Civil), C. M. Goveas.

ATOMIC MINERALS DIVISION, NEW DELHI

Geological Adviser, Dr. D. N. Wadia, F.R.S.
Gen. Manager, Jaduguda Mines, S. V. Subrahmanyam.

ATOMIC ENERGY ESTABLISHMENT, TROMBAY, BOMBAY.

ADMINISTRATION

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Asstt. Controller & Head, Personnel Division: S. V. Kulkarni; *Asstt. Controller & Head, Accounts Division*: M. A. Hadi; *Asstt. Controller & Head, Purchase and Stores Division*: P. S. Mani.

SCIENTISTS

Chief Scientific Officers: H. N. Sethna (*also Head, Chemical Group*); A. S. Rao (*also Head, Electronics and Health Physics Divns.*); Dr. Brahm Prakash (*also Head, Metallurgy Division*); Dr. A. R. Gopal-Ayengar (*also Head, Biology and Medical Divisions*).

Dy. Chief Scientific Officers: Dr. R. Ramanna (*also Head, Nuclear Physics Division*); V. Surya Rao (*also Head, Reactor Operations Division*); R. C. Shivram (*also Head, Engineering Services Division*).

Principal Research Officers: Dr. J. Shankar (*also Head, Chemistry Division*); Dr. V. T. Athavale (*also Head, Analytical Division*); V. N. Meckoni (*also Head, Reactor Engineering Division*); Dr. G. A. Welch *Head, Radiochemistry and Isotope Division*.

Head, Electronics & Health Physics Divisions, A. S. Rao.
Head, Isotope Division, Dr. G. A. Welch.
Head, Metallurgy Division, Dr. Brahm Prakash.
Head, Nuclear Physics Division, Dr. R. Ramanna.

INDIAN RARE EARTHS LTD.

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Factory: Udyogamandal P.O., Alwaye (Kerala).

DEPARTMENT OF PARLIAMENTARY AFFAIRS, 90, PARLIAMENT HOUSE, NEW DELHI 2

Minister-in-Charge, Satya Narayan Sinha.
Secretary, Kailash Chandra.

MINISTRY OF COMMERCE AND INDUSTRY

Minister, K. C. Reddy.
Minister of Commerce, Nityanand Kanungo.
Minister of Industry, Manubhai M. Shah.
Deputy Minister, Commerce & Industry, Satish Chandra.

Dept. of Commerce and Industry

Secretary, S. Ranganathan, I.C.S.*
Additional Secretaries, K. B. Lall, I.C.S. (*Industries*), D. S. Joshi, I.C.S. (*Commerce*).
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Senior Industrial Adviser (Chemicals), Dr. G. P. Kane.
Development Commissioner (Small Scale Industries), Dr. P. C. Alexander.
Textile Commissioner, W. R. Natu.

Department of Company Law Administration

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Secretary, D. L. Mazumdar, I.C.S.
Chairman, Company Law Advisory Commission, K. K. Sharma.
Joint Secretary, B. S. Manchanda, I.A.S.
Director of Research and Statistics, Dr. Raj K. Nigam, Ph.D. (Lond.).

Northern Region

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Registrar of Companies, Uttar Pradesh, Kanpur, K. S. Syed Mohd.
Registrar of Companies, Punjab and Himachal Pradesh, K. M. Bhonsle.
Registrar of Companies, Delhi, M. V. Warerker.
Registrar of Companies, Rajasthan, P. K. Majumdar.

Western Region

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Registrar of Companies, Bombay, S. K. Dutt.
Registrar of Companies, Madhya Pradesh, Gwalior, M. S. Nene.

Eastern Region

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Registrar of Companies, West Bengal, Calcutta, P. B. Menon.
Registrar of Companies, Assam, S. C. Basu.
Registrar of Companies, Orissa, R. C. Mazumdar.
Registrar of Companies, Bihar, H. N. Dalia.

Southern Region

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Registrar of Companies, Madras, T. J. Ghondalekar.
Registrar of Companies, Andhra Pradesh, H. S. Kamlani.
Registrar of Companies, Kerala, Trivandrum, S. Krishnamurthy.
Registrar of Companies, Mysore, M. B. Rao.
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Office of the Economic Adviser to the Government of India, Udyog Bhavan, Maulana Azad Road, New Delhi.

Dy. Economic Advisers to Govt., V. K. Ramaswami, Dr. A. K. Ghosh.

Office of the Chief Controller of Imports and Exports, New Delhi.

Chief Controller, K. T. Sataravala, I.A.S.
Joint Chief Controllers, Dr. S. P. Chablani; T. M. B. Nedemgadi; K. L. Dalal, I.F.S.
Director (Statistics), K. L. Saxena.

OFFICE OF THE DY. CHIEF CONTROLLER OF IMPORTS AND EXPORTS, CENTRAL LICENSING AREA, NEW DELHI

Dy. Chief Controller of Imports & Exports, Ram Murti Sharma.
Controllers of Imports & Exports, A. L. Bhalla; H. L. Mansukhani; S. P. Dewan, O. N. Anand, R. L. Varma.

OFFICE OF THE JT. CHIEF CONTROLLER OF IMPORTS AND EXPORTS
Nov-Bhavan Bldg. & Sudama House, Ballard Estate, Bombay.

Jt. Chief Controller, C. M. Ghorpade.
Joint Director (Export Promotion), C. M. Ghorpadi.
Deputy Director (Export Promotion), B. N. Nair.

OFFICE OF THE JOINT CHIEF CONTROLLER OF IMPORTS AND EXPORTS
4, Esplanade East, Calcutta 1.

Joint Chief Controller, S. K. Sen.

OFFICE OF THE JOINT CHIEF CONTROLLER OF IMPORTS AND EXPORTS, POST BOX NO. 1842, 19/20, LINGHI CHETTY STREET, MADRAS 1

Joint Chief Controller, Rao Sahib C. R. Krishnaswamy, I.A.S.
Dy. Chief Controllers, J. S. Bedi, J. K. Sarkar, Kumari A. K. R. Lakshmi (*Export Promotion*).

OFFICE OF THE DY. CHIEF CONTROLLER OF IMPORTS AND EXPORTS, ERNAKULAM

Dy. Chief Controller, K. I. Thomas.

OFFICE OF THE IMPORT TRADE CONTROLLER, RAJKOT

Import-Export Trade Controller, K. P. Shah.

OFFICE OF THE ASSISTANT CONTROLLER OF EXPORTS, AMRITSAR

Assistant Controller of Exports, O. P. Datta.

OFFICE OF THE ASSISTANT CONTROLLER OF EXPORTS & IMPORTS, SHILLONG

Assistant Controller, D. M. Chowdhury.

Directorate of Export Promotion

Director-General of Foreign Trade, D. S. Joshi.
Director of Export Promotion, M. P. Mathur.

The Export Risks Insurance Corporation Ltd.
4, Rampart Row, Fort, Bombay.

Chairman: Ratilal M. Gandhi; *Managing Director*: T. C. Kapur; *Secretary*: Baldev Mehta.
Other Offices: 6, Ganesh Chandra Avenue, Calcutta 13; 24, Bombay Mutual Annexe Bldg.; 322-23, Linghi Chetty Street, Madras 1.

Office of the Controller of Patents & Designs 214, Lower Circular Road, Calcutta.

Controller General of Patents & Designs & Trade Marks, Dr. S. Venkateswaran, D.Sc., B.L.
Jt. Controller of Patents & Designs, Dr. N. N. Chatterjee, D.Sc.

Office of the Custodian of Enemy Property
Kaiser-I-Hind Bldg., Currimbhoy Road, P. B. No. 689, Bombay 1.

Controller of Enemy Firms and Enemy Trading and Custodian of Enemy Property, S. Banerjee.

* Is due to take over as Chairman, State Bank of India from March 1, 1962.

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Office of the Director of Industrial Statsitics 1, Council House Street, Calcutta 1.
Jt. Director, S. G. Rao.
Deputy Director, Harish Chandra.

Forward Markets Commission, 'Everest', 3rd Floor, 100, Marine Drive, Bombay-2
Chairman, R. Doraiswamy, I.A.S.
Members, Lala Jagannath, Syed Noor, Ajit Mozoomdar, I.A.S., J. N. Sen Gupta, M.A.B.L.
Secretary, E. K. Vasudevan, B.A. (Hons.).

The National Small Industries Corp. Ltd., Rani Jhansi Road (M. M. Road), New Delhi
Chairman, Smt. M. Chandrasekhar.
General Manager, P. D. Malgavkar.
Secretary, M. A. Abichandani.

Small Scale Industries, Udyog Bhavan, Maulana Azad Road, New Delhi
Development Commissioner, Dr. P. C. Alexander, I.A.S.
Joint Development Commissioner, N. Khosla, I.A.S.

Small Industries Service Institute, 56, Sunder Nagar, New Delhi
Director, Dr. H. A. Shah.
Dy. Directors, O. P. Jain (*Economic Investigation*); R. Nanjundiah (*Business Management & Training*); M. Narayanaswamy (*Metallurgy*); M. C. Mehra (*Industrial Colonies & Construction*); S. N. Sen Gupta (*Mechanical*); K.D. Khosla (*Chemical*); N. Das (*Electrical*).

Small Industries Service Institute 40-40A, Cawasji Patel Street, Fort, Bombay
Director, Vacant.
Dy. Director (*in-Charge*), V. K. Chebbi.

Small Industries Service Institute, 4, Camac Street, Calcutta 16
Director, K. S. Roy Chowdhury.

Small Industries Service Institute, 20, Rutland Gate, Madras 6
Director, Lt.-Col. E. P. Raju.
Dy. Directors, V. Srinivasan, A. S. Patnaik, S. V. S. Sharma, S. Nagarajan, N. R. Bannerjee.

The Indian Handicrafts Development Corporation Ltd., Express Bldg., 2nd floor (Northern Wing), Mathura Road, New Delhi.
Managing Director, B. N. Chatterjee.
Secretary, K. Patrose.

All India Handicrafts Board, Taj Barracks, Janpath, New Delhi 2
Chairman, Smt. Kamladevi Chattopadhyaya.
Vice-Chairmen, Smt. Kitty Shiva Rao, U. S. Malliah, M.P.
Member-Secretary, L. C. Jain.
Chief Executive Officer, S. N. Dandona.
Publicity Officer, Mrs. J. Brij Bhushan.

The National Small Industries Corporation Ltd., 116A, Lower Circular Road, Calcutta 14
Branch Manager, C. K. Karunakaran, I.M.P.

National Industrial Development Corporation Limited, Udyog Bhavan, Maulana Azad Road, New Delhi
Managing Director, K. B. Rao.
Secretary, P. S. Sundaram.
Administrative Officer, S. C. Das Munshi.

Heavy Engineering Corporation Ltd., Combined Office Bldg., Nepal Kothi, Doranda, Ranchi
Chairman, Dr. A. Nagaraja Rao.
Public Relations Officer, S. C. Banerjee.

Central Silk Board, Meghdoot, 95-B, Marine Drive, Bombay 2
Chairman, W. R. Natu.
Secretary, A. T. Janakiraman.

The Rubber Board, Kottayam (Kerala State)
Chairman, Dr. Rama Varma, Ph.D.
Rubber Production Commissioner, Vacant.
Secretary, S. K. Moorthy.

Tea Board, 14, Brabourne Road, Calcutta 1
Chairman, A. S. Bam, I.C.S.
Vice-Chairman, C. V. Subbu.
Dy. Chairman, A. J. Kidwai.
Secretary, Amar Kanta Sen.

Tea Board (Zonal Office), Church Road, Fort, Cochin 1
Joint Controller of Licensing, S. K. Dutta.

Coffee Board, Bangalore
Chairman, H. Sitarama Reddy.
Director of Research, Dr. N. G. Chokkanna.
Secretary, M. P. Appu Menon.

Coir Board, Post Box 80, Ernakulam
Chairman, P. V. S. Sarma.
Secretary, M. Vasu Menon.
Controller of Coir Exports, T. N. S. Menon.
Director, Central Coir Research Institute, Dr. C. V. Padmanabhan.

Office of the Textile Commissioner, Bombay
Textile Commissioner & Ex-Officio Jt. Secretary to the Government of India, W. R. Natu.

CONTROL BRANCH
Asst. Director (*Grade II*), T. A. Sequeira, B.A., LL.B.

PRODUCTION & DEVELOPMENT BRANCH
Industrial Adviser (*Textile Production*), N. Majumder, B.Sc. (Hons.), M.Sc. (Tech.) (Manch.).

CLOTH & YARN BRANCH
Dy. Director, H. A. G. Bagalkot, M.A.

ECONOMICS BRANCH
Dy. Directors, P. K. Bhaumick, M.Sc.; R. Seshadri, B.Sc., A.C.W.A.; R. G. Zaiani, B.A., L.T.M.; A. G. Venkataraman, A.C.A.; T. V. Sundararajan.

TRANSPORT BRANCH
Dy. Director, M. P. Madar.

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Dy. Director, Sub-Regional Office, Madras, V. Govindan.

HANDLOOM TECHNICAL INSTITUTE, SALEM.
Dy. Director, G. A. Sheth.

All-India Handloom Board, Secretariat, Bombay
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Hon. Industrial Adviser, Smt. Pupil Jayakar.
Director, M. S. Ramnath.
Secretary, N. Ramaswami.
Deputy Director, Madurai Nayagam.
Senior Accounts Officer, K. B. Menon.
Exhibition Officer, V. V. Deo.
Assistant Directors, R. Viswanthan, M. M. Saini.

WEAVERS SERVICE CENTRE
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Managing Director, S. N. Bilgrami.
Directors, S. V. Kanungo, B. B. Saksena, S. Ratnam, N. E. S. Raghawachari, I.C.S., K. R. F. Khilnani, Nagendra Singh, I.C.S., K. L. Ghei, N. N. Kashyap, I.C.S., H. R. Dewan, G. P. Bhalla.
Regional Offices: Calcutta, Madras, Bombay and Vishakapatnam.
Sub-Offices: Cochin, Timmancherala, Masulipatnam, Bangalore, Kandla, Nagpur, Belgaum.
Subsidiaries: Handloom Export Organisation, New Delhi.

Department of Commercial Intelligence and Statistics, 1, Council House Street, Calcutta 1
Director-General of Commercial Intelligence and Statistics, S. Subramanian.
Deputy Directors-General, P. C. Kurian; V. Bhanukoti.

Tariff Commission, Central Govt. Offices Bldgs., 101, Queen's Road, Bombay 1
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Members, Dr. S. K. Muranjan, D.Sc. (Lond.); J. N. Dutta, B.Sc.; Dr. R. Balakrishna, J. N. Sen Gupta.
Secretary, Pramoda Singh.

Khadi and Village Industries Commission, Mistry Bhavan, Dinshaw Wachha Road, Bombay 1
Members of the Commission:
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Member-Secretary, Pranlal S. Kapadia.
Member-in-charge (*Khadi*), D. P. Sahu.
Member-in-charge (*Village Industries*), K. Arunachalam.
Member-in-charge (*Integrated Development*), Annasaheb Sahasrabudhe.
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Member-in-charge (*Sales Development*), Vithaldas V. Jerajani.
Member-in-charge (*Intensive Area Schemes and Village Oil Industry*), Jhaverbhai Patel.
Member-in-charge (*Cottage Match Industry and Central Village Industries Research Institute, Wardha*), Satish Chandra Das Gupta.
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Chief Executive Officer, R. N. Saletore, I.A.S.
Director of Publicity, C. K. Narayanswami.
Director, Khadi Coordination, K. A. Venkatramaiya.

Trade Marks Registry, Central Govt. Bldg., Queen's Road, Bombay
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Jt. Registrar of Trade Marks, C. D. Venkataramanan, B.A., B.L.

BRANCH, CALCUTTA
Deputy Registrar of Trade Marks, S. M. Banerjee, B.Sc. (Hons.).

BRANCH, MADRAS
Asstt. Registrar of Trade Marks, K. U. Narasinga Rau, M.A., B.L.

BRANCH, DELHI
Asstt. Registrar of Trade Marks, A. P. Maitra M.A., B.L.

Heavy Electricals Limited, Govind Pura, Post Box No. 46, Bhopal
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Secretary, A. P. Hariharan.

Hindustan Cables Ltd. P. O. Hindustan Cables, Dist. Burdwan, W. Bengal
Managing Director, N. K. Sen Gupta.
Chief Engineer, S. K. Roy.
Asstt. General Manager, A. B. Mukherjee.
Administration & Personnel Officer, B. B Ganguly.

Hindustan Insecticides Limited, Industrial Area, Rohtak Road, New Delhi 15
Managing Director, B. B. Mathur.
Financial Controller & Accounts Officer, K. R. Kuppuswamy.

Hindustan Machine Tools Limited, Jalahalli, Bangalore 13.
Chairman & Managing Director, M. K. Mathulla.

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Electrical & Mechanical Engineer, Sambhar Lake, D. N. Mallya.
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Hindustan Shipyard Limited
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Director of Ship Construction, H. C. Raut.
Administrative Officer, Ch. Sankar Rao.
Secretary, K. Y. Krishnamoorthy.

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General Manager & Chief Engineer, C. S. Shukla, B.Sc., B.Sc. (Met.), (B.H.U.), M.I.I.M.
Secretary, P. K. Somanadhan, M.A., LL.B.

National Instruments Factory Ltd., 15, Wood Street, Calcutta 16

Managing Director, N. Majumder, B.Sc., M.Sc. Tech. (Manch.), A.M.C.T. (Manch.).
Works Manager (Prod.), L. M. De, B.Sc. (Eng.).
Secretary and Financial Controller, S. Natarajan, B.A.

Office of the Salt Commissioner, P. Box No. 139, Jaipur

Salt Commissioner, B. S. Lamba, M.Sc. (Hons.), A.I.S.M., A.M.I.M.M., F.G.S.
Dy. Salt Commissioner, K. L. Gambhir, B.Sc. (Hons.), M.Sc.

OFFICE OF THE DEPUTY SALT COMMISSIONER, EXCHANGE BLDG., SPROTT ROAD, BALLARD ESTATE, BOMBAY 1.

Deputy Salt Commissioner, G. A. Gulam Anwar.

OFFICE OF THE DEPUTY SALT COMMISSIONER, NO. 94, GOPATHI NARAYANASWAMI ROAD, THEOGARO-YANAGAR, POST BOX No. 1424, MADRAS 17.

Deputy Salt Commissioner, S. K. Dasgupta.

OFFICE OF THE ASSISTANT SALT COMMISSIONER, 11, CHITTARANJAN AVENUE, CALCUTTA.

Assistant Salt Commissioner, U. S. Sekhon.

MANDI SALT MINES, MANDI (HIMACHAL PRADESH).

Dy. Salt Commissioner, C. L. Malhotra, B.Sc., A.I.M.E., A.G.M.M.S.

Hindustan Antibiotics Ltd., Pimpri (Near Poona)

Managing Director, S. T. Raja.
Works Manager, J. D. Adhia.
Chief Engineer, B. V. Raman.
Superintendent (Research), Dr. M. J. Thirumalachar.

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Managing Director, B. C. Mukharji.
Superintendent (Planning and Development), Dr. K. R. Chakravorty.
Secretary, B. K. Khanna.
UNIT—SINDRI: *Res. Director*, K. Ramachandran.
UNIT—NANGAL: *Gen. Manager*, J. P. L. Shenoy.
UNIT—TROMBAY: *Chief Exec. Officer*, Rizwanul Hasan.
UNIT—NAHORKATIYA: *Chief Project Administrator*, B. K. Khanna.

MINISTRY OF COMMUNITY DEVELOPMENT AND CO-OPERATION

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Deputy Minister, B. S. Murthy.
Parliamentary Secretary to the Minister, Shyam Dhar Misra.

Department of Community Development.

Addl. Secretary, P. V. R. Rao.

NATIONAL CO-OPERATIVE DEVELOPMENT AND WAREHOUSING BOARD.
118, Jorbag, New Delhi 3.

Secretary, B. M. Chitnis.

SUBORDINATE OFFICES

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Principal, S. Chakravarti, I.C.S.

Institute for Instructors on Community Development, Rajpur, Dehra Dun.
Principal, U. C. Ghildyal.

Orientation and Study Centres.

Principals, U. S. Gour (*Udaipur*); B. M. Pande (*Lucknow*); L. Malakondayya (*Hyderabad*); R. C. Prasad, I.A.S. (*Ranchi*); B. Rudramoorthy (*Mysore*); Dr. R. S. Shiwalkar (*Jabalpur*); B. M. Pausare (*Nilokheri*); K. D. Tamhane, (*Junagadh*).
Social Education Organisers Training Centre.
Directors, Sachchidanandan (*Ranchi*); S. S. Gill (*Nilokheri*).

Department of Co-operation

Secretary, M. R. Bhide, I.C.S.
Additional Co-operation Commissioner, M. P. Bhargava.

MINISTRY OF DEFENCE

Minister, V. K. Krishna Menon.
Deputy Defence Minister, Surjit Singh Majithia.
Deputy Defence Minister, K. Raghuramiah.
Parliamentary Secretary, F. D. Gaekwad.
Secretary, O. Pulla Reddi.
Addl. Secretary, R. P. Sarathy.
Joint Secretaries, H. C. Sarin, S. D. Nargolwala, J. S. Lall, M. G. Kaul, M. M. Sen.
Director, Military, Land and Cantonments, Gajendra Singh.
Controller General of Defence Production, Rear Admiral Daya Shankar.
Chief Controller, Research and Development Organisation, Maj. Gen. B. D. Kapoor.

Office of the Chief Administrative Officer, Ministry of Defence

Chief Administrative Officer, H. Sambamurti.

DEFENCE FORCES

Indian Army

Chief of the Army Staff, General P. N. Thapar.
Deputy Chief of the Army Staff, Lt.-Gen. M. S. Wadalia.
General Officer Commanding-in-Chief, Southern Command, Lt.-Gen. J. N. Chaudhuri.
General Officer Commanding-in-Chief, Eastern Command, Lt.-Gen. L. P. Sen.
General Officer Commanding-in-Chief, Western Command, Lt.-Gen. Daulat Singh.
Chief of the General Staff, Lt.-Gen. B. M. Kaul.
Dy. Chief of the General Staff, Maj.-Gen. Dhillon.
Adjutant-General, Lt.-Gen. P. P. Kumaramangalam.
Dy. Adjutant-General, Maj.-Gen. P. C. Gupta.
Quartermaster-General, Lt.-Gen. R. K. Kochhar.
Dy. Quartermaster-General, Maj-Gen. R. N. Nehra.
Offg. Master-General of the Ordnance, Maj.-Gen. A. C. Iyappa.
Dy. Master-General of the Ordnance, Maj.-Gen. A. C. Iyappa.
Military Secretary, Maj.-Gen. Moti Sagar.
Engineer-in-Chief, Maj.-Gen. Harkirat Singh.
G.O.C., Madras, Mysore and Kerala Area, Maj.-Gen. M. G. Dewan.
G.O.C., Maharashtra & Gujarat Area, Maj.-Gen. F. C. Badhwar.
G.O.C., U.P. Area, Maj.-Gen. Ghanshyam Singh.
G.O.C., Delhi and Rajasthan Area, Maj.-Gen. Bhagwati Singh.
Commander, Bombay Sub-Area, Brig. Kamta Prasad.
Commander, Poona Sub-Area, Brig. Chandra Sekhar.
Commander, Bengal, Bihar & Orissa (Ind.) Sub-Area, Brig. G. I. S. Kullar.
Commander, Mysore Sub-Area, Vacant.
Commander, Punjab & Himachal Pradesh (Ind.) Sub-Area, Brig. Gurkirpal Singh.
Commander, Madhya Pradesh (Ind.) Sub-Area, Brig. Budh Singh.
Commander, Meerut Sub-Area, Brig. A. S. Sodhi.
Commander, Lucknow Sub-Area, Brig. K. P. Dube.

Indian Navy

Naval Headquarters.

Chief of the Naval Staff, Vice-Admiral R. D. Katari.
Deputy Chief of the Naval Staff, Rear-Admiral A. K. Chatterji.
Flag Officer (Commanding), Indian Fleet, Rear-Admiral B. S. Soman.
Commodore-in-Charge, Cochin, Commodore R. S. David.
Flag Officer, Bombay, Rear-Admiral S. G. Karmarkar.
Commodore, East-Coast, Visakhapatnam, Commodore G. S. Kapoor.
Chief of Material, Commodore B. S. Baswan.
Chief of Personnel, Commodore K. R. Nair.
Chief of Naval Aviation, Commodore D. W. Kirke (R.N.).

Indian Air Force

Air Headquarters, New Delhi 11.

Chief of the Air Staff, Air Marshal A. M. Engineer, D.F.C.
Deputy Chief of the Air Staff, Air Vice-Marshal D. A. R. Nanda.
Air Officer Commanding-in-Chief, Operational Command, Air Vice-Marshal E. W. Pinto.
Air Officer Commanding-in-Chief, Eastern Air Command, Air Vice-Marshal K. L. Sondhi.
Air Officer Commanding-in-Chief, Maintenance Command, Air Vice-Marshal Harjinder Singh.
Air Officer Commanding, Training Command, Air Vice-Marshal S. N. Goyal.
Air Officer-in-Charge, Administration, Vice-Marshal Arjan Singh, D.F.C.
Air Officer-in-Charge, Maintenance, Air Commodore M. S. Chaturvedi.
Air Officer-in-Charge, Policy and Plans, Air Commodore H. N. Chatterjee, D.F.C.

Director-General, Ordnance Factories 6, Esplanade East, Calcutta

Director General, Ordnance Factories, S. J. Shahaney, I.O.F.S.
Deputy Director General, Ordnance Factories (Administration), M. M. Thomas, I.O.F.S.
Deputy Director General, Ordnance Factories (Production & Explosives), Dr. G. S. Kasbekar.

Cordite Factory
Aravankadu (Nilgiris)

Superintendent, Sardar Gajendra Singh.
Superintendent (Project), O. P. Gupta.

Directorate of National Cadet Corps D.H.Q. P.O., New Delhi 11

Director, Maj.-Gen. Rajinder Singh Paintal.

Office of the D.G., A.F.M.S., D.H.Q. P. O., New Delhi 11

Director-General, Armed Forces Medical Services, Lt.-Gen. S. P. Bhatia.

Directorate of Stores Production (Navy) D.H.Q. P. O., New Delhi 11

Director of Stores Production (Navy), Capt. K. R. Ramnath, I.N.

Bharat Electronics Ltd., Jalahalli, Bangalore 13.

Chairman, O. Pulla Reddy, I.C.S.
Managing Director, B. V. Baliga.
Controller of Finance, A. Ranga Swami.
Dy. General Manager, C. B. Cariappa.

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Hindustan Aircraft Ltd., Hindustan Aircraft P. O., Bangalore

Managing Director, Air Vice-Marshal Ranjan Dutt, Vir Ch.
General Manager, P. M. Reddy (*Technical*).
Dy. General Managers, K. P. V. Menon (*Railcoach*), Dr. V. M. Ghatage (*Design & Devpt.*); Air Cdr. S. M. Rikh (Engineer).
Company Secretary, M. S. Nilakantan.

I.N. Physical Laboratory, Naval Base, Cochin 4

Principal Scientific Officer & Officer-in-Charge, V. Narayana Rao.

Naval Chemical & Metallurgical Laboratory, Naval Dockyard, Bombay 1

Officer-in-Charge, U. G. K. Menon, B.Sc. (Met.), A.M.I.E.

Hydrographic Dept., Indian Navy

NAVAL HYDROGRAPHIC OFFICE, RAJPUR ROAD, DEHRA DUN (U.P.)

Chief Hydrographer, Captain J. S. Mehta, I.N.

Canteen Stores Department (India) Adelphi, 119, Queen's Road, Bombay 1

General Manager & Chairman, Board of Administration, Brigadier G. F. DeSouza.

MACHINE TOOL PROTOTYPE FACTORY, AMBARNATH.

Superintendent, S. N. Chatterjee, A.M.I. Prod. E., I.O.F.S.

MINISTRY OF EDUCATION

Minister of Education, Dr. K. L. Shrimali.
Secretary and Educational Adviser, P. N. Kirpal.
Jt. Secy., R. P. Naik, I.C.S.
Adviser, Primary Education, J. P. Naik.
Jt. Educational Advisers, R. R. Singh, I.A.S., R. K. Kapur.

Central Braille Press, Rajpur Road, Dehra Dun, U. P.

Manager, P. K. Sen, M.A.
Braille Editor, T. V. N. Singh, M.A., Dip. Journ.

Central Institute of Education, 33, Chhatra Marg, Delhi 6

Principal, Dr. E. A. Pires, M.A. (London), Ph.D. (Bombay).

National Archives of India, Janpath, New Delhi

Director, S. N. Roy, M.A.

REGIONAL RECORD OFFICE, BHOPAL

Keeper of Records, M. H. Rizawi, B.A. (Hons.), M.A., B.L.

National Library, Belvedere, Calcutta 27

Librarian, B. S. Kesavan, M.A. (Lond.), Dip. Lib. (London); *Administrative Officer*: A. R. Sen Gupta, B.A., Dip. Lit.

Training Centre for the Adult Blind, Rajpur Road, Dehra Dun

Superintendent, R. P. Joseph.

National Institute of Basic Education

41A, Friends Colony, Mathura Road, New Delhi 14.

Director: J. K. Shukla.

Board of Higher Secondary Education

Block No. 2, Old Secretariat, Delhi 8.

Chairman, B. D. Bhatt, M.A., L.T.
Secretary, Damodar Dass, M.A., LL.B., M.Ed.

Central Social Welfare Board, Jeevan Deep Building, 1st Floor, Parliament Street, New Delhi

Chairman, Smt. Durgabai Deshmukh.
Secretary, R. S. Krishnan.

MINISTRY OF EXTERNAL AFFAIRS

Minister, Jawaharlal Nehru.
Deputy Minister, Smt. Lakshmi N. Menon.
Parliamentary Secretaries, Sadath Ali Khan; J. N. Hazarika.
Secretary General, R. K. Nehru, I.C.S.
Foreign Secretary, M. J. Desai, I.C.S.
Commonwealth Secretary, Y. D. Gundevia, I.C.S.
Special Secretary, B. F. H. B. Tyabji.
Joint Secretary (Chief of Protocol & Controller General of Emigration), S. K. Banerji.
Joint Secretaries, V. C. Trivedi; K. L. Mehta, I.C.S.; K. V. Padmanabhan; S. Gupta.
Director, Historical Division, Dr. S. Gopal.
Dy. Chief of Protocol, Maj. J. S. Teja.
Legal Advisers, B. Sen (Hony.); J. M. Mukhi.

N.E.F. AGENCY

Adviser to the Governor of Assam, N. K. Rustomji, I.C.S.

EXTERNAL PUBLICITY DIVISION

Director (XP. Division), P. N. Menon.
Director (Information Services of India), R. C. Asthana.
Director, Press Relations, Obaidur Rahman.

CONFERENCE DIVISION

Deputy Secretary, K. S. Bajpai.

CENTRAL PASSPORT ORGANISATION

Regional Passport Officer, New Delhi, S. W. Zaman.
Regional Passport Officer, Madras, M. V. Chalam.
Regional Passport Officer, Bombay, H. C. Hogg.
Regional Passport Officer, Calcutta, R. D. Chakravarty.
Regional Passport Officer, Lucknow, D. C. Mukerjee.

MINISTRY OF FINANCE

Minister, Morarji R. Desai.
Dy. Ministers, B. R. Bhagat, Smt. Tarkeshwari Sinha.
Private Secretary to Minister, V. Y. Tonpe.

Department of Economic Affairs

Secretary, L. K. Jha, I.C.S.
Additional Secretary, K. P. Mathrani, I.C.S.
Joint Secretaries, N. C. Sen Gupta, I.C.S.; A. Baksi, I.A. & A.S.; K. S. Sundara Rajan; B. K. Kaul,* I.C.S.; Shiv Naubh Singh, I.A. & A.S.
Chief Economic Adviser, I. J. Patel.
Additional Budget Officer, A. R. Shirali.

OFFICE OF THE COMMISSIONER-GENERAL FOR ECONOMIC AFFAIRS IN U.S.A., WASHINGTON, D.C. (U.S.A).

Commissioner-General for Economic Affairs, B. K. Nehru,† I.C.S.
Ministers, P. Govindan Nair, I.C.S.; B. N. Adarkar.
Counsellor, C. S. Krishnamoorthy, I.A.S.
Economic Attache, I. G. Patel.

OFFICE OF THE COMMISSIONER-GENERAL FOR ECONOMIC AFFAIRS IN EUROPE, LONDON.

Commissioner-General, T. Swaminathan, I.C.S.
First Secretary, M. S. Nadkarni.

REHABILITATION FINANCE ADMINISTRATION, CHURCH ROAD, NEW DELHI 2.

Chief Administrator, R. N. Hazari.

Department of Expenditure

GENERAL DIVISION

Secretary, S. Boothalingam, I.C.S.
Joint Secretaries, B. Mukherji; K. L. Ghei; S. S. Shiralkar; Indarjit Singh; A. C. Bose; P. C. Bhattacharyya; A. V. Venkateswaran; R. P. Padhi.

COST ACCOUNTS BRANCH

Chief Cost Accounts Officer, N. Krishnan.

DEFENCE DIVISION

Financial Adviser, S. Jayasankar.
Addl. Financial Advisers, J. S. Miny; M. K. Hariharan.

Department of Revenue

CENTRAL BOARD OF REVENUE

Secretary, Department of Revenue, V. T. Dehejia, I.C.S.
Senior Member, C.B.R. and ex-Officio Joint Secretary, V. V. Chari.
Members, C.B.R. & ex-Officio, Joint Secretaries, B. N. Banerji, D. P. Anand, J. P. Singh.

DIRECTORATE OF INSPECTION, EXCISE AND CUSTOMS

Director of Inspection, S. K. Bhattacharjee.

DIRECTORATE OF REVENUE INTELLIGENCE

Director, T. C. Seth.

DIRECTORATE OF INSPECTION

Research, Statistics and Publication Wing

Director of Inspection, S. P. Jain.

Investigation Wing

Directors of Inspection (Investigation), W. K. Gharpurey; *Income Tax Wing*, K. D. Dholakia.

CENTRAL REVENUES CONTROL LABORATORY, NEW DELHI

Chief Chemist, H. D. Suri.

STATISTICAL BRANCH (INCOME-TAX)

Statistician (Income-tax), P. S. B. Pillai.

STATISTICS AND INTELLIGENCE BRANCH (CENTRAL EXCISE)

Dy. Coll. in-Charge, M. N. Mathur.

CENTRAL EXCISE REORGANISATION COMMITTEE

Chairman, A. K. Chanda.

Enforcement Directorate

Reserve Bank Building, 2nd Floor, New Delhi.
Director, A. M. Chatterjea.
Dy. Director, B. B. Gujral.

Bombay Region—C/o Reserve Bank of India, Amar Building, Sir Pherozshah Mehta Road, Bombay.

Asstt. Directors: S. M. Sanzgiri (*Adm.*); N. W. Alimchandani.

Calcutta Region—14, Theatre Road, Calcutta 16.

Dy. Director: J. Dass.

Madras Region—C/o Reserve Bank Bldg., South Beach Road, Madras.

Asstt. Director: R. Swaminathan.

Defence Accounts Department (D. H. Qrs. Post Office, New Delhi 11)

Controller General of Defence Accounts, Phul Chand.
Addl. Controller-General of Defence Accounts, H. L. Wadera.

Department of Insurance, Kennedy Cottage, Simla 4

Controller of Insurance, S. K. Vaiyapuri, M.A. (Oxon.), F.I.A., Bar-at-Law.

Comptroller and Auditor-General of India, Mathura Road, New Delhi

Comptroller and Auditor-General, A. K. Roy.
Dy. Comptroller and Auditor-General, P. C. Padhi.
Additional Deputy Comptroller and Auditor-General (Railways) and Ex-Officio Director of Rly. Audit, G. Swaminathan.
Additional Deputy Comptroller and Auditor-General (Headquarters), A. K. Mukherji.
Addl. Dy. Comptroller and Auditor-General (Report), G. S. Rau.
Director of Audit & Accounts, S. Ramier.
Asst. Comptroller & Auditor General (Admn.), P. K. Biswas.

* Is due to take over as Chairman, L.I.C., from March 1, 1962.

† Is now Indian Ambassador to U.S.A.

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India Government Mint, Bombay

Mint Master, A. A. J. Gomez, B.Sc. (Hons.) (Lond.), A.C.G.I., D.I.C., A.M.I.E.
Bullion Registrar, A. C. Sarnaik.
Works Manager, B. M. Mistry, B.E. (Electrical), B.E. (Mech.).

India Government Mint, Calcutta 27

Master of the Mint, B. S. D. Aiyar, M.A., B.Sc. (Hons.), D.I.I.Sc. (Tech.), A.M.I.E.
Dy. Master of the Mint, P. K. Tikku, B.Eng. (Sheffield).
Works Manager, S. S. Molla.
Bullion Registrar, G. E. Belchambers.

India Government Mint, Hyderabad, A.P.

Asst. Mint Master, D. C. Mukherjea, A.M.I. Mech. E. (Lond.).
Dy. Works Manager, H. W. Harding.
Bullion Registrar, Rasheed Ahmed.

India Security Press, Nasik Road

(GENERAL CENTRAL SERVICE—CLASS I)

Master, India Security Press and Ex-Officio Controller of Stamps, M. S. Pathak, B.Sc., B.E. (Elec.) & B.E. (Mech.).
Deputy Master, India Security Press, M. B. Kapur, A.M.I.Mech.E., A.M.I.E. (India).
Deputy Master, P. M. Rau, B.Sc. (Engg.), A.M.I.E. (India).

(GENERAL CENTRAL SERVICES—CLASS II)

India Government Silver Refinery

47, Strand Road, Calcutta 7.

General Manager, V. J. Joshi.

Industrial Finance Corporation of India, Reserve Bank Building, Parliament Street, New Delhi

Directors on the Board of the Corporation, K. P. Mathrani (*Chairman*); G. D. Ambekar; A. Bakshi; Prof. S. K. Basu; C. C. Desai; R. M. Deshmukh (M.P.); Dr. B. K. Madan; K. P. Mathrani; Ct. M. Muthiah; S. V. Ramamurty; S. V. Ranganathan; S. C. Roy; V. P. Varde; S. P. Virmani.
Secretary, D. R. Madhok.
Bombay Office:—Liberty Building, 8, Marine Lines, Bombay 1.
Calcutta Office:—P-11, Mission Row Extension, 3rd Floor, Calcutta 1.
Madras Office:—38, Whites Road, Royapettah, Madras 14.

Office of the Accountant-General, Central Revenues, Indraprastha Estate, New Delhi

Accountant-General, P. V. Raghava Rao.
Sr. Deputy Accountants-General, K. C. Das; P. K. Ganapathi.
Dy. Accountants-General, M. N. Patnaik; Manjit Singh; K. K. Rao; P. Ranjetha; M. Prem Kumar.

Office of the Accountant-General, Posts and Telegraphs, Simla

A.G., R. K. Khanna, I.A. & A.S.
D.A.G., G. C. Raghubir, I.A. & A.S.

Office of the Deputy Accountant-General, Posts and Telegraphs, Kapurthala

Deputy Accountant-General, R. S. Gupta, I.A. & A.S.

Office of the Senior Deputy Accountant-General, Posts and Telegraphs, 7, Koilaghat Street, P.O. Box 275, Calcutta

Sr. Dy. Accountant-General, M. A. Siddiqui, I.A. & A.S.
Dy. Accountant-General, M. L. Ray, I.A. & A.S.

Office of the Deputy Accountant-General, Posts & Telegraphs, Telegraph Check, Calcutta

Dy. Accountant-General, P. K. Bose, I.A. & A.S.

Office of the Dy. Accountant-General, Posts & Telegraphs, Stores & Workshops, Calcutta

Dy. Accountant-General, K. J. Kuriyan, I.A. & A.S.

Office of the Sr. Deputy Accountant-General, Posts and Telegraphs, Delhi

Sr. Deputy Accountant-General, Kulwant Singh, I.A. & A.S. (EC.).

Office of the Senior Deputy Accountant-General, Posts and Telegraphs, No. 3, Commander-in-Chief Road, Egmore, Madras 8

Sr. Deputy Accountant-General, S. P. Narayana Chetty, I.A. & A.S.

Office of the Senior Deputy Accountant-General, Posts and Telegraphs, Nagpur

Sr. Deputy Accountant-General, K. C. Jain, I.A. & A.S.

Office of the Assistant Accountant-General, Posts & Telegraphs (Hyderabad)

Dy. Accountant-General, M. K. Behl, I.A. & A.S.

Office of the Director of Audit, Defence Services, New Delhi

Director of Audit, P. D. Seth.

Railway Audit Offices

Northern Railway
Baroda House, New Delhi.
Chief Auditor, S. Ramier.

Western Railway
Bombay 1.
Chief Auditor, G. B. Singh, I.A. & A.S.

Eastern Railway
Mackinnon Mackenzie Bldg., Strand Road, Calcutta
Chief Auditor, D. A. Qadri, I.A. & A.S.

South-Eastern Railway
Calcutta 43.
Chief Auditor, P. P. Gangadharan, I.A. & A.S.

North-Eastern Railway
Gorakhpur.
Chief Auditor, T. Rengachari, I.A. & A.S.

Central Railway
Bombay 1.
Chief Auditor, D. D. Dhingra, I.A. & A.S.

Southern Railway
Madras.
Chief Auditor, R. P. Ranga, I.A. & A.S.

National Savings Commissioner for India, Post Box No. 96, Nagpur

National Savings Commissioner for India, N. V. Nayudu.
Assistant National Savings Commissioner, R. G. Khedekar.
Secretary, S. M. Mathur.
Regional National Savings Officers, S. Mookerjee (*Calcutta*), J. L. Bhargava (*Delhi*), J. H. Kothari (*M.P.*), A. H. Siddique (*Andhra*), G. Ramachandran (*Kerala*), T. K. Purkayastha (*Assam*), R. G. Patil (*Bombay*), Md. Beary (*Mysore*), P. K. Narayan (*Bihar*), M. M. Majumdar (*Orissa*), Lachmi Narain (*Punjab*), Gurbachan Singh (*Rajasthan*), M. A. Shah (*Srinagar*).

Narcotics Department, Cleremont, Morar, Gwalior.

Narcotics Commissioner, D. N. Kohlik, I.R.S.
Dy. Narcotics Commissioner, R. N. Shukla, I.R.S.
Intelligence Officer (Senior), N.I.B., S. P. Asthana, I.R.S.

UTTAR PRADESH UNIT, GHAZIPUR

Deputy Narcotics Commissioner, B. S. Chawla, I.R.S.

MADHYA PRADESH UNIT

Neemuch, M.P.

Asstt. Narcotics Commissioner, V. K. Asthana, I.R.S.

RAJASTHAN UNIT

Kutch

Asstt. Narcotics Commissioner, H. N. Segal, M.Sc., I.R.S.

Reserve Bank of India

CENTRAL OFFICE, POST BOX 406, BOMBAY 1

Governor, H. V. R. Iengar.
Deputy Governors, B. Venkatappiah; M. V. Rangachari.
Executive Directors, C. S. Divekar; Dr. B. K. Madan.
Chief Accountant, N. D. Nangia.
Secretary, K. N. Mehta.
Inspector, M. M. Mehra.
Legal Adviser, Legal Division, B. N. Mehta.
Chief Officer, Department of Banking Operations, M. S. Nadkarni.
Chief Officer, Department of Banking Development, A. R. Tanawala.
Chief Officer, Industrial Finance Department, K. C. Mittra.
Chief Officer, Agricultural Credit Department, J. C. Ryan.
Deputy Controller, Exchange Control Department, D. N. Malsute.
Dy. Economic Advisers, Economic Department, Dr. P. J. J. Pinto; S. L. N. Simha.
Statistical Adviser, Department of Statistics, Dr. N. S. R. Sastry.
Manager, Bombay, B. V. Desai.
Manager, Calcutta, D. D. Pai.
Manager, Madras, G. Balasubramanian.
Manager, New Delhi, J. S. Jaspal.
Manager and Currency Officer, Kanpur, R. C. Sachdeva.
Manager and Currency Officer, Bangalore, P. C. Sood.
Manager and Currency Officer, Nagpur, J. S. Narula.
Manager, Lucknow, R. P. Chatterjee.
Manager, London, V. G. Pendharkar.
Manager, Patna, C. K. Bhaskaran.

State Bank of India

(Successors to the Imperial Bank of India) Incorporated in India under the State Bank of India Act, 1955

The Liability of the Members is Limited.

Constituted on 1st July 1955 under the State Bank of India Act, 1955.

Central Board of Directors: P. C. Bhattacharyya,* *Chairman*; Prof. D. G. Karve, *Vice-Chairman*; S. P. Puri, *Managing Director*; B. Mukerji, I.C.S., *Managing Director*; *Directors elected under clause (c) of sub-section (1) of section 19 of the Act*: J. D. Choksi, Pratapsinh Mathuradas, *Directors nominated by the Reserve Bank of India under the proviso to clause (c) of sub-section (1) of section 19 of the Act*: D. P. Goenka, Sir Walter Michelmore, Satya Paul Virmani, Maddi Sudarsanam, *Directors nominated by the Central Government under clause (d) of sub-section (1) of section 19 of the Act, in consultation with Reserve Bank of India*: M. H. Hasham Premji, Ramnath A. Podar, Prof. D. R. Gadgil, Sachindra Chaudhuri, Dr. Triguna Sen, K. Ramunni Menon, Bharat Ram, V. S. Tyagaraja Mudaliar, *Director nominated by the Central Government under clause (e) of sub-section (1) of Section 19 of the Act*: K. P. Mathrani, I.C.S., *Director nominated by the Reserve Bank of India under clause (f) of sub-section (1) of section 19 of the Act*: B. Venkatappiah.

Members of Local Boards, Bombay: P. C. Bhattacharyya, *Chairman*, Pratapsinh Mathuradas, *President*, M. H. Hasham Premji, *Vice-President*, J. D. Choksi, Ramnath A. Podar, Prof. D. R. Gadgil, S. L. Kirloskar, Purushottam Kanji, B. D. Garware, Jehangir P. Patel.

Calcutta: P. C. Bhattacharyya, *Chairman*, Sachindra Chaudhuri, *President*, D. P. Goenka, *Vice-President*, Dr. Triguna Sen, Sir Walter Michelmore, Dhirendra Nath Mitra, K. K. Birla, Suresh Chandra Roy, B. C. Ghose.

* Is due to take over as Governor, Reserve Bank of India from March 1, 1962.

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Madras: P. C. Bhattacharyya, *Chairman*, K. Ramunni Menon, *President*, V. S. Tyagaraja Mudaliar, *Vice-President*, Maddi Sudarsanam, E. F. G. Hunter, M. A. Chidambaram Chettiar, T. S. Krishna, T. M. Chinnaiya Pillai.

New Delhi: P. C. Bhattacharyya, *Chairman*, Satya Paul Virmani, *President*, Bharat Ram, *Vice-President*, Kirpa Narain, Bhai Mohan Singh, Dr. P. S. Lokanathan, Sahu Jagdish Prasad.

Life Insurance Corporation of India

Central Office: Jeevan Kendra, Jamshedji Tata Road, Bombay 1.

Chairman, P. A. Gopalkrishnan, I.C.S.
Managing Directors, A. Rajagopalan; S. D. Srinivasan.
Financial Adviser, H. S. Negi.
Executive Directors, K. R. Srinivasan (*Investment*), D. S. Mehta (*Personnel*), D. P. Guzdar (*Accounts*).
Zonal Manager (*Integration*), T. S. Swaminathan.
Chief Internal Auditor, K. Palchoudhuri.
Zonal Managers, S. N. Vaidya (*Delhi*), K. Balasubrahmanyam (*Kanpur*), A. L. Dutta (*Calcutta*), H. Bal Ram Rao (*Madras*), V. H. Vora (*Bombay*).

MINISTRY OF FOOD AND AGRICULTURE

Minister for Food & Agriculture, S. K. Patil.

DEPARTMENT OF AGRICULTURE.

Minister of Agriculture, Dr. Panjabrao S. Deshmukh.
Deputy Minister of Agriculture, M.V. Krishnappa.
Secretary, K. R. Damle, I.C.S.
Special Secretary, V. Shankar, I.C.S.
Addl. Secretary, I.C.A.R. & ex-Officio Deputy Secretary, A. S. Bhatnagar.
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CENTRAL WATER AND POWER COMMISSION (POWER WING), PLANNING CELL, 13, MCNICHOLS ROAD, MADRAS-10.
Director (Ordinary Grade), M. Aswath.

CENTRAL WATER AND POWER COMMISSION (POWER WING), REGIONAL LOAD SURVEY OFFICE, 34, MAHIM HALDAR STREET, P.O. KALIGHAT, CALCUTTA-26.
Deputy Director, B. Chatterjee.

CENTRAL WATER AND POWER COMMISSION (POWER WING), REGIONAL LOAD SURVEY OFFICE, 549/3, P. L. SHARMA ROAD, MEERUT.
Deputy Director, S. C. Sarbadhikary.

CENTRAL WATER AND POWER COMMISSION (POWER WING), REGIONAL LOAD SURVEY OFFICE, 2ND FLOOR, KITAB MAHAL, DADABHAI NAOROJI ROAD, BOMBAY-1.
Deputy Director, R. K. Ganguli.

CENTRAL WATER AND POWER COMMISSION (POWER WING), REGIONAL LOAD SURVEY OFFICE, 31, KUMAR PARK EAST EXTENSION, BANGALORE-1.
Deputy Director, K. C. Krishnamurti.

CENTRAL WATER AND POWER RESEARCH STATION, POONA.
Director, M. G. Hiranandani,
Senior Dy. Director, Dr. B. C. Deb.

INVESTIGATION CIRCLE, NEW DELHI.
Superintending Engineer, K. R. Mehndiratta.

CENTRAL INDIA AND DECCAN RIVERS CIRCLE, C. W. & P. C., HYDERABAD.
Superintending Engineer, H. H. Mamtani.

ASSAM INVESTIGATION CIRCLE, C. W. & P. C., GAUHATI.
Superintending Engineer, R. N. Chawla.

TRISULI HYDRO-ELECTRIC PROJECT CIRCLE, C. W. & P. C., KATHMANDU (NEPAL).
Superintending Engineer, M. Vedavyasachar.

Central Water and Power Commission (Power Wing)
'Cleremo: t,' The Mall, Simla 4.

Directors, R. L. Butail, C. K. V. Rao, S. Rammohan.
Thermal Specialist Engineer, J. B. Singh.
Deputy Directors, B. N. Kapoor, D. G. Shinde, L. G. Thadani, R. K. Sen, B. Chowdhury, B. S. R. Iengar.
Adm. Officer, M. M. Dhawan.

Damodar Valley Corporation, Anderson House, Alipore, Calcutta 27.

Chairman (Part-time), S. Lall, I.C.S. (Retd.).
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Dy. General Manager, S. C. Misra, I.A.S.
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Chief Engineer, B. Parthasarathy, B.E. (Civil).
Chief Electrical Engineer, J. N. Goswami, M.I.E. (Ind.).
Commercial Engineer, N. K. De Sircar, B.E.(Elec.), A.M.I.E. (Ind.).
Controller of Purchase and Stores, K. Chakravarty, B.E. (Civil).
Chief Accounts Officer, C. R. Das Gupta.
Director of Soil Conservation, Dr. P. Sen.
Director of Rehabilitation and Land Acquisition, D. P. Singh.
Director of Personnel, S. K. Ray.

Hirakud Control Board

P.O. Hirakud Colony, Dist. Sambalpur, Orissa.
Member Secretary, V. Rama Rao.

Hirakud Dam Project

P.O. Hirakud Colony, *via* Sambalpur, Orissa.
Chief Engineer, V. Rama Rao.
Superintending Engineer, Electrical Circle, A. Sankaran.

Chambal Control Board

Bikaner House, Shahjahan Road, New Delhi.
Secretary, P. S. Rao, B.A., B.E., A.M.I.E.
Asstt. Secretary, S. H. Rao, B.E., A.M.I.E.
Financial Adviser, N. R. Bonsod, I.A. & A.S.
Asstt. Financial Adviser, K. S. Deshpande, M.A.

The National Projects Construction Corporation Private Ltd.

E-2, Jhandewala Estate, Off Jhansi-ki-Rani Road, New Delhi 1.
Managing Director, A. L. Das, I.S.E. (Retired Chief Engineer).
Chief Engineer, Vacant.
Financial Adviser, G. V. Chittal, I.A.A.S.
Planning Officer, H. Ramaswamy.

MINISTRY OF LABOUR, EMPLOYMENT AND PLANNING

Minister for Labour, Employment & Planning, Gulzari Lal Nanda.
Deputy Minister, Abid Ali.
Deputy Minister for Labour, Employment & Planning, L. N. Mishra.
Secretary, P. M. Menon, I.C.S.
Joint Secretary, K. N. Subramanian, I.C.S.
Joint Secretary, R. L. Mehta, I.A.S.
Labour & Employment Adviser, B. N. Datar.
International Labour Adviser, Consulate General of India, Geneva, S. T. Merani, I.A.S.
Internal Financial Adviser and ex-Officio Dy. Secretary, V. V. Anantakrishnan, I.A.S.
Deputy Secretaries, B. K. Bhattacharya, I.A.S., Teja Singh Sahni, Dr. B. R. Seth.

Planning Commission
Yojana Bhavan, New Delhi.

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Deputy Chairman and Minister of Planning, Labour & Employment, Gulzari Lal Nanda,
Members, Morarji Desai; V. K. Krishna Menon; T. N. Singh; Prof. P. C. Mahalanobis; C. M. Trivedi; Shriman Narayan; Dr. A. N. Khosla.
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Secretary, Vishnu Sahay.
Addl. Secretary, Tarlok Singh.
Advisers on Programme Administration, B. P. Patel; Nawab Singh; M. S. Sivaraman.
Advisers, E. P. Moon; J. J. Anjaria; Balwant Singh Nag; Dr. M. S. Randhawa.
Jt. Secretaries, Dr. S. R. Sen; V. K. Rao, I.C.S.; Dr. D. K. Malhotra.

Programme Evaluation Organisation
Planning Commission, New Delhi.

Director, Dr. J. P. Bhattacharjee.

National Development Council

Chairman: Jawaharlal Nehru, Prime Minister of India.
Members: Members of Planning Commission: Gulzarilal Nanda; Morarji R. Desai (*Finance*); V. K. Krishna Menon (*International Trade & Development*); C. M. Trivedi (*Natural Resources*); Shriman Narain (*Agriculture*); T. N. Singh (*Industry*); Dr. A. N. Khosla (*Education*); Prof. P. C. Mahalanobis, (*Perspective Training*).
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Secretary: Vishnu Sahay.

Coal-mines Labour Welfare Fund Organisation, Jagjivan Nagar P.O., Dhanbad

Coal Mines Welfare Commissioner, Brig. K. Bag Singh.
Dy. Coal Mines Welfare Commissioner, N. M. Khan Warsi.

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Dy. Coal, Mines Welfare Commissioner, A. P. Connolly.
Financial Adviser, J. K. Chatterjee.
Executive Engineer, N. D. Taneja.

Directorate-General of Employment and Training

D. G. E. & T. Joint Secretary, S. A. Qadir, I.A.S.

DIRECTORATE OF EMPLOYMENT EXCHANGES.
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Addl. Director, A. N. K. Nair.
Deputy Directors, Rattan Swarup; K. T. N. Nambiar; Narayan Swarup.

DIRECTORATE OF TRAINING.
Director, P. Rajanath.
Deputy Directors, S. Sundareson; B. S. Randhava.

Employees' State Insurance Corporation, 2-A/3, Asaf Ali Road, New Delhi.

Director-General, V. N. Rajan.
Insurance Commissioner, S. K. Chibber.
Chief Accounts Officer, V. R. Mahadevan.
Actuary, V. R. Natesan.

REGIONAL OFFICE, 64, GANESH CHANDRA AVENUE, CALCUTTA 13.
Regional Director, S. Narayan.

EMPLOYEES' STATE INSURANCE CORPORATION, REGIONAL OFFICE, No. 2, SIR DESIKACHARI ROAD, MYLAPORE, MADRAS 4.
Regional Director, I. C. Sarin.

REGIONAL OFFICE, E.S.I. CORPORATION, E.S.I.C. BUILDING, COLABA ROAD, BOMBAY 5.
Regional Director, N. Verma.
Dy. Regional Directors, B. D. Chopra; H. P. Mansukhani; P. L. Marwaha.

REGIONAL OFFICE, SHREE INDUSTRIAL MILLS ESTATE, FIRST FLOOR, GOMTIPURA ROAD, AHMEDABAD.
Regional Director, K. C. Aggarwal.

REGIONAL OFFICE, B-9, PUSA ROAD, NEW DELHI 5.
Regional Director, J. D. Gakhar.

REGIONAL OFFICE, 7/202, SWARUP NAGAR, KANPUR
Regional Director, R. K. Agarwal.

REGIONAL OFFICE, 6, RACECOURSE ROAD, INDORE
Regional Director, A. N. Bidani.

REGIONAL OFFICE, 462(*a*)-14, KAVADIGUDA ROAD, MUSHEERABAD P. O., HYDERABAD 20.
Regional Director, Capt. Muhammad Alimullah.

REGIONAL OFFICE, A. K. MUKERJEE BLDG., RLY. STATION ROAD, JAIPUR
Regional Director, P. C. Sarin.

REGIONAL OFFICE, 1016-A/XIII, CIRCULAR ROAD, AMRITSAR.
Regional Director, R. K. Luthra.

REGIONAL OFFICE, MADHAVI MANDIR, SANKARA IYER ROAD, TRICHUR
Regional Director, V. Sivaraman.

REGIONAL OFFICE, 13, KUMARA PARK EAST EXTENSION, BANGALORE
Regional Director, L. P. Gupta.

REGIONAL OFFICE, SALIMPUR AHRA, PATNA 3.
Regional Director, Surjit Singh.

REGIONAL OFFICE, DR. D. B. BUILDING, DR. B. BAROOAH ROAD, GAUHATI.
Regional Director, P. P. Rastogi.

REGIONAL OFFICE, 10, CANTONMENT ROAD, CUTTACK
Regional Director, J. S. Grewal.

Central Govt. Industrial Tribunal, City Ice Building, 298, Bazargate Street, Fort, Bombay 1

Presiding Officer, Salim M. Merchant.

Labour Bureau
Kennedy House, Simla.

Director, Dr. A. M. Lorenzo.
Sr. Deputy Director, Dr. K. C. Seal.
Dy. Directors, B. N. Srivatsava; A. Basu; K. D. Chatterjee; V. Agnihotri.
Chief Research Officer, L. R. Varma.
Asstt. Directors, M. A. M. Rao; T. Chellaswami.
Research Officers, A. S. Bharadwaj; D. P. Roy; S. A. N. Murthy; V. Vikraman; K. Srikantan; Bishamber Nath; Harbans Lal; A. K. Malhotra; O. K. Seth; H. K. Chawla; Baldev Prasad; D. S. Phalke; V. Anjaneyalu; M. L. Bharadwaj.
Regional Officers, S. Banerji; J. N. Sharma; B. P. Guha; R. L. Sodhi.

Labour Bureau
(Agricultural Labour Division), Simla 4.

Director, Dr. A. M. Lorenzo.
Deputy Director, K. D. Chatterjee.
Assistant Director, T. Chellaswami.
Research Officer, S. A. N. Murthy.

Mines

Chief Inspector of Mines, G. S. Jabbi.
Regional Inspector of Mines (Examination), I. J. Badhwar.
Regional Inspectors of Mines (Sp. Duties), G. S. Marwaha; H. S. Ahuja.

ELECTRIC INSPECTORATE
Electric Inspector of Mines, Dhanbad, N. Ghosh.

SITARAMPUR INSPECTION REGIONS, SITARAMPUR, E.R. (W. BENGAL)
Regional Inspectors of Mines, S. S. Prasad, M. P. Roy.

DHANBAD INSPECTION REGIONS NOS. 1 AND 2, DHANBAD, E.R. (BIHAR)
Regional Inspectors of Mines, S. Sankaran, B. M. Bhat, S. J. Achariar.

KODARMA INSPECTION REGION, JHUMRITELAIYA, KODARMA (BIHAR)
Regional Inspector of Mines, M. S. Kahlon.

AJMER INSPECTION REGION, AJMER, N.R. (RAJASTHAN)
Regional Inspector of Mines, S. N. Ramanathan.

PARASIA INSPECTION REGION, CHHINDWARA (M.P.)
Regional Inspector of Mines, S. D. Prasad.

NELLORE INSPECTION REGION, NELLORE (ANDHRA PRADESH)
Regional Inspector of Mines, S. P. Ganguly.

OORGAUM INSPECTION REGION, OORGAUM (MYSORE)
Regional Inspector of Mines, M. Subramanyam.

Coal Mines Provident Fund Commissioner, Dhanbad.

Coal Mines Provident Fund Commissioner, Prakash Chandra.
Assistant Commissioners, Raviansh Kumar, Shiv Dyuti Prasad.

Mica Mines Labour Welfare Fund, Jagjivan-Nagar P. O., Dhanbad.

BIHAR
Welfare Commissioner, Brig. K. Bag Singh.

Mica Mines Labour Welfare Fund Advisory Committee, Nellore (Andhra Pradesh).

Chairman, G. V. Ramakrishna, I.A.S.
Secretary, Mohamed Hayath, B.A.

Office of the Central Provident Fund Commissioner, 55-B, D.G.R.E. Bldgs., 18, Gurdwara Road, New Delhi.

Central Provident Fund Commissioner, S. N. Mubayi.
Asstt. Provident Fund Commissioners, P. S. Dhotrekar, V. Prasad, K. S. Sethi, Charanjit Khanna, R. R. Sahae.

Office of the Chief Adviser, Factories, Block No. 2-A/3, Asaf Ali Road, New Delhi.

Chief Adviser, Factories, N. S. Mankiker.
Jt. Chief Adviser, Factories, S. R. Bhise.
Deputy Chief Adviser, Factories, Dr. M. N. Gupta.

Office of the Chief Labour Commissioner, 18, Gurdwara Road, New Delhi 1.

Chief Labour Commissioner (Central), S. P. Mukerjee, I.A.S.
Dy. Chief Labour Commissioner, O. Venkatachalam.

REGIONAL LABOUR COMMISSIONERS (CENTRAL)
Bombay.—S. C. Gupta; *Calcutta.*—R. J. T. D'Mello; *Kanpur.*—Hari Singh; *Dhanbad.*—Ranjit Singh; *Madras.*—R. N. Basu; *Jabalpur.*—I. B. Sanyal; *Dhanbad (Implementation).*—A. M. Joshi.

Central Board for Workers' Education
200, Institute Road, Dharampeth Extension, Nagpur.
Secretary, P. S. Easwaran.

Controller of Emigrant Labour
'Primrose Villa', Post Box 26, Shillong.
Controller of Emigrant Labour and Conciliation Officer, P. C. Rai.

Training Within the Industry Centre
Industrial Assurance Bldg., Churchgate, Bombay 1.
Dy. Chief Adviser, Factories, P. K. Sathe.
Asstt. Chief Advisers, Factories (TWI), H. J. Bakhru; M. M. Mandalia.

Productivity Centre
Industrial Assurance Bldg., Churchgate, Bombay 1.
Dy. Chief Adviser, Factories (Productivity), T. M. Jacob.
Asstt. Chief Advisers, Factories (Productivity), K. Rama Murthy; D. N. Ghosh; B. T. Shahani.
Officer on Special Duty (Productivity), T. Duraiswami.

Safety, Health and Welfare Centre
Central Labour Institute, Old Victoria Mills Compound, 2nd Floor, 55, Gamdevi Road, Bombay 7.
Asstt. Chief Adviser, Factories (CLI), J. R. Ovalekar.
Asstt. Chief Adviser Factories (Chemical), Dr. C. R. Hari Hara Iyer.
Asstt. Chief Adviser, Factories (Physiology), Dr. A. Sen Gupta.
Asstt. Chief Adviser, Factories (Medical), Dr. S. K. Chatterjee.

MINISTRY OF LAW

Minister for Law, Asoke Kumar Sen.
Dy. Minister, R. M. Hajarnavis.

Department of Legal Affairs

Secretary, B. N. Lokur.
Joint Secretaries and Legal Advisers, R. S. Gae; K. Srinivasan; V. S. Jetley; G. H. Rajadhyaksha (at Branch Secretariat, Bombay); G. S. Gaitonde.
Solicitor, B. T. Merchant.

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Legislative Department

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Joint Secretaries & Draftsmen, S. P. Sen-Varma; S. K. Hiranandani.

Other Officers

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Solicitor-General of India, C. K. Daphtary.
Additional Solicitor-General of India, H. N. Sanyal.
Central Government Solicitors at Calcutta, S. K. Mandal; S. N. Sen; S. D. Pyne.

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Joint Secretary, D. Basu.

HINDU RELIGIOUS ENDOWMENT COMMISSION

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Election Commission (India), 1, Aurangzeb Road, New Delhi 11.

Chief Election Commissioner, K. V. K. Sundaram, I.C.S.
Deputy Election Commissioner, P. S. Subramanian.
Secretary, Prakash Narain.

Income-Tax Appellate Tribunal
(HEADQUARTERS, BOMBAY)
Central Govt. Offices Building, Bombay.

BOMBAY BENCHES, BOMBAY

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Judicial Member, C. S. Vidyasankaran, B.A., B.L.
Accountant Members, G. L. Pophale; Harnam Shankar.
Registrar, G. N. Jerath, B.A. (Hons.), LL.B.
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ALLAHABAD BENCH
23-A, Thornhill Road, Allahabad.

Accountant Member, K. Sadagopachari, B.A., F.C.A.
Judicial Member, Ramlall Kapur, B.A., LL.B.
Asstt. Registrar, C. K. B. Dave, M.A., LL.B.

DELHI BENCH
Rail Bhawan, Rai Sina Road, New Delhi.

Judicial Member, N. D. Karkhanis, B.A. (Hons.), B.Sc., LL.B.
Accountant Member, S. B. Roy, M.Sc.
Asstt. Registrar, N. K. Chaurasia, M.A.

MADRAS BENCH
12, College Road, Mungambakkam, Madras 6.

Accountant Member, Vacant.
Judicial Member, S. K. Aiyar, B.A., B.L.
Asstt. Registrar, R. Rajaram, M.A.

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20/1, Gurusaday Road, Calcutta 19.

Accountant Members, R. K. Das, B.Sc. (Hons.), A.S.A.A.; H. M. Jhala, B.A. (Hons.), B.Com. (Hons.), London.
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Asstt. Registrar, Sadhu Ram, B.A., LL.B.

HYDERABAD BENCH
4-1-825, Nizamshahi Road, Hyderabad Dn.

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Accountant Member, B. S. Kasbekar, B.Com., LL.B., A.C.A.
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PATNA BENCH
A-23, Patliputra Colony, Digha Ghat, Patna.

Judicial Member, P. Sriramulu, B.Sc., B.L.
Accountant Member, N. Srinivasan, M.A., B.L.
Asstt. Registrar, K. G. Mehta, B.A., LL.B.

MINISTRY OF RAILWAYS

Minister, Jagjivan Ram.
Deputy Ministers, Shah Nawaz Khan; S. V. Ramaswamy.

Railway Board
New Delhi

Chairman, Karnail Singh.
Financial Commissioner, S. Jagannathan, I.C.S.
Member (Engineering), E. W. Isaacs.
Member (Staff), D. C. Baijal.
Member (Transportation), Kripal Singh.
Addl. Member (Finance), C. T. Venugopal.
Addl. Member (Commercial), R. B. Lal.
Addl. Member (Works), R. E. De Sa.
Addl. Member (Mechanical), K. C. Lal.
Addl. Member (Staff), B. Mazumdar.
Secretary, D. V. Reddy.
Director, Civil Engineering, V. Venkataramayya.
Director, Establishment, M. A. Qadeer.
Director, Electrical Engineering, L. N. Mathur.
Director, Finance, D. P. Mathur.
Director, Mechanical Engineering, R. Krishnaswamy.
Director, Medical and Health, F. B. Khambatta.
Director, Mechanical Engg. (Prod.), S. Chakravarti.
Director, Railway Planning, O. S. Murthy.
Director, Railway Stores, G. P. Bhalla.
Director, Sig. & Telecommunication, L. C. Mohindra.
Director, Stat. & E.A., S. K. Guha.
I.G., R.P.F., M. M. Chudasama.
Director, Traffic (Trans.), Jagjit Singh.
Director, Vigilance, R. Prasad.
Telecomm. Adviser, Lochan Singh.
Timber Adviser, R. Sahai.
Director, Training, D. B. Singh.
Land Adviser, S. P. Sinha.
Adviser (Labour & Welfare), D. G. Jadhav.
Director (on Special Duty), P. Sahai.

Research, Designs & Standards Organisation, Ellerslie, Simla 2.

Director General, A. C. Mukerji.
Directors, P. N. Chopra (*Civil*), R. Rajagopalan (*Mechanical*).
Joint Directors, N. B. Shroff (*Arch.*); Laljee Singh (*S. & T.*); P. K. Mukherjee (*B. & S.*); P. N. Sud (*Track*); R. Krishnamurti (*Loco.*); M. M. Suri (*Diesel*); D. Kumar (*Carriage*); M. L. Puri (*Wagon*); D. V. K. Shastri (*Elect.*).
Secretary, Lal Das.

Baroda House Annexe, New Delhi.

Director (Bridges & Flood), V. P. Ribeirio.

Alam Bagh, Lucknow

Director, Research, K. K. Rao.
Joint Directors, T. A. Rao (*Civil*), R. L. Vohra (*Mechanical*).

Chittaranjan

Joint Director (M. & C.), K. C. Choudhuri.

Railway Rates Tribunal
'Adyar House', Madras 28.

Chairman, R. K. Chowdhry.
Members, S. R. Kalyanaraman, M. H. Gopal.
Secretary, N. Seshachalam.

Integral Coach Factory
Perambur, Madras.

Chief Administrative Officer, K. Swarup.
Dy. Financial Adviser & Chief Accounts Officer, V. R. Ganeshan.
Dy. Chief Mech. Engineer (Shell), G. G. Devaya.
Dy. Chief Mech. Engineer (Fur), K. M. Aiana.

Railway Staff College
Baroda.

Principal, Samararath Singh Surana.

MINISTRY OF REHABILITATION AND MINORITY AFFAIRS

Minister, Mehr Chand Khanna.
Deputy Minister, P. S. Naskar.
Secretary, Dharma Vira, I.C.S.
Joint Secretary and Chief Settlement Commissioner, S. W. Shiveshwarkar, I.C.S.

BRANCH SECRETARIAT, CALCUTTA.

Joint Secretary, Prem Krishen, I.C.S.
Deputy Secretaries, G. P. Bagchi, I.A.S., P. V. Gopalan, V. P. Sud.

CUSTODIAN OF EVACUEE PROPERTY.

Custodian, U.P., H. C. Asthana.

DANDAKARANYA PROJECT.

Chairman, Sukumar Sen.
Chief Administrator, L. J. Johnson, I.C.S.

CHIEF SETTLEMENT COMMISSIONER, NEW DELHI.

Chief Settlement Commissioner, S. W. Shiveshwarkar, I.C.S.
Deputy Chief Settlement Commissioners, I. N. Chib, H. R. Nair.
Regional Settlement Commissioners, P. N. Bhanot (*Delhi*); Tara Chand (*Jaipur*); H. K. Chaudhari (*Bombay*); Khushi Ram (*Jullundur*); R. S. Das (*U.P.*); R. Dayal (*Patna*).

Rehabilitation Housing Corporation Ltd.
H-94, Govind Mansions, Connaught Circus, New Delhi.

Chairman, M. G. Dewan.
Secretary, V. K. Verma.

MINISTRY OF SCIENTIFIC RESEARCH AND CULTURAL AFFAIRS

Minister, Prof. Humayun Kabir.
Deputy Minister, Dr. Mono Mohan Das.
Secretary, Prof. M. S. Thacker.
Joint Secretaries, Ajoy Kumar Ghosh, I.C.S.; M. G. Rajaram.
Jt. Educational Adviser & Ex-Officio Joint Secretary, G. K. Chandiramani (*Technical*); Dr. A. M. D. Rozario (*Culture*).

Botanical Survey of India, 14, Madan Street, Calcutta 13.

Chief Botanist, Rev. H. Santapau.
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Dy. Chief Botanist, Hqs., Dr. K. Subramanyam.
Curator, Industrial Section, Indian Museum, Calcutta, K. S. Srinivasan.
Keeper, Central National Herbarium, Calcutta, Dr. S. K. Mukherjee.

Central Board of Geophysics, 5, Middleton Street, Calcutta 16.

Chairman, K. R. Ramanathan (Director, Physical Research Laboratory, Ahmedabad 9).
Secretary, L. N. Kailasam (Chief Geophysicist, Geological Survey of India, 5, Middleton Street, Calcutta 16).
Scientific Officer, Oceanographic Research Wing, Naval Base, Cochin 4, V. S. Rama Raju.

Central Public Health Engineering Research Institute
70/1, Civil Lines, Nagpur.

Director, N. V. Modak.
Asst. Director, Prof. M. V. Bopardikar.

SCHOOL OF PLANNING AND ARCHITECTURE, INDRAPRASTHA ESTATE, NEW DELHI 1.

Director & Professor of Planning, T. J. Manickam.
Planning Department:
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Engineer-in-Charge, P. M. Kakodkar.
Senior Traffic Manager, M. A. Rao.

BEAM WIRELESS STATION, DIGHI, O.C.S., POONA-6.

Director, M. S. Gharse.
Engineers-in-Charge, C. B. Misquitta, G. A. Tellis.

BEAM WIRELESS STATION, O.C.S., DHOND.

Engineer in-Charge, C. M. Braganza.

DELHI STATION (ADMINISTRATIVE OFFICE).

N. I. C. BLDG., PARLIAMENT STREET, NEW DELHI

Director, G. D. Gokaru.
Engineer-in-Charge, B. S. Dutt.

MADRAS STATION (ADMINISTRATIVE OFFICE, 39, MUKER NALLAMUTHU STREET, MADRAS)

Engineer-in-Charge, R. Parthasarathy.

CALCUTTA STATION (ADMINISTRATIVE OFFICE), NARAYANI BLDG., 4TH FLOOR, BRABOURNE ROAD, CALCUTTA 1.

Director, J. B. F. de Sa.
Engineer-in-Charge, G. Seshadri.

Department of Transport.

Minister, Dr. P. Subbaroyan.
Minister of State, Raj Bahadur.
Secretary, Vacant.
Jt. Secretary & Director-General of Shipping, Dr. Nagendra Singh, I.C.S.
Development Adviser & Ex-Officio Joint Secretary, H. P. Matharani, I.S.E.
D.G., Tourist Department and Ex-Officio Joint Secretary, S. N. Chib.

Railway Inspectorate, Simla—3.

Chief Government Inspector of Railways, Simla, D. C. Desai.
Government Inspector of Railways, Bombay, K. C. Pathak.
Government Inspector of Railways, Calcutta, A. K. Gupta.
Government Inspector of Railways, Construction Circle, Calcutta, P. B. Albara.
Government Inspector of Railways, Lucknow (at Calcutta), A. C. Khastgir.
Government Inspector of Railways, Bangalore, H. S. Hart.

Directorate General of Shipping,
'Commerce House', Ballard Estate, Bombay.

Joint Secretary to the Govt. of India, Ministry of Transport & Communications & Director General of Shipping, Dr. Nagendra Singh, I.C.S.
Sr. Deputy Director General of Shipping, S. K. Venkatachalam.

* Appointed General Manager, Bombay Telephone District.

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Officer on Special Duty, D. P. Thakur.
Deputy Directors General of Shipping, T. K. Sarangan, N. K. Gopalan Nair, D. N. Phull, K. S. V. Chari.

TECHNICAL OFFICERS.

Nautical Adviser to the Government of India, Capt. G. S. Singh.
Chief Surveyor with the Government of India, Rear Admiral T. B. Bose, I.N.
Dy. Nautical Adviser to the Government of India, Capt. M. S. Patel.
Dy. Chief Surveyor with the Government of India, K. Parthasarathy.
Engineer and Ship Surveyor, E. J. D'Sa.

OFFICE OF THE FREIGHT INVESTIGATION BUREAU, COMMERCE HOUSE, BALLARD ESTATE, BOMBAY.

Director, Govind H. Sheth.
Freight Investigation Officer, S. M. Ochaney.

OFFICE OF THE GOVERNMENT DIRECTOR ON THE BOARD OF DIRECTORS OF INDIAN SHIPPING COMPANIES

C. G. Building, Queen's Road, Bombay-1.

Government Director, R. G. Abbhi, I.A.S.

NAUTICAL & ENGINEERING COLLEGE

Azad Maidan, Fort, Bombay 1.

Principal, Capt. P. Alexander.
Vice-Principal, Capt. M. G. Datar.

TRAINING SHIP "DUFFERIN", OFF MAZGAON PIER, BOMBAY 10.

Captain Superintendent, Captain M. F. S. C. Harvey, R.D., F.R.G.S., M.I.N., A.R.I.N.A., J.P.
Chief Officer, Indrajit Singh, M.I. Mar. Tech.

DIRECTORATE OF MARINE ENGINEERING TRAINING

P. 19, Taratolla Road, Calcutta, 27.

Director, T. K. T. Srisailam.
Dy. Director, P. D'Abreo.

Azad Maidan, Waudby Road, Bombay, 1.

Dy. Director, K. S. Subramaniam.
Lecturers, P. P. Vaidya, V. G. Damle.

MERCANTILE MARINE DEPARTMENT

Bombay—Commerce House, Ballard Estate, Bombay.
Principal Officer & Registrar of Shipping, T. Berry.
Calcutta—Marine House, Hastings, Calcutta.
Principal Officer, B. K. Gupta.
Madras—Old High Court Bldgs., Madras.
Principal Officer, S. K. Kumarhia.
Visakhapatnam—Engineer & Ship Surveyor, B. S. Makhija.
Cochin—Engineer & Ship Surveyor, T. S. Rajan.

DECK PASSENGER WELFARE OFFICE

Welfare Officer, N. C. Trivedi.

TRAINING SHIP "BHADRA"

H-Berth, King George's Dock, Calcutta 43.

Captain Superintendent, Captain D. G. Hazari, M.I. Mar. Tech.
Executive Officer, J. Rai.
Engineer Officer, J. Pestonjee.

TRAINING SHIP 'NAU LAKSHI', NAVLAKHI (GUJARAT STATE)

Captain Superintendent, Captain N. K. Kershaw.
Executive Officer, F. L. Kazi.
Engineer Officer, Om Prakash.

TRAINING SHIP "MEKHALA", VIZAGAPATAM PORT

Captain Superintendent, Captain R. J. Sampson.
Executive Officer, D. P. Srivastava.
Engineer Officer, R. S. Grewal.

MAJOR PORT AUTHORITIES

Chairman, Commissioners, Calcutta, K. Mitter, I.C.S.
Chairman, Madras Port Trust, N. Subrahmanyam, I.C.S.
Chairman, Bombay Port Trust, A. L. Dias, I.C.S.
Adm. Officer, Cochin, P. R. Subramaniam.
Dev. Commissioner, Kandla, K. N. Bhargava.
Administrative Officer, Vishakapatnam, C. R. Reddy.

SEAMEN'S EMPLOYMENT OFFICE, BOMBAY

Director, T. V. Rajagopalan.

SEAMEN'S EMPLOYMENT OFFICE, CALCUTTA

Director, K. C. Ray.

SEAMEN'S WELFARE OFFICE

Bombay—Gulam Mohammed Bldg., Ballard Estate, Bombay.
Principal Seamen's Welfare Officer, S. Bannerjee.
Calcutta—Marine House, Hastings, Calcutta.
Principal Seamen's Welfare Officer, Trilok Singh.
Madras—Old High Court Bldg., Madras 1.
Seamen's Welfare Officer (Sydney-Australia), B. K. Shroff.

OTHER PROJECTS.

Resident Engineer, Pondicherry Port Project, G. S. Ramanathan.
Managing Director, Hindustan Shipyard Ltd., Commodore B. N. Lele.
Chairman & Managing Director, Eastern Shipping Corporation Ltd., C. P. Srivastava, I.A.S.
Managing Director, Western Shipping Corporation Limited, C. P. Srivastava, I.A.S.
Chairman, Ganga Brahmaputra Water Transport Board, G. V. Ayyar, I.C.S.

Lighthouse and Lightships Department

Director-General of Lighthouses and Lightships and Chief Inspector of Lighthouses in India, New Delhi, S. K. Lahiri.
Engineer, Department of Lighthouses & Lightships, Calcutta, Capt. B. Y. Wad, I.N.
Engineer, Department of Lighthouses & Lightships, Madras, M. D. Narasimhachari.
Executive Engineer & P.A. to the Director-General, S. L. Kapoor.
Executive Engineers, B. S. Srivathsan (*Electrical*); B. R. Karnik (*Designs*).
Marine Officer, M. M. Kaul.
Resident Engineer, Department of Lighthouses & Lightships, Jamnagar, M. D. Basu.
Engineer and Director of Lighthouses & Lightships, Calcutta, K. R. Bose.
Director of Lighthouses & Lightships, Bombay, Capt. S. J. Israel.
Resident Engineer, Madras, R. Swaminathan.
Resident Engineer, Calcutta, C. V. Chaubal.
Resident Engineer, Bombay, N. R. Gopalaswami.
Resident Engineer, Andaman & Nicobar Islands, Calcutta, J. N. Mankad.
Chief Engineer, 'M. S. Pradeep', J. D. Merchant.
Chief Officer, 'M. S. Pradeep', P. Achuthan.
Installation Engineer (under U.T.A. Programme), M. Dyminski.
Executive Officer (Admn.), Mohinder Singh.

MINISTRY OF WORKS, HOUSING AND SUPPLY

Minister, B. Gopala Reddi.
Secretary, T. Sivasankar.
Joint Secretaries, V. K. Rao and A. S. Naik, I.C.S.
Housing Commissioner, N. P. Dube.
Housing Adviser, H. D. Nargolwala.
Chief Technical Examiner, L. G. Selvam.
Superintending Engineer (Arbitration), O. P. Mittal.

Central Public Works Department

(Central Office, New Delhi).

Chief Engineer, N. G. Dewan, I.S.E.
Director of Administration, V. Balasubrahmanyam, I.A.S.
Deputy Directors of Administration, O. P. Talwar; M. S. Bawa; N. R. Verma.
Standing Counsel, G. T. Gajaria.
Additional Chief Engineers, B. K. Guha, M. L. Nanda, K. M. Bhatia, O. Muthachen, M. S. Bhatia.
Superintending Engineer (V), R. Manekshaw.
Additional Chief Engineer, Union Territories, D. N. Endlaw.

ARCHITECT BRANCH, CENTRAL PUBLIC WORKS DEPARTMENT

Director, B. Mathur.
Chief Architect and Town Planner, S. K. Joglekar.

DIRECTORATE OF HORTICULTURE

Central P.W.D., New Delhi.

Dy. Directors of Horticulture, Ilam Chand, Kuldip Saddy.

Department of Explosives, Old High Court Buildings, Nagpur.

Chief Inspector of Explosives, Nagpur, T. K. Lahiri.
Deputy Chief Inspector of Explosives, Nagpur, S. N. Lahiri.
Inspector of Explosives, West Circle, Bombay, K. Sankaran.
Inspector of Explosives, East Circle, Calcutta, S. C. Roy.
Inspector of Explosives, North Circle, Agra, B. N. De.
Inspector of Explosives, South Circle, Madras, M. P. Mukerji.
Inspector of Explosives, Sivakasi, I. N. Murthy.
Inspector of Explosives, Central Circle, Gwalior, J. K. John.
Inspector of Explosives (Bombs), East Circle, Calcutta, S. N. Gupta.
Inspector of Explosives, Chemical Laboratory, Calcutta, C. Ramaswamy.
Inspector of Explosives, Nagpur, V. A. Chandrasekharan.
Inspector of Explosives, Nagpur, K. S. Subramaniam.
Inspector of Explosives, Gomia, P. K. Sen Gupta.
Inspector of Explosives, Asansol, J. S. Phadnis.

HINDUSTAN HOUSING FACTORY LTD.

P.O. Jangpura, New Delhi.

Chairman, A. S. Naik.
Directors, A. P. V. Krishnan, M. R. Reddy, S. P. Verma, N. G. Dewan, I.S.E., P. C. Bhattacharya, M. G. Kaul, I.C.S., Jaspat Rai Kapur, M.P. (Rajya Sabha), N. P. Dube.
General Manager, S. D. Pathak.

Directorate General of Supplies and Disposals

(Headquarters Office)

L.I.C. Bldg., Parliament Street, New Delhi.

Director-General of Supplies & Disposals, N. E. S. Raghavachari, I.C.S.

ADMINISTRATION BRANCH

Director (Administration), T. Gonsalves.

CO-ORDINATION & STATISTICS DIRECTORATE

Director, Co-ordination & Statistics, Manmohan Singh.
Dy. Director (Import & Shipping), P. C. Mathur.
Dy. Directors (C.D.), P. T. Lalwani; A. R. Iyer.
Dy. Director (Registration), Bhim Sen.
Dy. Director (Statistics), P. B. Brahma.

SUPPLIES WING

Addl. Director-General (Supplies & Disposals), S. T. Thadani.
Dy. Director-General (Supplies), J. S. Mathur.
Dy. Director-General (Progress), S. K. Mitra.

MISCELLANEOUS & CHEMICAL STORES DIRECTORATE

Director of Supplies, A. D. Rao.

TEXTILE, LEATHER AND VEHICLES STORES DIRECTORATE

Director of Supplies, V. Subramanian.

WORKS PROGRAMME DIRECTORATE

Director of Supplies, K. N. Rao.

PLANNING WING

Director (Planning), S. C. Agarwal.

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PROGRESS WING

Director (Progress), G. P. Kapur.

FINALIZATION WING

Control Officer, S. C. Murgai.
Deputy Director of Supply, S. Jayaraman.

DISPOSALS WING

Director of Disposals, A. R. R. Deshpande.

American Surplus Stores

Director, A. R. Khosla, *Litigation.*

DIRECTORATE OF SUPPLIES AND DISPOSALS

6, Esplanade East, Calcutta.

Director of Supplies and Disposals, H. V. Karve.

DIRECTORATE OF SUPPLIES AND DISPOSALS

Sapt Building, Graham Road, Ballard Estate, Bombay.

Director of Supplies & Disposals, S. S. Venkatakrishnan.

DIRECTORATE OF SUPPLIES (TEXTILES), FORT HOUSE, 221, DADABHOY NAOROJI ROAD, BOMBAY

Director of Supplies (Textiles), J. Maneksha.

DIRECTORATE OF SUPPLIES AND DISPOSALS, INDIAN MUTUAL BLDGS., 10, MOUNT ROAD, MADRAS.

Director of Suplies and Disposals, V. V. Chandrasekharan.

GOVERNMENT TEST HOUSE, 11/1, JUDGES' COURT ROAD, ALIPORE, CALCUTTA

Director, S. N. Mukerji.

INSPECTION WING

(HEADQUARTERS OFFICE)

L.I.C. Bldg., Parliament Street, New Delhi.

Dy. Director-General (Inspection), R. N. Sarma.

NORTH WEST INDIA INSPECTION CIRCLE

Shahjahan Road, New Delhi.

Deputy Director (Inspection), H. C. Ghulati.

CALCUTTA INSPECTION CIRCLE

1, Ganesh Chandra Avenue, Calcutta 13.

Director of Inspection, S. N. De.

Special Director (Rolling Stock), B. N. Majumdar (*Offg.*).

BOMBAY INSPECTION CIRCLE

New Marine Lines, Bombay.

Director of Inspection, I. L. Patel.

MADRAS INSPECTION CIRCLE

Indian Mutual Bldgs., 10, Mount Road, Madras.

Director of Inspection, H. S. Grewal.

METALLURGICAL INSPECTORATE TATANAGAR

Director of Inspection, S. C. Lahiry.

BURNPUR METALLURGICAL INSPECTORATE

Deputy Director of Inspection, E. K. N. Nambiar.

KANPUR INSPECTION CIRCLE

4/286, Nawabganj, Kanpur.

Deputy Director of Inspection, G. Kuppuswamy.

Indian Inspectorate, Japan.

23, Kasumi Cho, Azabu, Minato-ku, Tokyo.

Director of Inspection, G. K. Ahuja.

Printing and Stationery Department, Curzon Road, 'B' Barracks, New Delhi.

Chief Controller of Printing and Stationery, C. A. Subrahmanyam.
Controller of Administration, S. R. Mehta, I.R.S.
Controller of Printing, B. C. Sen Gupta.

Government of India Forms Press, Civil Lines, Aligarh.

Manager, S. Sarthy.

Government of India Photo Litho Press, Minto Road, New Delhi.

Manager, C. Biswas.
Works Manager (Photo), A. K. Gavaskar.
Works Manager (Production), N. C. Sen.

Government of India Press, Rashtrapati Bhavan, New Delhi.

Superintendent, S. S. Malhotra.

Government of India Forms Store, 166, Dharamtala Street, Calcutta.

Manager of the Forms Press and Forms Store, T. N. Ninan.

Government of India Forms Press, 1, Temple Street, Calcutta.

Asstt. Managers, P. N. Roy; N. Das Gupta.

Government of India Press, 8, Hastings Street, Calcutta 1.

Manager, B. K. Roy.

Government of India Press, New Delhi.

General Manager, R. Ramaswamy.

Government of India Press, Simla.

Manager, V. O. Omman.

Government of India Press

Nilokheri.

Asstt. Manager (Technical), P. S. Ramachandran.

Government of India Press

Faridabad.

Manager, A. S. Krishnamurthi.

Government of India Press, Nasik.

Manager, A. C. Das Gupta.
Works Manager, S. R. Sethi.
Labour Officer, H. N. Pande.

Government of India

Stationery Office, 3, Church Lane, Calcutta.

Controller of Stationery, P. Banerjea.
Dy. Controllers of Stationery, Major J. K. Lahiri; M. N. Roy (*Adm. & O. & M.*).
Dy. Controller, Inspection, M. A. Jhangiani.

SUPREME COURT OF INDIA, HARDINGE AVENUE, NEW DELHI

Chief Justice of India, The Hon'ble Mr. Bhuvaneshwar Prasad Sinha.

Judges, The Hon'ble Mr. Justice Syed Jafer Imam; The Hon'ble Mr. Justice S. K. Das; The Hon'ble Mr. Justice J. L. Kapur; The Hon'ble Mr. Justice P. B. Gajendragadkar; The Hon'ble Mr. Justice Amal Kumar Sarkar; The Hon'ble Mr. Justice K. Subba Rao; The Hon'ble Mr. Justice K. N. Wanchoo; The Hon'ble Mr. Justice M. Hidayatulla; The Hon'ble Mr. Justice K. C. Das Gupta; The Hon'ble Mr. Justice J. C. Shah; The Hon'ble Mr. Justice R. Dayal; The Hon'ble Mr. Justice N. Rajagopala Ayyangar; The Hon'ble Mr. Justice J. R. Mudholkar; The Hon'ble Mr. Justice T. L. Venkatrama Ayyar (*ad hoc Judge*).

Registrar, Arindam Dutt.

Dy. Registrars, S. N. Sharma; Guru Datta.

Asstt. Registrars, Kedar Nath Gupta; C. M. Rao; M. P. Saxena; V. Krishnan; S. K. Gupta.

Principal Private Secretary to the Chief Justice of India, G. V. Raghavachari.

Editor, Supreme Court Reports, K. B. Bagchi.

UNION PUBLIC SERVICE COMMISSION

Dholpur House, P. Box 186, Shahjahan Road, New Delhi 4.

Chairman, V. S. Hejmadi, I.C.S.

Members, J. Sivashanmugam Pillai; Dr. G. S. Mahajani; P. L. Varma; S. H. Zaheer, I.C.S.; Dr. A. T. Sen; Misrilal Chaturvedi; M. A. Venkataramana Naidu.

Secretary, H. K. Tandon, I.A.S.

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INDIAN POLITICAL REPRESENTATIVES ABROAD

Country or Town	Name	Designation	Address	Station
		EMBASSIES		
AFGHANISTAN ..	J. N. Dhamija	Ambassador	Embassy of India, Shahr-e-Arad, Kabul.	Kabul.
ARGENTINA ..	Maj. Gen. Tara Singh Bal ..	Ambassador (Also Ambassador to Paraguay and Minister to Uruguay).	Embassy of India, Lavalle 42 (5th floor), Buenos Aires.	Buenos Aires.
AUSTRIA	Arthur S. Lall	Ambassador	Embassy of India, Vienna 1.	Vienna.
BELGIUM	M. A. Rauf	Ambassador (Concurrently Minister to Luxembourg).	Embassy of India, 585, Avenue Louise, Square de Bois, Brussels.	Brussels.
BOLIVIA	Maharao Madan Sinhji of Kutch	Ambassador (Concurrently Ambassador in Chile. Resident in Chile).	Embassy of India	Santiago de Chile.
BRAZIL	M. K. Kirpalani	Ambassador (Also Minister to Venezuela).	Embassy of India, Rua Barao de Flamengo 22, Aptos 801–802, Rio de Janeiro.	Rio de Janeiro.
BULGARIA ..	Dr. J. N. Khosla	Ambassador (Also Ambassador to Yugoslavia and Greece. Resident in Belgrade).	——	
BURMA	R. S. Mani	Ambassador	Embassy of India, Oriental Assurance Bldgs., 545–47, Merchant Street, Rangoon.	Rangoon.
CAMBODIA ..	R. R. Sinha	Ambassador	Embassy of India.	Pnom Penh.
CHILE	Maharao Madan Sinhji of Kutch	Ambassador (Concurrently Ambassador to Bolivia).	Embassy of India.	Santiago de Chile.
CHINA	Vacant	Ambassador (Concurrently accredited to Mongolia).	Embassy of India, 32, Tung Chiao Min Hsiang, Peking.	Peking.
CONGO	M. A. Rahman	Counsellor	Embassy of India, Stanley Hotel, Leopoldville.	Leopoldville.
CUBA	B. K. Nehru	Ambassador (Concurrently accredited to U.S.A.).	Embassy of India, Havana.	Washington.
CZECHOSLOVAKIA	B. K. Acharya	Ambassador (Also Ambassador to Rumania).	Embassy of India, Valdstejnsha, Prague 1.	Prague.
DENMARK	Kewal Singh	Ambassador (Also Ambassador to Sweden and Finland. Resident in Stockholm).	——	Stockholm.
ETHIOPIA	R. G. Rajwade	Ambassador	P.O. 528, Addis Ababa.	Addis Ababa.
FINLAND	Kewal Singh	Ambassador (Also Ambassador to Denmark & Sweden).	Embassy of India.	Stockholm.
FRANCE	Nawab Ali Yavar Jung Bahadur	Ambassador	Embassy of India, 15, Rues Alfred Dehodeneq, Paris.	Paris.
GERMANY .. .. (Federal Republic).	P. A. Menon	Ambassador	Embassy of India, 262, Koblenzorstrasse, Bonn.	Bonn.
GREECE	Dr. J. N. Khosla	Ambassador (Also Ambassador to Bulgaria and Yugoslavia).	Indian Embassy.	Belgrade.
GUINEA	Khub Chand	Ambassador (Also High Commissioner to Ghana and Sierra Leone).	——	Accra.
HUNGARY	S. Dutt	Ambassador (Concurrently accredited to U.S.S.R.).	Embassy of India, Budapest.	Moscow.
INDONESIA ..	Vacant	Ambassador	Embassy of India, P. Box No. 118, 44 Kebon Serih, Djakarta.	Djakarta.
IRAN	M. R. A. Baig	Ambassador	Embassy of India, Avenue Shah Raza, Tehran.	Tehran.
IRAQ	I. S. Chopra	Ambassador (Concurrently accredited to Jordan).	Al Tabari Street, Waziriah, Baghdad.	Baghdad.
IRELAND	Vacant	Ambassador (Also High Commissioner in U.K. Ambassador to Spain. Resident in London).	60, Fitz William Square, Dublin.	London.
ITALY	S. N. Haksar	Ambassador (Also Minister to Albania).	Embassy of India, *via* Francesco Dense, 36, Rome.	Rome.
JAPAN	Lalji Mehrotra	Ambassador	Embassy of India (Naigai Building), 5th Floor, No. 18-2, Chome Marunouchi, Chiyodaku, Tokyo.	Tokyo.
JORDAN	I. S. Chopra	Ambassador (Also Ambassador to Iraq).	Resident in Baghdad.	Baghdad.
LAOS	P. Ratnam	Ambassador	Indian Embassy.	Vientiane.
LIBERIA	Khub Chand	Ambassador (Also High Commissioner to Ghana and Sierra Leone and Ambassador to Guinea).	Resident in Accra.	Accra.
LIBYA	M. A. Husain	Ambassador (Concurrently accredited to U.A.R. and Minister in Lebanon).	——	Cairo.
MALAGASAY ..	J. A. Shah*	Ambassador	P.O. Box 1108, Tananarive.	Tananarive.
MEXICO	B. K. Nehru	Ambassador (Also Ambassador in U.S.A. and Cuba. Resident at Washington. First Secretary acts as C.D.A. during absence of Ambassador from Mexico).	Embassy of India, Avenue Jaurez No. 97 (7th Floor), Mexico City.	Washington.

* It is reported that Mr. G. Ramachandran has been appointed Ambassador (Sept. 15, 1961).

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Country or Town	Name	Designation	Address	Station
MONGOLIA ..	Vacant	Ambassador (Also Ambassador to Peoples' Republic of China).	Indian Embassy.	Peking.
MOROCCO	R. Goburdhan	Ambassador (Also Ambassador to Tunisia).	10, Place Mohammed, Rabat.	Rabat.
NEPAL	Harishwar Dayal	Ambassador	Embassy of India, Kathmandu.	Kathmandu.
NETHERLANDS ..	R. K. Tandon	Ambassador	Embassy of India, Buitenrustwag 2, The Hague.	The Hague.
NORWAY	V. M. M. Nair	Ambassador	Embassy of India.	Oslo.
PARAGUAY ..	Maj. Gen. Tara Singh Bal ..	Ambassador (Also Ambassador to Argentina and Minister to Uruguay).	Resident in Buenos Aires.	
PHILIPPINES ..	S. N. Maitra	Ambassador	Embassy of India, 1856, Nebraska, Malate, Manila.	Manila.
POLAND	L. R. S. Singh	Ambassador	Embassy of India.	Warsaw.
RUMANIA	B. K. Acharya	Ambassador (Also to Czechoslovakia).	Aleea Alexandru, 41 Bucharest 3.	Prague.
SAUDI ARABIA ..	M. N. Masud	Ambassador	Embassy of India.	Jedda.
SENEGAL	N. V. Rajkumar	Ambassador	Embassy of India, P. Box 398, Dakar.	Dakar.
SPAIN	Vacant	Ambassador (Concurrently accredited to U.K. as High Commissioner and Ambassador to Ireland).	Alfonso XII, 46 (First Floor), Madrid.	London.
SUDAN	S. S. Ansari	Ambassador	Ismail Pasha Avenue, P. Box No. 707, Khartoum.	Khartoum.
SWEDEN	Kewal Singh	Ambassador (Concurrently Ambassador to Denmark and Finland).	Embassy of India, V. Tradgardsgatan 15, 47 IV, Stockholm.	Stockholm.
SWITZERLAND ..	M. K. Vellodi	Ambassador (Concurrently accredited as Minister to the Vatican).	Embassy of India, 20, Kalcheggereg, Berne.	Berne.
THAILAND ..	N. S. Gill	Ambassador	Embassy of India, 139, Pau Road, Bangkok.	Bangkok.
TUNISIA	R. Goburdhan	Ambassador (Resident in Rabat, Morocco).	——	Rabat.
TURKEY	Jai Kumar Atal..	Ambassador	Embassy of India, No. 50, Kizilirmak Sokak, Kocetepe, Ankara.	Ankara.
UNITED ARAB REPUBLIC.	M. A. Husain	Ambassador (Concurrently Ambassador to Libya and as Minister to Lebanon).	Embassy of India, 5, Sharia Mahad, El Swissri, Zamalak, P.O. Box 718, Cairo.	Cairo.
UNITED STATES OF AMERICA.	B. K. Nehru	Ambassador (Concurrently accredited to Mexico and also to Cuba).	Embassy of India, 2107 Massachusetts Avenue, N.W. Washington 8, D.C.	Washington.
U.S.S.R.	S. Dutt	Ambassador (Concurrently accredited to Hungary).	Embassy of India, Nos. 6 and 8, Ulitsa Obukha, Moscow.	Moscow.
YUGOSLAVIA ..	Dr. J. N. Khosla	Ambassador (Concurrently accredited as Ambassador to Greece and Bulgaria).	Embassy of India, Proleter Skeh Brigade 9, Belgrade.	Belgrade.
		HIGH COMMISSIONS		
AUSTRALIA ..	S. Sen	High Commissioner (Concurrently accredited to New Zealand).	Civic Centre, Canberra.	Canberra.
CANADA	B. N. Chakravarty	High Commissioner	200, McLaren Street, Ottawa, Ontario.	Ottawa.
CEYLON	B. K. Kapur	High Commissioner	Naderaja Bldg., Kollupitiya Station Road, Colombo-3.	Colombo.
GHANA	Khub Chand	High Commissioner (Also Ambassador to Liberia and Guinea and High Commissioner to Sierra Leone).	P. Box 3040, Accra.	Accra.
MALAYA	Yogendra Krishna Puri ..	High Commissioner also Commissioner for the Govt. of India in Singapore with extension of jurisdiction to Sarawak, British N. Borneo & Brunei.	P. Box No. 59, 4, Gir Lek Road, Kuala Lumpur.	Kuala Lumpur.
NEW ZEALAND ..	S. Sen	High Commissioner (Also High Commissioner in Australia. Resident in Canberra).	49, Willis Street, Wellington.	Canberra.
NIGERIA	P. N. Haksar	High Commissioner	Private Mail Bag 2322, Lagos, Nigeria.	Lagos.
PAKISTAN	Rajeshwar Dayal	High Commissioner	India House, 3 Bonus Road, Karachi.	Karachi.
	A. N. Mehta	Dy. High Commissioner. ..		
DACCA	S. K. Chowdhry	Dy. High Commissioner. ..	6/3, Topkhana Road, Segun Begicha, Dacca.	Dacca.
RAJSHAHI.. .. (E. Bengal).	A. C. Raychaudhuri	Assistant High Commissioner	——	Rajshahi.
SIERRA LEONE ..	Khub Chand	High Commissioner (Also High Commissioner to Ghana and Ambassador to Guinea).	——	Accra.
UNITED KINGDOM.	Vacant	High Commissioner (Concurrently Ambassador to Ireland and Spain).	India House, Aldwych, London, W.C. 2.	London.
	T. N. Kaul	Deputy High Commissioner.		

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Country or Town	Name	Designation	Address	Station
		LEGATIONS		
ALBANIA	S. N. Haksar	Minister (Also Ambassador to Italy).	Indian Embassy.	Rome.
LEBANON	M. A. Husain	Minister (Also Ambassador to U.A.R. & Libya).	Sahmarani Building, Rue Kantari, Beirut.	Beirut.
LUXEMBOURG ..	M. A. Rauf	Minister (Also Ambassador to Belgium. Resident in Brussels).	——	Brussels.
URUGUAY ..	Maj. Gen. Tara Singh Bal ..	Minister (Also Ambassador to Argentina and Paraguay).	Resident in Buenos Aires.	Buenos Aires.
VATICAN	M. K. Vellodi	Minister (Concurrently accredited Ambassador in Switzerland. Resident in Berne).	——	Berne.
VENEZUELA ..	M. K. Kirpalani..	Minister (Concurrently accredited as Ambassador to Brazil).	——	Rio de Janeiro.
		SPECIAL MISSIONS		
BHUTAN	Apa B. Pant	Political Officer (Also Political Officer in Sikkim. Resident in Sikkim).	*Via* Siliguri (W. Bengal).	Gangtok.
SIKKIM	Apa B. Pant	Political Officer in Sikkim (Also Political Officer in Bhutan).	Gangtok *via* Siliguri (West Bengal).	Gangtok.
UNITED NATIONS.	C. S. Jha..	Permanent Representative of Government of India at the United Nations Headquarters (with rank of Ambassador).	Permanent Mission of India to the United Nations, New India House, 3-East 64th Street, New York.	New York.
		COMMISSIONS		
ADEN	Jagat Singh	Commissioner for the Government of India.	Office of the Commissioner for the Government of India, Aden.	Aden.
BRITISH EAST AFRICA.	K. R. F. Khilnani	Commissioner with the rank of Minister for the Government of India (Accredited to the Central African Federation as Commissioner and Ruanda Urundi as Consul-General).	India House, Duke Street, P.B. No. 30074, Nairobi (Kenya).	Nairobi.
THE WEST INDIES (Including British Guiana).	K. C. Nair	Commissioner for the Government of India (Also accredited to Surinam (Dutch Guiana) as Consul-General).	78, Marine Square, Port of Spain, Trinidad, B.W.I.	Port of Spain.
CENTRAL AFRICAN FEDERATION (Federation of Northern and Southern Rhodesia and Nyasaland).	K. R. F. Khilnani	Commissioner (Also Commissioner in British East Africa and Consul-General in Ruanda Urundi. Resident in Nairobi).	India House, 90-A, Victoria Street, Salisbury.	Nairobi.
FIJI	J. K. Ganju	Commissioner for the Government of India.	G. P. O. Box 405, Nina Street, Suva.	Suva.
HONG KONG ..	F. M. D'Mello-Kamath.. ..	Commissioner for the Government of India.	Tower Court, 11th Floor (Near Sunring House), Hysan Avenue, Hong Kong.	Hong Kong.
MAURITIUS ..	M. K. Kidwai	Commissioner for the Government of India.	Fere Felix de Valois Street, Port Louis, Mauritius.	Port Louis.
SINGAPORE ..	Yogendra Krishna Puri ..	Commissioner (Also High Commissioner to Malaya. Resident in Kuala Lumpur).	India House, 31, Grange Road, P. Box No. 836, Singapore.	Kuala Lumpur.
UGANDA	H. K. Singh	Asstt. Commissioner ..	P. O. Box 3265, Kampala.	Kampala.
		CONSULATES-GENERAL & CONSULATES		
ATHENS	L. E. Vafiadis	Consul	Consulate of India.	Athens.
BASRA	Dr. Puran Singh	Consul (Hony.)	——	Basra.
COPENHAGEN ..	Victor B. Strand	Honorary Consul-General for India.	Consulate-General of India, c/o Embassy of India, Strandvagen 47 IV, Stockholm.	Stockholm.
GENEVA	A. S. Mehta	Consul-General	Consulate-General of India, Place Edesaux-Vines, Geneva.	Geneva.
HAMBURG.. ..	R. D. Sathe	Consul-General	14 Burchardstrasse, Hamburg.	Hamburg.
HELSINKI	Juho Savio	Consul-General (Hony.) ..	V. Tradgardsgatan 15, IV, Stockholm.	Stockholm.
KOBE	P. H. Bhalla	Consul..	Consulate of India, 1/2, Yamanotodori, 9-Chome, Ikuta-Ku.	Kobe.

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Country or Town	Name	Designation	Address	Station
KHORRAMSHAHR	D. Sareen	Consul..	Consulate of India, Khorramshahr.	Khorramshahr.
LHASA (Tibet) ..	P. N. Kaul	Consul-General for India ..	Consulate-General of India, Lhasa, P.O. Gyantse, Tibet.	Lhasa.
MUNICH	Herr P. H. V. Mitter-Wallner ..	Consul	Consulate of India, 27 Residenzstrasse.	Munich.
NEW YORK ..	S. K. Roy	Consul-General for India (with personal rank of Minister).	Consulate-General of India, 3-East, 64th Street, New York.	New York.
RUANDA URUNDI.	K. R. F. Khilnani	Consul-General (Also Commissioner in British East Africa and Central African Federation. Resident in Nairobi).	——	Nairobi.
SAIGON	M. S. Sait	Consul-General	Consulate-General of India, 213 Rue Catinat, Saigon.	Saigon.
SAN FRANCISCO..	Vacant	Consul-General for India ..	Consulate-General of India, 417 Montgomery Street, San Francisco.	San Francisco.
SHANGHAI ..	S. Krishnaswamy	Consul-General for India ..	Consulate-General of India, 219/12 The Bund, Shanghai (China), *via* Hongkong.	Shanghai.
SOURABAYA ..	Sampuran Singh	Consul	Djalan Rajr Gubong 32, Sourabaya.	Sourabaya.
SPAIN	Mohamed Yunus	Consul-General for India ..	——	Madrid.
STUTTGART ..	Dr. R. Kissel	Consul	Consulate of India, 17, Charlottenplatz.	Stuttgart.
SURINAM	K. C. Nair	Consul-General (Also Commissioner for Br. West Indies).	——	Port of Spain.
VIET NAM (Democratic Republic of).	S. Krishnamoorthy	Consul-General	58, Tran Hung Dao, Hanoi.	Hanoi.
VIET NAM (South).	M. S. Sait	Consul-General	Consulate-General of India, 213, Rue Catinat, Saigon.	Saigon.
MUSCAT	Vacant	Consul	——	Muscat.
MEDAN	S. Kaul Kilam	Consul	Consulate of India, D. J. Tyokroa Minoto, 19, Medan (Indonesia).	Medan.
	VICE-CONSULATES			
ANTWERP	H. S. Gopal Rao	Vice-Consul	43 Rue Des Tannerus.	Antwerp.
JALALABAD (Afghanistan).	H. L. Kashap	Vice-Consul for India ..	Vice-Consulate of India, Jalalabad.	Jalalabad.
KANDAHAR (Afghanistan). ..	S. K. Pratap	Vice-Consul for India ..	Vice-Consulate of India, Kandahr.	Kandahar.
MANDALAY ..	S. Banerjee	Vice-Consul	Vice-Consulate of India.	Mandalay.
ZAHIDAN	V. P. Singh	Vice-Consul for India ..	Vice-Consulate of India, Zahidan (East Iran), *via* Tehran.	Zahidan.
	AGENCIES			
GARTOK	A. K. Bakshi	Indian Trade Agent and Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Gartok (West Tibet). (This is a touring office and as such communications intended for this office should be forwarded to the address :—c/o The P.O. in Sikkim, Gangtok (Sikkim)).	Gartok.
GYANTSE	K. L. S. Pandit	Indian Trade Agent	Indian Trade Agency, Gyantse (Tibet), *via* Siliguri (West Bengal).	Gyantse.
YATUNG	L. S. Jangapani..	Indian Trade Agent and Assistant to the Political Officer in Sikkim.	Indian Trade Agency, Yatung (Tibet).	Yatung.

INDIAN GOVERNMENT TRADE REPRESENTATIVES ABROAD

Designation and address.	Tel. Address.	Sphere of activities.
Europe.		
V. SIDDHARTHA CHARRY, I.F.S.—Counsellor (Commercial) High Commission of India in U.K., 'India House', Aldwych, London.	HICOMIND London.	The United Kingdom and Eire.
N. KASARAN.—First Secretary (Commercial) to the Embassy of India, 15, Rue Alfred Dehodenes, Paris.	INDTRACOM Paris.	France.
S. K. GUHA, I.A.S.—First Secretary (Commercial) to the Embassy of India, *via* Francesco Denze, 36, Rome.	INDEMBASSY Rome.	Italy.
A. B. GOKHALE, I.F.S., First Secretary (Commercial) to the Embassy of India in Germany, 262, Koblenzor-Strasse, Bonn.	INEMBASSY Bonn.	West Germany.

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Designation and address.	Tel. Address.	Sphere of activities.
R. D. SETHE, I.F.S.—Consul-General of India, 608/5, Sprinkenhof, Hamburg.	INDIA Hamburg.	State of Hamburg, Bremen and Scheles-wing Holstein.
M. R. BAVEJA.—Second Secretary (Commercial) to the Embassy of India in Belgium, 585, Avenue Louise, Square de Bois, Brussels.	INDEMBASSY Brussels.	Belgium.
H. S. GOPALA RAO.—Vice-Consulate, 43, Hidevetter Street, Antwerp.	CONSINDIA Antwerp.	
MADANJIT SINGH.—Second Secretary (Commercial) to the Embassy of India, V. Tradgardsgatan 15, 47, IV, Stockholm.	INDEMBASSY Stockholm.	Sweden, Finland and Denmark.
ISHWAR SAHAY.—Second Secretary (Commercial) to the Embassy of India, Valdstejnsha, Prague 1.	INDEMBASSY Prague.	Czechoslovakia and Rumania.
P. VAIDYANATHAN.—Second Secretary (Commercial) to the Embassy of India, No. 6 and 8, Ulites Obukha, Moscow.	INDEMBASSY Moscow.	U.S.S.R.
M. BHAVANDAS.—First Secretary (Commercial) to the Embassy of India, 20, Kalcheggereg, Berne.	INDEMBASSY Berne.	Switzerland.
S. H. DESAI.—First Secretary (Commercial) to the Embassy of India, Proleter Skeh Brigade 9, Belgrade.	INDEMBASSY Belgrade.	Yugoslavia, Belgaria, Greece.
R. C. MALHOTRA.—Second Secretary (Commercial), Embassy of India, Warsaw.	INDEMBASSY Warsaw.	Poland.
North America.		
J. K. MALHOTRA.—First Secretary (Commercial) to the High Commission for India in Canada, 200, Mclaren Street, Ottawa.	HICOMIND Ottawa.	Canada.
G. P. MATHUR.—Indian Trade Commissioner, 3691, Point Grey Road, Vancouver.		Province of British Columbia.
C. J. STRACEY, I.F.S.—First Secretary (Commercial), Embassy of India, 2107, Massachusetts Avenue, Washington.	INDEMBASSY Washington.	U.S.A. and Mexico.
Vice Consul, the Consulate General, San Francisco.	CONGENDIA San Francisco.	San Francisco.
The Consulate General of India, New York.	CONGENDIA New York.	New York.
Africa.		
V. V. DEV.—Indian Trade Commissioner, Jubilee Insurance Building, Post Box No. 614, Mombasa.	INTCOM Mombasa.	East Africa, Kenya, Uganda, Tanganyika and Zanzibar, Southern Rhodesia, Northern Rhodesia and Nayasaland.
S. V. PATEL, I.F.S.—Counsellor (Commercial) to the Embassy of India in U.A.R., Post Box No. 475, Cairo (U.A.R.).	INDEMBASSY Cairo.	U.A.R., Lebanon, Cyprus and Libya.
D. S. KHOSLA, First Secretary (Commercial), Embassy of India, Khartoum.	INDEMBASSY Khartoum.	Sudan.
P. N. SAREEN.—Second Secretary (Commercial), Embassy of India, Addis Ababa.	INDEMBASSY Addis Ababa.	Ethiopia.
GURBACHAN SINGH.—First Secretary, High Commission for India, Prize Mail Bag, 2322, Lagos (Nigeria).	HICOMIND Lagos.	Nigeria.
N. K. NIGAM.—Trade Commissioner.		Kuwait.
Australia and New Zealand.		
G. L. PURI.—Indian Trade Commissioner, Caltex House, 10th Floor, 167–187, Kent St., Sydney.	AUSTRIND Sydney.	Australia.
V. C. VIJAYA RAGHAVAN.—First Secretary (Commercial), High Commission for India in New Zealand, 49, Willes Street, Wellington (New Zealand).	TRACOMIND Wellington.	New Zealand.
Asia.		
R. K. JERATH.—First Secretary (Commercial), Embassy of India, Empire House (Naigai Building), Tokyo.	INDEMBASSY Tokyo.	Japan.
R. AXEL KHAN.—Second Secretary (Commercial), Embassy of India, 8/8, Safi-Ul-Ul. Al Tabari Street, Waziriah, Baghdad.	INDEMBASSY Baghdad.	Iraq, Jordan, Persian Gulf, Sheikhdoms, Bahrein, Shariah, Quatar and Trucial Oman.
M. K. ROY.—First Secretary (Commercial) to the High Commission for India in Ceylon, P.O. Box No. 882, Colombo 3.	HICOMIND Colombo.	Ceylon.
K. N. SHARMA.—First Secretary (Commercial), Embassy of India, Oriental Assurance Building, Merchant Street, Rangoon.	INDEMBASSY Rangoon.	Burma.
N. K. NIGAM.—First Secretary (Commercial), High Commission for India in Pakistan, India House, 3, Bonus Road, Karachi.	INTRACOM Karachi.	West Pakistan.
DR. JAGDISH CHAND.—Second Secretary (Commercial) to the High Commission for India in Pakistan, 6/3, Topkhana Road, Segun Bagicha, Dacca.	GOODWILL Dacca.	East Pakistan.
G. J. MALIK, I.F.S.—Commercial Counsellor to the Commission for India, India House, 31, Grang Road, P.O. Box 836, Singapore.	REPINDIA Singapore.	Malaya, Singapore.
Second Secretary, Embassy of India, Phnompenh.	INDEMBASSY Phnompenh.	Cambodia.
Third Secretary to the Embassy of India, 37, Pau Road, Bangkok.	INDEMBASSY Bangkok.	Thailand.
K. C. SEHGAL.—Second Secretary (Commercial), Embassy of India, P.B. No. 118, 44, Kebon Serih, Djakarta.	INDEMBASSY Djakarta.	Indonesia.
Commercial Section, Embassy of India, Manila.	INDEMBASSY Manila.	Philippines.
JAGAT SINGH, I.F.S.—The Commissioner of India, Aden.	COMIND Aden.	Aden and Somalia Republic.
Y. R. DHAWAN.—Second Secretary (Commercial), Embassy of India, Avenue Shah Raza, Tehran.	INDEMBASSY Tehran.	Iran.
M. R. THADANI.—First Secretary (Commercial), The Embassy of India, Tung Chio Min Hsiang, Peking.	INDEMBASSY Peking.	China.
P. E. PEACHEY.—Second Secretary (Commercial) to the Commission for India, Tower Court, 11th Floor, Hongkong.	COMIND Hongkong.	Hongkong.

N.B. 1.—The following officers are looking after India's trade interest in Tibet.
(*i*) Indian Trade Agent, Yatung (Tibet).
(*ii*) Commercial Secretary to the Indian Political Officer in Sikkim, Gangtok.
2.—In places where there are no Commercial Representatives our Diplomatic and Consular Officers look after India's trade interests.

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EMBASSIES IN INDIA

Country.	Station.	Designation.	Name.	Address.
AFGHANISTAN ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Sardar Ala General Mahamed Omer.	24, Ratendone Road, New Delhi.
ARGENTINA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Richardo Mosquera Eastman.	R. Nos. 657 and 657-A, Ashoka Hotel, New Delhi.
AUSTRIA	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Arno Halusa.	37/48, Nyaya Marg, Diplomatic Enclave, New Delhi 21.
BELGIUM	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Franz-Leo Goffart.	225, Jor Bagh, New Delhi.
BRAZIL	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Jose Cochrane de Alencar.	8, Aurangzeb Road, New Delhi.
BULGARIA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Lubomir Popov.	198, Golf Links Area, New Delhi 3.
BURMA	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Daw Khim Kyi (Madam Aung San).	109/48, Malcha Marg, Chanakyapuri, New Delhi.
CAMBODIA.. ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Var Kamel.	25, Golf Links, New Delhi.
CHILE	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Miguel Serrano Fernandez.	23, Prithviraj Road, New Delhi 11.
CHINA	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Pan Tzu-li.	28, Prithviraj Road, New Delhi.
COLOMBIA.. ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Leopold Borda Roldan.	R. No. 209, Ashoka Hotel, New Delhi.
CUBA	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Vacant.	40, Ratendone Road, New Delhi.
CZECHOSLOVAKIA	New Delhi ..	Ambassador	Dr. Ladislav Simovic.	45–46, Sundar Nagar, New Delhi.
DENMARK.. ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Arne Bogh Anderson.	9A, Nizamuddin West, Mathura Road, New Delhi 13.
ETHIOPIA	New Delhi ..	Ambassador	Getahoun Tesemma.	29, Prithviraj Road, New Delhi 2.
FRANCE	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	M. Jean Paul Garnier.	2, Aurangzeb Road, New Delhi.
FINLAND	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Veli Helenius.	43A, Prithviraj Road, New Delhi 11.
GERMANY, FEDERAL REPUBLIC OF	New Delhi ..	Ambassador	George Ferdinand Duckwitz.	No. 6, Block 50-G, Shanti Path, Chanakyapuri, New Delhi.
GREECE	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	N. Hadji Vassiliou.	R. Nos. 123, 124, 114, Ashoka Hotel, New Delhi.
HUNGARY ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Laszlo Reczei.	10, Pusa Road, Block No. 11, N. Extn. Area, New Delhi.
INDONESIA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	M. Notowidigdo.	50-A, Chanakyapuri, New Delhi 21.
IRAN	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Mochfegh Kazemi.	1, Hailey Lane, New Delhi.
IRAQ	New Delhi ..	Ambassador	Nuri Jamil.	28/48, Diplomatic Enclave, New Delhi.
ITALY	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Justo Giusti del Giardino.	7, Jor Bagh, New Delhi. 3.
JAPAN	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Koto Matsudaira.	Plot Nos. 4 & 5, Block 50-G, Chanakyapuri, New Delhi.
LAOS	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Vacant.	4, South Western Extn., Chanakyapuri, New Delhi.
LIBYA	New Delhi ..	Ambassador	—	—
MEXICO	New Delhi ..	Charge d'Affaires	Marco A. Almazan.	136, Golf Links, New Delhi.
MONGOLIAN PEOPLES REPUBLIC.	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Mangalyn Dugersuren.	21, Panch Sheel Marg, New Delhi.
MOROCCO	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Ahmed Benabud.	208, Jor Bagh, New Delhi.
NEPAL	New Delhi ..	Ambassador	Nara Pratap Thapa.	Barakhamba Road, New Delhi.
NETHERLANDS ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Jonkheer Gerard Beelaerts Van Blokland.	4, Ratendone Road, New Delhi.
NORWAY	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Hans Olav.	Shanti Path, Chanakyapuri, New Delhi.
PHILIPPINES ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Hon. Manuel A. Alzate.	Thapar House, Janpath, New Delhi.
POLAND	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Dr. Juliusz Katz-Suchy.	22, Golf Links Area, New Delhi 3.
RUMANIAN PEOPLE'S REPUBLIC.	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Nicolae Cioroiu.	48, Golf Link Road, New Delhi.
SAUDI ARABIA ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Shaikh Yusuf Alfozan.	6, Tilak Marg, New Delhi.
SPAIN	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Count de Artaza.	12, Prithviraj Road, New Delhi 11.
SUDAN	New Delhi ..	Ambassador	Syed Abdul Karim Mirghani.	147, Sunder Nagar, New Delhi 11.
SWEDEN	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Klas Book.	Chanakyapuri, New Delhi 21.
SWITZERLAND ..	New Delhi ..	Ambassador	Dr. Jacques-Albert Cuttat.	Theatre Communication Bldg., Connaught Place, Radial Road, No. 1, New Delhi.
THAILAND ..	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Sukich Nimmanheminda.	Nyaya Marg, Chanakyapuri, New Delhi.

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Country.	Station.	Designation.	Name.	Address.
TURKEY	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Necdet H. Kent.	No. 27, Jor Bagh, New Delhi.
UNION OF SOVIET SOCIALIST REPUBLICS.	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Ivan Alexandrovich Benediktov.	Shanti Path, Chanakyapuri, New Delhi.
UNITED ARAB REPUBLIC.	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Ahmed Hassan Elfeky.	26, Jor Bagh, New Delhi 3.
UNITED STATES OF AMERICA.	New Delhi ..	Ambassador Extraordinary and Plenipotentiary.	Prof. John Kenneth Galbraith.	Shanti Path, Chanakyapuri, New Delhi 21.
YUGOSLAVIA ..	New Delhi ..	Ambassador	Dusan Kveder.	13, Sunder Nagar Mathura Road, New Delhi.

LEGATIONS IN INDIA

Country.	Station.	Designation.	Name.	Address.
HOLY SEE.. ..	New Delhi ..	Apostolic Internuncio	The Most Rev. James R. Knox.	Niti Marg, Chanakyapuri, New Delhi 11.
LEBANON	New Delhi ..	Minister	Albert Nassif.	23/48, Panch Sheel Marg, New Delhi.
URUGUAY ..	New Delhi ..	Charge d'Affaires	Orlando Pedragosa Nadal.	27, Prithviraj Road, New Delhi.
VENEZUELA ..	New Delhi ..	Minister	—	—

HIGH COMMISSIONS IN INDIA

Country.	Station.	Designation.	Name.	Address.
AUSTRALIA ..	New Delhi ..	High Commissioner	W. R. Crocker.	Australian High Commission, Theatre Communication Bldg., Connaught Place, New Delhi.
CANADA	New Delhi ..	High Commissioner	C. A. Ronning.	4, Aurangzeb Road, New Delhi 11.
CEYLON	New Delhi ..	High Commissioner	Sir Richard Aluwihare.	224, Jor Bagh, New Delhi 3.
GHANA	New Delhi ..	High Commissioner	Vacant.	2, Golf Links, New Delhi.
MALAYA	New Delhi ..	High Commissioner	Dato S. Chelvasingham MacIntyre, P.M.N.	Malaya House, 15, Jor Bagh, New Delhi.
	Madras	Asstt. High Commissioner ..	T. H. Yogaratnam	15, Second Crescent Park Road, Gandhinagar, Adyar, Madras.
NEW ZEALAND ..	New Delhi ..	High Commissioner	Sir Guy Powles, K.B.E., C.M.G.	39, Golf Links, New Delhi 11.
PAKISTAN ..	New Delhi ..	High Commissioner	Agha Hilaly	8-B, Hardinge Avenue, New Delhi.
	Calcutta	Deputy High Commissioner ..	M. Shafqat.	9, Circus Avenue, Calcutta 5.
	Shillong	Deputy High Commissioner ..	Ahmed Ali.	Dahlia House, Kench's Terrace, Shillong.
		Assistant High Commissioner ..	A. Momin.	Shanti Path, Chanakyapuri, New Delhi 21.
UNITED KINGDOM	New Delhi ..	High Commissioner	Sir Paul Gore-Booth, K.C.M.G., K.C.V.O.	
		Deputy High Commissioner (Minister).	Vacant.	
	Calcutta	Deputy High Commissioner ..	Major General W. H. A. Bishop, C.B., O.B.E., C.M.G.	1, Harrington Street, Calcutta 16.
	Bombay	Deputy High Commissioner ..	J. D. Fraser, C.V.O., M.B.E.	Mercantile Bank Building, Mahatma Gandhi Road, Bombay.
	Madras	Deputy High Commissioner ..	M. E. Allen.	No. 6, Armenian Street, Madras.

FOREIGN CONSULAR OFFICES IN INDIA

Country.	Station.	Designation.	Name.	Address.
AFGHANISTAN ..	Bombay	Consul-General	Jalal-ud-Din Tarzi.	115, Walkeshwar Road, Bombay.
AUSTRIA	Calcutta	Hon. Consul	L. R. Patel.	16, Netaji Subhas Road, Post Box No. 369, Calcutta 1. Tel. 22-1952.
	Bombay	Hon. Consul	Murarji J. Vaidya.	The United Bank of India Bldg., 2nd Floor, Sir P. Mehta Road, Bombay 1. Tel. Nos. 253959 & 254065.
		Hon. Vice-Consul	Mrs. Alice Khan.	3, Cuffe Parade, Colaba, Bombay 5. Tel. 211077.
	Madras	Hon. Consul	A. N. Sattanathan.	Spencer's Bldg., Mount Road, Madras 2. Tel. 83001.

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Country.	Station.	Designation.	Name.	Address.
BELGIUM	Bombay	Consul-General	Albert Alsteens.	"Morena", 11, Carmichael Road, Cumballa Hill, Bombay 26. Telephone: 41824. Telegrams: "BELSULAT".
	Calcutta	Consul-General	L. Olivier.	6, Camac Street, Calcutta. Telephone: 443886. Telegrams: "BELSULAT".
	Madras	Consul (Honorary)	M. Nevens.	1-E, Spurtank Road, Chetput, Madras. Telephone: 84184. Telegrams: "BELSULAT".
BRAZIL	Calcutta	Vice-Consul (In charge) ..	J. R. Antonio Viegas.	8/6, Alipore Park Road, Calcutta 27.
BURMA	Calcutta	Consul-General	U Maung Maung Toe.	12, Dalhousie Square East, Calcutta.
	Madras	Vice-Consul	U Aung Thet.	6, Rutland Gate (1st Street), Nungambakam, Madras 6.
CHINA†	Calcutta	Consul-General	Li Chung-Ho.	237, Lower Circular Road, Calcutta.
	Bombay	Consul-General	Chang Chi-ping.	10, Bomanji Petit Road, Cumballa Hill, Bombay.
COSTA RICA ..	Bombay	Consul-General	I. A. Makhani.	Standard Bldg., 346, Dadabhoy Naoroji Road, Bombay 1.
CZECHOSLOVAKIA	Madras	Vice-Consul	Roy E. Chambers.	8, Waddel Road, Madras 10.
	Bombay	Vice-Consul-General (In charge)	Frantisek.	"Marcopia", 5, Pedder Road, Cumballa Hill, Bombay 26.
DENMARK.. ..	Bombay	Hon. Consul-General	E. B. Mogensen.	Eros Cinema Building, 124-D, Queen's Road, Bombay.
	Calcutta	Hon. Consul	Nils-Goran Erikson.	18-G, Park Street, Calcutta.
	Cochin	Hon. Consul (In charge) ..	Bjarne Knut Larsen.	C/o Norwegian India Foundation, Norway House, Post Box 137, Ernakulam.
	Madras	Hon. Consul	F. Korner.	Mercantile Bank Building, 1st Line Beach, Madras.
DOMINICAN REPUBLIC.	Bombay	Consul-General	H. H. Ismail.	208, D. Wachha Road, Mistry Court, Opp. C.C.I., Bombay 1.
EL SALVADOR ..	Calcutta	Consul	Karanjaksha Bonerjee.	12, P. K. Tagore Street, Calcutta 6.
ETHIOPIA	Bombay	Hon. Consul	Ismail M. Kanga.	Crescent Chambers, Tamarind Lane, Fort, Bombay. Telephones: Office 251243; Residence: 213271.
FINLAND	Bombay	Consul	C. H. Campbell.	Chartered Bank Building, Post Box No. 73, Mahatma Gandhi Road, Bombay 1.
	Calcutta	Consul	A. I. Murison.	P.O. Box 209, 2, Netaji Subhas Road, Calcutta.
FRANCE	Bombay	Consul-General	Henri Dumont.	Vulcan Insurance Building, 5th Floor, Churchgate Reclamation, Bombay 1.
	Calcutta	Ag. Consul-General	Gilbert Fevrier.	26, Park Mansion, Park Street, Calcutta 16.
	Madras	Consul	Roger London.	7, Cenotaph Road, Teynampet, Madras.
GERMANY (FEDERAL REPUBLIC).	Bombay	Consul-General	Dr. Heinrich Kochler.	Dugal House, Road No. 3, Backbay Reclamation, Bombay 1.
	Calcutta	Consul-General	Klaus Curtius.	Ilaco House, 1/3, Brabourne Road, Calcutta 1.
	Madras	Consul	Gerhard Fischer.	Bombay Mutual Bldg., 378, Netaji S. Bose Road, Madras 1.
GREECE	Bombay	Consul-General	G. Loucatos.	Mercantile Chambers, 1st Floor, Graham Road, Ballard Estate, Bombay.
	Calcutta	Consul-General	B. Mathews.	Wellesley House, 7, Wellesley Place, Calcutta.
HAITI	Calcutta	Consul	Murari Churn Law.	No. 2, Cornwallis Street, Calcutta 6.
INDONESIA ..	Bombay	Consul	Imam Sutarjo.	17, Altamount Road, Cumballa Hill, Bombay 26.
IRAN	Bombay	Consul-General	Fereydoun Movasaghi.	"Pradip" (former Dorchester), Queen's Road, Bombay. Tel. No. 242118.
IRAQ	Bombay	Consul-General	Ali Jamil Saib.	"Panorama", 203, Walkeshwar Road, Bombay 6. (Tel. No. 40969).
ISRAEL	Bombay	Consul-General	Michael Th. Michael.	50, Pedder Road, Cumballa Hill, Bombay 26.
ITALY	Calcutta	Consul-General	Dr. Rodolfo Goglia.	3, Raja Santosh Road, Alipore, Calcutta 27.
	Bombay	Consul	Dr. Vittorio Lavison.	Vaswani Mansion, Dinshaw Wachha Road, Fort, P.O. Box No. 1521, Bombay 1. Tel. 245177–8.
JAPAN	Calcutta	Consul-General	T. Ban.	12, Pretoria Street, Calcutta 16.

† There is also a trade agency at Kalimpong (10½ miles from Kalimpong).

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Country.	Station.	Designation.	Name.	Address.
	Bombay	Consul-General	Toshio Yoshioka.	Kashmir House, 19, Nepean Sea Road, Bombay 6.
LIBERIA	Calcutta	Consul	P. K. Bonerjee.*	7-2-P, Jamir Lane, Calcutta 19.
LUXEMBOURG ..	Bombay	Vice-Consul In-charge	R. C. L. Van Damme.	2nd Floor, Taj Bldg., D. Naoroji Road, Fort, Bombay.
MONACO	New Delhi ..	Consul-General	R. Chattaram.	14/15F, Connaught Place, New Delhi.
NEPAL	Calcutta	Consul-General	Maj. Gen. Mahendra Shamsher Thapa.	19, Woodlands, Sterndale Road, Alipore, Calcutta 27.
NETHERLANDS ..	Bombay	Consul-General	J. Van der Gaag.	298, Bazargate Street, City Ice Building, P.O. Box 260, Fort, Bombay 1. (Tel. Nos. 251576, 251577, 251578).
	Calcutta	Consul-General	Ph. H. Rogaar.	5 & 7, Netaji Subhas Road, Calcutta.
	Madras	Consul	A. Sinclair Rose.	North Rly. Terminus Road, Royapuram, Madras.
NICARAGUA ..	Bombay	Consul	J. K. Rege.	Alice Building, Dr. Dadabhoy Naoroji Road, Bombay. (Tel. No. 252542). (Grams: "WAUDCO").
	Calcutta	Consul	K. C. Dey.	6-1, Bright St., Ballygunge, Calcutta 19. Tel. 441329.
NORWAY	Bombay	Consul-General	Lars Onsager.	Imperial Chambers, Wilson Road, Ballard Estate, Bombay.
	Calcutta	Consul-General	Sverre Gylseth.	14, Netaji Subha, Road, Calcutta.
	Cochin	Vice-Consul (Ag.)	B. Larsen.	P.B. No. 137, Ernakulam.
	Madras	Consul	B. B. Dodd.	Post Box No. 42, Madras.
PANAMA	Bombay	In charge of the Consulate General.	Aloisio Da Cruz.	35, Yusoof Bldg., 252, Carnac Road, Bombay 2. (Tel. No. 34073).
PERU	Calcutta	In charge of the Consulate-General.	J. R. Antonio Viegas.	8/6, Alipore Road, Calcutta 27.
PHILIPPINES ..	Bombay	Hon. Consul General	K. M. Modi.	Central Studio, 74-94, Tardeo Road, Bombay 7.
SPAIN	Bombay	Consul-General	J. Paniego Ecay.	Mistry Court, Dinshaw Wachha Road, Bombay 1.
	Calcutta	Vice-Consul	Pritindra Nath Ray Chowdury.	10, Old Post Office Street, Calcutta.
	Madras	Vice-Consul	Gilbert Augustine Pais.	"Lawdale", 5, Nimmo Road, San Thome, Mylapore, Madras.
SUDAN	Bombay	Consul-General	K. M. Hamzah.	Mistry Court, Dinshaw Wachha Road, Bombay 1.
SWEDEN	Bombay	Consul-General	S. G. Gothberg.	Indian Mercantile Chambers, Nicol Road, Ballard Estate, Bombay.
	Calcutta	Consul-General	W. Tham.	7, Wellesley Place, Calcutta.
	Madras	Ag. Consul	Kamaljit Singh.	38C, Mount Road, Madras 6.
SWITZERLAND ..	Bombay	Consul-General	F. Chatelain.	Manekji Wadia Building, 127, Mahatma Gandhi Road, Fort, Bombay.
	Calcutta	Consul	E. Breuleux.	16, Old Court House Street, Calcutta.
	Cochin	Consular Agent	R. Nievergelt.	C/o Volkart Brothers, P.O. Box No. 3, Cochin.
	Madras	Consular Agent	R. D. Walter.	C/o Binny & Co. Ltd., P. Box No. 66, Madras.
THAILAND ..	Calcutta	Ag. Consul-General	Apichai Plasai.	1, Moore Avenue, Tollygunge, Calcutta 40.
TURKEY	Bombay	Consul-General	Rahim Karim Mistry.	208, Dinshaw Wachha Road, Backbay Reclamation. (Telephone *Office*: 245377).
UNITED ARAB REPUBLIC.	Bombay	Consul-General	Abd El Moneim El Naggar.	5, Mistry Court, 208, Dinshaw Watcha Road, Bombay.
	Calcutta	Consul-General	A. A. Moustafa.	8/6, Alipore Park Road, Alipore, Calcutta 27.
UNITED STATES OF AMERICA.	Bombay	Consul-General	Robert Mcdill Carr.	"Lincoln House", 78, Bhulabhai Desai Road, Bombay 26.
	Calcutta	Consul-General	Gordon H. Mattison.	5/1, Harrington Street, Calcutta 16.
	Madras	Consul-General	Dr. Thomas W. Simons.	150-B, Mount Road, Madras 2.
U.S.S.R.	Bombay	Consul-General	Mihail S. Vetrov.	"Palm Beach", 42, Nepean Sea Road, MalabarHill. Bombay-6.
	Calcutta	Consul-General	Mihail F. Tcherkassov.	31, Theatre Road, Calcutta.
VIET-NAM (DEMOCRATIC REPUBLIC OF).	New Delhi ..	Consul-General (Minister) ..	Nguyen-duy-Tinh.	62, Golf Links Area, New Delhi. (Tel. No. 43200).
VIET-NAM (REPUBLIC OF).	New Delhi ..	Consul-General (Minister) ..	Do Vang Ly.	147, Jor Bagh, New Delhi.
YUGOSLAVIA (FEDERAL PEOPLE'S REPUBLIC OF).	Bombay	Consul-General	Rafo Ivancevic.	4/120, Dinshaw Vachha Road, Churchgate Reclamation, Bombay 1.

* Jurisdiction extends to Nepal also.

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U. N. BODIES IN INDIA

UNITED NATIONS INFORMATION CENTRE FOR INDIA, CEYLON AND NEPAL

Address :—21, Curzon Road, New Delhi.

Dissemination of objective information on the aims and activities of the United Nations through all information media is the main function of the New Delhi Centre of the United Nations.

Director : David Blickenstaff.
Deputy Director : K. N. S. Sarma.
Visual Information Officer : Thomas Baird.
Radio Officer : Mrs. Werner Fend.

U. N. CHILDREN'S FUND (UNICEF)

Address :—Area Office for India, Afghanistan and Ceylon, UNICEF House, 11, Jorbagh, New Delhi-3.

Ever since UNICEF became a permanent body of U.N. Organization in 1953, its principal objective has been the furtherance of mother and child health through long range programmes *e.g.*, giving equipment to Primary Health Centres in Community Development Blocks, improving nutrition through Milk Plants etc. UNICEF assistance is requested by the Governments concerned and the UNICEF Executive Board consisting of 30 States meets twice a year to consider these requests.

Director : Dr. Charles E. Egger ; *Dy. Director :* Poul F. Larsen ; *Field Officers :* A. E. McBain ; D. K. Faris ; C. Kondapi ; *Food Conservation Engineers :* A. R. Lucas, A. Robinson ; *Chief, Supply Operations :* H. L. Shapiro.

UNITED NATIONS TECHNICAL ASSISTANCE BOARD

Office address : C/o Department of Economic Affairs, 8-10, Parliament Street, New Delhi.
Telephones : 48501, 48502, 40529 and 42135.
Resident Representative : David Blickenstaff.
Deputy Resident Representative : A. Shahbaz.

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT

Office of Resident Representative

Office address : Reserve Bank of India Building (Second Floor), Parliament Street, New Delhi.
Telephone : 34987.
Resident Representative : Harry G. Curran.
Economist : Dr. Stokes M. Tolbert.

International Labour Office (India Branch) : Mandi House, New Delhi.

The Branch Office was established in 1928. It maintains close relations with the Government authorities, and employers' and workers' organisations, and acts as a clearing house of information on questions concerning labour and social policy.

It publishes every month a "News Service" in English and Hindi, dealing with the current activities of the International Labour Organisation. It also issues from time to time a Bulletin containing digests of important documents and studies of the I.L.O. The Office has also a good reference library. It also undertakes the sale of I.L.O. publications.

Director : V. K. R. Menon.

United Nations Educational, Scientific and Cultural Organisation : South Asia Science Co-operation Office : 21, Curzon Road, New Delhi.

Ag. Director : Dr. Rudolf H. Fritsch.

UNESCO RESEARCH CENTRE ON SOCIAL AND ECONOMIC DEVELOPMENT IN SOUTHERN ASIA

Office address : C/o Institute of Economic Growth, University Enclave.
Telephones : 23486 and 27476.
Acting Director : Dr. J. D. N. Versluys.
Senior Research Officer : Prof. S. K. Bose.

FAO Regional Office for Asia and the Far East (Western Zone)—Ceylon, India and Nepal.
21, Curzon Road, New Delhi 1.
Deputy Regional Representative : K. A. Bennett.
Information Officer : T. A. Venkatraman.

World Health Organisation Regional Office for South-East Asia : Patiala House, Princes Park, New Delhi.
Regional Director : Dr. C. Mani.
Director, Office of Health Services : Dr. L. Bernard.
Chief, Office of Administration & Finance : A. G. B. Sutherland.
Asst. Directors, Health Services : Dr. R. H. Bland ; Dr. H. Richards ; Dr. D. P. Nath.
Area Representative : Dr. L. G. Eddey.

U. N. Technical Assistance Board, 8/10, Parliament Street, New Delhi.
Resident Representative : David Blickenstaff.

TRADE COMMISSIONS

UNITED KINGDOM

Delhi :—H. Bailey, United Kingdom Senior Trade Commissioner in India and Economic Adviser to the U.K. High Commissioner.
R. Fell, U. K. Trade Commissioner at New Delhi. P. S. Preston, U. K. Trade Commissioner E. J. E. Newbold, U. K. Trade Commissioner.
Address : Shanti Path, Chanakyapuri, New Delhi 21.
Telegrams : "TRADCOM".
Calcutta :—M. J. Marshall, U. K. Trade Commissioner In Charge at Calcutta.
D. J. R. Hack, U. K. Trade Commissioner.
Address : 1, Harrington Street, Calcutta 16.
Telegrams : "TRADCOM".
Bombay :—S. C. Stout, U. K. Trade Commissioner In Charge at Bombay.
H. O'Brien, U. K. Trade Commissioner.
Address : Mercantile Bank Building, Mahatma Gandhi Road, Fort, Bombay.
Telegrams : "TRADCOM".
Madras :—F. F. D. Ward, U. K. Trade Commissioner.
Address : 6, Armenian Street, Madras 1.
Telegrams : "BRITRACOM".

AUSTRALIA

New Delhi :—F. R. Gullick, Commercial Counsellor and Senior Trade Commissioner.
J. H. Rowland, Asst. Trade Commissioner.
Address : 34, Golf Links Road, New Delhi, P.O. Box 3033.
Bombay :—G. M. Carr, Trade Commissioner.
Address : Mercantile Bank Building, 52/66, Mahatma Gandhi Road, Bombay, P.O. Box 217.
Calcutta :—N. S. Pauton, Trade Commissioner.
K. C. Gale, Asst. Trade Commissioner.
Address : 2, Fairlie Place, P.O. Box 303, Calcutta.

CANADA

New Delhi :— Commercial Counsellor.
Address : Office of the High Commissioner for Canada, 13 Golf Links, P.O. Box 11.
Cable Address : "CANADIAN"
Bombay :—Canadian Government Trade Commissioner : W. F. Hillhouse.
Address : Gresham Assurance House, Mint Road, P.O. Box 886. *Cable :* "CANADIAN."

CEYLON

Ceylon Govt. Trade Commissioner : A. M. Jayasinha.
Ceylon House, Bruce Street, Fort, Bombay.

JAMMU AND KASHMIR

Trade Agent : Dr. S. S. Nishat.
Address : Manekji Wadia Building, 129, Mahatma Gandhi Road, Bombay 1.
Trade Commissioner, 5, Prithviraj Road, New Delhi : G. R. Renzu.
Trade Agent, Kashmir House, Court Road, Amritsar : Mani Ram.
Trade Agent, Pathankot : D. N. Kachroo.

NEW ZEALAND

Trade Commissioner in India : R. T. C. de Lambert.
Address : Office of the High Commissioner for New Zealand, 39, Golf Links Road, New Delhi 11.
Telegraphic Address : "PUKATEA."

AFGHANISTAN

Consul-General.
Address : 115, Walkeshwar Road, Bombay 6.

AUSTRIA

Austrian Trade Representative in Bombay : Robert Schmidt.
Address : Queen's Mansions, Bastion Road, P.O. Box 1385, Bombay 1. *Telephone :* 263483.
Austrian Trade Representative in Calcutta : Dr. Heinrich Hiruschrodt.
Address : 2/2, Harrington Street, Calcutta 1.

BELGIUM

Consulate General for Belgium with Jurisdiction over commercial matters.
Bombay : *Consul-General :* Albert Alsteen
Vice-Consul : Th. De Greeff.
"Morena", 11, Carmichael Road, Cumballa Hill, Bombay 26. Telephone : 41824. Telegrams : "BELSULAT."
Calcutta : *Consul-General :* L. Olivier.
6, Camac Street, Calcutta. Telephone : 443886. Telegrams : "BELSULAT."

BULGARIA

Trade Representation of the People's Republic of Bulgaria in India :
Address : 150, Golf Links Area, New Delhi 3.
Cable : "BULTARG", New Delhi.

CZECHOSLOVAKIA

Commercial Counsellor & Trade Representative : L. J. Pesl.
Commercial Attache—Deputy Trade Representative : V. Rudolf.
Address : 65, Golf Links Area, New Delhi 3.
Trade Commissioner : J. C. Jaks.
Address : Kasturi Bldgs., Jamshedji Tata Road, Bombay 1.
Trade Commissioner : K. Baca.
Address : 24, Park Street, 4th Floor, Calcutta 16.
Dy. Trade Commissioner : V. Kobrle.
Address : 11, Ruthland Gate, 4th Street, Madras.

DENMARK

Trade Commissioner : K. Packness.
Address : Pallonji Mansion, New Cuffe Parade, Colaba, Bombay 5. *Tel. :* 211854. *Grams :* "DANTRACOM."

FINLAND

Trade Commissioner : Timo Saarinen.
Address :—Chartered Bank Building, Mahatma Gandhi Road, P.O. Box 73, Bombay 1.

FRANCE

New Delhi :—The Commercial Counsellor to the French Embassy, 63, Cornwallis Road.
Bombay :—The Trade Commissioner for France, "Adelphi", 3, Queen's Road.
Calcutta :—The Trade Commissioner for France, 13, Park Mansions, Park Street.
Madras :—The Trade Commissioner for France, 4, Lamech Avenue, Off Spur Tank Road, Chetput.

GERMAN DEMOCRATIC REPUBLIC

Trade Representation :
Head Office : New Delhi—22/39, Kautilya Marg.
E. Renneisen, *Trade Representative.*
Branch Office, Bombay : 122, Dinshaw Wachha Road. A. Heinrich, *Dy. Trade Representative.*
Branch Office, Calcutta : P 17, Mission Row Extension. O. Voelker, *Dy. Trade Representative*
Branch Office, Madras : 4-A, Valliammal Road Vepery. H. Sachse, *Dy. Trade Representative.*

GERMANY (FEDERAL REPUBLIC)

Chief Economic Officer : Consul Ernst Kunisch.

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Deputy Economic Officer : Vice-Consul Heiny Scheither.
Assistant Economic Officer : H. Breitgraf.
Address : Dugal House, Road No. 3, Backbay Reclamation, Bombay 1.

HUNGARY

Trade Commission of the Hungarian People's Republic :—
Trade Commissioner : T. Laszlo.
Address : 45, Cuffe Parade, Bombay 5.
Trade Representative of the Hungarian People's Republic in India : Dr. G. Oblath.
Address : 18, Golf Links Area, New Delhi.

INDONESIA

Consul for Indonesia : Imam Sutarjo.
Address : "Lincoln Annexe," 17, Altamont Road, Cumballa Hill, Bombay 26.

ISRAEL

Consul-General for Israel : Michael Th. Michael.
Address : "Kailas," 50, Pedder Road, Bombay 26.

ITALY

Consul for Italy with Jurisdiction over Commercial matters : Dr. Vittorio Lavison.
Address : Vaswani Mansion, Dinshaw Wachha Road, Fort, Bombay 1.
Telephone : 245177.
Commercial Counsellor, New Delhi : Dr. Aldo Gambacurta.
Address : Italian Embassy, Commercial Section, 7, Jor Bagh, New Delhi 3.
Consul for Italy, Calcutta, with Jurisdiction over Commercial matters : Dr. Rodolfo Goglia.
Address : 3, Raja Santosh Road, Alipore, Calcutta.

JAPAN

Consulate-General : Bombay.
Consul : Toyozane Maeda.
Address : Kashmir House, 19, Nepean Road, Bombay 6.
Consulate-General : Calcutta.
Consul-General : Tetsuo Ban.
Vice-Consul : Masanari Ozaki.
Consul eleve : Kinnosuke Inagawa.
Address : 12, Pretoria Street, Calcutta 16.

NETHERLANDS

Consulate-General of the Netherlands :
Consul-General : J. Van der Gaag.
Address : 298, Bazargate Street, Fort, Bombay.

NORWAY

Address : Royal Norwegian Consulate-General, Imperial Chambers, Wilson Road, Ballard Estate, Bombay.

PANAMA

Trade Commissioner : Vacant. Aloisio Da Cruz, *First Secretary (In charge).*
Address : 35, Yusoof Bldg., 252, Carnac Road, Bombay 2. (Tel. No. 34073).

POLAND

New Delhi :—Commercial Counsellor : B. Szymanski.
Address : 42/44, Sundar Nagar, New Delhi.
Bombay :—Consul : Z. Bobrowicz.
Address : 40/A, Pedder Road, Bombay 26.
Calcutta :—Consul : W. Mikiszko.
Address : 28, Stephen Court, 18/A, Park Street, Calcutta 16.

RUMANIA

Trade Representation of the Rumanian People's Republic in India : P. Vladescu, *Dy. Trade Representative,* 61, Golf Links Area, New Delhi.
Dy. Trade Representative of the Rumanian People's Republic in India : S. Voinov, Steelcrete House, Dinshaw Wachha Road, Churchgate Reclamation, Bombay 1.
Asstt. Trade Representative of the Rumanian People's Republic in India : Sandu, 4, Queen's Park, Calcutta 19.

SPAIN

Spanish Consul-General : J. Paniego Ecay.
Address : Spanish Consulate-General, "Mistry Court," Dinshaw Wachha Road, Churchgate Reclamation, Bombay 1.

SWEDEN

Ag. Trade Commissioner for Sweden : H. O. Olsson.
Address : Shangri La, Carmichael Road, Bombay 26.
Calcutta : Stellan Peterson, 7, Wellesley Place.

SWITZERLAND

Swiss Trade Commissioner : Dr. E. W. Dutschler.
Secretary to the Swiss Trade Commissioner : H. Kessler.
Address : Gresham Assurance House, Sir Phirozeshah Mehta Road, Fort, Bombay. P. O. Box 102. *Telegrams :* "SWISSTRADE", *Phone :* 253084.

THAILAND

Thai Government Trade Commissioner : T. Nava
Address : 2, Nazar Ali, Off 64, Ballygunge, Circular Road, Calcutta 19.
Telephone : 44-3351. *Telegraphic Address :* "THAITRADE," Calcutta. *Telegraphic Code :* 'Acme'.

UNITED ARAB REPUBLIC

Commercial Counsellor to the Government of United Arab Republic in India.
Address : 26, Jor Bagh, New Delhi.

U.S.A.

Economic Section.
Address : American Consulate General, "Lincoln House," 78, Bhulabhai Desai Road, Bombay 26.

U.S.S.R.

Trade Representation of U.S.S.R. in India, Plots Nos. 6 and 7, Block 50-E, Nyaya Marg, Chanakyapuri, New Delhi 21. *Cables :* 'Vneshtorg,' New Delhi.
Calcutta Branch and Calcutta Showrooms of the U.S.S.R. Machinery and Equipment : 1, Bishop Lefroy Road (Larger Bldg.), Calcutta 20. *Cables :* 'Vneshtorg,' Calcutta.
Bombay Branch : "Avantica," 46, Pedder Road, Bombay 26. *Cables :* 'Vneshtorg', Bombay.
Bombay Showrooms of the U.S.S.R. Machinery and Equipment : Vasundhara House, Bhulabhai Desai Road, Bombay 26.

YUGOSLAVIA

Trade Commissioner, Djordje Ribar, Vaswani Mansions, Dinshaw Vachha Road, Bombay 1.

SOME WOMEN'S ASSOCIATIONS

ALL-INDIA WOMEN'S CONFERENCE

Address : 6, Bhagwandas Road, New Delhi.
President : Smt. Mithan J. Lam.
Vice Presidents : Smt. M. S. H. Jhabwala, Smt. Masuma Begum, Smt. Sarojini Varadappan, Smt. Kusum Shah, Smt. Kundrani Gandhey, Smt. Pushpa Mehta.
Hon. Gen. Secy. : Smt. Phulrenu Guha.
Hon. Treasurer : Smt. Pramoda Gosalia.
Hon. Secy. AIWEF Association : Smt. Pushpa Mehta.
Village Mobile Health Van : Smt. Gulab Dalal.
Members-in-charge, Departments :—
Legislations : Smt. Seeta Parmanand.
International Relations : Smt. Munir Zuhrie.
Asian African Conference : Smt. Avabai Wadia.
Handicrafts : Smt. Lilavati Banker.
Constitution : Smt. Jayashri Raiji.
Editor, Roshni : Smt. Tapati Mukerjee.
Education : Smt. Drulata Parekh.
Socio Economic : Smt. Leela Damodara Menon.
Sarojini Naidu Margaret Cousins Memorial : Smt. B. Tarabai.
Margaret Cousins Memorial, Library : Smt. Shanta Mohan.
Estate Committee : Smt. B. Tarabai.

The Conference was started in 1927 and is the oldest women's welfare organization in the country.

It publishes a monthly journal in English and Hindi called *Roshni.*

There are 39 branches in :

Ajmer, Andhra, Assam, Baroda, Bengal Central, Bengal West, Berar, Bhavnagar, Bhopal, Bihar, Bombay, Calcutta, M.P. North, M.P. South, Cochin, Delhi, Gujarat, Gwalior, Hyderabad, Indore, Jath, Junagadh, Karnatak, Kolhapur, Konkan, Madras, Maharashtra, Malabar, Mysore, Orissa, Phaltan, East Punjab, Patiala, Rajasthan, Sangli, Tamilnad, U.P., Agra and Kashmir with about 275 constituent branches and 60,000 membership.

BOMBAY STATE WOMEN'S COUNCIL

Address : Town Hall, Bombay 1.
Office bearers :
President : Mrs. Sushila D. Joshi, B.A.
Vice-President : Mrs. Alice S. Khan, D.M.P. (Zurich).
Hon. Treasurer : Mrs. Padmavati R. Saraiya.
Executive Secretary : Miss Hilla M. Dadina, M.A.

There are branches in Aurangabad and Poona.

Thirty-four societies are affiliated to the B.S.W.C.

There are committees for:

Rescue Home, Women's Home, Industries Depot, Labour, Parliamentary Affairs, Education, Children's Library, Health, Haj, Funds Collecting, Child Welfare, Social Education, Children's Films, Small Savings, Bapnu Ghar, Beggar Problem and Children's Recreation. There is also an *ad hoc* milk distribution committee.

B.S.W.C. has 1,350 members.

FEDERATION OF UNIVERSITY WOMEN IN INDIA

Affiliated to the International Federation of University Women, with headquarters in London.
Address : 14/1, IV Street, Abhiramapuram, Madras 18.
President : Miss V. Koman ; *Hon. Gen. Secy. :* Miss M. Ramadurai ; *Hon. Treasurer :* Dr. A. Zachariah.

There are branches (organized on University basis) in :

Bombay, Madras, Poona, Nagpur, Delhi, Lucknow, Allahabad, Calcutta. *Sub-Branch :* Kodaikanal.

One of the chief aims of the Indian Federation is to promote friendship and understanding among the University women of different nationalities. Number of University women in India is about 40,000.

NATIONAL COUNCIL FOR WOMEN IN INDIA

Affiliated to the International Council of Women.

Headquarters Office :
Town Hall, Bombay 1.

Present Office Bearers :—
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Legislation : Smt. Sarojini Mehta, Bombay; *Education :* Smt. Rani Tandon, Allahabad; *Editor of the Bulletin :* Smt. Vimla Virmani, Delhi; *Child Welfare :* Dr. Hansa Sheth, Bombay; *Village Welfare :* Dr. Prabhavati Bhide, Patna; *Prison Reforms :* Smt. Shudha Mazumdar, Calcutta; *Handloom & Small Scale Industries :* Smt. Yamutai Kirloskar, Poona; *Health & Hygiene :* Dr. Malini Gujar, (Bombay; *Welfare Work for Adivasis :* Smt. J. Jaipal Singh, New Delhi; *UNESCO, Arts and Letters :* Madame Sophia Wadia, Bombay; *Women's Co-operatives :* Smt. Lilavati Banker, Bombay; *Delinquency & Rehabilitation :* Smt. Tarabai M. Premchand, Bombay; *Moral & Social Hygiene :* Smt. Malinibai Paranjpe, Poona; *Social and International Relations :* Smt. Saradadevi Sarabhai, Bombay.

RATAN TATA INDUSTRIAL INSTITUTE

Address : Hughes Road, Bombay 7.

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The Sir Ratan Tata Industrial Institute founded in 1928 by the Trustees of Sir Ratan Tata is a unique centre raised to the memory of an illustrious member of the famous House of Tatas.

For 33 years, this Institute has helped to partially solve the problem of poverty and distress among Parsi families from the lower income groups, by encouraging girls and women to earn a living through suitable industries.

The average number of workers employed during 1960 was 333 and the wages paid Rs. 3,25,394.

The amenities provided were :— Towards meals Rs. 57,677; towards conveyance Rs. 7,025: Prize distribution Rs. 887 and Bonus Rs. 24,230.

The departments run by the Institute are :

Catering, confectionery, laundry, dyeing, hand embroidery, machine embroidery, bambino and sewing.

Total sales during 1960 amounted to Rs. 13,42,707 which included Catering Rs. 6,34,794; Confectionery 4,90,389; Hand Embroidery Rs. 59,041; Sewing Rs. 31,777; Laundry Rs. 10,026; Dyeing Rs. 12,115; Machine Embroidery Rs. 44,375; Cards Dept. Rs. 151 and Bambino Dept. Rs. 60.039.

YOUNG WOMEN'S CHRISTIAN ASSOCIATION OF INDIA

This is a Christian Association with membership and programme participation open to all women irrespective of race, class or creed. It is linked to similar organisations in 66 countries through affiliation to the World Y.W.C.A.

Address : Parliament Street, New Delhi.

Office bearers :

President : Mrs. Achamma Matthai.

Vice-Presidents : Raj Kumari Amrit Kaur; Mrs. L. Pithavadian; Mrs. Tharyan Verghese; Mrs. R. K. Sirkar; Mrs. V. V. Joshi; Miss D. M. Wilson.

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There are branches in all the large towns and cities. In addition there are Youth groups known as "Y-Deepas."

Holiday Homes are to be found in the hill stations of Ootacamund, Coonoor, Darjeeling, Mussoorie, Naini Tal and Simla.

Hostels are maintained in 29 centres.

The programme is varied to meet the needs and interests of all members of the community. Welfare work has always been promoted in rural areas, vocational training classes and employment bureaus are special features of the programme in local centres as well as recreation and Health education.

CHAIRMEN OF MUNICIPAL COMMITTEES, AHMEDABAD MUNICIPAL CORPORATION

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Note : The Chairman of the School Board Committee had not been selected at the time of going to press.

INDEX NUMBERS OF WHOLESALE PRICES—BY GROUPS AND SUB-GROUPS

[1952-53 = 100]

Period.	All commodities	Food articles.	Liquor and tobacco.	Fuel, power, light and lubricants.	Industrial raw materials.	Manufactures.
1956-57	105·3	102·3	84·3	104·2	116·0	106·3
1957-58	108·4	106·4	94·0	113·5	116·5	108·1
1958-59	112·9	115·2	95·4	115·4	115·6	108·3
1959-60	117·1	119·0	99·5	116·5	123·7	111·7 (R)
1960-61*	124·8	120·0	110·0	119·6	145·4	123·9

CONSUMER PRICE INDEX NUMBERS—WORKING CLASS

[Year 1949 = 100]

Centre.	1957-58.	1958-59.	1959-60.	1961.		
				January.	February.	March.
All-India	112	118	123	123	123	124
Ahmedabad	104	115	124	119	119	119
Bangalore	128	132	142	148	148	149
Bombay	122	130	136	136	137	138
Calcutta	105	109	112	110	111	112
Cuttack	111	117	120	124	125	127
Delhi	112	117	119	122	123	124
Hyderabad City	123	124	131	134	134	134
Jamshedpur	118	123	126	120	119	121
Kanpur	93	101	97	100	102	101
Madras City	117	126	135	146	147	148
Nagpur	113	122	134	131	130	129
Sholapur	110	106	116	120	117	117

* Source of information—Index Number of Wholesale Prices in India (Revised Series) issued by the Office of the Economic Adviser to the Government of India.

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WHO'S WHO IN INDIA

AARON, Manuel, B.Sc. (Allahabad), Chess Champion of India. *b.* Dec., 30, 1935; *Educ.:* B.Sc. from Ewing Christian Coll., Allahabad, 1955. Won the Madras State Chess Championships of 1955, 1957, 1958 and 1959; was second in the Second National Chess Championship held at Poona, 1957. Won the first National Students' Chess Championship held at Madras, 1959; won the third National Chess Championship held at Delhi; works as an officer in the Indian Bank Ltd., Madras. *Recreations:* Chess, Reading. *Clubs:* Madras State Chess Association. *Address:* 10, Ellaiman Colony, Madras 6.

ABDUL, Qadir Syed, B.A., I.A.S., Director-General of Employment & Training and Ex-Officio Joint Secretary, Ministry of Labour & Employment, since 1956. *b.* Dec. 1, 1907; *Educ.:* Muslim Univ., Aligarh; Govt. Arts Coll., Rajahmundry. Joined Govt. Service, Madras, March 1928; served in the Revenue Deptt. in different Districts in Madras State; was also Collector and Dist. Magistrate in three Districts, including Krishna Dist. in Andhra State, 1954–55; Regional Director of Resettlement & Employment, under the Labour Ministry incharge of the Madras region, 1947–54; Leader, Indian delegation to the I.L.O. Asian Technical Conference on Vocational Training for Industry, Rangoon, 1955; Leader, National Productivity Team on Supervisory and Operatives Training to Japan, U.S.A., and W. Germany, Sept.–Nov. 1960. *Address:* 28, Akbar Road, New Delhi.

ABDULLAH, Sheikh Mohamad, ex-Prime Minister, Jammu and Kashmir. *b.* 1905, in Soura, near Srinagar; *Educ.:* Srinagar; Jammu; graduated with distinction from Lahore; M.Sc., Aligarh Univ. Initiated a regular campaign for responsible Government, crystallising in the formation of the Kashmir Muslim Conference which later became the National Conference in 1938; launched the 'Quit Kashmir' movement, 1946, which aimed at complete democratisation of Kashmir; was put in prison; elected Pres., All-India States Peoples' Conference; released, 1947; was the Head of the Emergency Administration, Kashmir; member, Kashmir Delegation from India to the U.N.O.; M.P. for Kashmir till 1952; was detained for 4½ years from Aug. 9, 1953; released, Jan. 8, 1958; detained again, May 1, 1958 under the Preventive Detention Act. *Address:* C/o Soura, P.O. Noushera, Srinagar.

ABID Ali, Deputy Minister for Labour, Govt. of India. *b.* 1900. Joined non-co-operation movement, and Khilafat organisations, 1921; Secy.: Wardha Khilafat and Congress Cttees.; C.P.P.C.C., 1923; joined Bardoli struggle, 1928; General Secy.: B.P.C.C., 1929-34; Congress Reception Cttee., Bombay, 1934; member: A.-I.C.C., for several years now; Bombay Legislative Council, 1949-52; Chairman, Divisional Cttee., Bombay State Transport Corporation; participated in all national struggles; courted jail several times; Trade Unionist since working in Kanpur Mill at the age of 13; among founders of the I.N.T.U.C., 1947; its Vice-Pres.; Pres., Bombay Prov. I.N.T.U.C., 1948-51; represented Indian workers in International Conferences thrice; Leader, Indian Delegation to I.L.O. Conference, Geneva, 1953 and Asian Reg. Conference, Tokyo, 1953, Delhi, 1957; widely travelled. *Address:* Secretariat, New Delhi.

ACHARYA, Bejoy Krishna, B.A. (Hons.) (Econ.) (Calcutta), Indian Ambassador in Czechoslovakia and Rumania, since May 1959; *b.* May 1, 1912; *Educ.:* Calcutta and London Universities. Entered I.C.S., 1936; held charge of several important Bengal districts like Howrah, 24 Parganas, Bakarganj & Darjeeling; served as Dewan of Tripura & Dy. Chief Commissioner, Himachal Pradesh; Deputy High Commissioner for India at Dacca; Indian Minister in Cambodia; Jt. Secy., Ministry of External Affairs. *Recreations:* Motoring; Photography. *Club:* Delhi Gymkhana Club. *Address:* C/o External Affairs Ministry, New Delhi.

ACHUTHAN, K. T., B.A., B.L., Minister for Transport and Labour, Kerala State, since Feb. 1960. *b.* April 1911, *Educ.:* B.A. from the St. Thomas Coll., Trichur; B.L. from Law Coll., Trivandrum. Enrolled as a lawyer at Irrinjalakuda, 1937 and then at Trichur; has been a Councillor, Irrinjalakuda Municipality; General Secy., Cochin S.N.D.P.; member, Cochin Leg. Council and Assembly for three terms; member, Lok Sabha, 1952-57; elected member, Kerala Leg. Assembly, Feb. 1960; a social and political worker. *Address:* Minister for Transport and Labour, Trivandrum, Kerala State.

ADANI, Ratubhai Mulshankar, Minister for Sarvodaya, Co-operation, Cottage Industries, Community Development, Public Works Deptt., Irrigation, Labour, Gujarat State, since May 1, 1960. *b.* at Bhanwad in Halar Dist. Left studies early in 1930 to join Satyagraha Movement; courted imprisonment several times; started constructive work at Tarawada after his release from jail in 1934; went underground in 1942 and was active in the Quit India movement; was C.-in-C., Arazi Hakumat organised in 1947 to liberate Junagadh from Pakistan; elected member, Saurashtra Leg. Assembly in 1951 from Keshod Constituency and appointed Minister for Development and Planning, 1951; Minister for Prohibition, Village Panchayat, and Cottage Industries, Bombay State, 1956-60. *Address:* Sachivalaya, Ahmedabad 15.

ADARKAR, Bhaskar Namdeo, M.A. (Cantab.), B.A. (Bombay Univ.), M.B.E. (1946), Executive Director, International Monetary Fund, Washington, since June 1957 and Indian Minister in Washington since Sept. 1958. *b.* May 18, 1910; *Educ.:* Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Dy. Economic Adviser to the Govt. of India, 1945–49; Member: Indian Tariff Board, June-Nov., 1949 and May 1950—Jan. 1952; Indian Tariff Commission, January 1952 to March 1957; Officer on Special Duty, Ministry of Finance, April–June, 1957; Secy., Reconstruction Cttees., 1941–43; Govt. of India's Delegate to Preparatory Cttee. on Trade and Employment; Havana Conference on Trade and Employment; E.C.A.F.E. and U. N. General Assembly (1959). *Publications:* *Indian Tariff Policy; Devaluation of the Rupee; The Gold Problem: History of the Indian Tariff;* and several official publications. *Address:* I.M.F., Washington.

ADVANI, Pritamdas Bhojraj, M.Sc. Tech. (Manch.), M.I.E. (India), Consulting Engineer and Industrial Adviser; Director: New India Fisheries Ltd.; Bharat Barrel and Drum Mfg. Co. Ltd.; Automobile Products of India Ltd.; J. K. Chemicals Ltd.; Vice-Chairman, All India Manufacturers' Organisation and Indian Council of Foreign Trade. *b.* May 21, 1891; *Educ.:* Hyderabad, Sind & Manch. Univ. Engr., Metropolitan Vickers in their Manchester Works and Bombay till end of 1921 and thereafter Manager, Bombay Region till Aug. 1928; Director of Industries, Govt. of Bombay from August 1928 to Jan. 1944; Chairman, Board of Direction for Technical Education and Industrial Training, Bombay till Oct. 1944; Chairman, Board of Trustees, Victoria Jubilee Technical Institute, Bombay, 1938-48; member, Bombay Legislative Council, 1932-36; on special duty in U.S.A., 1939 in connection with proposal for the establishment of the automobile industry in Bombay; Member of Senate, Bombay University, 1931 to 1945; Member, Central Board of Irrigation and Power; Electrical Commsr., Govt. of Bombay, 1944-51. *Address:* "OCEANA," Netaji Subhas Road, Bombay.

AGARWALA, Amar Narain, Dr., M.A., B.Com., D.Litt., Dean, Faculty of Commerce, and Head, Com. Department, Allahabad Univ. Some time Dean, Faculty of Commerce and Head of the Depts. of Economics and Commerce, Univ. of Sagar, M.P. *b.* July 8, 1917; *Educ.:* K. P. Coll., Allahabad and Univ. of Allahabad; had a brilliant academic career, winning most of the prizes and scholarships including Queen Empress Victoria Jubilee Medal (highest academic distinction, Allahabad Univ.); a leading economist; an expert on social security and economic planning; currently Member: Panel of Economists (Planning Commission), Cttee. of Commerce Edn., Govt. of India; U.G.C. (U.P.), Personnel Plan. Cttee. (U.P.); Pres., Ind. Com. Assn.; Chairman, Ed. Bd., *Indian Jrl. of Econ.*; visiting Res. Prof., Harvard Univ. & M.I.T., 1960-61. His book *Samajvad Ki Ruprekha* recognised the best book in Hindi on Socialism by Sahitya Sammelan (1939) which gave him the Muraraka Prize for it; contributor to learned journals including *Economic Journal* (London) and *International Labour Review* (Geneva); was for some time on deputation in the Labour Dept., Govt. of India; associated with 21 economists in issuing a Manifesto on Government's monetary policy in 1946; edited symposiums on Position and Prospects of India's Foreign Trade with the co-operation of Trade Commissioners and on Indian Labour Problems containing contributions from leading labour experts; Mg. Ed., *Indian Journal of Commerce*, 1947-1951; Member, A.U. Exec. Council, Academic Council and Court; member of various bodies in Rajputana, Bihar, Patna, Lucknow, Vikram, Jabalpur, Sagar, Utkal and other Universities; Secy. (1947-1951) and Founder-Member, Indian Commerce Assoc.; extensively toured China as member of Universities' Delegation and studied educational and economic institutions, 1955; studied Univ. research, edn. and adm. in Europe and America, 1960-61. *Clubs:* Rotary, Gymkhana, Cosmopolitan. *Hobbies:* Journalism, cinema and tennis. *Publications:* *Social Insurance Planning in India; Health Insurance in India; Pessimism in Planning; Socialism without Prejudice,* etc. *Address:* 5, Balrampur House, Allahabad.

AGARWALA, Jagdish Prasad, M.A., B.Com., Banker, Landlord and Millowner. *b.* July 1913, in Uttar Pradesh; *Educ.:* St. John's Coll. Entered business at an early age; Managing Proprietor, Educational Press, Agra; Partner in the Managing Agency of Oriental Publishers (Agra) Private Ltd.; Partner: Gaya Prasad & Sons, Booksellers and Publishers; National Press; Central Manufacturing Co.; Univ. Book Depot; Prasad Bros.; Popular Book Depot, Jaipur; member: League of Help; International Fellowship; Hony. Secy., U.P. Automobile Association; Small Savings Campaign Drive Cttee.; Federation of All-India Printers & Publishers; sponsored the All India Seth Gaya Prasad Memorial Cricket Tournament; Vice-Pres.: National Chamber of Commerce and Industries; Agra Productivity Council; Agra Athletic Assoc.; Agarwala Panchayat; St. John's Coll. Old

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Boys' Assoc.; Joint Secy., Akhil Bharati Seva Samiti, Agra Branch; Trustee, Victoria Higher Secondary School; member: Excise Board. *Publications:* Several Hindi and Economic books including *Rashtra Nirmata*, life sketch of Indian leaders, *Elementary Economics in Hindi for Beginners*, books on Co-operation, Statistics and Transport for M.A. students. *Recreations:* Music, Cricket and Sight-seeing. *Clubs:* Agra Rotary Club; Agra Club Ltd.; Indian Club Ltd. *Address:* Kaya Kunj, Bankey Vilas, Agra.

AGARWALLA, Bhagwati Prasad, Business man mainly in Coal Mining and Refractory Manufacturing. *b.* July 12, 1910; *Educ.;* St. Xavier's Coll., Calcutta. Carried on family business after the death of his father, 1928; has been Pres.: Indian Colliery Owners' Assoc.; Bihar Chamber of Commerce; The Geological Mining and Metallurgical Society of India; attended several I.L.O. Conferences in U.S.A. and Europe as employers' representative from India, 1948-53. *Publications:* Various articles contributed to Newspapers and Journals on Coal Industry. *Clubs:* Rotary Club, Dhanbad; *Address:* P.O. Jharia (Bihar).

AGRAWAL, Madangopal Jodhraj, B.A., LL.B., Deputy Minister for Public Health, Maharashtra, since May 1, 1960. *b.* Oct. 16, 1915; *Educ.:* Nagpur, Courted imprisonment in C.D. Movement, 1932, "Quit India" movement, 1942; Gen. Secy., Nagpur P.C.C. 1947-1951; elected its Pres., 1952; elected M.L.A., M.P. as a Congress candidate, 1952; M.L.A., Bombay, 1957; served on many select cttees. of the legislature either as Chairman or as member; gave evidence before the Dhar Commission and the Fazal Ali Commission regarding reorganisation of States; member, Exec. Council, Nagpur Univ., 1954-57; elected Mayor, Nagpur, 1958; is Pres., Assocn. of Managements of Secondary Schools in Vidarbha Region; elected Gen. Secy., Reception Cttee. of the 64th Session of the Indian National Congress held at Nagpur. *Address:* Bungalow No. A-2, Foreshore Road, Bombay 32.

AGRAWALA, Dr. Vasudeva S., Ph.D., D.Litt., Hindi Writer; Professor, Banaras Hindu University. *b.* 1904; *Educ.:* Banaras Hindu Univ. (1923-27); Lucknow Univ. (1927-31); took Ph.D., 1941 and D. Litt., 1946. Curator, Mathura Museum (1931-39); Curator, Lucknow Museum (1940-45); Supdt., Museums Branch of the Archaeological Survey, Govt. of India, New Delhi (1946-51); Professor, Art and Architecture, Banaras Hindu Univ. (1951-59); General Editor, *Prakrit Text-Society Series; Nepal Endowment Sanskrit Publications Series, Banaras Hindu Univ. Publications: Catalogue of the Mathura Museum; India as Known to Panini; Harshacharita—A cultural Commentary; Jayasis' Padmavata—A Commentary; Bharata-Savitri—A Running Cultural Commentary on the Mahabharata; Kadambari—a Cultural Commentary; Markandeya Purana—A Study.* *Address:* Professor, Banaras Hindu University, Banaras 5.

AHMAD, Mr. Justice Khaleel, B.Sc., LL.B., Bar-at-Law, Judge, Patna High Court. *b.* April 4, 1907; *Educ.:* Patna, Aligarh and U.K. Practised first in the Dist. Court, Patna and then at the Patna High Court; raised to the Bench, 1951. *Recreations:* Golf, bridge. *Clubs:* The Bankipore Club, Patna. *Address:* 3, King George Avenue, Patna 1.

AHMAD, Muzaffar, Member, National Council of Communist Party of India; member of the Secretariat, West Bengal State Council, C.P.I. *b.* 1889; *Educ.:* Noakhali Zilla School and Bangabasi Coll., Calcutta. Member, Communist Party of India since its inception, 1921; Editor of Bengali daily *Navayug*, 1920; also edited Bengali weekly *Ganavani* (1926-28); convicted in Kanpur Communist Conspiracy Case, 1924; convicted in Meerut Communist Conspiracy Case (1929-33) for transportation for life, but reduced to three years' R.I. by Allahabad High Court. *Publications:* A Treatise on Agrarian Question in India, 1937; Reminiscences of Poet Nazrul Islam in Bengali (1959); contributes articles to papers. *Address:* 64A, Lower Circular Road, Calcutta 16.

AHMED, Dr. Rafiuddin, D.D.S. (Iowa, U.S.A.), F.D.S., Royal Coll. of Surgeons of England, Minister in charge of Animal Husbandry, Community Development and Extn. Services, Govt. of West Bengal. *b.* Dec. 24, 1890; *Educ.:* Calcutta Univ.; State Univ. of Iowa, U.S.A. Founder & Principal, Calcutta Dental Coll. and Hospital; Councillor and Alderman, Calcutta Corporation; member, West Bengal Leg. Assembly. *Publications:* Author of *Students' Handbook of Operative Dentistry.* *Recreation:* Swimming. *Clubs:* Calcutta Club. *Address:* 103, Ballygunge Place, Calcutta 19.

AIYANGAR, K. R. Padmanabha, M.A., B.L., M.B.E. (1943), Chairman, Tariff Commission, since Sept. 1959. *b.* March 12, 1905; *Educ.:* Madras Univ. Entered I.A. & A.S. April 1929; served A.G.'s Offices in Madras, Lahore and Bombay, 1929-34 and in Audit & Account Deptt. of late G.I.P. Rly., B.B. & C.I. Rly. and N.W. Rly., 1934-39; selected to the Finance and Commerce Pool of the Govt. of India, July 1939; Under Secy. and later Dy. Secy., Finance, Govt. of India, from Aug. 1943; Secy., Central Pay Commission, 1946; Joint Secy., Ministry of Finance, May 1947; member, Central Board of Revenue, Aug. 1948; Joint Secy. and Financial Adviser to Commerce & Industry & Production Ministries and Director of Govt. Companies like Sindri Fertilizers, etc., July 1951; Chairman, Jute Enquiry Commission, 1952-53; Joint Secy., Deptt. of Company Law Administration, Aug. 1955; member, Company Law Amendment Cttee., 1957. *Clubs:* Delhi Gymkhana Club. *Address:* Second Floor, Eros Theatre Building, Churchgate, Bombay-1.

AIYAR, B. S. Doraswamy, M.A., B.Sc. (Hons.), D.I.I.S.C. (Tech.), A.M.I.E., Master of the Mint, India Government Mint, Alipore, since 1957. *b.* July 9, 1914; *Educ.:* Mysore and Annamalai Univs., 1939-40; Indian Institute of Science, Bangalore, 1942. Entered as a probationary Engineer (First Indian to enter the Hindusthan Aircraft in the Design Section), 1941; Officer-in-Charge, Electrical Planning and Development Projects, E.G. 14, 19 and E.G. 18 at Kirkee Ammunition Factory, 1941-46; Technical Officer in-Charge of installations and communication facilities, Wellington and Gaya Air Ports, 1946-47; Asstt. Mint Master, 1947; Officer-in-Charge of construction of New Alipore Mint (1952); Deputy Mint Master, 1952-57; piloted the manufacture of Metric Standards of Weights and Measures. *Recreations:* Tennis, Cricket, Table Tennis and Billiards. *Address:* 'Mint House', I.G. Mint, Alipore, Calcutta 27.

AIYAR, T. L. Venkatarama, B.A., B.L., Chairman, Law Commission, Ministry of Law, Govt. of India, since Dec. 20, 1958. *b.* Nov. 25, 1893. *Educ.:* B.A., Madras Christian Coll. and B.L., Madras Law Coll., Univ. of Madras, Lecturer in Indian History, Madras Christian Coll., 1914-16; practised as Advocate, Madras High Court, from 1917; enrolled as Advocate, Supreme Court of India, 1950; appointed as Judge, Madras High Court, July 7, 1951; Judge, Supreme Court of India, Jan. 4, 1954—Nov. 24, 1958; Vice-Pres., Music Academy, Madras. *Publications:* Articles on Law, Sanskrit literature and philosophy and music. *Recreations:* Music. *Club:* Rasika Ranjani Sabha (President). *Address:* No. 5, Safdarjang Road, New Delhi.

AJWANI, Lalsingh Hazarisingh, M.A., Ellis Scholar and Gangadas Scholar, Sindhi Writer; Principal and Professor of English, D. & H. National and W. A. Science Coll., Bandra. *b.* July 17, 1899; *Educ.:* D. J. Sind Coll., Karachi; Univ. of Bombay; first class first in B.A. in English, 1919. Professor of English for over forty years at several colleges; Chairman, Board of Studies in English Literature, Univ. of Bombay; Convener, Sindhi Advisory Board, Sahitya Akademi, Delhi. *Publications: Immortal India;* and Sindhi books *Vichar, Umang*, etc. *Address:* D. & H. National and W. A. Science College, College Road, Bandra, Bombay 20.

AKILANDAM, P. V. *alias* **Akilan,** Tamil Novelist and Short Story Writer. *b.* Feb. 7, 1923; *Educ.:* Maharajah's Coll., Pudukkottai. Participated in the freedom movement, 1941-44; took to writing; takes active part in social uplift; attends college meetings as a speaker etc.; broadcasts on radio; his novels and stories are being filmed for the Tamil screen; awarded first prize for his novel by the Tamil Academy on behalf of the Madras Govt. *Publications:* 25 books (short stories, novels, literary articles, plays, juvenile literature and translations); contributes short stories and serial novels to *Kalaimagal, Kalki* and other leading journals in Tamil Nad; writes screen scripts for the motion pictures. *Recreations:* Reading; travel. *Address:* 1/164, Lloyds Road, Madras 14.

AL. Valliappa, Writer of children's books in Tamil; Special Officer for Children's books, Southern Languages Book Trust, Madras; Pres., Children's Writers' Assoc., Madras. *b.* Nov. 7, 1922; *Educ.:* Pudukottai, Madras State. Some time Editor, *Poonjolai*, a monthly Tamil magazine for boys and girls; has been working for the growth of children's literature for the past 20 years. *Publications: Malarum Ullam*, a collection of 135 poems for children; got the Central Govt. award and also the Madras State award 1957; got the Madras State award for his story book for children *Nalla Nanbarkal*, 1955; Biographies: *Periyor Vazhvile, Chinnanchiru Vayadil*, 1958. *Address:* 10, Vaidyaramier Street, Madras 17.

ALENCAR, His Excellency Jose Cochrane de, LL.B. (Lond.), Member of the Royal Economic Society, O.B.E., Ambassador Extraordinary & Plenipotentiary of Brazil to India, since Oct. 1, 1956. *b.* Nov. 19, 1898 at Rio de Janeiro; *Educ.:* Germany, Switzerland and England. Second Secy., Oslo, July 1923-Feb. 1938; First Secy., Feb. 1938—April 1946; Consul General, San Francisco, April 1946—Aug. 1948; Envoy Extraordinary & Minister Plenipotentiary, New Delhi, Aug. 1948—Nov. 1949; Canberra, Nov. 1949—Oct. 1954; Stockholm, Oct. 1954—March 1956; Ambassador Extraordinary & Plenipotentiary, Karachi (Pakistan), March to Oct. 1956; recipient of many decorations amongst which is the Grand Cross of the Order of Malta. *Clubs:* St. James Club, London; Jockey Club, Rio de Janeiro; Delhi Golf Club, New Delhi. *Address:* Brazilian Embassy, 8, Aurangzeb Road, New Delhi.

ALFOZAN, H.E. Mr. Yusuf Abdulla, Ambassador of Saudi Arabia in India. *b.* October 12, 1913; *Educ.:* Bombay and Arabia. *Address:* 6, Tilak Marg, New Delhi 1.

ALI, Naushad, Music Director of Indian films. *b.* Dec. 25, 1919; *Educ.:* Primary education at Lucknow; took training under the late Ustad Ghurbat Ali, Ustad Yusuf Ali and Ustad Baban Saheb. Joined films as a pianist and later turned Asstt. Music Director; worked with several companies including Film City, Ranjit Movietone, Banatwala's Recording Co. in various capacities; joined as Music Director in Bhawanani Productions' "Prem Nagar"; has so far directed music in "Dard", "Dillagi", "Dulari", "Jadoo", "Dastan", "Ratan", "Andaz", "Aan", "Amar", "Chandni Raat", "Mela", "Babul", "Shabab", "Baiju Bawara", "Uran Khatola", "Mother India", "Sohni Mehwal", "Nai Duniya", "Sanjog", "Jeevan", "Deedar", and "Mughale Azam", "Kohinoor" and forthcoming "Son of India", "Ganga Jamuna", etc. *Recreations:* Badminton. *Clubs:* Bombay Angling Assn. *Address:* "Ashiana", Carter Road, Bandra, Bombay 50.

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ALI, Sadiq, B.A.; M.P. (Rajya Sabha), Genl. Secy., Indian National Congress, since 1958. *b.* 1911; *Educ.:* Allahabad Univ., Permanent Secy., All India Congress Cttee., 1938-48; member Indian Parliament, 1950; member, Rajya Sabha, 1958; takes keen interest in social service. *Publications: Know Your Country; Congress Ideology and Programme; Culture of India; General Elections,* 1958. *Address:* 7, Jantar Mantar Road, New Delhi.

ALI, Mr. Justice Syed Murtaza Fazl, B.A. (Hons.), B.L., Judge, High Court, Jammu and Kashmir State, since April 8, 1958. *b.* Dec. 20, 1920. *Educ.:* St. Joseph's Convent, Patna; Patna Univ., Patna; Muslim Univ., Aligarh. Enrolled as an Advocate, Patna High Court. Nov. 7, 1944, and Federal Court, Dec. 1949; worked on the panel of lawyers for the State of Bihar in the Patna High Court from 1950; conducted important cases in the High Court and Supreme Court on civil, criminal, constitutional and revenue side. *Publications:* Ten Years' Questions and Answers of the Patna University on Hindu Law, Mohammadan Law, Contract Act, Torts and Criminal Law: *Recreations:* Reading of books; composition of Urdu Poems. *Clubs:* Amarsingh Club, Srinagar and Jammu; Patna New Club, Patna. *Address:* 2, Silk Factory Road, Srinagar.

ALI YAVAR JUNG BAHADUR, H. E. Dr. Nawab (Mirza Ali Yar Khan), B.A., Hons. (Oxford), Padma Bhushan (1959), Ambassador of India to France, since Feb. 1961. *b.* Feb. 16, 1905; *Educ.:* Nizam Coll., Hyderabad-Dn.; Queen's College, Oxford. Director of Information; then Secy. to Govt., Constitutional Affairs, and Home, Hyderabad Govt., 1934-45; Vice-Chancellor, Osmania Univ., 1945-46; Minister for Constitutional Affairs, Local Govt., Health and Education, 1946-47; delegate to U.N., 1946, 1950, 1952 and 1953 and Deputy Chairman of the Indian Delegation to the 1954, 1955, 1956, 1957 and 1960 Session; Vice-Chancellor, Osmania University, 1948-52; Indian Ambassador to Argentina and Minister Plenipotentiary to Chile, 1952-54; Indian Ambassador to Yugoslavia and Greece and Minister Plenipotentiary to Bulgaria; Chairman, U.N. Ad Hoc Cttee. for SUNFED, 1956; Doctor of Laws Honoris Causa, Osmania Univ., 1956; Ambassador to Egypt and Minister Plenipotentiary to Lebanon, 1954-58. *Publications: Hyderabad in Retrospect. Address:* Indian Embassy, Paris.

ANSARI, Abdul Qaiyum, Member, A.I.C.C., Pres., Bihar Pradesh Congress Cttee. *b.* July 1, 1905, at Dehri-on-Sone, Bihar; *Educ.:* Sasaram and Dehri High Schools; Aligarh Muslim, Calcutta and Allahabad Univs. Joined the N. C. Movement, 1920; courted jail several times in the freedom struggle; started the Momin Movement to counteract the communal propaganda and the two nation theory of the Muslim League, 1938; Pres.: All India Momin Conference, since 1947; Working Pres., All India Handloom Weavers' Congress; elected M.L.A., Bihar, 1946, 1952; Member, Advisory Cttee. on Fundamental Rights, Minorities and Excluded and Tribal Areas of the Constituent Assembly of India, 1947-50; Minister for Public Works, Cottage Industries, Relief and Rehabilitation and Backward Muslim Communities' Welfare, Bihar, 1946-52. Minister for Public Works, Govt. of Bihar, 1955-57; Pres., Indian Muslim Youth Kashmir Front; Editor, *Tahzeeb,* an Urdu Monthly; Fellow, Patna Univ., 1940-51; first Momin to be a Fellow of Univ. and a Minister in India. *Address:* P. O. Sadaquat Ashram, Patna.

ALUWIHARE, H. E. Sir Richard, K.C.M.G., C.B.E., High Commissioner for Ceylon in India, since June 1957. *b.* 1895; *Educ.:* Received his early education at Trinity Coll., Kandy. Went to France joining the Royal Fusiliers, Public Schools Battalion, 1915; was wounded while on active service in France and after convalescing in England returned to France as Welfare Officer with the Indian Army; returned to Ceylon and was appointed to Ceylon Civil Service, 1919; held several high administrative posts; Inspector-General of Police, 1947-56; while holding the post of Inspector-General of Police, was on several occasions acting Permanent Secretary to the Ministry of Defence and External Affairs; was also Chairman, Ceylon Civil Service Assoc. and Pres., Ceylon Arts Council; after retirement appointed Chairman, Ceylon Prohibition Commission. *Address:* 224, Jor Bagh, New Delhi.

ALVA, Shrimati Violet, M.A., LL.B., Deputy Minister for Home Affairs, Govt. of India, since April 1957. *b.* April 24, 1908; *Educ.:* St. Xavier's Coll.; Govt. Law Coll., Bombay. Jailed with her five months old son in the "Quit India" Campaign (1943); first Indian woman to be deputed abroad—on the Indian Press Delegation to Egypt (1950); M.L.C., Bombay (1947-52); first woman member elected to the standing Cttee. of the A.I.N.E.C. (1952); elected to the Exec. Cttee. of the Congress Party in Parliament (1953 and 1955); member: Central Board of Film Censors (1954-57); Public Accounts Cttee., Indian Parliament (1954-55); Secy., Indian Women's Cultural Delegation to Soviet Union (1954); Vice-Pres. for India of the International Federation of Women Lawyers, from 1953; Observer on behalf of the International Federation of Women Lawyers for the UNESCO Ninth Session at New Delhi, 1956; Indian delegate, U.N. Seminar on Human Rights, Ceylon, 1959. *Address:* 2, Queen's Court, Oval, Bombay 1; 3, Asoka Road, New Delhi.

ALZATE, His Excellency Manuel A., Ambassador of the Philippines to India, since Nov. 15, 1958. *b.* Jan. 1, 1896, in Cervantes, Ilocos Sur; *Educ.:* Philippine Coll. of Commerce; Philippine Law School, Manila. Member, Philippine Bar; enrolled in the U.S. Supreme Court and Dist. Court of Columbia, Washington; Philippine Consul-General to: Australia and New Zealand, 1947-48; Hawaiian Islands and Guam, 1948-51; First Secy. and Charge d'Affaires, Philippine Legation in Rome, Italy, 1951-52; Career Minister, (Charge d'Affaires), Rome, Italy, 1953-54; Env. Ext. and Min. Pleni. to Rome, Italy, 1954-56; concurrently Envoy Extr. and Min. Pleni. to Vienna, Austria, 1955-56; Amb. to Italy, 1956; Amb. and delegate to the 11th Session of the U.N. General Assembly, 1956-57; Amb. Ext. & Pleni. to Pakistan, Oct. 18, 1957; accredited to India as Philippine Ambassador Extraordinary and Plenipotentiary, since Nov. 15, 1958 and concurrently accredited to Ceylon as Minister, since March 6, 1959, and accredited to Nepal also as Minister since August 1960; attended the following international conferences: Delegate: 9th International Prison Congress, London, Aug. 1925; South Pacific Regional Air Conference of the Provisional International Civil Aviation Organization, Melbourne, Australia, Feb. 1947; 19th Session, Cttee. on Commodity Problems, F.A.O., 1952; Conference on Italo-Asiatic Trade Relations with International Organizations, 17th Session, June 1953, 18th Session, Nov. 1953, 19th Session, Dec. 1953, 20th Session, Sept.-Oct. 1954, of F.A.O. Cttee. on 17th (June 1953), 18th (Nov. 1953), 19th (Dec. 1953), 20th (Sept.-Oct. 1954) Sessions, F.A.O. Council; Observer, 15th (June 1952) and 16th (Nov. 1952) Sessions, F.A.O. Council; Chief Delegate, 7th Session, F.A.O. Conference, 1953; Vice-Chairman, Philippine Delegation to the Conference of the ECAFE, at Lapstone, Australia, 1948; Chairman, Philippine Delegation to: 9th International Congress on Agricultural Industries, 1952; Conference of the International Civil Aviation Organization, 1952; member: First National Assembly, 1935-38; 2nd National Assembly, 1938-41; Chairman, Cttee. on Foreign Relations of the National Assembly, 1935-41; Co-Chairman, Parliamentary Goodwill Mission to Japan and China, 1936; awarded the 'Diploma Magistrale' and the 'Gran Groce Dell Ordine Al Merito Della Republica'—Italy's highest decoration, by the Italian Govt., 1957. *Address:* 201, Claridge's Hotel, New Delhi.

AMRIT KAUR, Rajkumari, M.P. (Rajya Sabha), Ex-Minister, Govt. of India. *b.* Feb. 2, 1889, at Kapurthala Palace, Lucknow; *Educ.:* in England. Foundation Member, All India Women's Conference; Member, Advisory Board of Education, Govt. of India for many years; Secretary to Gandhiji for 16 years; President of World Health Assembly in 1950; Member, Lok Sabha and Minister of Health, Govt. of India, 1947-57; Chairman, Foundation Member, Indian Red Cross and Chairman, since 1950; Vice-Chairman, Board of Governors, ; League of Red Cross Societies, since 1950; awarded Count Bernadotte gold medal by the League of Red Cross Societies in 1957 and gold medals by National Red Cross Societies of Austria, Belgium, Denmark, France, German Fed. Republic, Greece, Iran, Japan, Norway, Poland, Portugal, Sweden & U.S.S.R.; Chairman, Exec. Cttee., St. John Ambulance Assocn. and Chief Commr., St. John Ambulance Brigade, since 1948; Indian Council of Child Welfare; Ex-Chairman, Rajkumari Sports Coaching Committee; Trustee, Gandhi Smarak Nidhi; Hon. degrees of Letters, Law and Humane Letters from Univs. of Delhi and Princeton, Smith College, Western College, MacMurray College, Jacksonville, of U.S.A.; Hon. Fellow, American Public Health Assoc. *Permanent Address:* "Manor Ville," Summer Hill, Simla 5.

ANAND, Mulk Raj, B.A. (Hon.), Ph.D., Author, Novelist and Critic; Editor, *Marg* Magazine. *b.* December 12, 1905; *Educ.:* Punjab University, Universities of London and Cambridge. Lecturer in literature and philosophy to the London County Council adult education schools, 1939-42; Editor of various magazines; Leverhulme Fellow for research in Hindustani literature, 1940-42. Member: National Book Trust of India; Sahitya Akademi. *Publications: Novels: Private Life of An Indian Prince, Seven Summers, The Big Heart, The Sword and the Sickle, Across The Black Waters, The Village, Two Leaves And A Bud, Coolie, Untouchable, Tractor and the Corn Goddess, The Barber's Trade Union.* Essays: *Apology for Heroism, Lines Written to an Indian Air, Hindu View of Art, Persian Painting,* etc. *Address:* 25, Cuffe Parade, Colaba, Bombay.

ANANT, Ganeshram, M.A., LL.B., Minister for Social Welfare, Co-operation, Local Self-Govt. (Rural), Madhya Pradesh, since April 15, 1957, *b.* Sept. 23, 1923; *Educ.:* Govt. High School, Bilaspur, S.B.R. Arts Coll., Bilaspur; Morris Coll., Nagpur; Univ. Coll. of Law, Nagpur; Secy., Bhartiya Depressed Classes League, Mahakoshal, since 1955; member, Executive of Harijan Education Society, M.P., since 1954; acted as Chairman, Reception Cttee., All-India Harijan Convention, 1952; elected M.L.A., Madhya Pradesh on Congress ticket from Janjgir-Pamgarh Constituency, 1951; Dy. Minister for Agriculture, 1951-56; Minister for Social Welfare, new M.P., Nov. 1, 1956-57; returned unopposed to M.P. State Assembly from Masturi Constituency, March 1957; re-appointed Minister, M.P. *Publications:* Has written for *Sahitya Sandesh* of Agra; *Saket Sant; Chhayavad Aur Rahasyavad,* etc. *Recreations:* Bridge, Music, etc. *Address:* Shirin Manzil, Bhopal.

ANDERSON, George Lloyd, B.A., Managing Director, Firestone Tyre & Rubber Co. of India Private Ltd., since July 1959. *b.* Jan. 12, 1908; *Educ.:* Miami Univ., Oxford, Ohio, U.S.A.; took B.A., June 1928. Spent at Firestone Plants in Akron, Ohio, U.S.A., working in various departments securing broad background and comprehensive knowledge of Firestone tyres, tubes and other rubber products, 1928-31; engaged in setting up manufacturing processes, Firestone: Buenos Aires, Argentina, 1931-32; Bilbao, Spain, 1933-34; Basle, Switzerland, 1935-39; Production Manager, Firestone, Bombay, 1940-Oct. 1945; Plant Director, Firestone, Bombay, Nov. 1945 to June 1959. *Recreations:*

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Walking, Reading. *Clubs :* Willingdon Sports Club, Royal Bombay Yacht Club, Rotary Club of Bombay. *Address :* "Datta Prasad", Camadia Cross Road, Bombay 26.

ANEY, Dr. Madhao Shrihari, B.A., B.L., M.P., Ex-Governor of Bihar. *b.* August 29, 1880; *Educ. :* Morris Coll., Nagpur. Joined Bar 1908 at Yeotmal; Vice-Pres., Indian Home Rule League; Pres., Berar Provincial Congress Cttee., 1921-30; joined C.D. Movement; Ag. Pres., Indian National Congress, 1933; M.L.A. for Berar, 1924-26, 1927-30 and 1935; member, Congress Working Cttee., 1924-25 and 1931-34; member, Nehru Cttee.; Vice-Pres., Responsivist Party; General Secy., Congress Nationalist Assembly Party, 1935; member, Viceroy's Executive Council (Indians Overseas), 1941-43; Representative of the Govt. of India in Ceylon, Aug. 1943—July 1947; Pres., Vaidic Sanshodhan Mandal, Poona, 1944; Memebr, Constituent Assembly of India, July 1947—Jan. 1948; Governor of Bihar, 1948-June 1952; Member, Lok Sabha since 1959. *Publications :* Collection of writings and speeches in Marathi and English. *Address*; C/o M. R. Bobde, Advocate, Civil Lines, Nagpur 1.

ANJARIA, Jashwantrai Jayantilal, M.A. (Bombay), M.Sc. (Econ.) (Lond.), Adviser, Planning Commission. *b.* July 15, 1908; *Educ. :* Bombay and London. Prof. of Economics, Wilson Coll., 1938-39; Reader in Economics, School of Economics and Sociology, Bombay, 1939-46; Asstt. Chief, International Monetary Fund, 1946-48; Director of Monetary Research, Reserve Bank of India, Bombay, 1948-50; Pres., annual conference of the Indian Society of Agricultural Economics, 1955; Pres., Indian Economic Assoc., 1959. *Publications : Grounds of Political Obligation in the Hindu State; Indian Rural Problem; Price Control and Food Supply in India; Essay on Gandhian Economics; War and the Middle Class in India. Address :* C/o Ministry of Labour, Govt. of India, New Delhi.

ANTHONY, Frank Reginald, B.A. (Nagpur Univ.), M.P. and Pres., Anglo-Indian Assoc.; Viceroy's Gold Medalist in English, Univ. Prizeman and Scholar, Bar-at-Law of the Inner Temple, London. *b.* Sept. 25, 1908; *Educ. :* Nagpur Univ. and at the Inner Temple, London. Leading criminal lawyer in Madhya Pradesh; elected President-in-Chief of the Anglo-Indian and Domiciled European Association, All-India & Burma, in 1942, in succession to the late Col. Sir Henry Gidney; nominated to the Central Legislature in 1942; renominated in 1946; member of the Viceroy's National Defence Council; member, Sapru Conciliation Cttee., etc.; member, Central Pay Commission; one of India's Delegates to the General Assembly of the United Nations in 1946; one of India's representatives to the Commonwealth Parliamentary Conference held in 1948; member of the Constituent Assembly of India; nominated to the Lok Sabha under special provision in the Constitution for the Anglo-Indian Community, March 1952, again April 1957; represented India at the Commonwealth Parliamentary Conference, New Delhi, Dec., 1957. *Address :* New Delhi and Jabalpur.

ARMSTRONG, James Ridley, A.M.I. Mech. E., General Manager, Richardson & Cruddas Ltd., Engineers, Bombay and Madras. *b.* June 18, 1902, at Bosworth, Leicestershire; *Educ. :* Latymer Upper School, London; Kilmarnock Technical Coll., Ayrshire; Heriot Watt Coll., Edinburgh; Pupil with The Kilmarnock Engineering Co. Ltd., Kilmarnock, Scotland. Joined Richardson & Cruddas and came to India, 1925; became Partner, 1946; and General Manager, 1950; Officer in Royal Artillery A.F. (I), 1926-30; Officer Commanding, Royal Engineers A.F. (I), Bombay, 1939-40. *Clubs :* Royal Bombay Yacht Club; Bombay Gymkhana Ltd. *Address :—Residence :* B-3, Mafatlal Park, Warden Road, Bombay 26; *Office :* Byculla Ironworks, Bombay 8.

ATAL, H.E. Raja Jai Kumar, B.A. (Hons.) (Oxon.), I.C.S., Indian Ambassador in Turkey, since 1959. *b.* Jan. 19, 1914; *Educ. :* Winchester and Balliol Coll., Oxford-B.A. (Hons.), 1936. Joined I.C.S., 1937; Deputy Commissioner, Yeotmal, Nagpur, Chanda and Saugor, 1937-46; Private Secy. to Maulana Abul Kalam Azad, Dy. Secy., Ministries of Education, Transport and External Affairs, 1946-48; Dy. High Commsr. to Pakistan, 1952-54; Minister, Indian Embassy, Washington, 1954-56. *Recreations :* Tennis, riding, polo and big game hunting. *Clubs :* Delhi Gymkhana. *Address :* Atal Ban, Jaipur; Indian Embassy, Ankara, Turkey.

ATMARAM, Dr., D.Sc., F.N.I., F.S.G.T., F.I.C., Padma Shri (1959), Director, Central Glass & Ceramic Research Institute, since 1952. *b.* Oct. 12, 1908; *Educ. :* Allahabad Univ.; F.N.I., 1953; F.S.G.T., 1954; F.I.C., 1952. Joint Dir., Central Glass & Ceramic Research Instt., 1949-Jan. 1952; member: Indian National Commission for Co-operation with UNESCO, 1957; Reviewing Cttee. of the Indian Institute of Technology, Kharagpur, 1958; Indian Scientists' Delegation to U.S.S.R.; Pres., Indian Ceramic Society, 1952-54; Chairman, Glassware Sectional Cttee., Indian Standards Institution, 1954; Chairman, Ceramicware Sectional Cttee., Indian Standards Institution, 1956; Specialist Member from India on the Commission on the Chemistry of High Temperatures of the International Union of Chemistry, France; First recipient: Shanti Swarup Bhatnagar Medal for 1959. *Publications :* Has published about 80 papers on glass and ceramic subjects. *Address :* Director's Bungalow, Central Glass & Ceramic Research Inst., P.O. Jadavpur University, Calcutta-32.

ATREYA, Dr. Bhikhan Lal, M.A., D. Litt. Padma Bhushan (1957), Knight Commander (Italy, 1949), etc., Philosopher and writer; Hon. Director, Indian Institute of Human Relations, Delhi. *b.* Sept. 24, 1897; *Educ. :* Town School, Saharanpur; Govt. High School, Muzaffarnagar; Banaras Hindu Univ.; Coll. of Science, Calcutta Univ. Served the Banaras Hindu Univ. 1923-57; as Birla Visiting Prof. of Indian Philosophy and Culture, visited Thailand, China, Japan, U.S.A., England, Poland and several other European countries, 1948, 1951, 1952 and 1954; presided over the Indian Philosophical Congress, 1958; member: Editorial Board, Great English Indian Dictionary, etc.; Indian delegate to: Second World Buddhists Conference, Japan, 1952; World Religion Conference, Shimizu City, Japan, 1954. *Publications : Shankar's Doctrine of Maya* (Hindi); *The Philosophy of Yogavasistha; Sri Vasistha Darshanam* (Sanskrit); *The Spirit of Indian Culture, An Introduction to Parapsychology,* etc. *Address :* Atreya Niwas, P.O. Hindu University, Varanasi 5.

AUNG SAN, Her Excellency Madam (Maha Thiri Trudhamma Daw Khin Kyi), Ambassador Extraordinary and Plenipotentiary of Burma to India, since July 1960. *b.* April 16, 1911. Member of Parliament, 1947-48; Chief Commr., Burma Girl Guides Assoc.; Dir., Junior Red Cross; Lady Supdt.-in-Chief, Burma Ambulance Brigade; Vice-Pres., Ramakrishna Mission Hospital & Library; Leader, Burmese delegations to the W.H.O. Regional Conferences, New Delhi, 1949 and Colombo, 1950; elected Pres., W.H.O. Regional Conference, Colombo, 1950; led Burmese delegation to World Health Assembly, Geneva, 1950, '51 and '52; has travelled widely in Europe, the Far East and the U.S.A. on study tours and goodwill missions; awarded Mother of Burma from U.S.A., 1950, Maha Thiri Thudhamma, 1951; Yugoslav Star Class II, 1955, Noble Order of the Crown of Thailand Class II, 1955; intimately connected with many social and cultural organisations of Burma. *Address :* No. 109/48, Diplomatic Enclave, New Delhi.

AYYANGAR, M. Ananthasayanam, B.A., B.L. (Madras), Speaker, Lok Sabha, since March 8, 1956; Advocate. *b.* Feb. 4, 1891 at Thiruchanoor, Chittoor Dist.; *Educ. :* Devasthanam High School, Tirupati; Pachaiyappa's Coll. and Law Coll., Madras. Member: Fiscal Commission; Constituent Assembly of India; Steering Cttee. of Indian Constituent Assembly; Andhra P.C.C.; A.I.C.C.; Central Advisory Board of Education; Dy. Speaker, Lok Sabha; Chairman: Criminal Tribes Enquiry Cttee.; Estimates Cttee., 1950-54; Pres.: Harijan Sevak Sangh; D.C.C., Chittoor; Renaissance Society of India; Bar Assoc., Chittoor; Indian Assoc. for a World Federal Govt.; Pres., Constitution Club; courted jail several times during freedom movement; conferred "Doctorate of Literature" by Shri Vaishnava Theological Univ., Brindavan, 1954; Leader, Parliamentary Delegation to China, 1956; re-elected Speaker, May 1957. Elected Chairman, Commonwealth Parliamentary Association, 1957. *Publication : Our Parliament. Special Interests :* Study and propagation of Sanskrit and Indian Culture; social welfare work; music. *Address :* Tirupati, Andhra.

AYYAR, G. Venkateswara, B.A. (Hons.), I.C.S., Secy., Ministry of Transport & Communications (Deptt. of Transport), New Delhi, since Sept. 26, 1960. *b.* Feb. 19, 1905; *Educ. :* C.M.S. Coll., Kottayam; Maharajah's Coll., Trivandrum; London Univ. Joined I.C.S., 1930; Chief Presidency Magistrate, Madras, 1941-44; Secy., Board of Revenue, Madras, 1944-46; Joint Secy., Revenue Deptt., Madras, 1946-47; Secy., 1947-48; Special Officer, June to July 1948; Secy., 1948-49; Administrative Officer, Cochin Port, 1949-51; Chairman, Madras Port Trust, 1951-59; Member, Board of Revenue, Madras, 1959-60. *Clubs :* Gymkhana Club, Madras; Madras Race Club, Madras; Cosmopolitan Club, Madras. *Address :* New Delhi.

AZAD, Harbans Singh, M.A. (Econ.), LL.B., Hons. in Punjabi, Speaker, Jammu & Kashmir Legislative Assembly, since Aug. 1960. *b.* Sept. 24, 1920; *Educ. :* B.A., Srinagar; M.A., LL.B., Aligarh, 1943; Hons. in Punjabi, 1944. Asstt. Secy., Relief and Rehabilitation in Emergency Administration, 1947-48; Member: Constituent Assembly, 1951-57; Constitution Drafting Cttee., 1951-57; Basic Principles Cttee., 1951-53; Finance Cttee., 1953-57; Parliamentary Secy. to Deputy Prime Minister (Home, Law and Order), 1951-53; Senior Member, Panel of Chairmen, 1953-56; Deputy Speaker, 1956-57; elected member to 1st Leg. Assembly from Baramulla, 1957; Minister of State for Forests, 1957-59, Home, Law and Order, Information and Education, 1959-60; member, J. & K. Univ. Senate and Univ. Syndicate, since 1956. *Publications :* Four books in Punjabi. *Recreations :* Reading current affairs, books of historical interest. *Address :* Kanli Bagh, Baramulla.

BACHCHAN, Harbans Rai, M.A. (Alld.), Ph.D. (Cantab.), Officer on Special Duty (Hindi), Ministry of External Affairs, New Delhi, since Dec. 1955. *b.* Nov. 27, 1907; *Educ. :* Allahabad, Benares and Cambridge. Lecturer in English, Univ. of Allahabad, 1942-52; Research student at the Univ. of Cambridge (U.K.), 1952-54; Producer, All India Radio (Allahabad), 1955; is a popular Hindi poet; has been writing since 1929. *Publications :* Author of about 25 books some of which are *Madhushala* (1935) (which has been translated into English as *House of Wine* by Marjorie Boulton); *Nishani mantran* (1939) (collection of songs); *Bengal Ka Kal* (1943) (which has been translated into Bengali by Bhupendra Nath Das); *Khadi Ke Phul* (1948) (Tributes to Mahatma Gandhi); *Milan Yamini* (1950); *Macbeth* (1957) (Hindi translation in blank verse); *Arti Aur Angare*

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(1958), (collection of lyrics); *Jan-Gita* (Translation of *The Gita* into Avadhi—Doha-Chaupai. 1958; *Buddha-Aur-Nachghar* (collection of poems in free verse), 1958; *Othello* (1959) (Hindi translation in Blank verse). *Address:* 13, Willingdon Crescent, New Delhi 11.

BADKAS, Ganpati Baliram, M.A., LL.B., Vice-Chancellor, Nagpur Univ. Ex-Judge, Bombay High Court. *b.* Aug. 14, 1901; *Educ.:* Nagpur. Started practice at Wardha, 1925; appointed Public Prosecutor, 1938; resigned, 1942; shifted to Nagpur for practice in the High Court, 1950; Part-time lecturer in law, Univ. Coll. of Law, Nagpur, 1951-54; Principal, Law Coll., 1954-56. *Recreations:* Tennis; Bridge. *Club:* Gondwana Club, Nagpur. *Address:* Ramdaspeth, Nagpur.

BAHADUR, Raj, Minister of State for Transport and Communications, since April 1957. *b.* August 21, 1912; *Educ.:* Sadar High School, Bharatpur; Maharaja's High School and Maharaja's Coll., Jaipur; Agra Coll. and St. John's Coll., Agra. Started practice at Bharatpur and then at Rajasthan High Court; later enrolled as Advocate, Supreme Court; took active part in the freedom movement and imprisoned twice; elected Municipal Commissioner, Bharatpur on Praja Parishad ticket, 1941; elected to State Representative Assembly, 1943; Secy., Assembly Praja Parishad Party, 1943-48; Vice-Pres., Bharatpur Dist. Congress Cttee.; Pres., Bharatpur Bar Assoc., 1948-51; elected to the Indian Constituent Assembly, 1948; has been an M.P. since then; Secy., Congress Party in Parliament, 1951-52; member: Rajasthan P.C.C.; A.I.C.C.; Dy. Minister for Communications, 1951-56; Minister in the Ministry of Communications, Feb. 14-Dec. 7, 1956; Minister for Communications, Dec. 7, 1956-April 16, 1957; re-elected M.P., 1957. *Address:* 9, Akbar Road, New Delhi.

BAHADUR Singh, Indar Jit, M.A. (Oxon.), B.Litt. (Oxon.), Bar-at-Law, Commissioner for the Government of India in British East Africa and the Federation of Rhodesia and Nyasaland, and Consul General of India in Ruanda Urundi since 1958. *b.* June 12, 1914; *Educ.:* Queen's Royal Coll., Trinidad; Univ. of Oxford. Broadcasting Officer, British Embassy, Chungking, 1944-45; Indian Consul, Shanghai, 1946-47; First Secy., Indian Embassy, Tokyo, 1947-48. India's Representative on the U.N. Temporary Commission on Korea, 1948; Dy. Secy., Ministry of External Affairs, 1949-50; First Secy., and later Counsellor, Indian Embassy, Washington, 1950-53; acted as Indian Consul General, New York; Political Adviser to the Indian Chairman of the Neutral Nations' Repatriation Commission in Korea, 1953-54; Counsellor, and for some period, Charge d'Affaires, Indian Embassy, Peking, 1955-58. *Address:* C/o Commission for India, P.O. Box 30074, Nairobi (Kenya).

BAIG, Abbas Ali, Cricketer. *b.* March 19, 1939; *Educ.:* Osmania Univ.; is now an engineering student at Oxford. Captained Hyderabad Schools side in cricket, 1954; made his debut in Ranji Trophy when 15, scored 105 runs against Mysore in the 2nd match, 1955; went to England, 1956; played for Indian Gymkhana leading the batting averages, 1957; played in Manchester Assoc., 1958; joined Oxford, 1959; broke Cowdrey's record by scoring 921 runs on the Univ. ground, the Parks; also scored the highest individual score after the war—221 not out; set up record for the 5th wicket—256 runs with C. Fry; scored centuries against Lancashire and Yorkshire inside a week; joined the Indian touring team and scored 102 runs in the 1st match against Middlesex; played for the 1st time in the 4th Test and scored a century; scored six centuries in the 1959 cricket season, his aggregate score being 1,822 runs. Played for Somerset, 1960; played for India against Pakistan in 1960-61 test series. *Recreations:* Tennis, Squash. *Address:* University College, Oxford.

BAIG, H. E. Mirza Rashid Ali, Indian Ambassador to Iran, since April 1961. *b.* March 25, 1905; *Educ.:* Clifton Coll., England; Royal Military Coll., Sandhurst. Commissioned, 1924 and posted to 16th Light Cavalry; resigned after six years' service to enter business; Pres., Indian Progressive Group, 1939; Sheriff of Bombay, 1942; Consul at Goa, 1946; Consul-General in French Establishments and Portuguese Possessions in India, stationed in Pondicherry, Sept. 1947-Dec. 1949; was First Secy., Indian Embassy in Indonesia for a brief period from Dec. 1949; was with the Central Govt. till April 1952; Indian Minister to the Philippines, 1952-55; Chief of Protocol, Govt. of India, 1955-60. *Address:* C/o Ministry of External Affairs, New Delhi.

BAIJAL, Dharam Chand, B.Sc., C.E. (Hons.), M.I.E. (I), Hony. Major (1946), Burma Star, 1939-45, Star and War Medal, Member, Railway Board, since Nov. 1959. *b.* Aug. 8, 1906; *Educ.:* Univ. of Allahabad; Thomason Coll. of Civil Engg., Roorkee. Joined the Indian Rly. Service of Engineers, 1930; posted to the Eastern Bengal Rly.; commissioned in the Defence of India Corps (Rlys.), 1942; Dy. Director (Projects), Rly. Board, 1946-47; Jt. Dir., Civil Engg., 1947-52; Divisional Supdt., N. Rly., 1952-55; Director, Efficiency Bureau, Rly. Board, April 14, 1955-Jan. 15, 1956; Secy., Rly. Board, Jan. 16, 1956 to Oct. 7, 1957; on special duty in connection with the setting up of a new railway zone at Pandu, till Jan. 1958; General Manager, Northeast Frontier Rly., Jan. 1958-Nov. 1959. *Recreations:* Tennis, Gardening. *Address:* Railway Board, New Delhi.

BAJAJ, Kamalnayan, Economics Tripos PT. I (Cambridge Univ.), Hindi Visharad, Prayag, M.P., business man and industrialist. *b.* Jan. 23, 1915; *Educ.:* Sabarmati Ashram, Gujarat Vidyapeeth, Ahmedabad, Satyagraha Ashram, Wardha, under Mahatma Gandhi and Acharya Vinoba Bhave; later at Colombo and Cambridge Univ. (England). Chairman, Mukand Iron & Steel Works Ltd.; Bajaj Electricals Ltd.; Bajaj Auto Ltd.; Managing Director, Bachhraj & Co., Private Ltd.; Director in several sugar, cement, banking and insurance companies, etc.; Trustee, Gandhi Smarak Nidhi, etc.; Mg. Cttee. Member: Indian Merchants' Chamber, Bombay; Rajasthan Chamber of Commerce & Industry, Jaipur; several educational, social and cultural institutions and assocs.; elected member, Lok Sabha from Wardha on Congress ticket, 1957; Treasurer, Indian Council for Africa. *Clubs:* Willingdon Sports Club; C.C.I.; Chelmsford Club, Delhi; R. W. I. Turf Club, etc. *Address:* 51, Mahatma Gandhi Road, Bombay 1.

BAKHLE, Kamalaker Chintaman, B.Sc. (Hons.) (Eng.), London, Member of Institute of Transport, Member of Institution of Engineers (India), Fellow of the Permanent Way Institution; Director, Tata Industries Ltd. *b.* Nov. 17, 1898; *Educ.:* Dulwich College, University College, London. Joined G.I.P. Railway as Assistant Engineer, March 1, 1924; retired as Chief Commissioner of Railways, Govt. of India, June 30, 1951; Director, Tata Hydro-Electric Agencies Ltd. *Clubs:* Willingdon Sports and Cricket Club of India, Bombay; Delhi Gymkhana Club, New Delhi. *Address:* Bombay House, Bruce Street, Bombay 1.

BAKHSHI, Ghulam Mohammed, Prime Minister, Jammu and Kashmir, since Aug. 9, 1953. *b.* July 1907. Began life as a school teacher; served with the Local Branch of the All India Spinners' Assoc.; courted imprisonment four times during the freedom movement in the State; jailed for 16 months, 1934; worked underground during the movement for Responsible Govt. in Kashmir, 1938; took a prominent part in mobilising Indian opinion from outside the State during

the "Quit Kashmir" movement; organised the Peace Brigades and Border Scouts in Kashmir and Jammu during the tribal raids of 1947; Deputy Prime Minister in charge of Police, Militia, Transport, Supplies and P.W.D., Emporia in the Sheikh Abdulla Cabinet till Aug. 8, 1953; re-elected Leader, National Conference Parliamentary Party, July 1957 after the General Elections in the State. *Address:* Srinagar.

BAL, H. E. Major Gen. Tara Singh, Graduate, Military Coll., Sandhurst, Ambassador of India to Argentine, since March 1961. *b.* Aug. 15, 1905; *Educ.:* Military Coll., Dehra Dun; Military Coll., Sandhurst. Commissioned in the Indian Army as Second Lieut., 1926; Area Commander, Delhi Area, 1948; became Theatre Commander, Jammu and Kashmir with local rank of Lt. General; Quarter Master General, A.H.Q., Oct. 1953 to Feb. 1957; appointed alternate Delegate on the International Commission for Supervision and Control in Laos, June 1957, and transferred to Viet Nam International Commission in the same capacity, 1948; mentioned in despatches for distinguished services in the War, 1939-45. *Address:* C/o External Affairs Ministry, New Delhi.

BALAMANI Amma, Shreemati N., Writer. *b.* July 19, 1909; *Educ.:* Privately. Only literary career. *Publications:* *Mother* and twelve other volumes of poems. *Recreation:* Reading. *Address:* "Sarvodaya", Punnayurkulam P.O., Kerala.

BALIGA, Bantval Vittal, B.A., D.I.I.Sc. (E.T.), D.I.I.Sc. (Commn.), Member Brit. I.R.E. Sr. Mem. I.R.E., M.I.T.E., Managing Director, Bharat Electronics Ltd., Bangalore. *b.* June 13, 1909; *Educ.:* Madras Christian Coll., Madras; Indian Inst. of Science, Bangalore. Installation Engineer, A.I.R., 1937-39; Asstt. Chief Engineer, A.I.R., 1939-45; Chief Engineer, A.I.R., 1945-52; Wireless Adviser, Ministry of Communications, 1952-53; Chairman: Radio Eqpt. Sectional Cttee., Indian Standards Institution; Study G.P. XII C.C.I.R., 1952-58; Memb., Dev. Council for Light Electrical Industries, Radio Research Cttee., etc. *Recreations:* Reading, Golf, Bridge. *Clubs:* Bangalore Club; Bangalore Golf Club; Delhi Gymkhana Club; Delhi Golf Club. *Address:* Bel House, Jalahalli, Bangalore.

BAM, Arvind Shankar, B.Sc. (Bombay), B.Sc. (Hons.) (London), I.C.S., Chairman, Tea Board; Govt. of India, *b.* March 12, 1918. *Educ.:* B.Sc. from Fergusson Coll., Poona, 1939; B.Sc. (Hons.) from King's Coll., London, 1941. Entered Indian Civil Service, 1941; Asstt. Collector, Dharwar, 1942-March 1944; Special Officer, Civil Supplies, Darjeeling, 1944-45; Dist. Controller of Civil Supplies, Jalpaiguri, 1945-46; Asstt. Collector, Broach, July 1946-April 1947; Under Secy., Home Deptt., Govt. of Bombay, April-Aug. 1947; Deputy Secy., Aug. 1947-Aug. 1949; First Collector and District Magistrate, Kolhapur, Aug. 1949-Dec. 1952; Dy. Secy., Govt. of India, Ministry of Rehabilitation, Calcutta, Dec. 1952-March 1957; Iron & Steel Controller, 1957-61. *Clubs:* National Sports Club of India, Royal Calcutta Golf Club, etc. *Address:* 33, Netaji Subhas Road, Calcutta 1.

BANERJEE, Mr. Justice Binayaknath, M.A., LL.B., Judge, High Court, Calcutta, since 1957. *b.* June 1906; *Educ.:* Presidency Coll., Scottish Church Coll., Univ. Law Coll., and Post Graduate in Arts, Univ. of Calcutta; B.A. with Honours, 1928; M.A. (Univ. Gold Medallist), 1930; LL.B., 1931. Enrolled as an Advocate of the Calcutta High Court, 1933; Lecturer, Univ. Coll. of Commerce, 1949-57. *Publication:* Natural Justice and Social Justice before the Supreme Court (1950-59). *Recreations:* Sanskritic & historical studies. *Address:* 6/1, Williams Lane, Calcutta 9.

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BANERJEE, Hemendra Nath, M.A. (Philosophy), Hony. Director, Seth Sohan Lal Memorial Institute of Parapsychology, Sri Ganganagar—the only Institute of its kind in Asia. *b.* Oct. 25, 1924; *Educ.:* Govt. Coll., Ajmer; Allahabad Univ., conducted research under the auspices of Delhi Univ. Vice-Principal, K. G. S. J. Coll., Rasra, Ballia (1955), edited Hindi Cultural monthly Gramya (1955); Head, Philosophy Deptt., A. D. Coll., Rewari (1956); Secy., Indian Society for Psychic and Yogic Research, Banares Hindu Univ., Banares (1956); founded Seth Sohan Lal Memorial Institute of Parapsychology, Sri Ganganagar (1957); conducted many parapsychological researches; visited six Indian Univs. on invitation to give extension lectures on Parapsychology; visited U.S.A. and European countries under the sponsorship of the Duke Univ. Parapsychology Lab., Durham for research consultations and lectures. Editor: "Indian Journal of Parapsychology", "Directory of Philosophical Studies in India" member, Editorial Board; "Message of India"; Indian Philosophical Congress; Indian Science Congress Assoc. and some foreign organisations. *Publications:* Regular contributor to many learned and scientific journals in India and abroad; *Books:* Parapsychology And Its Implications. *Address:* Seth Sohan Lal Memorial Institute of Parapsychology, Sri Ganganagar (Rajasthan).

BANERJI, S. K., B.A., Chief of Protocol, Govt. of India, since March 17, 1961. *b.* Oct. 12, 1913; *Educ.:* Univ. of Allahabad and New Coll., Oxford. Entered I.C.S., 1937; served in C.P. and Berar as Deputy Commissioner in Khandwa, Balaghat, Nagpur and Akola upto 1946; Secy., Civil Supplies, 1946–47; First Secy. and later, Charge d'Affaires, Embassy of India in Tehran, 1947–49; Dy. Secy., Ministry of External Affairs, 1949–51; Dy. High Commissioner for India in Lahore, 1951-54; Consul-General of India, San Francisco, 1954-56; Indian Delegate to the 10th Anniversary Session of the U.N. at San Francisco, 1955; Chairman, U.N. Visiting Mission to British and French Togolands, 1955; Minister of India to Syria, 1956; Ambassador of India to Syria, 1957–58; High Commissioner for India to Malaya and Commissioner to Singapore, Sarawak, Brunei and North Borneo, 1958–59; Joint Secy., Ministry of External Affairs, 1960. *Publications:* Official Reports. *Address:* Ministry of External Affairs, New Delhi.

BANSAL, Ghamandi Lal, M.A., LL.B., Secretary-General, Federation of Indian Chambers of Commerce and Industry; Ex-Member, Lok Sabha; ex-Director, Central Board of the State Bank of India. *b.* Dec. 3, 1914; *Educ.:* A. V. Mission School, Ranikhet; Govt. Coll., Almora; Lucknow Univ. Represented International Chamber of Commerce at 5th Session of ECAFE; attended International Labour Conferences, Geneva, 1950 and 1951; toured U.S.A. as Leader Specialist on American Govt. invitation; elected member of Parliament on Congress ticket from Jhajjar-Rewari constituency, 1952-57; was member, Govt. Delegations to GATT, 1953 and 1954; attended the 12th Session of ECAFE as Govt. of India's delegate; member, Indian Industrial Delegation to Europe and America, 1957. *Publications: India and Pakistan—An analysis of economic, mineral and agricultural resources. Recreations:* Painting; Gardening. *Clubs:* Delhi Golf Club, Ranikhet Club and National Sports Club of India. *Address:* 28, Ferozshah Road, New Delhi.

BARMAN, Mr. Justice Satyabhushan, B.A. (Hons.) (Econ. & Pol. Science), Barrister-at-Law, Judge, Orissa High Court, Cuttack, since 1958. *b.* May 1, 1907; *Educ.:* Mitra Institution, Bhowanipur, Calcutta; Presidency Coll., Univ. Coll. and Law Coll., Calcutta; King's Coll. & Birbeck Coll., London; Lincoln's Inn, London; called to the Bar (1932). Research in the treatment of young criminals in London with particular reference to the English Borstal system under the aegis of the Home Office in London (1932-34); Chairman, Cttee. of Enquiry into the working of the House of Detention and the Central Children Court, Calcutta, appointed by West Bengal Govt. (1948); appeared before the Judicial Reforms Cttee. for the State of West Bengal making suggestions for reforms (1950); Advocate, Supreme Court (1953); practised in Calcutta High Court (1935-58). *Publications: The English Borstal System;* Report on the results of enquiry into the House of Detention and the Central Children Court, Calcutta. *Recreations:* Reading, Games. *Clubs:* Cuttack Club. *Address:* No. 1, Cantonment Road, Cuttack.

BARRETT, Colin Somerville, Chairman and Managing Director, Gill & Co. Private Ltd., Bombay, since 1958. *b.* Jan. 9, 1906; *Educ.:* Charterhouse, Godalming, Surrey, England. Assistant: Major Cleaver & Co., Liverpool, 1924-27; Major Cleaver & Co., Dallas, Texas, U.S.A., 1927-33; Gill & Co., Bombay, 1933-39; Partner, Gill & Co., Bombay, 1939-47; Director, Gill & Co. Private Ltd., Bombay, 1947-58. *Recreations:* Golf, Swimming. *Clubs:* Royal Bombay Yacht Club, Willingdon Sports Club and Bombay Gymkhana Ltd., Bombay; Oriental Club, East India & Sports Club Ltd. and The Lansdowne Club, London. *Address:* "Waverley", 11, Wilderness Road, Malabar Hill, Bombay 6.

BARUA, Dr. Birinchi Kumar, M.A., B.L., Ph.D. (Lond.), Writer in Assamese and English; Professor and Dean of the Faculty of Arts, Gauhati University. *b.* Nov. 20, 1910; *Educ.:* Calcutta, London, Oxford, Upsala (Sweden); member, Official Language Commn., Govt. of India, appointed in 1955; Pres., Assam Academy for Cultural Relations. *Publications: Assamese Literature* (P.E.N. publication); *A Cultural History of Assam; Studies in Early Assamese Literature; Jibanar Batal; Seuji Patar Kahini* (novels in Assamese); *Purani Katha Sahitya; Sahitya Aru Abhivyanjana; Aghoni Bai; Pat Parivartan; Ankiya-Nat* (edited); *Bauda Dharma Aru Sahitya; Early Geography of Assam; Mahamoha Kavya* (edited); *Asamiya Bhasha Aru Samskriti; Sankaradeva Vaisnawa Saint of Assam; Asamar Loka Samskriti; Modern Assamese Literature. Address:* Gauhati, Assam.

BASANT, Tirth Verhomal, Sindhi Writer. *b.* Sept. 7, 1909; *Educ.:* Khairpur, Sind. Visited Japan, China, Malaya and Burma on business, 1927-29; was in Persia, 1930-34; presented address to Tagore on behalf of Indians in Teheran, 1932; edited, *Advance India,* Karachi, 1939; General Secy., Rural Reconstruction, Sind, 1940; actively participated in "Hari Haqdar" movement for securing tenancy rights to landless peasants, 1942-43; detained by the Pakistan Govt. under the Safety Act for alleged pro-Indian activities, 1948; migrated to India, 1959; elected Vice-President, All India Sindhi Sahitya Sabha, 1960; received awards from Sind Govt. Board of Literature, 1943 and from Indian Sahitya Akademy, 1960. *Publications: Conflict* (a play in English); *The Khaksar Movement; Chingoon; Jawahar Jiwani; Vasant Varkha,* etc. *Recreations:* Walking, Gardening, Music, Pictures. *Address:* 76-G, Ansari Nagar, New Delhi 16.

BASAVAPUNNAIAH, Makineni, Communist Leader, member, Secretariat; M.P. *b.* Dec. 14, 1914; *Educ.:* Noble Coll., Masulipatam; A. C. Coll., Guntur; studied upto B.A. Class. Secy., Guntur Dist. Communist Cttee., 1939-42; Secy., Andhra Prov. Students' Federation, 1937-39; Secretariat member, Andhra Communist Cttee., 1942-56; Secy., Andhra Provincial Cttee., 1957-58; member, Central Cttee., C.P.I., 1948-58. *Publications:* A number of political pamphlets. *Recreations:* Swimming, Horticulture and Game. *Address:* No. 4, Windsor Place, New Delhi.

BASHIR, Sheikh Mohammed, Director-in-Charge, Juggilal Kamlapat Iron and Steel Co. Ltd.; Proprietor, Auto Service Garage, Kanpur; Corporator. *b.* September 1902; *Educ.:* B.Sc., Allahabad; B.Com. (Lond.), F.R.E.S., Bar-at-Law (Middle Temple). Ex-Member, Municipal Board and Ex-Member, Kanpur Development Board; Ex-Director, Reserve Bank of India (Northern Delhi area); Member, Iron and Steel Panels (both Major and Minor) of Govt. of India for Post-War Development; Founder member and Ex-President, Rotary Club of Kanpur and Merchants' Chamber of U.P.; was Honorary Magistrate; Captain, Indian Gymkhana Club in London, 1924 and 1925; ex-member: Regional Rly. Equipment Advisory Cttee.; the National Council for Training in Vocational Trades; Sub-Cttee. for Craftsmen Training, Ministry of Labour & Employment, Govt. of India; All India Board of Technical Studies in Applied Art; member: Local Ad Hoc Cttee., Workers' Education Centre, Kanpur, Ministry of Labour & Employment, Govt. of India; Aligarh Univ. Executive Council and Court; Chairman, Governing Body of the Kanpur Productivity Council. *Recreations:* Shooting, Cricket and Tennis. *Address:* Bashir Lodge, Kanpur.

BASU, Jyoti, B.A., Bar-at-Law, Communist leader, M.L.A. (West Bengal); Leader of the Opposition, West Bengal Leg. Assembly. *b.* July 8, 1914; *Educ.:* St. Xavier's Coll. and Presidency Coll., Calcutta. Barrister, Calcutta High Court; member: Communist Party of India, since 1940; Central Exec. Cttee. and National Council, C.P.I.; member, West Bengal Cttee., C.P.I.; detained without trial and imprisoned as undertrial on several occasions since 1948. *Address:* 55, Hindusthan Park, Calcutta 29.

BASU, Manoje, B.A., Bengali Writer. Recipient of Saratchandra Chatterji Memorial Prize and Medal (Calcutta Univ.) 1960 for the Bengali fiction published and of Narsingdas Prize (Delhi University), 1954 for the Travelogue 'Chin Dekhe Elam'. *b.* July 26, 1901; *Educ.:* Calcutta. Joined Non-co-operation movement in student days; visited Ceylon, China, Russia and Central Asian countries and almost all parts of Europe. *Publications:* Published his first two stories 'Bagh' and 'Natun Manush' in "Prabasi" and "Vichitra", Novels: *Jal Jangal; Nabin Jatra; August* 1942; *Bristi Bristi Bhuli Nai, Bakul, Manush Garar Karigar, Rupabati* etc.; Stories: *Kingsuk; Kacher Akash; Khadyot,* etc.; Drama: *Sesh Lagna; Dak Banglo; Nutan Prabhat,* etc.; Travelogues: *Chin Dekhe Elam; Sovieter Deshe Deshe; Natuan Europe, Natun Manush,* etc. *Address:* P560, Lake Road, Calcutta-29.

BATRA, Ratan, Artist. *b.* Sept. 14, 1912 in Amritsar; *Educ.:* in Lahore and later in the Mayo School of Art; Joined the "Times of India," Art Department, 1933; passed meritoriously the Advance Painting Examination of the Sir J. J. School of Art; established Studio Ratan Batra, 1936; later, founded Ranjit Sales and Publicity Ltd.; was associated with the Art & Industry Movement, 1945-48; Life member, Art Society of India, Bombay Art Society, All-India Arts and Crafts Society, New Delhi; member, Indian Society of Oriental Art, Calcutta; Promoter, Commercial Artists' Guild and Society of Advertising Practitioners. *Address:* Ilaco House, Sir Phirozshah Mehta Road, Fort, Bombay.

BEDI, Rajindar Singh, Author, Producer (Films) and Screenplay-Wright. *b.* Sept. 1, 1915; *Educ.:* D. A. V. Coll., Lahore. Playwright with A.I.R., Lahore; Programme

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Asstt. with A.I.R., Lahore, 1941-44; I/C, Far Eastern Broadcasts—N. India Languages in G.H.Q., G.S.I.Q., Delhi, 1945-46; Mg. Director, Sangam Publishers Ltd., Lahore, 1946-47; Station Director, Jammu & Kashmir Broadcasting Service, 1947-48; produced 'Garm Coat'; 'Lal Batti'; 'Rangoli'; written 'Badi Behen', 'Aaram', 'Daag', 'Badnam', 'Bahu Beti', 'Mirza Ghalib', 'Barati', 'Milap', 'Dev Das', 'Basant Bahar', 'Madhu Mati', 'Musafir', 'Dhake Ki Mulmul', 'Anuradha', 'Memdidi', and 10 others. *Publications: Dana-o-Dam; Grahan; Kokh-jali* (short stories); *Bejan Cheezen; Saat Khel* (Plays); *Ek Chadar Maili-Si* (Novel). *Address:* Shethia Sadan, Matunga, Bombay 19.

BEELAERTS Van Blokland, H. E. Mr. Junkheer Gerard, Doctor of Law, Ambassador for Netherlands in India, since 1960. *b.* May 2, 1908; *Educ.:* Leyden Univ. (Holland). Entered Netherlands Foreign Office, 1933; Military Service, 1940-45; diverse assignments abroad, 1945-54; Director, European Division, Foreign Office, 1954-56; Ambassador in Peru, 1956-60. *Address:* 10, Aurangzeb Road, New Delhi.

BEG, Mr. Justice Nasir Ullah, B.A. (Madras), M.A. (Cantab.), Judge, High Court, Allahabad, since June 1951. *b.* June 4, 1905; *Educ.:* Passed S.L.C. Exam. in the first class with distinction in Science, 1919; Intermediate Exam. from Nizam Coll., Hyderabad in the first class with distinction in Ancient History and Logic, 1921; awarded Lord Pentland Gold Medal for Muslim student who was first in the Univ.; B.A. from Presidency Coll., Madras with first class in Philosophy, 1923; awarded Scott Elocution Prize from the Presidency Coll.; B.A. (Hons.) in Law from Trinity Coll., Cambridge with 1st class in Qualifying Exam. in Law; took M.A. degree from Trinity Coll., Cambridge; called to the Bar from Gray's Inn, Jan. 1929. Asst. Govt. Advocate, Chief Court of Avadh, 1941–46; Govt. Advocate, Chief Court of Avadh, 1946–48; Govt. Advocate, High Court at Allahabad, 1948–51. *Recreation:* Golf. *Address:* High Court, Allahabad.

BEGUM, Mrs. Masuma, (*Hosain Alikhan*), Minister for Social Welfare, Andhra Pradesh, since Jan. 11, 1960; is the first lady Minister of Andhra. *Educ.:* Mahbubia Girls' School, Hyderabad. Associated with Social Work for over 35 years; member, Hyderabad Branch, All India Women's Conference since its inception; is now its Pres.; M.L.A. since 1952; was on the panel of Chairmen and presided over its deliberations; Deputy Leader, Congress Leg. Party, 1957; Leader of the delegation, Golden Jubilee Session of International Alliance of Women at Colombo, 1955; Deputy Leader, All India Women's Conference delegation to Russia, 1958; led the Women's delegation to Yugoslavia, 1959; elected to the Interim Cttee., U.N. Conference of Non-Governmental Organisations, Geneva, 1959. *Address:* Somajiguda, Hyderabad.

BELVALKAR, Shripad Krishna, M.A., Ph.D. (Harvard Univ.), I.E.S. (Retd.), F.R.A.S. (Lond.), and of the Asiatic Society of Bombay, Awarded 'Certificate of Honour' with monetary award by the President, Indian Republic, Indologist. *b.* Dec. 12, 1880; *Educ.:* Rajaram Coll., Kolhapur and Daccan Coll., Poona and at Harvard. One of the principal founders of the Bhandarkar Oriental Research Institute, Poona, and its Hon. Secy., 1915-18 and 1927-33; General Editor of the B.O.R. Institute's critical edition of the Mahabharata, since April 1943; Editor, *Bhishmaparvan* (pub. 1947), *Shantiparvan* (4 vols., 1949-56) and the concluding four Parvans (1957-59); President, All-India Oriental Conference, Twelfth (1943, Banaras) Session. *Publications: Systems of Sanskrit Grammar;* Edition and translation of Bhavabhuti's *Later History of Rama* in the Harvard Or. Series; Kalidasa's *Shakuntala* for the Sahitya Akademy; English translation of Kavyadarsa; critical editions with notes and translation of the Bhagavadgita, and Brahmasutrabhashya; and (in collaboration with Prof. Ranade) *History of Indian Philosophy*, Vols. 2 and 7; papers on various aspects of Indology in Oriental Journals of India and outside. *Address:* "Bilvakunja," Poona 4.

BENDRE, Narayan Shridhar, B.A. (Agra Univ.), G.D. Art (Bombay), Painter; Dean and Professor and Head of the Dept. of Painting Faculty of Fine Arts, Maharaja Sayajirao Univ. of Baroda, since 1950. *b.* Aug. 21, 1910; *Educ.:* Holkar Coll., Indore; formal training at School of Art, Indore, under the guidance of Sri D. D. Deolalikar; training in Graphic Arts at Art Students' League, New York, U.S.A. and in Ceramic art at Y.W.C.A., New York, 1947. Artist-cum-Journalist at Visitors' Bureau, Kashmir, 1936-39; Free lance artist at Bombay, 1939-50; has travelled abroad visiting U.K., Middle European countries, and U.S.A., 1947-48 and Middle East countries in 1958; member, First Govt. of India's Cultural Delegation to China, 1952; member, General Council and Executive Board, Lalit Kala Akademi; Pres., Art Society of India, Bombay, 1957; has won numerous prizes at major Art Centres in India; paintings collected at various museums in this country and some private collections abroad; held one man shows at Bombay, 1943, 1950 and 1957. *Address:* Baroda University, Baroda.

BENEDICTOV, H. E. Mr. Ivan Alexandrovich, Soviet Ambassador in India since June 1959. *b.* 1902, in Novaya Vichuga Village, near Ivanovo; *Educ.:* Agricultural Academy, Moscow. Was an agronomist in Uzbekistan; was Vice-Chairman of the Kolkhoztsentr; Director, Vegetable Supply Trust, Moscow; appointed People's Commissar for State Farms of Russian Federation, 1937; Minister of Agriculture of the U.S.S.R., 1938; elected deputy to the Supreme Soviet of the Russian Federation, 1938 and deputy to the Supreme Soviet of the U.S.S.R., 1946, 1954 and 1958; Chairman, Central Exhibition Cttee. of the U.S.S.R. Agricultural Exhibition; Soviet Ambassador to India, 1953; Minister of Agriculture and Procurements of the U.S.S.R., 1953-57; Minister of Agriculture and Vice-Chairman, State Planning Commission of the Russian Federation, 1957-61. *Special interests:* Music. *Publications:* 15 books and 300 articles dealing with the organisation of agriculture. *Address:* 6, Canning Road, New Delhi.

BHABHA, C. H., M.A., B.Com., J.P., Vice-Chairman, Central Bank of India Ltd., and Oriental Assurance Co. Ltd., etc. Ex-Chairman, Eastern Shipping Corporation. *b.* July 22, 1910; *Educ.:* St. Xavier's College and Sydenham College of Commerce, Bombay; Fellow of St. Xavier's College (1932-34); Fellow and Lecturer in Banking Law and Practice, Sydenham College of Commerce, Bombay (1932-33). Commerce Member, Interim Govt. of India, Sept. 1946; Member, Works, Mines & Power, Govt. of India, Nov. 1946; Commerce Minister, Govt. of India, 1947; resigned, April 1948; Leader of the Indian Delegation to World Trade Conference, Havana, November 1947; Vice-Chairman, Rural Banking Enquiry Cttee.; elected Vice-President, International World Trade Conference, Havana, November 1947. *Publications:* Contributions to Journals and Newspapers on Banking and Commercial topics. *Address:* Construction House, Ballard Estate, Bombay 1.

BHABHA, Dr. Homi Jehangir, B.A. (Cantab.), 1930, Ph.D. (Cantab.), 1934, D.Sc. Honoris Causa (Patna), 1944, (Lucknow), 1949, (Banaras), 1950, (Agra), 1952, (Perth), 1954, (Allahabad), 1958, (Cambridge), 1959, London (1960), F.R.S., 1941, Padma Bhushan, 1954, Director and Professor of Theoretical Physics, Tata Institute of Fundamental Research, Bombay; Secretary to the Govt. of India, Department of Atomic Energy; Chairman, Atomic Energy Commission, India; and Director, Atomic Energy Establishment, Trombay, Bombay; Pres., International Union of Pure and Applied Physics. *b.* Oct. 30, 1909; *Educ.:* Cathedral and John Cannon High School, Elphinstone Coll., and Royal Institute of Science, Bombay; Gonville and Caius College, Cambridge; in Cambridge he had Rouse Ball Travelling Studentship in Mathematics in 1932, and Isaac Newton Studentship from 1934; held the Senior Studentship of the Exhibition of 1851 from 1936. Became special Reader in Theoretical Physics in 1940 at the Indian Institute of Science, Bangalore; Adams Prize, 1942; Professor, Cosmic Ray Research Unit, Indian Institute of Science, 1942-45; Hopkins Prize, 1948; Pres., International Conference on the Peaceful Uses of Atomic Energy, Geneva, Aug. 1955; Hon. Fellow, Gonville & Caius Colleges, Cambridge, 1957; Hon. Fellow, Royal Society of Edinburgh, 1957; Hon. Fellow, American Academy of Arts & Science, 1959; member, Scientific Advisory Cttee., International Atomic Energy Agency; member, U.N. Scientific Advisory Cttee. *Publications:* On quantum theory, elementary physical particles, cosmic radiation. *Address:* 12, Little Gibbs Road, Bombay 6.

BHAGAT, Dhanraj, Incharge, Sculpture Section, Delhi Polytechnic, Delhi. *b.* Dec. 20, 1917; *Educ.:* Lahore (West Pakistan). Won Governor's Gold Medal at Akadami of Fine Art, Calcutta; exhibited all over India and abroad; visited U.S.A. on Rockefeller fellowship and toured throughout the continent and England; executed several works for Govt. and semi-Govt. buildings; held many group shows and six one man shows of sculpture; competed in an international competition for unknown political prisoners; some important works have been acquired by the Prime Minister of India. *Address:* Art Deptt., Delhi Polytechnic, Kashmiri Gate, Delhi.

BHAGAVADACHARYA, Panditaraj Swami, Sanskrit Poet and Philosopher; is the disciple of Swami Rama Manohara Prasada Acharya, Ayodhya. *b.* 1880 at Sialkot; *Educ.:* Ayodhya, Kasi, Mithila. Is a Sanyasi of the Shri Ramanand Sampradaya; was initiated into the order by the great Acharya Swami Shri Rama Manohara Prasadaji of the Shri Bindugadi of Ayodhya. *Publications:* about 100 in various languages and include authoritative writings on the Vedas, Upanishads, Vedants, etc. and epics in Sanskrit language like *Bharataparijatam, Parijatapaharah, Parijata Saurabham* and *Ramananda Digvijayam, Sama Samskara Bhashyam* on *Samaveda; Yajuh Samskar Bhashyam on Yajurveda; Vaidic Bhashyam* on *Brahmasootram* of Vyasa; *Bhagavadbhashyam* of *Bhagavadgita. Recreations:* Pursuit of knowledge and search for truth. *Address:* Rajnagar Society, Ellis Bridge, Ahmedabad 7.

BHAGAVANTAM, Dr. S., M.Sc. (Madras) (Hon.), D.Sc. (Andhra), Director, Indian Institute of Science, Bangalore since March 1957; Hon. Scientific Adviser to Defence Ministry, since July 1961. *b.* Oct. 14, 1909; *Educ.:* Nizam Coll., Hyderabad; Indian Assoc. for the Cultivation of Science, Calcutta. Professor of Physics and Principal, Andhra Univ., Waltair, 1932-48; Indian Scientific Liaison Officer, B.C.S.O., London, 1948-49; Director, Physical Laboratories, Osmania Univ., Hyderabad, 1949-52; Pres., Physics Section, Indian Science Congress, 1946; Vice-Chancellor, Osmania University, 1952-57. *Publications:* Several scientific papers and two books, *viz. Scattering of Light and Raman Effect* and *Theory of Groups and Its Application to Physical Problems. Address:* Indian Institute of Science, Bangalore 12.

BHAGVAT, Kumari Durga Narayan, M.A., Marathi Writer. *b.* Feb. 10, 1910; *Educ.:* Bombay, Poona, Ahmednagar, Dharwar and Nasik. Fellow, St. Xavier's Coll., Bombay, 1932-34; Research Fellow, School of Economics and Sociology, 1937-40; started independent career in Anthropology, Sociology, Philology and Folklore, 1942; has specialised in literary essays and cultural stories in Marathi; awarded first prize for her Marathi treatise, an outline of Indian folklore and for her literary essays, *viz.*, Rituchakra or the cycle of

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seasons and Bhavamudra or Impressions. *Publications :* English : *Early Buddhist Jurisprudence ; A Primer of Anthropology · An Outline of Indian Folklore*, and three others ; Marathi : *Lokasahityachi Ruprekha ; Purwa ; Rituchakra ; Bhavamudra ; Rajaram Shastri Bhagwat Yanche Charitra ; Tulshiche ; Mahanadichya Tiravar ; Lagna*, and five others. *Recreations :* Sewing, Reading, Cooking. *Address :* Javeri Villa, Gilder Lane, Bombay 8 ; Gokhale Institute, Poona 4.

BHAGWATI, Natwarlal Harilal, M.A., LL.B., Vice-Chancellor, Banaras Hindu University, since April 15, 1960. *b.* August 7, 1894 ; *Educ. :* Baroda Coll., Elphinstone Coll. and Govt. Law Coll., Bombay. Senior Daxina Fellow, Elphinstone Coll., Bombay. Advocate (O.S.), High Court, Bombay ; sometime Professor, Government Law Coll., Bombay ; sometime member of the Bar Council ; Vice-Chancellor, Univ. of Bombay, 1949–51 ; Judge, Bombay High Court, 1944–52 ; Judge, Supreme Court of India, 1952–59. *Publications :* Translation into Gujarati of V. L. Mehta's *Co-operative Movement*, for the Gujarat Vernacular Society ; Edited Mulla's *Law of Insolvency in India*. *Address :* Varanasi.

BHAKTAVATSALAM, M., Minister for Agriculture, Home, Courts and Prisons, Prohibition, Govt. of Madras. *b.* 1897. Gave up practice at the Bar, 1927 ; was connected with "India", a Tamil daily ; Deputy Mayor, Madras Corporation, 1936 ; was member and Vice-President, Chingleput District Board for 6 years from 1932 ; Vice-President, Tamil Nad Congress Committee, 1935 ; acted as Secretary, Tamil Nad Congress Committee for a number of years ; member, All-India Congress Committee ; Parliamentary Secretary to the Minister for Local Administration in the first Congress Ministry, 1937 ; Public Works Minister, Madras, 1946-51 ; Convener, Bharat Sevak Samaj (Tamil Nad Branch) ; Minister for Agriculture and Community Projects, Madras, 1953-54. *Address :* "Mallika", Mylapore, Madras.

BHAN, Pandit Durga Prasad, Oriental Astrologer and Director, Bhrigu Institute of Scientific Astrological Research. *b.* Aug. 13, 1910, of an ancient family of Jagirdars, Gwalior ; *Educ. :* Victoria Coll., Gwalior, 1927-30. Has been conducting research on scientific lines in Astrology, Numerology, Mole Science, Physiognomy and Palmistry ; is a pioneer in the field of astrology ; many of his predictions of national importance have come true ; work commended by leading men in India and abroad ; as Director, Bhrigu Institute of Scientific Astrological Research, is actively engaged in raising the science of astrology to higher standards of perfection. *Publications : Can heavenly stars influence your Destiny ? ; Is Astrology a perfect Science ? ; How to predict about a man, a nation and the world as a whole ? ; What are the Inner Secrets of the Nine Planets of the Astral World ? Recreations :* Reading books on other worlds written in Sanskrit by the Great Rishis of ancient India. *Address :* A-131, Vinaynagar, New Delhi 3.

BHANDARI, Mr. Justice Doulat Mal, M.A., LL.B., Judge, Rajasthan High Court, since July 26, 1955. *b.* Dec. 16, 1907 ; *Educ. :* Maharaja Coll., Jaipur ; Canning Coll., Lucknow. Started practice in Jaipur City, 1930 ; took part in Independence movement of 1942 ; elected member, Leg. Council of the former Jaipur State, 1945 ; elected leader of the Praja Mandal Party in the Council ; Development Minister, former Jaipur State, 1947–49 ; nominated member, All-India Bar Cttee. ; elected member of the Lok Sabha, 1952. *Address ;* 2, Museum Road, Jaipur ; Shiphouse, Jodhpur.

BHANDARI, Rai Sahib Billam Chand, Accountant-General, Jodhpur, since April 1947 ; deputed also as first Finance Secretary to the United State of Rajasthan. *b.* July 1, 1898 ; started career in Govt. service as inspector, Food Stuffs, 1918 ; Superintendent, Budget and Compilation, 1925 ; granted Special reward for compiling Budget, 1928–29 against time ; Superintendent, Finance and Budget Secretariat, 1929 ; Asstt. Secy., Govt. Finance Dept., 1933 ; rendered good service during 1930 share transaction trouble ; awarded reward of Rs. 12,000 ; Secy., Finance Dept., May 1935 ; conferred the title of Rai Sahib, 1938 ; granted Palki Saropao, 1939 ; Gold Saropao, 1942 ; officiated several times as Asstt. to the Finance Minister and during Minister's leave shouldered entire responsibility of State Financial Administration ; a social and public worker ; Honorary Treasurer : All-India Lady Chelmsford League, 1935 ; Shree Hanuwant Benevolent Fund since 1942 ; Indian Red Cross Society and St. John Ambulance Assoc. since 1947 ; Vice-Pres., Umaid Co-operative Credit Society since 1947. *Recreations :* Theosophy and Comparative Study of Religion and problem of human progress. *Address :* Sardarpur Road, I.C., Jodhpur.

BHANDARI, S. N., Jain Ratna, Industrialist and Banker of Indore. *b.* 1904. Chairman, Board of Directors : Nandlal Bhandari Mills Ltd. ; The Central India Insurance Co., Ltd. ; Nandlal Bhandari & Sons (Private) Ltd., Indore, carrying on business under the names and styles of Industrial Traders, Indore, Dewas Oil and Flour Mills, De-Oiled Cake Factory (Solvent Extraction Plant), Dewas ; Dir., Madhya Pradesh Financial Corporation, Indore ; State Bank of Indore ; member : State Technical Institutions Inspection Cttee. ; Working Cttee., Madhya Pradesh Millowners' Assoc. ; Managing Cttee., Roberts Nursing Home ; Indore Productivity Council (Textile Mills) ; Indian Chamber of Commerce, Bombay ; Patron, Rifle Club, Daly Coll., Indore ; recipient of high honours of Gold Anklet from Udaipur Durbar ; has liberally donated for social, educational, medical and religious advancement ; runs Bhandari Boarding House at Rampura and the Nandlal Bhandari Higher Secondary School at Indore, imparting vocational training ; has provided ample amenities for labourers in the mills ; takes keen interest in economic and industrial development of the country ; visited Japan, America, England and the Continent on an industrial tour and acquired deep knowledge of the textile industry there. *Address :* 19, Nandanwan, Tukoganj, Indore.

BHARDE, Trimbak Shivram, B.A., LL.B., Minister for Co-operation, Govt. of Maharashtra, since May, 1960. *b.* May 25, 1914 ; *Educ. :* Ahmednagar ; had a brilliant academic career. Joined Congress, 1936 ; courted jail in the freedom movement ; became Editor, *Sanghshakti*, weekly, 1946 ; was Chairman, Reception Cttee., Bombay State Journalists' Conference, Ahmednagar ; was later Pres., Journalists' Assoc. ; introduced many reforms as Chairman, Exec. Cttee., Ahmednagar Dist. School Board ; Hon. Secy., Ahmednagar Education Society ; was Secy., Maharashtra Regional Congress Cttee. ; elected M.L.A., Bombay from Ahmednagar, 1957 ; Minister for Co-operation, Bombay State, till April 1960. *Address :* "Nandanvan," 4, Little Gibbs Road, Malabar Hill, Bombay 6.

BHARDWAJ, Manohar Lal, B.A. (Hons.) (Economics), Registrar of Newspapers for India, Govt. of India, Ministry of Information & Broadcasting, since July 1, 1956. *b.* July 27, 1913 ; *Educ. :* D. A. V. High School, Lahore, 1920-29 ; Forman Christian Coll., Lahore, 1929-34 ; Punjab Univ. Information Officer, Press Information Bureau, Oct. 1941-June 1945 ; Dy. Principal Information Officer, Regional Office, P.I.B., Lahore, June 1945, acted as Public Relations Officer to the first Indian High Commissioner in Pakistan ; Director, Information & Publicity, Ministry of Relief and Rehabilitation ; Director, Indian Information Services, Ministry of External Affairs, 1948-49 ; Deputy Principal Information Officer, Ministry of Defence, Sept. 1953-March 1954 ; Principal Information Officer to the Govt. of India, March 1954-Oct. 1955 ; Officer on Special Duty, Ministry of Information and Broadcasting, Govt. of India, Oct. 1955-June 30, 1956 ; represented India at the Colombo Plan Information Officers' Conference, Singapore, Sept. 1958. *Club :* Delhi Gymkhana Club, New Delhi. *Address :* New Delhi.

BHARGAVA, Dr. Gopi Chand, Minister for Finance and Planning, Punjab. *b.* March 1890 at Sirsa ; *Educ. :* In his home town, Hissar and D. A. V. and Medical Colleges in Lahore. Practised as a doctor ; entered the political arena under the leadership of the late Lala Lajpat Rai ; was elected member, Municipal Cttee. and Pres., Lahore Congress Cttee. ; chosen as member, old Punjab Legislative Council, 1927 ; resigned in 1929 as a protest against the repressive policy of the Govt. ; was General Secy., Reception Cttee. of session of Congress at Lahore ; gave up practice in 1935 to concentrate on politics ; arrested during non-co-operation movement in 1921 and in 1923 ; detained twice during C. D. Movement ; elected M.L.A., Punjab, was elected leader of the Opposition, 1937 ; was returned to the Assembly, 1946 ; elected leader of the Congress Assembly Party in the East Punjab. Premier, East Punjab, August 15, 1947-June 1951. *Address :* Amrit Nivas, Nicholson Road, Ambala Cantt.

BHARGAVA, Kalka Prasad, M.A. (Allahabad), I.C.S., member, Board of Revenue, U.P., Lucknow since May 1959. *b.* July 15, 1908 ; *Educ. :* Agra Coll., Agra ; Allahabad Univ. ; Emmanuel Coll., Cambridge. Passed the I.C.S. Exam. in India, 1931 ; spent the probationary period at Cambridge ; allotted to the U.P. Cadre of the Service ; Food Commissioner, U.P., April 1951-Feb. 1953 ; Chief Secy., U.P., March 1953-Aug. 1954 ; Chief Commr., Bhopal, Dec. 1954-Oct. 1956 ; Chief Commissioner, Tripura, Nov. 1956-July 1958 ; Chairman, Inter-State Transport Commission, upto December 1958. *Recreations :* Photography. Gardening. *Club :* Mohammad Bagh Club, Lucknow. *Address :* Board of Revenue, Lucknow.

BHARGAVA, Krishna Dayal, M.A., Director of Archives, Govt. of India. *b.* Oct. 3, 1912 ; *Educ. :* Govt. Coll., Ajmer, Allahabad Univ. Served as Lecturer in History, Govt. Coll., Ajmer ; joined the National Archives of India 1942 ; Narrator, Historical Section, Ministry of Defence, 1948-50 ; Dy. Director, Research and Reference Division and Dy. Director (Editorial), Publications Division till the close of 1955. *Publications : A Survey of Islamic Culture and Institutions ; Calendar of Persian Correspondence*, Vol X ; *The Re-conquest of Burma*, Vol I (Partly) ; Joint author of *Campaigns in S.E. Asia, The Teachings of the Buddha* (1956). *Recreations :* Cricket, Contract Bridge. *Address :* 84M, Connaught Circus, New Delhi.

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BHARGAVA, Shiam Behari Lal, Joint Manager, Jaipur Spg. & Wvg. Mills Ltd. *b.* 1903, of an ancient family of scholars in Jaipur; *Educ.:* B.Com. from the Sydenham Coll. of Commerce and Economics, Bombay, 1926. Joined the Accounts Office of the former Jaipur Govt. early in 1927; served in various responsible posts in that office; services lent to the Bank of Jaipur Ltd. on its inception, 1943; became Manager, Head Office and Controller of all Rajasthan Branches; organized the Rajasthan Financial Corporation from the very beginning, 1955; appointed its First Managing Director and held the office for six years; is Chairman: Federation of Consumers' Co-operative Societies, Rajasthan; Jaipur Co-operative Stores Ltd.; was member, Exec. Cttees., Rajasthan Chamber of Commerce and Industry for a number of years; Jaipur Chamber of Commerce and Industry; Vice-Pres., All-India Bhargava Sabha; State Treasurer, Bharat Scouts and Guides, Rajasthan; takes active interest in other social activities. *Address:* Krishna Bhawan, Amer Road, Jaipur.

BHARGAVA, Mr. Justice Vashishtha, B.Sc. (Hons.), M.Sc. (Allahabad), Judge, High Court of Judicature at Allahabad, since 1949. *b.* Feb. 5, 1906; *Educ.:* Govt. High School, Meerut; Govt. High School, Pratapgarh; Ewing Christian Coll., Allahabad; Univ. of Allahabad. Joined the Indian Civil Service, 1930; Joint Magistrate and Asstt. Collector, U.P., 1930–35; Civil and Sessions Judge, U.P., 1935–37; Dist. and Sessions Judge, U.P., 1937–47; Addl. Commissioner, Food & Civil Supplies, U.P., 1947–48; Judicial Secy. and Legal Remembrancer, U.P. Govt., 1948–49. *Recreation:* Golf. *Club:* Allahabad Golf Club. *Address:* 5, Ashok Road, Allahabad (U.P.).

BHASIN, Prem, M.A. (Political Science) (Lahore), Joint Secretary, Praja Socialist Party. *b.* Dec. 27, 1917, at Rawalpindi; *Educ.:* D.A.V. School and College, Rawalpindi; and M.A. from Dyal Singh Coll., Lahore, 1939. Joined the Congress Socialist Party, 1937; courted jail in the freedom movement; elected to the National Executive, Socialist Party of India, 1947; Joint Secy., Socialist Party of India, 1948–52; Joint Secy., Praja Socialist Party, October, 1952; Secy., First Asian Socialist Conference, Rangoon, Jan. 1953; toured Sweden, Norway, Denmark, United Kingdom, France, Switzerland, West Germany, Austria, Yugoslavia, Italy, Israel, and Pakistan, July-Oct. 1953; Representative of the P.S.P. on the Asian Socialist Conference Bureau, 1956-57. *Publications: Pakistan and its Implications*—1947, Lahore. *Address:* 18, Windsor Place, New Delhi.

BHAT, Atmaram Raoji, M.Com., M.L.C., Editor, "Sampada", Marathi Commercial monthly, Poona. *b.* 1905; *Educ.:* Sydenham Coll. of Commerce and Economics, Bombay. Sir James Begbie Commerce Scholar 1925-27 and Govt. Fellow 1927-29. Business Manager, "Kesari-Mahratta" office, till 1952; founded the Mahratta Chamber of Commerce and Industries, Poona, 1934; its Honorary Secy. and Trustee, since then; Pres.: Indian Languages Newspapers' Assoc., since 1949; Federation of Assocs. of Small Industries of India, since 1959; member: Bombay Leg. Council, since 1952; Press Commission, 1952-54; Textile Mills Inv. Cttee., 1957-58; Small Scale Industries Board, since 1957; Import Advisory Council, Govt. of India, 1952-59; National Productivity Council since 1958; Poona Regional Transport Authority since 1960; State Industries Advisory Council, since 1950; Maharashtra State Port Advisory Board since 1960; Chairman, All-India Labour Laws Forms and Returns Consolidation Cttee., 1959-60; member: Wage Board of Working Journalists, 1956-57; Participating Expert, UNESCO Conference on Mass India Dev. in South East Asia, Bangkok (Thailand), Jan. 1960. *Address:* 256, Sadashiv, Poona 2.

BHATT, Jyotindra Manshanker, Post-Diploma in Painting, President's Gold Plaque (1956), Painter. *b.* March 12, 1934; *Educ.:* Fine Arts Coll.; M.S. Univ. of Baroda, Baroda; Diploma in Painting, 1954 and Post-Diploma (Specialization), 1956; has been a painter; awarded President's Gold Plaque under the auspices of the Lalit Kala Akadami, 1956; recipient of a Cultural Scholarship of Govt. of India in Painting (1957-59) under the guidance of Prof. N. S. Bendre at Baroda; Secy., Baroda Group of Artists; teaches painting in the Deptt. of Painting, Faculty of Fine Arts, M. S. Univ., Baroda. *Address:* Fine Arts College, University Road, Baroda 2.

BHATT, Ravishanker Santoshram, B.A. (Bombay), B.A. (Hons.) (Lond.), M.A. (Lond.), Executive Director, Indian Investment Centre, New Delhi. *b.* Dec. 13, 1909; *Educ.:* Samaldas Coll., Bhavnagar; Bombay School of Economics and Sociology; B.A. (Hons.), 1932 and M.A., 1936 from London School of Economics and Political Science, London. Secy., Industrial Investment Trust, 1936-40; Secy., Diwan's Office, Bhavanagar and subsequently Nayab Diwan (Finance and Railway), 1940-47; Finance Officer, Oriental Govt. Security Life Assurance Co., 1948-53; Managing Director, Bombay State Financial Corporation, Nov. 1953-May 1957; member, Tariff Commission, 1957-61. *Publications:* Literary essays and special studies on Economics and financial subjects in various journals. *Recreations:* Cricket, Tennis. *Clubs:* Rotary Club, Bombay. *Address:* National Insurance Building, Parliament Street, New Delhi 1.

BHATT, Dr. Suryakant Jethalal, M.B.B.S. (Bom.), J.P. and Hon. Presidency Magistrate, Medical Practitioner; Ex-Pres., Malad Dist. Municipality. *b.* Sept. 29, 1913; *Educ.:* Radhanpur High School; Baroda Coll. and Grant Medical Coll., Bombay; took M.B.B.S., 1938. Worked as House Surgeon, J. J. Hospital for 1½ years; started independent practice at Malad, 1940; was Medical Officer, Choksey Charitable Dispensary, Malad and Goregaon and Manori Local Board Dispensaries; Divisional Medical Officer, A.R.P., Malad Divn., during World War II; Life Member, St. John's Ambulance Assoc.; Secy., St. John's Ambulance Assoc., Malad Centre; Vice-Pres., West Suburban Branch of Indian Medical Assoc.; elected the first Pres., Malad Dist. Municipality, 1951; Pres., Shree Baj Khedawal Samaj, Bombay; Medical Officer, Bombay Talkies Ltd., Malad, 1944-53; Chairman, Advisory Board of the Fatimadevi English High School, Malad; Life Member, Malad Kandivlee Education Society, Malad; Hon. Treasurer and Hon. Secretary, Bombay Khedawal Educational Society, Bombay. *Address: Dispensary:* Krishna Baug, Station Road, Malad; *Residence:* Podar Estate, Block No. 21, Daftary Road, Malad.

BHATT, Smt. Urmilaben Premshankar, B.A. (Special), Deputy Minister for Social Welfare and Prohibition, Gujarat State, since May 1, 1960. *b.* April 11, 1922, at Mandvi, Surat Dist.; *Educ.:* Mandvi High School, Mandvi, Surat Dist.; M.T.B. Coll., Surat. Entered public life, 1948; is Hon. Secy., Dakshin Gujarat Rani Pradesh Kelvani Mandal, Surat; elected Vice-Chairman, Dist. School Board, Surat, 1954-58; is member, Social Education Cttee. of the Dist.; actively participated in Congress activities; elected Secy., Chorashi Taluka Congress Cttee.; was co-opted member, Gujarat P.C.C.; was also member, Dist. Co-operative Board; member, Bombay State Social Welfare Advisory Board, 1955-60. *Address:* Bungalow No. 8, Ahmedabad 3.

BHATTACHARYA, Mr. Justice Bimal Kumar, M.A., LL.B., Ph.D. (Lond.), Barrister-at-Law, Judge, High Court, Calcutta, since Dec. 1957. *b.* Sept. 10, 1902; *Educ.:* Presidency Coll., Calcutta; Krishnath Coll., Berhampore; Univ. Post-Graduate; Law Coll.; London School of Economics; Gray's Inn, London; Prof. of History, Diocesan Coll., Calcutta (1928-29); Calcutta Univ. Gold Medal for Best Physique (1928); Special Magistrate (1940-42); Food Exec. Officer, Calcutta (1943); Special Officer and Dy. Controller of Rationing, Calcutta (1943-45); Spl. Officer, Anti-corruption, W. Bengal (1949); Ghosh Travelling Fellow, Calcutta Univ. (1949-50); Dist. & Sessions Judge; Chief Presidency Magte., Calcutta (1952); Registrar, High Court, Calcutta (1952-55); Judge, Industrial Tribunal, Calcutta; Dy. Election Commissioner of India, New Delhi (1956-57). *Publications: Insanity and Criminal Law; Prisons. Address:* C/o National and Grindlay's Bank Limited, 6, Church Lane, Calcutta 1.

BHATTACHARYYA, Chapalakanta, M.A., B.L., M.P. (Lok Sabha), Editor, *The Ananda Bazar Patrika. b.* January 1901; *Educ.:* Orthodox Sanskrit Schools; Calcutta Aryan Institution; Presidency Coll., Calcutta Univ. Advocate, Calcutta High Court; edited an English weekly "The New Era"; editorial staff of "Forward" of late Deshbhandhu C. R. Das; Congress worker since 1920; member. Provincial Cttee. and the A.I.C.C.; joined the Unity Conference at Allahabad, 1932; Secy. of the Party in Bengal; member, International Press Institute, Indian Cultural Academy, International Sanskrit Institute; Secy. and Head, Dept. of Journalism; member, Senate and Syndicate, Calcutta Univ.; Secy., Sanskrit Sahitya Parishad, Bengal Akhil Bharat Devabhasa Parishad. *Publications: Congress in Evolution; Radcliffe Award—a case for Revision* in English; and several works in Bengali. *Address:* 24A, Hemendra Sen Street, Calcutta 6.

BHATTACHARYYA, Pares Chandra,* M.A., Chairman, Board of Directors, State Bank of India, since March 1, 1957. *b.* March 1, 1903; *Educ.:* Univ. of Calcutta and Dacca. Joined the Indian Audit and Accounts Service, 1928; was in the Railway Accounts Dept. upto 1939; served in the Ministry of Finance, Government of India, in different capacities, 1939–52; Financial Commissioner, Railways, 1952–55; Secretary, Ministry of Finance, Govt. of India, Nov. 1955–Feb. 1957. *Address:* State Bank of India, Bombay.

BHATTACHARYA, Sushil, B.A. (Cal.), Secretary, the Revolutionary Socialist Party of India. *b.* Nov. 15, 1908; *Educ.:* Cal. Univ. Joined the secret revolutionary movement while a student; arrested and jailed, 1931-38; joined Congress Socialist Party 1939; was its Organising Secy. at Delhi; broke away from the party and joined the R.S.P., 1940; arrested at Allahabad as organiser of the R.S.P., 1941; figured prominently in the Lucknow-Barabanki conspiracy case; released, May 1946; went to China as leader of the U.T.U.C. delegation to the May Day celebration, 1955. *Publications:* Hindi Book on *R.S.P. Hi Kyun;* articles in *The Call* and *Mehnatkash* (Hindi weekly). *Recreations:* Reading of novels depicting real life of different nations; chitchat with workers; Tennis; Volley-ball. *Address:* 780, Ballimaran, Delhi 6.

BHAVE, Acharya Vinoba, Social Worker. *b.* Sept. 11, 1895, in Gagoda village near Pen, Kolaba Dist.; *Educ.:* Primary education in Gagoda; Baroda Coll., Baroda. At the age of 10, took a vow of celibacy and dedicated his life to the service of the country; at the age of 19, gave up studies and left home; went to Varanasi to study Sanskrit; heard of Gandhiji's historic speech at Varanasi Univ. and contacted him. Joined the Sabarmati Ashram, 1916; took a prominent part in all the activities of the Ashram; was made the head of the new

* Is due to take over as Governor, Reserve Bank of India from March 1, 1962.

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Ashram at Wardha; started another hermitage at Paunar on the banks of the river Dham, six miles from Wardha; was named by Gandhiji as his first representative in the individual C. D. movement, started against the Br. Govt.'s policy of involving India in the World War II, 1940; was Director, Mahila Ashram, Wardha for a long time; imprisoned in the Freedom movement; staunch advocate of a new order of Society based on non-exploitation and non-violence; originator of the Bhoodan Yagna and the Sampattidan Movement; travelled over Telangana and successfully persuaded the landlords to donate land, and made it over to the landless poor; has been on a constant walking tour since Sept. 1951 through many States to promote the cause of Bhoodan which has now reached the phase of Gramdan and Gram Rajya; has made a study of all religions; is a linguist, knows Marathi, Hindi, Gujarati, Persian, Arabic, English, Bengali, Assamese, Oriya, Tamil, Telugu, Malayalam and Kanarese; is an effective speaker; undertook peace mission in the dacoit infested area of Bah-Pinahat on the border of U.P., M.P. and Rajasthan, Dists. of Bhind and Morena, 1960; 19 dacoits surrendered. *Publications:* several Marathi and Hindi Books of deep scholarly nature. *Gitai*, Marathi translation of Bhagavat Gita. *Address:* Sarva Seva Sangh, Golghar, Varanasi P.O. (U.P.).

BHAVE, Purushottam Bhasker, B.A., LL.B., Marathi author and journalist and play and screen play writer. *b.* April 12, 1910; *Educ.:* Hislop Coll. and the Univ. Coll. of Law, Nagpur. Practised as lawyer at the Nagpur Bar, 1939-42; Co-editor, the weekly *Savadhan*, Nagpur, 1935-39; worked actively for the C.P. Marathi Hindu Sabha, 1934-48; held various offices in the organization from Vice-Pres. to the General Secy.; edited the weekly *Adesh*, Nagpur, 1940-48. *Publications:* 15 story books, two plays, three novels, and two essay collections. *Recreations:* Gardening; Hitch-hiking. *Address:* West Park Road, Dhantoli, Nagpur 1; Watwe's Bungalow, Dombivli, Thana Dist., Maharashtra.

BHAVNAGAR: Commodore His Highness Maharaja Raol Shri Sir Krishnakumarsinhji Bhavsinhji, K.C.S.I. (1938), Maharaja of. Was First Class Ruling Prince in Kathiawar. *b.* May 19, 1912; *Educ.:* at home under Major Lentaigne and A. P. Pattani; joined the Rajkumar Coll., Rajkot, 1922; proceeded to England for further studies in 1925 and joined the Rev. Brayer's School in Essex and then was admitted to Harrow; returned from England in 1928 and attended lectures in History, Politics, English, etc., at the Samaldas Coll., Bhavnagar. Lieutenant in 1937; Colonel in 1945; Hon. Commodore in the I.N. in 1947; attended meetings of the R.T.C.; toured various parts of India, England and America; invested with ruling powers on 18th April, 1931; granted responsible government to his State, Jan. 1948; Uparajapramukh of Saurashtra Union, Feb. 1948; Acting Rajpramukh, June 1948; Governor of Madras, 1948-52. *Recreations:* Riding, Hunting, Racquets, Tennis, Polo, Golf, Rowing, Fishing, Farming and Cricket. *Address:* Nilambag Palace, Bhavnagar.

BHEEKHA Bhai, B.A., LL.B., Minister for Irrigation and Ayurved, Govt. of Rajasthan, since Feb. 10, 1960. *b.* April 28, 1916; *Educ.:* Maharana Coll., Udaipur; Govt. Coll. Ajmer; Benaras Hindu Univ. Law Coll. Advocate; Munsiff-Magistrate, 1942-48; Education Minister in 1st Congress Ministry, former Dungarpur State, 1948; member: Scheduled Tribes Advisory Council, Rajasthan, since 1952; M.P., 1952-57; member: Backward Classes Commission, Govt. of India, 1953-55; Congress Exec. Party in Parliament; Planning Board, Rajasthan, since 1953; Dy. Min. for Irrigation, Power, Health and Social Welfare, Rajasthan, 1957-60; Indian delegate to the 9th International Conference of Social Work, 1959; member, Central Exec. Cttee., Indian Conference of Social Work; Secy., Rajasthan Adimjati Sewak Sangh, Jaipur. *Special interest:* Social service amongst the aboriginals. *Address:* 51, Sardar Patel Marg, Jaipur.

BHIDE, M. R., B.Sc. (Nagpur), B.A. (Cantab.), I.C.S., Secy. to the Govt. of India, Ministry of Community Development and Co-operation, since April 1960. *b.* Dec. 6, 1907; *Educ.:* Nagpur and Cambridge; Indian Civil Service. Jt. Secy., Deptt. of Economic Affairs, Govt. of India, Dec. 1955-June 1957; Jt. Secy., Planning Commission, Govt. of India, June 1957-March 1959; Adviser, Planning Commission, March 1958-Jan. 1959. Addl. Secy. to the Govt. of India, Deptt. of Co-operation, Jan. 1959-April 1960. *Publications: Marketing of Sugarcane in United Provinces. Recreations:* Cricket, Tennis and Bridge. *Clubs:* Cricket Club of India; Delhi Gymkhana; Roshanara Club. *Address:* 17, Safdarjang Road, New Delhi.

BHONSLE, Shrimati Nirmala Raje, Deputy Minister for Education, Maharashtra State, since May 1, 1960. *Educ.:* Baroda and Poona, Joined the Congress as an active working member after the merger of Akalkot State, 1948; was elected M.L.A., Bombay from North Sholapur constituency, 1952; appointed Hon. Parliamentary Secy. to the Chief Minister of Bombay, Sept. 1952; became Chairman, Sholapur City Social Education Cttee., 1952; has been Chairman, Bombay Labour Welfare Board, since July 1953; Dy. Min. for Education, Bombay State, 1956-60; Chief Commissioner, Bharat Scouts and Guides, Maharashtra; Vice-Pres. of Bharat Sevak Samaj; Vice-Patron, Indian Red Cross Society; travelled extensively in Europe to study Art; is an Art Critic. *Recreations:* Studying Sanskrit, gardening, poultry keeping, tennis, riding, badminton, swimming, painting and Indian classical music. *Clubs:* Poona Club. W.I.A.A. *Address:* 8/A, Foreshore Road, Opp, Sachivalaya. Bombay 1; Shobha Nagar, Sholapur.

BHOOTHALINGAM, Subramanya, M.A. (Cantab.), I.C.S., O.B.E. (Jan. 1945), Secretary to the Govt. of India, Ministry of Finance (Deptt. of Expenditure), since July 24, 1961; Member, Univ. Grants Commission, since Aug. 1961. *b.* Feb. 22, 1909; *Educ.:* Caius Coll., Cambridge. Joined I.C.S., Oct. 14, 1931; posted to Madras; served in various capacities till 1938; Officer in Charge, Agricultural Credit, Reserve Bank, Dec. 1938-40; Under Secy., Deptt. of Supply, Govt. of India, Jan. 1940; served as Dy. Secy., Joint Secy., Special Secy. and Secy., Govt. of India in the Ministries of Industry & Supply and Commerce & Industry till June 1955; Collector & District Magistrate in Madras State, May to Nov. 1946; Chairman, Hindustan Steel, Aug. 1955 to April 1958; Secy., Min. of Steel, Mines & Fuel, 1955-61; Director, Tata Iron, Indian Iron, National Industrial Development Corporation and National Coal Development Corporation; Leader of the Steel Delegation to U.K. and the Continent, 1956 and 1957-58. *Clubs:* Delhi Gymkhana Club. *Address:* 25, Tughlak Road, New Delhi 2.

BHUSHAN, Vidya, G. D. Art (Bombay), Diploma in Mosaic and Fresco (Belgrade), Artist; Head of Painting Deptt., Govt. Coll. of Fine Arts, Hyderabad. *b.* June 15, 1923; *Educ.:* Udgir (Dist. Bidar); G. D. Art (Bombay), 1944 and Diploma in Mosaic and Fresco (Belgrade), 1955. Won several prizes in A.I. art competitions; held one man shows in Hyderabad and Delhi; did Murals for Nizam's palace, Delhi; did several life size portraits for Govt. Buildings in Hyderabad and Delhi; won Gold Medal in Hyderabad, 1942; was free lance artist till 1952; won President's Gold Plaque in the National Exhibition of Art at Delhi, 1957; won Silver medal in the International Exhibition of Art in Moscow, July 1957; was a Kathak dancer; member, Music and Dance Academy; Active member, Hyderabad Art Society. *Address:* Gagan Mahal Co-operative Colony, Hyderabad-Dn.

BILLIMORIA, (Mrs.) Gulestan Rustom (*née* Gulestan Bahadurji), M.A., Licentiate, Trinity College of Music, London; Sheriff of Bombay (1957), obtained various University and College Scholarships for a number of years: Fellow and Syndic of the Bombay University; her paintings have won prizes at Art Exhibitions all over India and one has been bought by and hangs in the Prince of Wales Museum; Chairman, Junior Red Cross; President: United Women's Organizations Cttee.; Indian Conference of Social Work, Maharashtra Branch; Bombay State Women's Council, 1958 and 1959; Hon. Secretary, All-India Conference of Social Work, 1949–56; Asstt. Treasurer, International Conference of Social Work 1954-60; member, Central Advisory Board for National Savings; Treasurer, Bombay State Social Welfare Advisory Board, 1954-56 and Bombay State Council on Blind Welfare; member, Bombay State Social Welfare Council; is actively connected with various other associations; has travelled widely in Europe and America and led delegations to International Conferences; takes keen interest in her husband's Bel-Air Sanatorium at Panchgani for consumptives; contributes articles to various papers; awarded Kaiser-i-Hind Silver Medal. *Publications:* Joint Author of *Governance of India* and also of *Constitution, Functions and Finance of Indian Municipalities*, a book favourably reviewed by the Press, including the *London Times Literary Supplement*. *Address:* Thoburn House, Apollo Bunder, Bombay.

BIRLA, B. M., Industrialist. *b.* 1904, at Pilani, Rajasthan. One of the founders, Indian Chamber of Commerce; Pres.: Indian Chamber of Commerce, 1936 and 1944, Federation of Indian Chambers of Commerce & Industry, 1954; Founder and Pres.: Indian Sugar Mills Assoc.; Indian Paper Mills Assoc.; Ex-member, Fiscal Commission, Govt. of India; formerly Director, Central Board of the Reserve Bank of India; Chairman; Local Board, Reserve Bank of India, Eastern Area; West Bengal Financial Corporation; Hindustan Motors Ltd.; Ruby General Insurance Co., Ltd.; India Exchange Ltd.; Managing Director, Birla Brothers Ltd.; Director: Atul Products Ltd.; Hukumchand Jute Mills and various other concerns. *Address:* 8, India Exchange Place, Calcutta 1.

BIRLA, Ghanshyamdas, Padma Vibhushan (1957). *b.* 1894. Managing Director of Birla Brothers, Ltd.; member, 2nd Indian Legislative Assembly; resigned in 1930 as a protest against legislation for Imperial Preference; President: Indian Chamber of Commerce, Calcutta, 1924; Federation of Indian Chambers of Commerce and Industry, 1929; has been responsible for the founding and maintenance of a large number of educational and other public institutions in various parts of the country; member: Indian Fiscal Commission; Bengal Legislative Council; Royal Commission on Labour; Delegate, Labour Conference at Geneva, 1927; member, 2nd Round Table Conference, 1930; Unofficial Adviser to Government of India for Indo-British Trade Negotiations, 1936-37; *Address:* 8, India Exchange Place, Calcutta; Birla House, New Delhi.

BIRLA, Lakshminiwas, Industrialist. *b.* 1909, at Pilani, Rajasthan; *Educ.:* at College, 1924-27. Broker, Jute and Gunny, 1926-29; Dir. in charge of Cotton Mills, Jute Mills and Engg. Industries, etc.; member, Utilisation Br., Geol. Survey of India, 1944-47; Employers' delegate, 27th International Labour Conference, 1945; Managing Director, Birla Brothers Pvt. Ltd. controlling various industries; Chairman, Bd., Industries, Govt. of West Bengal, 1953-5?; member

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Industrial Advisory Council, Rajasthan; War Risks Advisory Cttee., Govt. of India; Pres., Indian Chamber of Commerce, 1951-52; member, Cttee. of the Federation of Indian Chambers of Commerce & Industry. *Recreations:* Gardening; Expansion of education and learning. *Address: Residence:* Birla Niket, Raja Santosh Road, Calcutta; *Office:* 8, India Exchange Place, Calcutta.

BIRLA, Rameshwardas, Industrialist and Business man. *b.* May 1892; Director: Birla Bros. Private Ltd. *Address:* Industry House, 159, Churchgate Reclamation, Bombay 1.

BISHI, Pramathanath, M.A., Bengali Writer; Reader in Bengali, Calcutta Univ. *b.* June 11, 1901; *Educ.:* Viswabharati Univ.; Calcutta Univ. Lecturer in Bengali, Ripon Coll. for ten years; Asstt. Editor, *Ananda Bazar Patrika,* Calcutta for four years. *Publications:* About 80 books on various subjects in almost every form; some of his books are: *Carey Shaheber Munshi* (novel); *Rabindra Karya Probaha* (criticism); *Chitra Chaitra* (biography of an age); *Yukta Veni* and *Uttar Megh* (poems); *Monchake Dhil* (drama). *Recreations:* Reading. *Address:* 162/36, Prince Anwarshah Road, Lake Gardens, Calcutta 31.

BORKAR, Shankar Keshav, M.Sc. (Bombay). A.R.I.C., Drugs Controller, Govt. of India, since Dec. 1956. *b.* Jan. 28, 1909; *Educ.:* Wilson Coll., Bombay. Asstt. Drugs Controller, Govt. of India, 1947-51, Advisory Chemist, Directorate General of Health Services, New Delhi, 1951-56; Deputy Drugs Controller, Govt. of India, May-Dec. 1956; member, Indian Pharmaceutical Delegation which visited Russia, Italy and Germany in 1956. Member-Secy.: Drugs Technical Advisory Board; Indian Pharmacopoeia Cttee.; member: Development Council for Drugs, Dyes & Intermediates; Scientific Advisory Board of the Central Drug Research Institute, Lucknow; Director: Hindustan Antibiotics Ltd.; Chairman, Drugs Consultative Cttee. under the Drugs Act; Industrial Adviser, Drugs and Pharmaceuticals; member: Coal Tar Food Colours Cttee., I.S.I.; Ad Hoc Advisory Cttee. of the M. of C. & I. in regard to medicines; Medicinal Plants Cttee., I.C.A.R. *Address: Residence:* 56, Wellesley Road, New Delhi; *Office:* Directorate General of Health Services, New Delhi.

BOGH Andersen, H.E. Mr. Arne, B.L. (Copenhagen), Ambassador of Denmark to India, since 1959. *b.* Sept. 2, 1909; *Educ.:* Univ. of Copenhagen, Bachelor of Law, 1934. Entered the Foreign Service of Denmark, 1934; Vice-Consul in Shanghai and Attache at the Legation of Denmark in China, 1939; Deputy Secy., Ministry of Foreign Affairs, Copenhagen, 1947; Joint Secy., Administrative Deptt., Ministry of Foreign Affairs, Copenhagen, 1950; Counsellor and Dy. Chief of Mission, Embassy of Denmark, Washington D.C., 1954. *Address:* 7, Tees January Marg, New Delhi.

BOOK, H. E. Mr. *Klas* **Erik,** Lic. phil., Ambassador of Sweden to India. *b.* March 10, 1909; *Educ.:* Univ. of Lund, London School of Economics. Joined Bank of Sweden, 1936; Head of Statistical Section, 1940; Manager, 1943; Deputy Governor, 1944; Head of Commercial Section, Ministry of Foreign Affairs, 1947; Governor, Bank of Sweden, 1948; Chairman, Foreign Exchange Board, 1948; member of Board, Bank for International Settlements, 1949; Minister to Canada, 1951; Ambassador to China and Minister to Thailand 1956; Ambassador to India and Nepal and Minister to Ceylon, 1961. *Publications:* Various economic papers. *Address:* Swedish Embassy, New Delhi 21.

BOSE, Buddhadeva, M.A. (English), Writer in Bengali and English; Professor and Head of the Deptt. of Comparative Literature, Jadavpur Univ., Calcutta, since Aug. 1956. *b.* Nov. 30, 1908; *Educ.:* Dacca Collegiate School and Dacca Univ. Adviser, UNESCO Seminar for Adult Education, Delhi and Mysore, 1952-53; Visiting Professor of English Literature at Pennsylvania Coll. for Women, Pittsburg, U.S.A., 1953-54; visiting Professor of Comparative Literature, New York Univ., 1961; Founder-editor of *Kavita (Poetry),* *Publications:* About 100 titles in Bengali; English: *An Acre of Green Grass.* *Recreations:* Reading and Conversation. *Club:* P.E.N. *Address:* Kavitabhavan, 202, Rashbehari Avenue, Calcutta 29.

BOSE, Debaki Kumar, Padma Shri (1958), Motion Picture Producer and Director. *b.* Nov. 25, 1898; *Educ.:* Metropolitan Institution, Central Coll. and Vidyasagar Coll., Calcutta. Joined the non-co-operation movement while taking B.A. degree examination; managed and edited a nationalist weekly for some time; came to films as a story-writer, then turned actor and director; directed his first film "Blind God" produced in 1929; has so far directed 42 pictures; floated his own producing company, 1948. *Address:* 5, Dr. Satyananda Roy Road, Calcutta 29.

BOSE, Debendra Mohan, M.A., B.Sc., Ph.D., F.N.I., Director, Bose Institute, Calcutta, since 1938. *b.* Nov. 26, 1885; *Educ.:* Calcutta, Cambridge, London, Berlin. Ghosh Professor of Physics, Calcutta Univ., 1914-35; Palit Prof. of Physics, Calcutta Univ., 1935-38; General Pres., Indian Science Congress, 1953; Pres., Asiatic Society, Calcutta, 1955-57. *Address:* 92/3, Upper Circular Road, Calcutta 9.

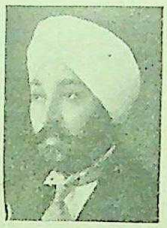
BOSE, Mr. Justice Himansu Kumar, M.A., B.L. (Calcutta), Bar-at-Law (Lond.). Chief Justice, High Court, Calcutta, since June 1961. *b.* March 1, 1904; *Educ.:* Univ. of Calcutta; called to the Bar from Lincoln's Inn, London, June 1929. Practised as Barrister in the Calcutta High Court from Sept. 1929; Judge, Calcutta High Court, 1949-61. *Club:* Calcutta Club, Calcutta. *Address:* 9/4, Middleton Row, Calcutta 16.

BOSE, Dr. Nandalal, D.Lit., Desikottama, Padma Vibhushan (Jan. 26, 1955), Painter. *b.* Dec. 3,1883, at Kharagpur in Monghyr (Bihar); *Educ.:* Govt. Art School, Calcutta; was thereafter a student of Abanindra Nath Tagore. Was Principal, School of Arts of the Oriental Society, Calcutta; Director, Kala Bhavana, Santiniketan, 1922; travelled in China and Japan, with poet Rabindranath Tagore, 1924; helped Mrs. Heringham and executed along with other artists copies of Ajanta Frescoes, 1909; painted frescoes in Sir J. C. Bose's Science Institute, 1919; co-operated with other artists in making copies of Bagh caves frescoes 1921; was conferred Doctorate by the Benaras Hindu Univ., Dec. 26, 1950; the title of Deshikottama by the Visva-Bharati Univ., Dec. 28, 1952; Doctorate by the Cal. Univ., Jan. 23, 1957; awarded Dadabhai Naoroji Prize for the year 1957; is the first fellow of the Lalit Kala Akademi. Emeritus Professor, Visva-Bharati Univ., Santiniketan. *Publications: Rupavali, Ornamental arts; Silpakatha,* etc. *Address:* Santiniketan.

BOSE, Satyendra Nath, M.Sc., F.N.I., D.Sc. (Hony.) (Jadavpur), Padma Vibhushan, (ex-M.P. Rajya Sabha), has been National Professor. *b.* Jan. 1, 1894; *Educ.:* Presidency Coll., and Univ., Calcutta; took M.Sc. degree, 1915; worked with Madame Curie, 1924-25 and with Albert Einstein, 1925-26. Lecturer, Calcutta Univ., 1916-21; Reader, Dacca Univ., 1921-24; Professor, Dacca Univ., 1926-45; Professor, Calcutta Univ., 1945-56; Vice-Chancellor, Visva-Bharati Univ., 1956-58. *Address:* 22, Iswar Mill Lane, Calcutta 6.

BOSE, Sunil Kumar, Scholar-musician, West Bengal; Director, Transcription and Programmes Exchange Service, A.I.R., New Delhi. *b.* June 23, 1914. *Educ.:* Calcutta Univ. Studied classical Music since childhood under several distinguished musicians in the country; recipient of "Best Man" Gold Medals at All-India Music Competitions organized in Calcutta and by Benaras Hindu Univ. in 1933; represented Bengal in almost all 'All-India Music Conferences' (1934-38); Music Director in Bengali films (1933-35); invented one musical instrument and named it "Ballaki" (substitute for Cello) while in Dacca (1941); Examiner in Music, Calcutta Univ. (1955-56); member: Board of Studies in Music, Nagpur Univ. (1957-59); Co-opted Member, Bombay Public Service Commission (1959). *Publications:* Several articles and Rotary Club lectures on Music published in India and abroad in several languages. *Address:* A.I.R., New Delhi.

BRAR, Major Sirdar Harbans Singh, Bar-at-Law, Advocate, Punjab High Court and Supreme Court of India; Vice-Pres. and Industrial Relations Adviser to the Northern India Mercantile Chembers of Commerce, Lucknow, Labour Adviser to the Western U.P. Chamber of Commerce, Meerut, Labour Laws Adviser to the Punjab and Delhi Chambers of Commerce, Delhi; and many other individual and large groups of industrial undertakings; landowner in Ferozepore and Hissar Districts (Punjab) and Farm Owner in Shahjahanpur (U.P.). *b.* Sept. 1905; *Educ.:* F. C. Coll., Lahore, Edinburgh Univ. and Middle Temple, London; called to the Bar in 1927; elected M.R.A.S.; F.R.E.S., F.R.S.A., F.R.H.S., F.R.G.S. and Governor, Royal Agricultural Society of England; took training in Rail Transportation on L.M. & S. Railway (England). Has travelled extensively in almost all parts of India and has visited Europe twice; Pres., Khalsa Jatha (Assoc.), British Isles (1926–27); Joint Secy., Indian Majlis, London (1925–26); Ex-Vice-Pres., Bhupindera High School, Moga; member: Central Gurdwara Board, Punjab (1930–36); Sirhind Canal Advisory Board, Ferozepore, 1930–52 and as Senior Vice-Chairman, held charge of the Departments of P.W.D., Public Health, Medical, Fairs and Ferries; was Chairman of the following Committees of Board: Rural Reconstruction, Development, Mass Female Education (1934–37); elected member of the Indian Leg. Assembly, 1930–34; member, Standing Finance Cttee., Govt. of India (1931–34); Standing Finance Cttee. for Railways (1932–34); Central Adivisory Council for Railways and Assembly House Cttee. (1932–34); in 1934 was elected by the Indian Legislative Assembly, a member of the Court of Delhi Univ.; practised as an Advocate in Ferozepore (1927-32); appointed Judge, High Court, Patiala State, in April 1932; Chief Justice and Judicial Minister, Malerkotla State, 1936–42; held charge of the Departments of Law and Justice, Jails, Municipalities, Medical, Education and P.W.D.; was invested with the powers of Ijlas-i-Khas (1938–42); was Pres., Claims and Advances Committee, and State Scout Commissioner, 1938–42; resigned office in Malerkotla State to join the Army for the duration of the war and served as Dy. Asstt. Welfare General and Dy. Asstt. Adjutant-General in the Indian Army. After the war was offered Chief Ministership of Dhankanal State (Orissa) by the Govt. of India, but joined as Head of the Labour Deptt., Indian Sugar Syndicate Ltd., Kanpur (a combine of all sugar factories in U.P. and Bihar), 1947–50; Secy. and Labour Adviser, Industrial and Power Alcohol Distillers' Assoc., 1950–52 and U.P. Sugar Mills Assoc., 1950–56. *Recreations:* Riding, Gardening and Tennis. *Address:* C/o Rajinder Narain & Co. Advocates, Connaught Place, New Delhi; D-403, Defence Colony, New Delhi 3.



BROKER, Gulabdas Harjivandas, B.A. (Bom.), Gujarati Playwright and Short Story Writer. *b.* Sept. 20, 1909; *Educ.:* Porbandar

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High School, Bharda New High School, Bombay and Elphinstone Coll., Bombay. Joined the Satyagraha Movement; jailed in 1932 for 16 months; member, B.P.C.C. and its Executive Cttees., till 1936; began writing while in jail; won gold medal in 1943 from Sahitya Parishad in Gujarati; won first prize for best drama written during 1947-54 from Government of Bombay in 1954; several other prizes in literature; member; Advisory Board for Gujarati of Sahitya Akademi, Delhi; Executive and Jt. Hon. Secy., Sahitya Parishad, Gujarat; Exec. member, Gujarati Natya Mandal; Jt. Editor, "Gujarati Natya Quarterly." *Publications:* about a dozen and a quarter books of short stories and Plays. *Clubs:* P.E.N., India Pres., Juhu Art Theatre, Bombay. *Address:* 26, Ghodbunder Road, Vile Parle West, Bombay 57.

BUTAIL, Roshan Lal, B.Sc. (Engg.), A.M. I.E.E. (London), Director (System Planning), Central Water & Power Commission (Power Wing), Simla, since July 18, 1955. *b.* Aug. 15, 1912; *Educ.:* Maclagan Engg. College, Lahore; Deputy Director, Central Water & Power Commission in the Commercial Directorate and the Load Survey & Load Development Directorates, Sept. 1949 to March 25, 1955; Director, Load Survey & Load Development, March-July, 1955; awarded U.N. Fellowship for studies in connection with preparation of Codes for Safe Design, Construction, Operation and Maintenance of Electrical Installations, in the U.K., Sweden, Norway, Germany and Switzerland, 1953-54. *Publications:* Safety from Electrical Hazards—Codes of Practice; Rural Electrification Finance—its practice abroad and possible application in India; training of engineering personnel in electricity supply industry, etc. *Clubs:* National Sports Club of India (Life Member); *Address: Residence*—C-3, Bemloe, Simla.

BUTCHI BABU, Sivaraju Venkata, Subbarao, M.A., Telugu Writer; Programme Executive, All India Radio. *b.* June 14, 1916. *Educ.:* A. C. Coll., Guntur; Presidency Coll., Madras; Nagpur Univ., Worked in the Deptt. of English in Govt. Ceded Districts Coll., Anantpur, 1942-44 and Mrs. A. V. N. Coll., Vizagapatam, 1944-45. *Publications:* Stories: *Butchibabu Kathalu; Chaitanya Sravanti; Asapriya; Ame Needa; Desam Nakitchina Sandesam; Nagajumeda; Jnananetram; Ellora; Kalalo Jarina Kanneeru Modu Kotulu; Kalachakram Nilchindi;* Plays: *Atmavanchana,* adjudged the best play of the year 1950 by the Andhra Nataka Kala Parishad (Kakinada); *Darini Poyye Danayya; Uttama Illalu; Adyantalu—Madhya Radha;* Novel: *Chivariki Migiledi; Abridged Edition by Southern Languages Book Trust* (1957). *Recreations:* Painting; Theatricals; Chess. *Address:* Programme Executive, All India Radio, Poona.

CAPOOR, Mr. Justice Shyam Bihari, B.A., Bar-at-Law, I.C.S., Judge, Punjab High Court, since Aug. 5, 1957. *b.* Jan. 15, 1907; *Educ.:* Allahabad Univ.; Oxford Univ.; Middle Temple, London. Appointed to the Indian Civil Service, 1931; has worked since then in various capacities in the Punjab and Delhi including District and Sessions Judge, Legal Remembrancer to the Govt., Joint Secy. to the Govt. of India in the Ministries of Rehabilitation and Law. *Address:* Chandigarh.

CARIAPPA, General K. M., O.B.E. (1945), Ex-High Commissioner in Australia and New Zealand and Ex-Commander-in-Chief, Indian Army. *b.* Jan. 28, 1900, in Coorg, South India; *Educ.:* Central High School, Mercara; Presy. Coll., Madras. Commissioned from Daly Coll., Indore, Dec. 1919; served in Iraq (Arab Rebellion), 1920-21 and on the N.W.F.P., 1922-25, 1928-30 and 1946; first Indian Officer to enter the Staff College, Quetta, 1933; saw service in Iraq, Syria and Iran, 1941-42 and in Burma (Arakan), 1943-44; promoted Major-General, Aug. 1947; was Chief of the General Staff for some time, G.O.C.-in-Chief, Eastern Command, Dec. 1947; transferred as G.O.C.-in-Chief, D.E.P. Command, Jan. 1948; Commander-in-Chief, Army, Jan. 1949 to Jan. 1953 in the full rank of a General; conferred "Legion of Merit," Degree of Chief Commander by President Truman, Aug. 31, 1949; awarded the Hon. rank of a full General in the Nepalese army by H.M. the King of Nepal, Oct. 1952; conferred the Hon. degree of Doctor of Science of the Agra Univ., Jan. 1953. *Recreations:* Squash; Golf; Riding; Cricket; Tennis. *Hobby:* Stamp collecting. *Address:* The Roshanara, Mercara, Coorg.

CASSAD, Dhunjisha Pestonji Ruttonji, M.Sc. (Eng.) (Lond.), B.Sc. (Bom.), M.R.S.H. (Lond.), M.M.G.I., M.I.E., M.Am.Soc.C.E., M.A.I.M.E., Chartered Engineer (Civil & Mining), Managing Director: Messrs. Central Provinces Syndicate (P) Ltd., Nagpur; Byramji Mining Combine (P) Ltd., Bombay and Nagpur; Kanhan Valley Coal Co. (P) Ltd., Nagpur; Star Ginning and Pressing Factories Ltd., Nagpur; Chairman and Managing Director: Nagpur Electric Light & Power Co. Ltd., Nagpur and Wardha. *b.* Sept. 16, 1907; *Educ.:* St. Paul's European High School, Rangoon; Deccan & Fergusson Colleges, Poona; Banaras Hindu Univ. and Univ. Coll., London. Conducted researches in London and Berlin in water filtration and rigid frame structures; formerly Consulting Civil Engineer, Bombay and Quetta; R.C.C. Engineer and Designer, Tata Chemicals Ltd., Mithapur; Civilian Engineer, M.E.S.; Commissioned Officer, Corps of Indian Engineers; Prof., School of Military Engineering, Roorkee; at present connected with the Mining Industry for Coal and Manganese in M.P., Maharashtra and Gujarat States and iron ore mining in Orissa; Pres.: Assoc. of Electricity Undertakings, Maharashtra; Vidarbha Productivity Council, Nagpur; Past Pres. and Member: Council, Institution of Engineers (India); Indian National Cttee., World Power Conference; Leader, Indian Delegation, World Power Conference, Montreal, 1958; Delegate, Employers' Federation of India to the I.L.O. Tripartite Technical Meeting for all mines except coal mines, at Geneva, 1957; Past Pres., M.P. Chamber of Commerce & Industries, Nagpur; Member: Nagpur Univ. Court Advisory Board, Western Zone Life Insurance Corporation, Bombay; Advisory Board, Indian School of Mines & Applied Geology, Dhanbad; M.P. & Vidarbha Mining Assoc., Nagpur; Indian Standards Institution, Engineering Division Council; Divisional Users' Consultative Cttee., Central Rly., Nagpur; Vidarbha Board of Secondary Education; American Society of Civil Engineers; American Institute of Mining and Metallurgical Engineers; Board of Control, New Engineering Coll., Sangli. *Publications:* Determination of the Temperature Co-efficient in Water Filtration (*Water and Water Engineering Journal*), July 1936; Typical Design for a R.C.C. Chimney—320 ft. high and 12 ft. dia. (*Indian Concrete Journal*), Sept. 1941. *Clubs:* Pres.: Modi Cricket Club, Nagpur; Vidarbha Volleyball Assoc., Nagpur; Gondwana Club, Nagpur; International Relations Club, Nagpur; Member: Rotary Club, Nagpur; C.P. Club, Nagpur; Willingdon Sports Club, Bombay; was Pres., Lions Club, Nagpur; Dy. Dist. Governor, Lions International District, 304-West. *Address:* The C.P. Syndicate (P) Ltd. 'Dolly Dale', Byramji Town, Nagpur; *Residence:* 'Shirin Lodge', Byramji Town, Nagpur; 'Currimbhoy Manor', 41, Warden Road, Bombay 26.

CHACKO, P. T., B.A., B.L., Minister for Home, Kerala, since Feb. 1960. *b.* April 9, 1915; *Educ.* St. Berchman's Coll., Changanacherry; St. Joseph's Coll., Tiruchirapalli; Law Coll., Trivandrum. Entered politics, 1938; participated in the struggle for freedom and for establishing Responsible Govt. in Travancore; convicted five times and was in jail for nearly three years in all; M.L.A.: Travancore, 1948-49; Travancore-Cochin, 1949-52; member: Indian Constituent Assembly, 1949-50; House of the People, 1952-54; resigned, 1954; M.L.A., Kerala, 1957-59; was leader of the opposition in Kerala Assembly; again elected to Kerala Assembly, 1960. *Publications: Communism; An Open Letter to Sir C.P.,* both in Malayalam. *Address:* Mount Lourdes, Vazhoor, Kerala.

CHAGLA, Mahomedali Currim, B.A., (Oxon.), Bar-at-Law, Hon. Fellow, Lincoln Coll., Oxford, Ex-Ambassador for India to U.S.A. Oct. 1958-61; was concurrently accredited to Mexico and Cuba. *b.* Sept. 30, 1900; *Educ.:* St. Xavier's High School and Coll., Bombay, and Lincoln Coll., Oxford; graduated at Oxford in Honours School of Modern History, 1922; Pres.: Oxford Asiatic Society, 1921; Oxford Indian Majlis, 1922; called to the Bar (Inner Temple), 1922; Prof. of Constitutional Law, Govt. Law Coll., Bombay, 1927-30; Hon. Secy., Bar Council of the High Court of Judicature at Bombay, 1933-41; Delegate to U.N. to fight the cause of Indians in South Africa, 1946; Puisne Judge, Bombay High Court, 1941-47; Vice-Chancellor, Bombay University, April-November, 1947; Pres., Asiatic Society of Bombay, since 1947; Chairman, Legal Education Cttee., 1948; member, Law Commission; Governor of Bombay, Oct. 14-Dec. 10, 1956. *Ad Hoc* Judge of the International Court of Justice, The Hague, 1957; Chairman, L.I.C. Cttee. of Enquiry, Feb.-March 1958; Chief Justice, High Court, Bombay, 1947-58. Received Hon. Degree of Doctor of Laws from the Univ. of Hartford, the Temple Univ., the Boston Univ. and Dartmouth College. *Publications: The Indian Constitution* (1929); *Law, Liberty & Life; The Individual and the State.* *Address:* Darbhanga Mansion, Carmichael Road, Bombay 26.

CHAINANI, Chief Justice Hashmatrai Khubchand, B.A. (Cantab.), Chief Justice, High Court, Bombay, since September 29, 1958. *b.* Feb. 29, 1904; *Educ.:* D.J. Sind Coll., Karachi and Magdalene College (Cambridge). Joined Indian Civil Service, Dec. 1927; toured round the world March-June 1935; thereafter appointed as Secretary, Bombay Legislative Council and Assistant Legal Remembrancer; was the first Secretary of the Bombay Legislative Assembly constituted under the Govt. of India Act, 1935; again visited Europe, 1939; Joint Secretary, Home Department, Govt. of Bombay, 1942; subsequently transferred to Govt. of India, Home Dept. where he officiated for some time as Joint Secretary; posted to Surat as District Judge, Jan. 1944, and subsequently served in the same capacity at Ahmedabad; Commissioner, Central Division, Sept. 1947-Aug. 1948; Judge, Bombay High Court, Aug. 1948–Sept. 1958. *Address:* High Court, Bombay.

CHAKRAVARTY, Birendra Narayan, B.Sc., O.B.E. (1945), High Commissioner in Canada, since Oct. 1960. *b.* Dec. 20, 1904; *Educ.:* Presidency College, Calcutta; Univ. Coll., London. Joined the I.C.S., 1929; held various appointments in Bengal districts; Finance Secy., Bengal Govt., Nov. 1944; Secy. to Governor, West Bengal, August 15, 1947; Counsellor, Indian Embassy in Nanking, China, February 1948; Head of Indian Liaison Mission, Tokyo, Japan with personal rank of Minister, June 1948-49; Jt. Secy., Ministry of External Affairs 1949-51; Secy., Commonwealth Relations, Govt. of India, 1951-52; Indian Ambassador in the Netherlands, 1952-54; Senior Alternate Chairman, Neutral Nations Repatriation Commission in Korea, Aug.-Dec. 1953; Ag. Indian High Commissioner in London, Aug.-Nov. 1954; High Commissioner for India in Ceylon, April 1955-Oct. 1956; Special Secy., External Affairs Ministry, 1956-60. *Address:* 44/3, Hazara Road, Calcutta 19; c/o The External Affairs Ministry, New Delhi.

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CHAKRAVORTY, Jatin, B.A., B.L. (Calcutta), Politician; Secy., United Trades Union Congress, since 1949. *b.* Nov. 9, 1911; *Educ.:* Calcutta, Hare School, Scottish Churches Coll., Ripon Coll. & Ripon Law Coll., B.A., 1932; B.L. 1936; Has been in the trade union movement, since 1945; went to the United Kingdom under Colombo Plan Fellowship, 1952; visited U.S.S.R. & Eastern European countries as a fraternal delegate to the W.F.T.U., 1954; represented U.T.U.C. on a number of tripartite Cttees. and Conferences; member, Governing Body, National Productivity Council, since its formation, 1957; elected M.L.A., West Bengal, on R.S.P. ticket, 1957. *Publications:* Author of articles on Labour Problems published in Industrial Relations Journals. *Clubs:* Mohun Bagan Athletic Club. *Address:* 249, Bowbazar Street, Calcutta 12.

CHALIHA, Bimalaprosad, Chief Minister, Assam, since Dec. 1957. *b.* March 26, 1912, at Sibsagar; *Educ.:* Sibsagar Govt. High School; City Coll., Calcutta; left studies when he was in I.Sc. class, to join the nati : al movement. Arrested in 1932 and jailed for six months; invented a mechanical automatic spinning wheel and obtained a patent for it; deputed by Mahatma Gandhi for training in Khadi under Shri Mathuradas Purushottam, Bihar; elected Secy., All India Spinners' Assoc., Assam Branch till 1942; detained for two years as security prisoner during 1942 Movement; engaged himself exclusively in khadi and village uplift work after release from jail; elected M.L.A., Assam, from Sibsagar West, 1946; appointed Parliamentary Secy., 1947; was Hon. Provincial Rural Development Organiser, Govt. of Assam; became first Chairman, Assam Co-operative Apex Bank and Assam Co-operative Cottage Industries Assoc.; became General Secy., A.P.C.C., 1950; elected Pres., A.P.C.C., 1952; won by-election from Sibsagar to become Member, Lok Sabha, 1953; Regional Organiser for constructive work, A.I.C.C. for Eastern Zone, 1952; elected Chairman, Reception Cttee. of the 63rd Session of the Indian National Congress; resigned, Dec. 1957. *Recreations:* Spinning; Reading. *Address:* Shillong.

CHAND, His Excellency Khub, B.A. (Hons.), I.C.S., High Commissioner in Ghana and Ambassador to Liberia and Guinea. *b.* Dec. 16, 1911; *Educ.:* Univ. of Delhi; Oriel Coll., Oxford. Joined the I.C.S., 1935 having stood first in the I.C.S. competition in India; Joint Magistrate and later Additional District Magistrate, Cawnpore, 1935–39; Under Secy. to the Govt. of India, Defence Dept. and Secy., Indian Soldiers' Board, 1939–43; District Magistrate, Azamgarh and Regional Food Controller, Benaras Region, 1943–47; Dy. Secy., Ministry of Defence, 1947–48. Head, Indian Military Mission, Berlin with military rank of Major-General, 1948–50 and Head of the Indian Mission in Bonn with rank of Minister Plenipotentiary, 1949–50; appointed Dy. High Commissioner for India in Pakistan, Sept. 1950; acted as High Commissioner for India in Pakistan, Nov. 1950-Aug. 1951; Minister in Iraq and Jordan, 1952–55; Jt. Secy., Ministry of External Affairs, 1955–58; Ambassador in Italy, 1958–60. *Recreations:* Riding, Shooting, Tennis. *Address:* C/o External Affairs Ministry, New Delhi.

CHAND, Dr. Tara, M.A. (Alld.), D. Phil. (Oxon.). Member, Rajya Sabha, New Delhi; Hony. Professor of the Indian School of International Studies, New Delhi. *b.* 1888; *Educ.:* St. Stephen's Mission School, Delhi; Meerut College, Meerut; Muir Central College, Allahabad; Queen's College, Oxford. Professor of History, Kayastha Pathshala College, Allahabad; Principal, K.P.U. College, 1925–45; Professor of Politics, Allahabad Univ., 1945–47; Vice-Chancellor, Univ. of Allahabad, 1947–48; Secretary and Educational Adviser, Ministry of Education, Govt. of India, 1948–51; Pres., Secondary Education Conference; Secretary, Hindustani Academy, U.P.; Indian History Congress; Pres., Indian History Congress; Ambassador in Iran, Dec. 1951 to Sept. 1956; member, Rajya Sabha, 1957. *Publications: A Short History of the Indian People; Influence of Islam on Indian Culture and Hindustani.* *Address:* 8, Tughlak Road, New Delhi.

CHANDA, Anil Kumar, B.Com. (Dacca), Senior Scholar, Dacca Univ. (1925), B.Sc. (Econ.) (Lond.), Deputy Minister, Works, Housing and Supply, Government of India. *b.* May 23, 1906; *Educ.:* Silchar Govt. High School; Santiniketan, Visvabharati; Dacca, Calcutta and London Univs. Lecturer, Visvabharati; Secy. to Rabindranath Tagore; Principal, Coll. of Arts and Science, Santiniketan; Professor of Politics, Visvabharati Univ.; visited Iraq and Iran, 1953; member, Indian Delegation to 8th Session of UNO General Assembly, 1953; led the Indian Cultural Delegation to China, June 1955 and to U.S.S.R., Yugoslavia and the Eastern European countries, 1956; Dy. Minister, External Affairs, Govt. of India, 1952-April 1957. *Recreation:* Travelling. *Club:* Calcutta Club, Calcutta. *Address:* Ministry of Works, Housing and Supply, New Delhi.

CHANDAR, Krishan, M.A., LL.B., Writer of short stories, plays and novels in Urdu. *b.* Nov. 23, 1914; *Educ.:* Lahore. *Publications:* His writings have been widely translated into many Indian languages like Hindi, Marathi, Gujarati, Bengali, Malayalam, Telugu, Assamese, Oriya etc.; also into many Asian languages like Japanese, Chinese, Korean, Sinhalese and Persian; translations of his works have appeared in English, Russian, German, Polish, Dutch, Italian and others; has so far written 40 books; wrote screen plays for 15 Hindi films like *Munkijeet, Pulli, Tamasha, Ek Do Teen, Zindgi Ki Mele, Aji Bas Shukriya,* etc. *Address:* Koover Lodge, Four Bungalows, Andheri, Bombay.

CHANDRA, Romesh, B.A. (Hons.), Member, National Council and Central Executive Cttee. of the Communist Party of India (Central Cttee. member, since 1951); Journalist; General Secy., All India Peace Council, since 1952. *b.* March 30, 1919; *Educ.:* Bishop Cotton School (Simla); Govt. Coll. (Lahore); Trinity Coll. (Cambridge). Joined the national movement as a student; Pres. of Cambridge Univ. Indian Majlis (1938); Exec. member, Cambridge Univ. Union (thrice, 1938–39); Pres., Lahore Students' Union (1939–41); Joint Secy., All India Students' Federation (1942); Special Correspondent and Sub-Editor, Communist Party Central Newspapers *People's War* and *People's Age* (1944–48); detained under Preventive Detention Act, 1948-49; member, Bureau of World Peace Council, since 1955; has attended several international peace conferences abroad. *Publications: Operation Asylum* (1946); *Salute to Kashmir* (1946); *Panchashila* (1956); several pamphlets on international issues. *Recreations:* Reading; Cinema and Theatre. *Address:* 6, Jamna Bhawan, Asaf Ali Road, New Delhi.

CHANDRA, Satish, M.A., B.Sc. (Agri.), Deputy Minister for Commerce and Industry, Govt. of India, since April 1957. *b.* Jan. 17, 1917, at Bareilly; *Educ.:* Govt. Agricultural Coll., Kanpur; Bareilly Coll. Trustee: Shyam Sundar Memorial Coll., Chandausi; Gandhi Eye Hospital Trust, Aligarh. Joined Congress, 1936; courted jail several times for Congress activities; member: U.P.C.C., since 1939; A.I.C.C.; Kasturba Gandhi National Memorial Fund Cttee., 1947-49; Indian Constituent Assembly, 1948-50; ex-member: Food Grains Investigation Cttee., Govt. of India; Central Board of Archaeology; Central Advisory Council for Rlys.; Parliamentary Secy. to the Prime Minister, 1951; returned to the Lok Sabha from Bareilly Dist. South Constituency, U.P.; Dy. Minister for Defence, Govt. of India till July 1955; Deputy Minister for Production, July 1955-April 1957. *Address:* Alamgiriganj, Bareilly (U.P.); New Delhi.

CHANDRACHUD, Mr. Justice Yeshwant Vishnu, B.A., LL.B., Judge, High Court of Bombay. *b.* July 12, 1920; *Educ.:* Mostly at Poona except two years in Bombay; won the following awards in the 2nd LL.B. Exam. of the Bombay Univ., 1942: Judge Spencer Prize; Gussie K. Kanga scholarship; Sir Mangaldas Nathustrai Legal scholarship; passed both law exams in 1st Class; First class first in 2nd LL.B. exam. *Recreations:* Music, Photography. *Address:* High Court, Bombay 1.

CHANDRAMOULI, Kalluri, B.Sc. (Ag.) (Aberdeen), Minister for Co-operation and Endowments, Andhra Pradesh, since Jan. 11, 1960. *b.* Sept. 15, 1899; *Educ.:* Scotland. Member, Madras Assembly 1937, and 1946; Pres., Guntur Dist. Board; imprisoned in 1930, 1940 and 1942; Minister for Local Administration, Madras; General Secy., Andhra Congress Cttee., 1954; Revenue Minister, former State. *Publications: Bharatiya Pratibha; Ramayana Swatha Lahiri Vedammrutam,* all in Telugu. *Address:* Hyderguda, Hyderabad.

CHANDRASEKARAN, Chidambara, M.Sc. (Nagpur), Ph.D. (Lond.), M.P.H. (Johns Hopkins), Director, Demographic Training and Research Centre, Bombay. *b.* Oct. 30, 1911; *Educ.:* Nagpur, London and Johns Hopkins Univs. Rockefeller Fellow, 1947-48; Social Affairs Officer, Population Division, U.N., 1948-50; Director, U.N. Office for Population Studies, New York, 1950-54; Discussion leader for U.N. Population Seminar, Bandung, 1955; served on the Sub-Committee on Family Planning appointed by the Planning Commission; Vice-President, International Union for the Scientific Study of Population; Prof. of Statistics, All-India Institute of Hygiene & Public Health, till July 1959. *Publications:* Over 45 original papers on Mathematical Statistics, Demography, Family Planning and Medical and Public Health Statistics; Report of the co-operative project of the U.N.—Govt. of India on the inter-relationships of demographic, economic and social factors in Mysore State. *Address:* Demographic Training and Research Centre, Chembur, Bombay 71.

CHANDRASEKHAR, Dr. Sripati, M.A., M. Litt. (Madras), M.Sc. (Columbia), Ph.D. (New York), Director, Indian Institute for Population Studies, Gandhinagar, Madras and Visiting Professor of Demography, University of Missouri, Columbia, U.S.A., 1957–58. *b.* Nov. 22, 1918; *Educ.:* American Mission Voorhess High School, Vellore; Madras Presidency Coll.; Univ. of Madras; Columbia, New York and Princeton Universities, U.S.A.; Director of Demographic Research, UNESCO, Paris, 1947-49; Pres., First All-India Conference on Family Planning, Bombay, 1951; Nuffield Foundation Fellow, London School of Economics and Oxford University 1953-55. Editor, *Population Review,* Madras; under the auspices of the Granary Fund, American Foundation, travelled and lectured in all the Middle Eastern and African Countries, 1960; lectured before 30 American Universities, 1960. *Publications: India's Population* (New York, 1946); *Indian Emigration,* (Madras, 1948); *Census and Statistics in India* (1948); *Hungry People and Empty Lands* (Bombay, 1952); *Hungry People and Empty Lands* (London, 1953); *Population and Planned Parenthood in India* (London, 1955); *Infant Mortality in India* (London, 1959); *China's Population* (Oxford, 1959); *Communist China today,* (Asia 1961). *Address:* Gandhinagar, Madras.

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CHANDRASEKHARAN, K., B.A., B.L., Minister for Law and Revenue, Kerala State, since Feb. 1960. *b.* Sept. 22, 1921; *Educ.:* C. M. S. High School, Trichur; St. Thomas' Coll., Trichur; Maharaja's Coll., Ernakulam; Law Coll., Madras; won many prizes for elocution, essay and histrionics. Took part in the student movement; worked in the Congress Socialist Party and the Indian Socialist Party; member, P.S.P.; elected M.L.A., Kerala, twice from Hosdrug Constituency of Cannanore Dist. on P.S.P. ticket. *Publications: Let Us Unite*, 1945; *Reflections on Indian Revolution*, 1946; has written many articles on various subjects. *Recreations:* Tennis. *Address:* "Essendene," Trivandrum.

CHANDY, Smt. Justice Anna, M.A., B.L., Judge, High Court, Kerala, since Feb. 1959. *b.* 1905; *Educ.:* Trivandrum; was the first lady student of Kerala in the Law Coll., Trivandrum. Enrolled as the first lady Advocate in Kerala, 1930; built up a good practice especially on the criminal side; member, Travancore Leg. Council, 1932-34 (the second lady member in its history); was appointed District Munsiff, the first woman judicial officer in India, 1938; promoted Sub-Judge, 1943; Dist. & Sessions Judge, 1948-59; the first woman to be appointed to a High Court in India; (there are no women High Court Judges in the Commonwealth); Founder-Editor, *Shreemathy*, the first women's journal in Kerala. *Address:* High Court, Ernakulam.

CHANNABASAPPA, H. M., B.Sc., Minister for Home, Mysore. *b.* at Haralahally, Mysore Dist.; *Educ.:* B.Sc. from the Central Coll., Bangalore, 1929; was a Research Scholar till 1932. Has been in public life for over 25 years in various capacities; Pres., Mysore Dist. Board, 1947-55; is member, M.P.C.C. and the A.I.C.C. *Address:* Bangalore.

CHATTERJEE, Nirmal Chandra, M.A., P.R.S., LL.B., Bar-at-Law, Senior Advocate, Supreme Court of India; Ex-Pres., Hindu Mahasabha. *b.* Oct. 19, 1895; *Educ.:* Univ. of Calcutta and Univ. of London and Middle Temple. Ex-Judge, Calcutta High Court; member, Lok Sabha representing Dist. Hooghly; Pres., All India Hindu Mahasabha; led Jammu Satyagraha movement along with late Dr. Syama Prosad Mookerjee; represented Bengal Hindus before Dacca Riots Enquiry Commission and Boundary Commission and did relief work in Dacca and Noakhali. *Publications: Awakening of New India; Problems of Jammu. Recreations:* Gardening; Travelling. *Clubs:* Calcutta Club; Chelmsford Club, Delhi. *Address:* 22, Alipore Road, Calcutta 27; 7-B, Pusa Road, New Delhi.

CHATTERJI, Rear Admiral Adhar Kumar, Deputy Chief of the Naval Staff, Indian Navy, since Feb. 8, 1958. *b.* Nov. 22, 1914; *Educ.:* Ravenshaw Collegiate School, Cuttack, 1926-30; Brojo Mohan Coll., Barisal, 1930-32; Presidency Coll., Calcutta, 1932. Joined the Navy, 1933; received initial Naval training in the U.K., 1933-35; Lieutenant, 1938; qualified in Anti-Submarine Warfare in H.M.S. Osprey, 1940; War Service in the Atlantic and Indian oceans; Staff Officer, Anti-Submarine, 1942-44; Lieutenant-Commander, 1943; commanded H.M.I.S. Kathiawar, 1944-45; commanded H.M.I.S. Chamak, 1945-46; passed Staff Course at R.N. Coll., Greenwich, 1947; Commander, 1947; Director of Naval Plans, 1947-49; Commander, I.N.S. Delhi, 1949-50; Captain 1950; Captain, I.N.S. Delhi, 1950; Naval Adviser, London, 1950-53; Captain, I.N.S. Delhi, 1953-54; Commodore-in-Charge, Bombay, 1954-56; Imperial Defence Coll., London, 1957. *Recreations:* Tennis. *Clubs:* Delhi Gymkhana Club, New Delhi; Radio Club, Bombay; Cricket Club, Bombay. *Address:* Naval Headquarters, New Delhi.

CHATTERJI, Gyanesh Chandra, M.A. (Punjab), B.A. (Cantab.), Chairman, National Book Trust of India, since Sept. 20, 1960. member, Univ. Grants Commn., 1957-61; Hony. Chairman, Board of Secondary Education, Rajasthan. *b.* March 4, 1894; *Educ.:* St. Stephen's Coll., Delhi; Trinity Coll., Cambridge, England; London Day Training Coll., Southampton Road, London. Prof. of Psychology, C.T. Coll., Lahore, 1919; Prof. of Philosophy, Govt. Coll., Lahore, 1921; founded Laboratory of Experimental Psychology, Lahore, 1927; Principal, C.T. Coll., Lahore, 1939; D.P.I. and Education Secy., Punjab Govt., 1946; D.P.I. and Education Secy., E. P. Govt., 1947-49; Vice-Chancellor, E. P. Univ., April-July 1949; Member, U.P.S.C., 1949-53; Vice-Chancellor, Rajasthan Univ., 1953-60; Chairman, Muslim Univ. Enquiry Cttee., 1960. *Publications: "Commonsense Empiricism" in Contemporary Indian Philosophy; "Empiricism" in History of Philosophy Eastern and Western* (Allen & Unwin); numerous papers in Indian and British journals. *Address:* New Delhi.

CHATTERJI, Dr. Suniti Kumar, M.A. (Cal.), D.Lit. (Lond.), F.A.S., Hon. Member, Société Asiátique, Paris (1946), American Oriental Society (1947), Oslo Academy of Sciences (1956), Padma Bhushan (1955), Chairman, Govt. of India Sanskrit Commission (1956-57), etc., etc., Chairman, West Bengal Legislative Council, since 1952. *b.* Nov. 26, 1890; *Educ.:* Motilal Sil's Free Coll., Scottish Churches Coll. and Presidency Coll., Calcutta; Univ. Coll. and School of Oriental Studies, London; Univ. of Paris and Ecole Francaise des Langues vivantes Orientales, Paris. Govt. of India Linguistic Scholar in Europe, 1919-22; Khajra Prof. of Indian Linguistics and Phonetics, Calcutta Univ., 1922-52; Visiting Prof., School of South Asia Studies, Univ. of Pennsylvania, Philadelphia, U.S.A., 1951-52; *Publications: Origin and Development of the Bengali Language*, 1926; *Indo-Aryan and Hindi*, 1941; *Kirata-jana-krti*, 1951; and Volumes on Travel and papers on linguistic, historical and cultural subjects in English, Bengali and Hindi. *Recreations:* Study of Art. *Address:* "Sudharma," 16, Hindusthan Park, Calcutta 29.

CHATTERJI, Dr. U. N., B.Sc. (Hons.), M.Sc., D. Phil., D.Sc., Fellow, National Acadamy of Sciences of India; Fellow of the Royal Society of Arts (Lond.); Fellow of the American Assoc. for the Advancement of Science; Reader in Botany, University of Gorakhpur; has been Editor of Publications, Indian Council of Agricultural Research. *Educ.:* Ewing Christian College, Allahabad and the University of Allahabad. Assistant Editor of Publications, Indian Council of Agricultural Research. *Publications:* Research Papers in Plant Respiration; articles on various subjects. *Address:* University of Gorakhpur (U.P.).

CHATURSEN, Acharya, Shastri and Acharya in Ayurved and Sanskrit, Hindi Author. *b.* Aug. 1891, at Chandokh, Bulandshahr; *Educ.:* Benaras, Jaipur, Gurukul Sikandrabad. Practised as Ayurved Physician, 1911-38; was physician to ruling chiefs, Maharajas, and Maharana of Nepal; edited two special numbers of Chand-Phansiank and Marwariank. *Publications:* Published his first book in 1911; has written 25 books on various subjects prominent among them being *Vaishali, Kinagarvadhu, Vayamrakshama, Somnath, Alka, History of Hindi Literature, History of Indian Culture, Arogya Shastra, Goli, Sona aur Khoon, Khagras*, etc. *Address:* Gyandham, Shahdra, Delhi 32.

CHATURVEDI, Bishambhar Nath, B.A., L.L.B., Businessman. *b.* Feb. 17, 1908; *Educ.:* Agra, Allahabad. Pres., Calcutta Stock Exchange Assoc., Sept. 1942-Sept. 1959; All India Investors Assoc., since March 1952; member, 1st Investment Cttee. of Life Insurance Corporation, 1956-59; 1st Advisory Commission of the Company Law, 1956-59; Director: United Bank of India Ltd.; Rohtas Industries Ltd.; Orient Paper Mills Co. Ltd.; Aluminium Corporation of India; J. K. Spinning & Weaving Co. Ltd.; Star Paper Mills Co. Ltd.; Sone Valley Portland Cement Co. Ltd.; Calcutta Insurance Co. Ltd.; Metal Corporation of India Ltd.; Indian Rubber Manufacturers Ltd.; Chase Bright Steel Ltd.; Ghusick Muslia Collieries Ltd.; Assam Paper Mills Ltd.; Bengal Nagpur Cotton Mills Co. Ltd., etc. *Clubs:* Calcutta Club, Bengal Rowing Club, Cricket Association of Bengal, National Cricket Club, Mohan Bagan Club, etc. *Address:* 11, Clive Row, Calcutta 1.

CHATURVEDI, Makhanlal, Hindi Writer; Editor, *The Karmaveer*, Hindi Weekly, Khandwa, since 1919. *b.* April 4, 1889; *Educ.:* Passed Primary School Teachers' Training. First Chairman, Mahakaushal Congress Parliamentary Board, 1937; Pres., All India Hindi Sahitya Sammelan, Haridwar, 1943; started a Hindi magazine *Prabha*, in Khandwa, 1913; courted imprisonment several times for participation in the freedom movement; learned English, Sanskrit, Marathi, Gujarati and Urdu by himself; awarded the first Sahitya Academy Hindi prize of Rs. 5,000 for his book *Himtarangini* (1954) and Deo Puraskar for his *Himkiritini* (1943); Sahitya Kar Sansad prize of Rs. 1,500 for his book *Mata* and several other awards from U.P. and M.P. Govts.; conferred D.Litt. (Hon. Causa) by Sagaur Univ., 1959. *Publications: Krishnarjun Yuddha* (Play—1918); *Himiritini* (Poetry—1943); *Sahitya Deota* (Prose—1944); *Him Taragini* (Poetry—1948); *Mata* (Poetry—1952); *Yug Charan* (Poetry—1958); *Samarpan* (Poetry—1958); *Kala ka Anuwad* (Short story—1954). *Address:* Editor, *The Karmaveer Weekly*, Khandwa.

CHATURVEDI, Mistri Lal, B.A. (Lucknow), LL.B. (Allahabad), Member, Union Public Service Commission, since March 1, 1960. *b.* July 7, 1899; *Educ.:* Canning Coll., Lucknow—B.A., 1920; Univ. School of Law, Allahabad—LL.B., 1923. From July 1923 to December 1927—practised law in the Dist. Courts of Lakhimpur-Kheri, U.P., 1923-27; in January 1928 shifted to Allahabad and practised in the high Court, Allahabad, 1928-52; Judge, Allahabad High Court, Aug. 1952-July 6, 1959. *Recreations:* Tennis. *Clubs:* Allahabad Gymkhana Club. *Address:* S-B, Lodi Estate, New Delhi 3.

CHAUDHARI, Madhukar Dhanaji, B.Com. (Nagpur), M.Com. (Nagpur), Deputy Minister for Revenue, Maharashtra State, since May 1, 1960. *b.* June 16, 1928, at Nasik; *Educ.:* Janata Shikshan Mandal, Khiroda; Municipal High School, Faizpur; D. S. High School, Bhusawal; G. S. Coll. of Commerce and Economics, Wardha; B.Com., 1951; M.Com., 1953., Sanchalak of the Saryodaya Kendra at Khiroda, 1953; took a lead in organising co-operative movement in East Khandesh Dist. and took active interest in the work of the Harijan Sevak Sangh and Adivasi Seva; actively associated with the work of the Dist. Development Board, Dist. Industrial Assoc., Maharashtra Samajik Parishad, Maharashtra Seva Sangh, etc.; elected M.L.A., Bombay from the Raver Constituency in E. K. Dist., 1957; Dy. Min. for Irrigation, Bombay State, 1957-60. *Publications:* Wrote a thesis on 'A Five Year Plan for the Socio-Economic Development of Village Mahakal'. *Address:* Bungalow No. A-4, Road No. 1, Foreshore Road, Bombay 1.

CHAUDHRI, Girdhari Lal, M.A. (1940), Minister for Public Works (Sarvajanik Nirman Mantri), Irrigation and Power, U.P. *b.* Nov. 16, 1912; *Educ.:* D. A. V. College, Dehra Dun, and Hindu University, Banaras. One of the leading members of All-India Depressed Classes League; also an active member of the Indian National Congress; elected member, U.P. Legislative Assembly,

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1946; same year included in the Provincial Cabinet; elected President of the U.P. Depressed Classes League, 1947; re-elected to U.P. Leg. Assembly, 1952; re-elected 1957. *Address:* 3, Sarojini Naidu Marg, Lucknow.

CHAUDHRI, Suraj Mal, B.A., LL.B., Minister for Public Works including Public Health (Engg.), Capital Project and Housing, Punjab, since Aug. 18, 1958. *b.* Jan. 1, 1901; *Educ.:* Hissar, Rohtak; graduated from D.A.V. Coll., Lahore; LL.B. from Law Coll., Lahore, 1924. Practised at the Hissar Bar till April 1957; was Pres., Dist. Bar Assoc. for six years; elected member and then Vice-Chairman, Dist. Board, Hissar, 1928; elected M.L.A., Punjab, 1937; had been Parliamentary Private Secy. and Parliamentary Secy., undivided Punjab; Dewan/Chief Minister, Bharatpur State, 1947–48; member, Punjab Legislature till 1954; elected member, first Constituent Assembly of India; Minister for Health, Consolidation, Panchayats and Co-operation, Punjab, April 16, 1957-Aug. 18, 1958. *Address:* Chandigarh.

CHAUDHURI, Rai Harendra Nath, M.A., B.L. (Calcutta), Minister-in-charge of the Education Department, Govt. of West Bengal, since 1957. *b.* Nov. 1889; *Educ.:* Baranagar Victoria H.E. School; Presidency Coll., Calcutta; Scottish Church Coll., Calcutta; Univ. Law Coll., Calcutta. Elected to the Bengal Legislative Council from the 24-Parganas North Rural (Non-Mohammedan) Constituency, 1921-23; elected unopposed, in 1923, 1924–26, unopposed again 1926–29; elected to and represented the 24-Parganas Municipalities in Bengal Leg. Assembly, 1937–44; M.L.A., West Bengal, representing East Bankura, 1948–52; Minister for Education, 1948-52; elected M.L.C., West Bengal, 1957. *Publications: New Menace to High School Education in Bengal, Our Language Problems* (in English), *Bankim Chandrer Upanyasa-Samalochana* (in Bengali). *Address:* "Munshi House", Baranagar, Calcutta 36.

CHAUDHURI, Mr. Justice Hemanta Kumar,* M.A., B.L., Judge, Patna High Court, since Sept. 3, 1956. *b.* Dec. 1, 1901; *Educ.:* T. N. J. Collegiate School, Bhagalpur; T. N. J. Coll., Bhagalpur; Patna Coll., Patna; Patna Law Coll. Joined the District Bar at Bhagalpur, Oct. 1925; appointed as a Munsiff at Monghyr, June 1, 1928; Registrar, Civil Courts, Gaya, 1941-43; Subordinate Judge at Ranchi, Jan.-Sept. 1944; Magistrate, Purulia, Sept. 1944-May 30, 1946; Asstt. Sessions Judge, June 8, 1946-Oct. 25, 1949; Addl. Dist. and Sessions Judge, at Chapra, Oct. 26, 1949; Chairman, Industrial Tribunal, Bihar, June 1, 1951-Nov. 14, 1953; Dist. and Sessions Judge, Gaya, Nov. 18, 1953; Registrar, Patna High Court, July 11, 1955-Sept. 2, 1956. *Address:* Patna High Court, Patna.

CHAUDHURI, Lieut.-General Joyanto Nath, O.B.E., G. O. C.-in-C., Southern Command, since May 15, 1959. *b.* June 10, 1908; *Educ.:* Hastings House, Bishops College and St. Xavier's College, Calcutta; Highgate School, London and Royal Military College, Sandhurst, England. Commissioned, Feb. 2, 1928; during World War II saw service in the Middle East, Far East; was instructor at Staff College, Quetta; commanded 16th Light Cavalry in Burma; was mentioned in despatches five times; at end of war was Brigadier, i/c Administration, Malaya; commanded the Indian Victory Contingent to U.K., 1946; officiated as Chief of General Staff and later commanded 1st Armoured Division; Military Governor, Hyderabad State, till Dec. 1949; Adjutant-General, Jan. 10, 1952-Sept. 28, 1953; Chief of the General Staff, Sept. 29, 1953-Dec. 11, 1955; Corps Commander, Dec. 15, 1955; Colonel Commandant, Corps of Electrical and Mechanical Engineering and 16th Light Cavalry. *Publications: Operation Polo. Recreations:* Travel, Writing and Music. *Address:* C/o Lloyds Bank, New Delhi.

CHAUDHURI, Pratul Kumar, B.Sc. (Cal.), Secretary, Central Cttee. of the Revolutionary Socialist Party, since 1950. *b.* Feb. 9, 1913; *Educ.:* Jayag M. E. School and Chatkhil Panchgaon Gupta H. E. School, Noakhali; Comilla Victoria Coll., Tipperah; Vidyasagar Coll., Calcutta; B.Sc., 1934. Was arrested under the B.C.L.A., May 1934; was in several detention camps, 1934-38; became a Marxist while in camp; was delegate to the Congress Session at Tripuri, 1939 and the Anti-Compromise conference at Ramgarh, 1940; joined the R.S.P. from its inception; member, Prov. Exec. Cttee. of R.S.P., 1946-48; started trade union work in Calcutta-Howrah-Hooghly, Sept. 1947; took charge of the Central Office of the R.S.P., Dec. 1948; elected to its Central Office, 1948; became Manager, *The Call*, R.S.P.'s organ; its Mg. Editor, since 1957. *Publications:* Articles in *The Call* and *Mehnatkash* (a Hindi political weekly). *Recreations:* Study of scientific treatises and English novels. *Clubs:* Udayan, a cultural Assoc. of Delhi. *Address:* 780, Ballimaran, Delhi-6.

CHAUDHURI, Tridib Kumar, M.A. (Econ.), C.U., M.P. (Lok Sabha), General Secretary, Revolutionary Socialist Party; Author, Journalist and Political Worker. *b.* Dec. 1911; *Educ.:* K. N. Coll., Berhampore (West Bengal); obtained B.A. & M.A. degrees while in detention. Member, Congress Party prior to May 1947; Congress Socialist Party prior to May 1940; detained without trial as a suspected revolutionary and member, underground Anushilan Samiti, 1931-38 and 1939-46; imprisoned by Portuguese authorities in Goa, July 1955-Feb. 1957; Dy. Leader, United Progressive Parliamentary Group; member, first Lok Sabha, 1952-57; takes active interest in labour, peasant and student movements; is connected with several labour and office employees' unions and their welfare organisations in West Bengal; Vice-Pres., United Trade Union Congress. *Publications: Swing Back* (1950); *Nineteen Months in Salazar's Prison* (1958) and numerous other tracts, brochures and pamphlets. *Address:* Revolutionary Socialist Party, Central Office, 780, Balimaran, Delhi 6.

CHAUDHURY, Prof. Dr. Emran Husain B.A., D.Sc. Pol., Professor, J. B. College, Jorhat, since 1950. *b.* Oct. 24, 1914; *Educ.:* Jorhat, Aligarh, Berlin; graduated from Aligarh Univ., 1934; Secy., Univ. Union, 1934-35; gave evidence before Sapru (Unemployment) Cttee., 1935; after completing M.A. (Econ.), LL.B. courses, joined Berlin Univ. as Alexander Von Humboldt Scholar, Nov. 1936; studied under Profs. J. Jessen and H. Weigmann (former executed for complicity in the anti-Hitler Putsch of July 1944); took D.Sc. Pol. (Econ.) degree, 1939. Asstt. Lecturer, Economics, M.C. Coll., Sylhet, later in Cotton Coll., Gauhati, 1940-45; started Bengal Famine Relief, 1943, which broke down owing to Govt.'s policy; elected M.L.A. from Sibsagar Muslim Constituency, 1946; elected President, All-India Rly. Muslim Employees' League, June 1947; elected Leader of the Opposition, Assam Assembly, 1951; Representative on Gauhati Univ. Court of Assam Coll. Teachers' Assoc., since Dec. 1957; divides time between Politics and Economics (national and foreign) and religion and public service. *Publications: Der indische Arbeiter-unter britischer Herrschaft. Address:* Jorhat, Assam.

CHAUDHURY, M. Moinul Haque, B.A., (Hons.), M.A., LL.B., Minister for Agriculture, P.W.D. (Irrigation), Veterinary, Co-operative, Govt. of Assam since April 22, 1957. *b.* July, 1923; *Educ.:* Cotton Coll., Gauhati; Presidency Coll., Calcutta; Aligarh Univ.; passed B.A. (Hons.), 1944, M.A. first class first in History and Political Science, 1946; LL.B. (first class), 1946. After completing his education, took to social and political activities; joined legal profession and rose to the top in that profession; was member, Silchar Local Board and Municipal Board; connected with several educational institutions; twice under detention for political activities; elected M.L.A., Assam, 1952 on Congress ticket; re-elected, 1957; member, executive Cttee., Assam P.C.C.; elected member, A.I.C.C., 1959. *Recreations:* Gardening, Reading. *Clubs:* Shillong Club. *Address:* Shillong, Assam.

CHAUHAN, Devisingh Venkatsingh, B.A. (Hons.), LL.B., Deputy Minister for Buildings and Communications, Maharashtra, since May 1, 1960. *b.* March 2, 1911; *Educ.:* Poona and Nagpur. Participated in the State Congress struggle leaving his studies at Gokhale Institute, Poona, 1938; started Bharat Vidyalaya High School, 1941; practised Law for three years; was arrested in the Satyagraha struggle in Hyderabad State, 1947; was in jail for 14 months, till released by the Indian Military, Sept. 1948; was Asstt. Editor, *New Life*, Hyderabad Daily; member, Exec. Cttee. of the Hyderabad State Congress and Pradesh Congress, since 1950; Pres., Marathwada Pradesh Congress Cttee., 1956; Minister for Education and Rural Development, Hyderabad, 1952-54; member, A.I.C.C.; Dy. Min. for Agriculture, Bombay State, 1957-60. *Publications:* A Series on Arithmetic for Primary Schools; Books on Land Reforms; contributed articles to Newspapers. *Address:* Bungalow No. A/1, Foreshore Road, Reclamation, Bombay No. 1.

CHAVAN, Shankarrao Bhaorao, B.A., (Madras), LL.B. (Osmania), Minister for Irrigation and Power, Govt. of Maharashtra, since May 1, 1960. *b.* 1920; *Educ.:* Paithan (Aurangabad District); City Coll., Hyderabad; Nizam Coll., Hyderabad. Has been connected with several social, educational, co-operative and other activities in the Marathwada area; was member, Minimum Wages Board, appointed by Govt. of India. Vice-Pres., Central Co-operative Bank at Nanded for five years; was Director, Hyderabad State Co-operative Bank; was on the executive body of the State Co-operative Land Mortgage Bank; Chairman, Nanded Municipality, 1952-56; member, Executive Body of All India Federation of Local Authorities; entered politics, 1945; gave up practice and became a full time Congress worker, 1946; Secy., Nanded District Congress Cttee., 1950-53; General Secy., Hyderabad P.C.C. for about 2 years; elected to Bombay Leg. Council, 1956; elected M.L.A., Bombay, 1957; Dy. Min. for Revenue, bilingual Bombay, 1956-60. *Address:* Prathisthana, Narayan Dabholkar Road, Malabar Hill.

CHAVAN, Yashwantrao Balwantrao, Chief Minister, Maharashtra, since May 1, 1960. *b.* March 12, 1914, at Devrashtre, Satara Dist.; *Educ.:* Tilak High School, Karad; won several prizes in elocution competitions; was a voracious reader; organised students movement, 1930; participated in the C.D. Movement, 1932; imprisoned for his political activities, 1930; matriculated, 1934; graduated from the Rajaram Coll., Kolhapur, 1938; took his LL.B. Degree from Law Coll., Poona, 1941. Started practice at Karad; was a Royist first, but later dissociated

* Due to retire in Dec. 1961.

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himself from that movement in 1939 on the issue of the Second World War; directed underground movement in Satara Dist., Aug. 1942–May 1943 until his arrest at Phaltan, 1944; elected Pres., Dist. Congress Cttee., Satara; member, Maharashtra P.C.C., since 1940; was its Secy., 1948, 1949 and 1950; elected M.L.A., Bombay, 1946; appointed Parliamentary Secy., 1946; took active part in organising Home Guards; started a Marathi daily, *Prakash* at Satara, 1948; in early days also started the Marathi weekly *Lokkranti*; after the general elections of 1952, appointed Minister for Civil Supplies, Bombay; as Civil Supplies Minister succeeded in introducing progressive decontrol; was Minister for Local Self-Govt. and Forests, Bombay; was also in charge of Community Projects; elected leader, Congress Leg. Party of the new Bilingual Bombay State, Oct. 1956; after the second general elections was unanimously re-elected leader of the Congress Legislature Party; Chief Minister, Bombay State, Nov. 1956–April 1960. *Recreations:* Sports, Poetry, Music, Fine Arts. *Address:* Sahyadri, Ridge Road, Bombay 6.

CHAVDA, Kishan Singh, Gujarati Writer, Short stories, Belles-lettres. *b.* Nov. 19, 1904; *Educ.:* Baroda, Ahmedabad, Santiniketan, Pittsburgh (U.S.A.). Pres.: Rotary Club, Kala Kendra, Lekhak Milan. *Publications:* Twenty-five books in Gujarati literature. *Recreations:* Music, Reading, Walking. *Address:* C/o 8, Alakapuri, Baroda.

CHAVDA, Shiavax Dhanjibhai, G.D. Art, (Bombay), Diploma in Fine Arts, Practising Artist. *b.* Dec. 11, 1914 in Gujarat; *Educ.:* C.J.N.Z. Madresa High School, Navsari; Sir J. J. School of Art, 1930-35; obtained diploma in Fine Arts at the Slade School, London, 1938; worked at the Academie de la Grande Channiere, Paris; learned stage designing under the well-known Russian artist Polunin at the Slade School; also studied in St. Martin's School of Art, London. Represented in the UNESCO Exhibition in Paris, 1947, the Exhibition of Indian Art at Burlington House, London, 1948, the Salon de Mai, Paris & Exhibition of Indian artists in the U.S.A., Exhibition of Indian Art at Villa Hughel, Germany, 1959; held 15 one-man shows in and outside India—Djakarta, Singapore, 1951, London, 1955, Paris, 1955 and Zurich, 1956. Travelled widely in Bali, Europe and Malaya. *Publications: Chavda* (contemporary Series of Indian Art published by Lalit Kala Akademi). *Recreations:* Indian Classical Music. *Address:* Ava Chambers, 1, Cinema Road, Dhobitalao, Bombay 1.

CHERIAN, Dr. P. V., M.B.B.S., D.L.O. (R.C.S.), F.R.F.P.S.G., F.R.C.S.E., Chairman, Madras Legislative Council. *b.* July 9, 1893; *Educ.:* C. M. S. College, Kottayam; Madras Medical College; London, Glasgow and Edinburgh. Temporary commission in the I.M.S., 1917-22; was in Iraq, 1918-22; Asstt. to Prof. of Surgery, Madras Medical College, 1923-25; specialised in diseases of the Ear, Nose and Throat in London, Glasgow, Edinburgh and Vienna, 1925-27; Ear, Nose and Throat Surgeon, General Hospital and Prof. of Ear, Nose and Throat Diseases, Medical College, Madras, 1927-48; Principal, Madras Medical College, 1945-48; acted as Surgeon-General, Madras, 1947; retired, Aug. 1948; member, Syndicate of Madras Univ.; was Mayor of Madras, 1950; Ag. Vice-Chancellor, Annamalai Univ., March-May 1955. *Recreation:* Tennis. *Clubs:* The Presidency Club, Madras; Madras Gymkhana; Madras Cricket Club; Lawley Institute, Ootacamund. *Address:* 5, Victoria Crescent, Egmore, Madras 8.

CHERIAN, Mrs. P. V., B.A. (Madras), Ex-Mayor of Madras. *b.* May 28, 1913, in Madras; *Educ.:* Women's Christian Coll., Madras. Member: Senate of the Madras Univ.; Pres.: Advisory Board for the Hospital for Women and Children, Egmore, for over 20 years; Vice-Pres., Indian Conference of Social Work and all India Women's Food Council, Hon. Secy. in charge of State Cttee. in connection with the visit of three cultural delegations from the U.S.S.R., China and Uzbekistan; Trustee, Madras City Improvement Trust; visited U.K., Northern & Southern Ireland, May-June 1957 and studied working of local bodies in U. K. including London County Council; had an interview with the Pope; the first lady to become the Mayor of Madras; organised the Mayor's School Children Midday Meal fund; elected Pres., All Mayor's Conference, Hyderabad, June 1958; Pres., Madras State Tourist Board; member: Zonal Adv. Board, Madras, L.I.C. of India; Indian Airlines Corporation; Regional Programmes Adv. Cttee., A.I.R.; Chairman, Handicrafts Cttee., Small-Scale Industries and Handicrafts Board. *Address:* 5, Victoria Crescent, Madras 8.

CHETTIAR, Dr. A. Chidambaranatha, M.A., Ph.D., M.L.C., Chief Editor, English-Tamil Dictionary Deptt., Madras Univ. *b.* April 3, 1907; *Educ.:* Govt. Coll., Kumbakonam; Annamalai Univ. Lecturer, Govt. Muslim Coll., Madras (1930-33); Lecturer, Govt. Victoria Coll., Palghat (1935); Lecturer, Annamalai Univ. (1936-45); Acting Vice-Chancellor, Annamalai Univ. (1948); Prof. of Tamil and Head, Deptt. of Tamil (Arts), Annamalai Univ., 1948–58. Member: General Council of Sahitya Akademi, Delhi; Board of Studies in Tamil, Madras, Travancore, Tirupati, Osmania Univs.; visited the Universities in the U.K. on invitation from the British Council, Jan. 1955; visited the Continent, April 1955; visited Singapore and Malaya on cultural tour, Jan. 1956; M.L.C., Madras, since 1958; visited U.S.S.R. in Aug. 1960 as a member of the Indian Cultural Delegation. *Publications: History of Tamil Prosody; Life of Sir Thomas Munro; Life of Booker T. Washington; Dr. Albert Schweitzer; Mun Pani Kalam* (a Book of Lity. Essays); *Tamil Osai; Veettu Tirumakal; Tamil Kattum Ulagu.* *Address:* 114, San Thome High Road, Madras 4.

CHETTIAR, A.M.M. Murugappa, President, Federation of Indian Chambers of Commerce and Industry, 1960–61; Industrialist. *b.* Jan. 22, 1902; *Educ.:* Madras; Managing Director: Carborundum Universal, Ltd., Madras; Tube Investments of India Ltd., Madras; Director: Madras Industrial Investment Corpn. Ltd., Madras; The Century Flour Mills, Ltd., Madras; Thiru Arooran Sugars, Ltd., Madras; Ashok Leyland, Ltd., Madras; Export Risks Insurance Corpn. Pvt. Ltd., Bombay; Triton Insurance Co., Ltd., Calcutta; New Ambadi Estates, Pvt. Ltd., Nagercoil; The East Indian Distilleries & Sugar Factories Ltd., Madras; The Kothari Sugars and Chemicals Ltd., Madras; T.I. Diamond Chain Pvt. Ltd., Madras; T.I. Miller Pvt. Ltd., Madras; Coromandel Engineering Co. Pvt. Ltd., Madras; T. & M. Industries Pvt. Ltd., Madras; The Murugappa Agencies Pvt. Ltd., Madras; Cttee. member and Vice-Pres. (1959-60), Federation of Indian Chambers of Commerce & Industry, New Delhi; Central Cttee. Member, All-India Manufacturers' Organization, Bombay; member, All-India Council for Technical Education, New Delhi; Southern Regional Cttee. member, All India Council for Technical Education; Chairman: Sri Sarvaraya Sugars Ltd., Madras; Mysore Cements Ltd., Bangalore; has made extensive business tour of the U.K., Continent, U.S.A. and Australia; member of Senate, Madras Univ. *Address:* "Chamundeswari Baugh," 9, Santhome High Road, Santhome, Madras 4.

CHETTIAR, L. P. KR. Ramanathan, Panditha Vidwan, Panditha (Madura Tamil Sangam), Vidwan (Madras Univ.), conferred titles of Muttamil Vittakar and Panditamani; Prof. and Head of the Dept. of Tamil (Oriental), and Dean, Faculty of Oriental Studies, Annamalai University, since June 1953. *b.* Nov. 6, 1915; Winner, King George V Thousand Rupee Prize (Madras Univ.). Serves on various academic bodies of the Univs. of Annamalai, Madras, Mysore, Osmania, Sri Venkateswara and Kerala, and on Special Cttees. constituted by the Govt. of India, of Madras and the Annamalai Univ.; Secy.: Tamil Music Research Cttee. of the Madras Tamil Isai Sangham from 1949; compiled National Bibliography of Contemporary books of literary merit in Tamil, under the Sahitya Akademi; visited Univs. in U.S.A. and U.K. at the invitation of U.S.; Govt. and British Council; is writing the *History of Tamil Literature* at the invitation of the Sahitya Akademi; member, Syndicate, Senate and Academic Council, Annamalai Univ. *Publications:* Several papers and books such as *Katturai Kovai; Annamalai Arasar;* and *Sanga Kala Tamilar Valvu;* compiled twenty books on Tamil music published by the Annamalai Univ. *Address:* Annamalainagar.

CHETTIAR, T. Sundaram, B.Com., Managing Director, East India Corporation Ltd., Cotton Merchants and Owners of several ginning factories in the south. *b.* 1915, at Madurai; *Educ.:* Passed B.Com. Exam., Calcutta Univ., 1938. Managing Agent: The Sree Meenakshi Mills Ltd., Madurai; Saroja Mills Ltd., Coimbatore; The Coimbatore Kamala Mills Ltd., Coimbatore; Sree Rajendra Mills Ltd., Salem; Rukmini Mills Ltd., Silaiman; Thiagarajar Mills, Kappalur, Sree Sivakami Mills Ltd., Thenur; Loyal Textile Mills Ltd., Kovilpatti; Sri Sarada Mills Ltd., Podanur; Vijayamohini Mills Ltd., Trivandrum; Director, Madura Insurance Co. Ltd., Madurai; Pres., Rotary Club, Madurai, 1952; visited the U.S.A., U.K. and the Continent, 1948; Pres., Sri Visalakshi Kalasalai, a high school in A. Thekkur, Ramnad Dist.; Correspondent, Thiagarajar Coll., Madurai; Treasurer, Thiagarajar Coll. of Engineering, Madurai; first Pres., Lions International, Madurai; Dist. Governor, 304, South, Lions International; member: Thiagesar Trust; Thiagarajar Coll. Endowment Trust; Thiagarajar Educational Trust. *Clubs:* Lions International, Madurai. *Address:* 'Meenakshi Nilayam', Tirupparankundram Road, Madurai.

CHINAI, Babubhai Maneklal, L.T.M. (V.J.T.I.), M.P. (Rajya Sabha), Business man. *b.* April 1913, at Ahmedabad; *Educ.:* Seth Anandilal Podar High School; Sir Parsuram Bhau Coll., Poona; V.J.T.I., Bombay. Joined his family firm of Nagindas Fulchand Chinai; is mainly concerned with the establishment and development of rayon industry in India; courted arrest in freedom movement; Hon. Treasurer, Mahatma Gandhi National Memorial Fund (Bombay Cttee.); member: A.I.C.C.; B.P.C.C.; member of several delegations abroad; Co-leader, Indian Industrial Delegation to the U.S.A. and the Continent, 1957; Pres.: Federation of Indian Chambers of Commerce and Industry, 1957-58; Indian Merchants' Chamber, 1955; Indian National Cttee.; International Chamber of Commerce, 1957-58; Swadeshi League; Bombay Shroff's Assoc.; W.I.A.A.: Ex-Trustee, Bombay Port Trust; Managing Dir.: Baroda Rayon Corporation Ltd.; Bombay Oxygen Corporation Ltd.; Dir.: Chinai & Co. P. Ltd. and several other companies; member: National Shipping Board; Telephone Advisory Cttee., Bombay; Gujarat Advisory Council of Industries, etc.; Cttee. Member, Federation of Indian Chambers of Commerce and Industry; All India Organisation of Industrial Employers; Rayon Manufacturers' Assoc. *Address: Residence:* St. James's Court, Netaji Subhas Road, Bombay 1; *Office:* Baroda Rayon Corporation Ltd., 130-32, Apollo Street, Bombay 1.

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CHINOY, Sir Sultan Meherally, Kt. (1939). *b.* February 16, 1885; *Educ.:* Bharda New High School and Elphinstone College. A pioneer in the Motor Car and Petroleum trade in India; responsible for the introduction of Wireless Telegraphy in India on a commercial scale and founded the Indian Radio and Cable Communications Co., Ltd. (now nationalised by Govt.); Mayor of Bombay, 1938-39; President, Bombay Rotary Club, 1940-41; District Governor, Rotary I, 89th District, 1944-45; organised Pageant in 1937 in aid of funds for Red Cross and again in 1940 in aid of the Amenities for Troops Fund, Bombay Presidency. *Recreation:* Horse-flesh. *Address:* Meher Bldg., Chowpatty, Bombay 7.

CHOPRA, Lt.-Col. Inder Sen, O.B.E., Indian Ambassador to Iraq since Sept. 1958 and Ambassador to Jordan since Jan. 1960. *b.* 1909; *Educ.:* Bishop Cotton School, Simla; Govt. Coll., Lahore; Royal Military Coll., Sandhurst. Commissioned, Indian Army, 1930; served with 1st Bn., East Surrey Regt., Probyn's Horse (K.E.O. Lancers), and 16th Light Cavalry; selected to join Indian Political Service, 1936; served as Asstt. Political Agent, Loralai; Asstt. Political Agent and Colonisation Officer, Nasirabad; Dir. of Food and Civil Supplies and Secy., Revenue, Baluchistan Govt.; Secy. to the Agent to the Governor-General and Resident in Baluchistan; Secy., Indian Embassy, Washington, 1946; Counsellor, 1948; Deputy Secy., Ministry of External Affairs, 1949; Joint Secy., May 1950; Joint Secy. and Chief of Protocol, Dec. 1950; Minister to Sweden, Denmark and Finland, Aug. 1955; Ambassador to Sweden, 1956; Ambassador to Denmark, 1958; Minister to Jordan, 1958–60. *Recreations:* Hunting, Shooting, Polo and Squash. *Clubs:* Delhi Gymkhana Club, New Delhi. *Address:* Embassy of India, Baghdad.

CHOPRA, Mulk Raj, Civil Engineering, Higher Grade, Roorkee, Member, American Society of Civil Engrs., I.S.E., General Manager, Bhakra Dam & Beas Project from Nov. 1960 and Secy. to Govt., Punjab, Bhakra Dam Administration, since 1958. *b.* Aug. 18, 1916; *Educ.:* Govt. College, Lahore, 1923–26; Thomason Engineering Coll., Roorkee; had a brilliant academic career. Joined the Punjab Irrigation Branch, 1930; was Exec. Engr. in charge of heavy construction and running divisions; Under-Secy. to Govt., Punjab, Irrigation Branch; promoted Supdtng. Engr., 1948; led a team of engineers to U.S.A. for designing the Bhakra Dam, 1948; planned construction of Harike Barrage; selected 1st Secy., Bhakra Control Board and sent to U.S.A., 1950; took over construction of Bhakra Dam, 1953; promoted Dy. Gen. Manager and then Chief Engineer. *Address:* General Manager, Bhakra Dam & Beas Project, Nangal Township.

CHOUDHARY, Mr. Justice Rati Kant, B.A., B.L., Judge, High Court, Patna, since April 4, 1953. *b.* Jan. 1, 1907; *Educ.:* T. N. J. Coll., Bhagalpur; Law Coll., Patna. Enrolled as an advocate of Patna High Court, Feb. 1935; Lecturer in Patna Law Coll., 1939-46. *Address:* 13, Circular Road, Patna.

CHOWDHRY, Radha Krishna, M.A., LL.B., Chairman, Railway Rates Tribunal. *b.* Nov. 18, 1898; *Educ.:* Muir Central Coll., Allahabad. In the U.P. Judicial Service, March 1925-Sept. 1950; Judicial Commissioner, Himachal Pradesh, Sept. 1950-Nov. 1953; later Chairman, Election Tribunal, P.E.P.S.U. at Bhatinda; Judge, Allahabad High Court, Nov. 1954-Nov. 1958. *Recreations:* Tennis; English Literature. *Address:* Adyar House, Madras 28.

CHOWDHURY, Devi Prasad Roy, M.B.E. Padma Bhushan (Oct. 1958), Sculptor; Ex-Chairman, Lalit Kala Akademi, New Delhi. *b.* June 15, 1899; *Educ.:* Privately. Principal, Govt. School of Arts, Madras, 1929-57; Director, Regional Arts Seminar organised by UNESCO at Tokyo, 1955; won 1st prize in the National Modern Sculpture Exhibition, sponsored by the Govt. of India; executed large group composition in the bronze — Martyrs Memorial, Bihar; Triumph of Labour (Delhi & Madras); reproduction of his paintings were published at the London Studio, New York International Studio, Moscow and other places. *Publications:* About eight books consisting of short stories in Bengali. *Recreations:* Big game hunting, wrestling, marksmanship with rifle. *Address:* 63, Shambunath Pandit Street, Calcutta 25; Chromepet, Madras.

CHOWDHURY, Maj.-Gen. P. S., Director of Supplies and Transport, Army Headquarters, since April 1957. *b.* Feb. 13, 1911; *Educ.:* Preparatory Education at Woodstock School, Golders Green, England and Ellesmere Coll., Shropshire, England; graduated from the Royal Military Coll., Sandhurst, England. Obtained King's Commission in the Indian Army, Jan. 1932; attached to 2nd Bn. Suffolk Regt. for one year; was with 5/11 Sikh Regt. (47th), upto 1936; transferred to Royal Indian Army Service Corps, 1936; was the first Indian officer to be appointed CRIASC of an Area, 1945; was in charge of the Military Evacuation Organisation Office at Amritsar during the partition; Brigadier Incharge, Administration of Southern Command, 1949-53; Director of Movements and Quartering, A.H.Q., Sept. 1953—Feb. 1956. *Clubs:* Delhi Gymkhana Club Ltd. *Address:* 30, Mersham Drive, London, N.W. 9.

CHUDASAMA, Mansinhji M., B.A., LL.B (Bombay Univ.), Inspector-General, Rly. Protection Force, Rly. Board, Govt. of India, since Jan. 1, 1960. *b.* April 25, 1905 of a Rajput family; *Educ.:* St. Xavier's Coll., Bombay; Law College, Poona and Ahmedabad. Joined Imperial Police, Dec. 1929; served as D.S.P. in several districts of the Province and in Thar Parkar District in Sind where he had to deal with the Hur menace; appointed D.I.G.P., N.R., Ahmedabad, 1947; Dy. Inspector-General of Police, C.I.D., Bombay Province, 1948–49; awarded I.P.M. in the same year for long and meritorious service; Commissioner of Police, Bombay, 1949–July 1955; officiated as I.G.P. for six months, 1949–50 and for four months, 1953–54; I.G.P., former Bombay State, July 11, 1955 to Dec. 1959; awarded President's Medal on Independence Day, Aug. 15, 1958. *Recreations:* Tennis, Golf Swimming, etc. *Clubs:* Ahmedabad Gymkhana Club, Poona Gymkhana Club, W.I.A.A. Club, Bombay, Willingdon Sports Club, Radio Club, Bombay. *Address:* Railway Board, New Delhi.

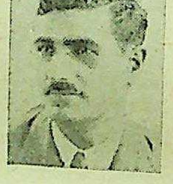
CHUGTAI, Ismat (Mrs. Ismat Shahid Lateef), B.A. (Lucknow), B.T. (Aligarh), Urdu novelist and story and screenplay writer for films. *b.* Aug. 21, 1915; *Educ.:* Lucknow and Aligarh. Was teacher for two years; Inspectress of Schools for one year; has written scripts for the films *Ziddi, Arzoo, Buzdil, Darwaza, Sone ki Chidiya*, etc. *Publications: Kaliyan; Choten; Chhui-Mui* and *Ek Baat* (short story collections in Urdu); *Ziddi* and *Terhi Lakir* (Urdu novels); *Shailan* (collection of plays). *Address:* 3, Indus Court A-Road, Churchgate, Bombay 1.

CHUNDRA, Bimal Kumar, M.B., B.S. (Calcutta), Swimmer. *b.* Nov. 19, 1927; *Educ.:* Scottish Church Collegiate School, Scottish Church Coll. and R. G. Kar Medical Coll. Learnt swimming at the age of 9 at the Central Swimming Club, Calcutta; Calcutta Univ. Inter-Collegiate swimming champion, 1944-50; West Bengal State Champion, 1946-54; All-India Aquatic Champion in 400 metres and 1,500 metres Free Style, 1947-52; represented India in XIV World, Olympic Games in Swimming, London, 1948; represented India in the 1st Asian Games in Swimming, New Delhi, 1951; awarded Bronze Medal being 3rd in 400 metres Free Style; passed the "Bronze Cross" and "Award of Merit" tests of Royal Life Saving Society, London, 1948; Swam in the river Ganges for seven hours and covered 27 miles; First Indian to swim the English Channel successfully from France to England in 13 hrs. 50 minutes in his first attempt, Sept. 1959; Life member, Royal Life Saving Society, London. *Address: Residence:* 46/1, Ramdulal Sircar Street, Calcutta 6.

CLARK, Patrick David Carment Reid, M.A. (Edin.), C.A., Managing Director, Killick Industries Ltd. *b.* June 20, 1911; *Educ.:* Inverness Royal Academy; Edinburgh Univ.; Glasgow Univ. Served in British Army, 1940-41 and with Indian Army, 1941-46; joined Killick Nixon & Co., 1946 and Killick Industries Ltd., 1948. *Recreations:* Cricket, Hockey, Association Football. *Clubs:* Willingdon Sports Club, Royal Bombay Yacht Club, Bombay Gymkhana. *Address:* Kismet, 27-A, Carter Road, Bandra, Bombay 20.

COOPER, Andrew Eric, Chartered Accountant, Deputy Managing Director, A. & F. Harvey Ltd. *b.* 1926, in Purley, Surrey, England. Joined Madura Mills Co., Ltd., 1954; Director: Madura Mills Co. Ltd., Madurai, Tuticorin and Ambasamudram; Pandyan Insurance Co. Ltd., Punalur Paper Mills Ltd., Fenner, Cockill Ltd., The Indian Textile Paper Tube Co. Ltd., Tuticorin Co. Private Ltd., Pandyan Bank Ltd., Travancore Titanium Products Ltd. *Address:* No. 2, Race Course, Madurai.

COOPER, Jal Manekji, F.R.G.S., Member, British Philatelic Association Ltd.; Hon. Secy., The Empire of India Philatelic Society. *b.* March 29, 1905. Member, Glasgow Philatelic Society, Philatelic Traders' Society, The Air Mail Society, etc.; Editor and Publisher of "India's Stamp Journal" (a monthly Philatelic Magazine); Auctioneer and Philatelic Valuer; Dealer in Rare Stamps and all kinds of Philatelic accessories. *Publications: Indian Rocket Mails, Early Indian Cancellations, Stamps of India, India used in Burma, India used Abroad,* and *Specialised Catalogue of Indian Stamps. Address:* Standard Building, Dadabhoy Naoroji Road, Bombay.



COSSIMBAZAR, Maharajkumar Somendra Chandra Nandy, M.A., Head of a premier Zamindar family of West Bengal. *b.* 1928; *Educ.:* Calcutta Univ., M.A., 1950. Pres., Governing Body, Krishnath Coll. (Berhampore), Maharaja Manindra Chandra Coll. (Calcutta), Krishnath Coll. School (Berhampore), Maharani Kasiswari Girls' School (Berhampore), Manindra Chandra Vidyapith (Saidabad), Maharaja Srischandra Girls' School (Saidabad); Maharani Nilima Probha Institute for the Deaf and Dumb (Berhampore); Pres., Central Calcutta Rifle Club; Bangiya Natya Sansad; Treasurer: Bangiya Itihash Parisad; All India Pottery Manufacturers' Assoc.; Trustee, Bangiya Sahitya Parisad; Secy., Natyakar Sangha (Calcutta); Member Executive Cttee: Bengal National Chamber of Commerce and Industry; British Indian Assoc.; All Bengal Physical Culture Assoc.; Safety First Assoc. of India (Bengal Branch); Life Member: Indian History Congress, Banga Sanskriti Sammelan (Calcutta); Automobile Assoc. of Eastern India; Member: Calcutta Historical Society; Bureau of Industrial Statistics; Director: Bengal Potteries

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Ltd.; Hindusthan General Insurance Society Ltd.; Manindra Mills Ltd.; Rajgaon Stone Co. Ltd.; Sealdah Cold Storage & Transport Ltd.; Cossimbazar Agrico Private Ltd.; Dev-All Private Ltd.; Maharaja Cossimbazar Stone Works Private Ltd.; Cossimbazar Sand Co. Private Ltd.; Proprietor, Maharaja Cossimbazar China Clay Mines (Singhbhum); Partner, Rajmahal Quartz-Sand and Kaolin Co.; Asstt. Editor, *Bengal Past & Present*; Critic & Playwright. *Publications: Chhaya-Bihin; Sakal-Sandhyar Natak; Chander Hat* and *Samantaral*. *Recreations:* All-round sportsman taking particular interest in Cricket and Football. *Address:* "Sreepur Palace", P.O. Cossimbazar Raj, Murshidabad & "Cossimbazar House", 302, Upper Circular Road, Calcutta-9.

CROCKER, H.E. Mr. Walter Russell, C.B.E., Croix de Guerre and L'Ordre Royal du Lion (Belg.), High Commissioner for Australia in India, and Ambassador to Nepal, since 1958. *b.* March 25, 1902; *Educ.:* Univ. of Adelaide; Balliol College, Oxford; Stanford University, California. British Colonial Service, 1930-34; League of Nations (and International Labour Office), 1934-40; Army, 1940-45; farming in S. Australia, 1946; United Nations, 1947-49; Professor, Australian National Univ., 1949-52; High Commissioner for Australia in India, 1952-55; Ambassador to Indonesia, 1955-57; High Commissioner to Canada, 1957-58. *Publications: The Japanese Population Problem* (1930); *Nigeria: A Critique of British Colonial Administration* (1936); *On Governing Colonies* (1946); *Self-Government for the Colonies* (1949); *Race and International Relations* (1955). *Recreations:* Walking; Music. *Clubs:* Gymkhana, New Delhi; Reform Club, London. *Address:* Australian High Commission, New Delhi.

CUTTAT, H.E. Dr. Jacques-Albert, Licence es Lettres, licence and doctorate in Law, Swiss Ambassador Extraordinary and Plenipotentiary to India and concurrently Envoy Extraordinary and Minister Plenipotentiary to Ceylon and Nepal, since 1960. *b.* May 13, 1909; *Educ.:* Basle, Berne, Paris (licence eslettres, licence and doctorate in law). Joined diplomatic service, 1935; Secy., Legation in Buenos Aires 1938-46; First Secy., 1943; Chief of Protocol Berne, (1946), First Asstt. to the Head of the Political Division of the Swiss Foreign Office; Charge d'Affaires en pied, Bogota (1951); Envoy Extr. and Min. Plenipotentiary to Colombia and Equator (1954). *Publications:* Several articles like *L' Esprit Americain* (1933); *La Musique Traditionnelle* (a comparative study of Chinese, Hindu, Moslem and Mediaeval Music); *Comment situer L'Oeuvre de Rene Guenon* (1952); *Phaenomenologie und Begegnung der Religionew* (1959; *Asiens Incognito in Europaischen Geisteleben* (1959); *Oestlicher Advent und Gnostische Versuchung* (1960), etc. *Recreations:* Tennis; *Clubs:* Gymkhana Club. *Address: Residence:* 7, Prithviraj Road, New Delhi. *Office:* Swiss Embassy, Theatre Communications Building, Radial Road 1, Connaught Place, P.O.B. 392, New Delhi.

DABOO, Raj Priya Dinshaw Rattanji, B.A., Ex-M.L.C., former Bombay State, former Nayab Dewan and member, Executive Council of Baroda State. *b.* 25th Sept. 1885.

Daboo family founded the Parsee General Hospital, Daboo Students' Hostels, and several other charitable and religious institutions. Himself, besides his other charities, gave a lakh of rupees to found a Girls' High School at Navsari to commemorate the name of his late mother Bai Dinbai; has created a public Charitable Trust, taking effect immediately, of all his immoveable estates worth three and a half lakhs of rupees. *Educ.:* Elphinstone College, Bombay. Joined his father's business of Forest and Public Works contracts. Toured Europe in 1912. Was Director, The Associated Cement Cos., Ltd., Tata Hydro-Electric Co., Ltd., Andhra Power Co., Ltd., Devkaran Nanji Investment Co., Ltd., The Navsari Electric Supply Co., Ltd.; Ex-member, Indian Council of Agricultural Research; Director, The Powell Industries Ltd.; Member, Baroda Legislative Council, 1918-25, again from 1940 to 1948. Appointed Development Minister, Baroda State, 1944-48; Member, Navsari Municipality, 1914-1942, its first elected President, 1923-1925, again 1934-1936. Member, Navsari District Board, 1917-42, its Vice-President, 1918-25, its first elected President in 1939. Director, District Co-operative Bank, 1922-42, its first elected President, 1925-42. Founded District Land Mortgage Co-operative Bank in 1936 and its President, 1936-42. Was member, Baroda Banking Inquiry Committee, Baroda Education Board, Agricultural Improvement Committee, Baroda Economic Board, Central Communication Board. Was given a civic address by the public of Navsari for selfless services to people in 1925 and 1943. Was awarded titles of Raj Bhushan in 1927, Raj Ratna in 1936 and Raj Priya in 1943. Was awarded Gold Medal on the occasion of H. H. the late Maharaja's Diamond Jubilee. *Address:* Loonsikui, Navsari (Western Rly.).

da COSTA-JOSHI, Major Albert F. W., F.R.C.S., L.M. & S., D.T.M., V.D., A.F.M.C., I.M.S. *b.* Jan. 13, 1889; *Educ.:* St. Joseph's Girls' School, Bombay, 1893-98; St. Mary's School, Goa upto 1903; St. Xavier's High School and Coll. and Grant Medical Coll., Bombay, upto 1910; L.M. & S., Calcutta, D.T.M., Edinburgh, F.R.C.S. Entered M. P. Medical Service as Plague Medical Officer, 1912; Commissioned I.M.S., 1914; served as Medical Officer 2/9th King George's Own Gurkha Rifles, World War I, Third Afghan War and Frontier Expeditions;

Prof. of Midwifery, Gynæcology, Pediatrics, Hygiene, Surgery and Eye, Ear, Nose and Throat in Robertson Medical School, Nagpur, 1921; Civil Surgeon, M. P., 1927; retired 1938, with the rank of Major; General Secretary, Catholic Union of India; member, Indian Medical Assoc., M.P. Medical Assoc., Bombay Medical Union; former member of British Medical Association; recipient of the Volunteer Officer's Decoration, 1929; decorated by His Holiness The Pope Pius XII with the "Bene Merenti" Gold Medal, May 30, 1950. *Hobbies:* Polo, Golf, Photography, Sport, etc. *Publications: Entire absence of the Uterus; Atresia of the Vagina and Cervix Uteri, Appendix, Tonsils, Adenoids, Cholera, Strangulated Hernia, Teeth at Birth, Suspended Animation.* *Address:* Chateau d'Emilia, Kamptee Road, Nagpur 1.

DADACHANJI, Nariman Merwanji, M.Sc. (Tech.) (Manchester), M.Sc. (Benaras); Managing Partner, Hind Dyes Manufacturing Co. (Manufacturers of Coal Tar Dyes); *Educ.:* Benaras Hindu Univ. and Coll. of Technology, Manchester. Conducts an up-to-date Dyes Manufacturing Factory and a Laboratory for testing of Dyes & Chemicals; has travelled extensively on the Continent and U.S.A. on business; Pres., The Dyestuffs Manufacturers' Assoc. of India. *Publications:* Thesis written on The Fading of Napthols and Bleaching of Textile Fibres by Pressurised Oxygen at Manchester Univ. *Club:* National Sports Club of India. *Address:* 69-C, Ashiana, Breach Candy, Bombay No. 26.

DAFTARDAR, Bhagwant Ambaji, B.A., Journalist and Social Worker, Sangli. *b.* 1903; *Educ.:* Sangli High School; Willingdon Coll., Sangli; Pres. (1st elected), Sangli City Municipality, 1940-42 and 1948-49; its Chairman, 1947; Sangli State Delegate to attend the Publicity and Information Officers, Conference at New Delhi, 1944; was member, Bombay State Prohibition Board for South Satara (Sangli, Dist.); was Chairman, Sangli Dist. Central Co-operative Bank Ltd.; Pres., South Satara (Sangl Dist. Industrial Co-operative Assoc. Ltd., Sangli; gave oral evidence before the Local Finance Inquiry Cttee. appointed by the Govt. of India, 1950; Pres., New Education Society, Sangli; was Pres., Sangli Journalists' Assoc. for four years: is Director, Sangli Dist. Co-operative Board, Sangli. *Club:* Sangli Rotary Club, Sangli (ex-Pres.). *Address:* "Amba-Prasad", Shivajinagar, Sangli (S. Rly.).

DAHANUKAR, Dattatreya Mahadeo, Director: The Maharashtra Sugar Mills Ltd. *b.* Dec. 21, 1911; *Educ.:* Bombay. Member: The Indian Merchants' Chamber; The Maharashtra Chamber of Commerce, Bombay; Bombay Management Assoc., Bombay; Federation of Indian Chambers of Commerce and Industry. *Recreations:* Swimming, Golf, Bridge, etc. *Clubs:* Willingdon Sports Club; Cricket Club of India Ltd.; Bombay Presidency Radio Club. *Address: Office:* Industrial Assurance Building, Churchgate, Bombay 1. *Residence:* "Ratnakar," Indraji Road, Malabar Hill, Bombay 6.

DAHANUKAR, Mahadeo Laxman, Managing Director, M. L. Dahanukar & Co. Private Ltd., Managing Agents, The Maharashtra Sugar Mills Ltd. and The Belvandi Sugar Farm Private Ltd.; Director, Dahanukar Sons Private Ltd., New United Construction & Eng. Co. Private Ltd., The United Commercial Bank Ltd., The Hindusthan General Insurance Society Ltd.; ex-Sheriff of Bombay; ex-President, The Maharashtra Chamber of Commerce; Employers' delegate to the International Labour Conference, Geneva, 1939; Ex-member of the Committee of the Indian Merchants' Chamber, the Federation of Indian Chambers of Commerce & Industry, Indian National Committee of the International Chamber of Commerce, All-India Organisation of Industrial Employers; Provincial Housing Advisory Committee, Regional Disposal Advisory Committee, Bombay and other Govt. Bodies; Employers' Federation of India; Councillor, Bombay Municipal Corporation (1932 to 1939), and Bandra Municipality (1930-34); member, Divisional Rly. Users' Consultative Cttee., Central Rly., Bombay; takes active part in all commercial, industrial and social activities. *Address:* Shree Sadan, 4A, Carmichael Road, Cumballa Hill, Bombay; Industrial Assurance Building, opp. Churchgate Station, Bombay 1.

DALAL, Jayanti G., Gujarati Writer. *b.* Nov. 18, 1909; *Educ.:* Surat, Ahmedabad and Gujarat Coll., Ahmedabad. Gave up studies to join satyagraha, 1930; jailed, 1930, 1932-33, 1941, 1942-44, 1957, 1958; took to journalism and writing; organised Mahagujarat Janata Parishad, 1956; elected to Legislative Assembly; had been Chairman, Gujarat P.S.P.; awarded Ranjitram Medal for 1959 for one act plays and short stories. *Publications:* novels, short stories, one act plays, drama, etc., translated entire *War and Peace*. *Recreations:* Reading, Drama. *Address:* Jivan Pole, Sankadi Sheri, Ahmedabad.

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DALAL, Manockji Nadirshaw, Ex-Chairman, Council of State, India. *b.* January 7, 1905. Member, Council of State for over a decade; Sheriff of Bombay; Vice-Pres., Indian Branch of the Commonwealth Parliamentary Assoc.; Member of the Court, Delhi Univ.; served on almost all Advisory Cttees. of Ministries of the Govt. of India, like the Industries and Civil Supplies Cttee., Supply and Munitions Production Cttee., Central Advisory Council of the Railway Board, Civil Defence Cttee., Food Cttee., Central Food Council, Roads Cttee., Commonwealth Relations Cttee., Central Consumers Council, etc.; member, Exec. Cttee., Anti-Tuberculosis Assoc., Delhi; Secy., the Engineering Industries Sub-Cttee. of the National Planning Cttee., 1939, etc.; Chairman, M. V. Taxation Enquiry Cttee., appointed by the Govt. of India, 1950; Pres. and member of Council, Indian Roads and Transport Development Assoc., India; Director, International Road Federation representing India; in Bombay served on the Board of Communications, Provincial Transport Authority, Traffic Advisory Board, Famine Relief Cttee., Food Council, Food Advisory Board, Western Railway Local Advisory Council, etc.; member, Executive Cttee. of the Indian Merchants' Chamber; Chairman: Wilcock Buckwell (India) Ltd.; Coles Cranes (India) Ltd.; Tractors (India) Ltd.; Director: Sepulchre Bros. (India) Ltd.; Palanpur Vegetable Products Ltd.; Member: Royal Institute of Civil Engineers (London); Fellow, Incorporated Assoc. of Architects and Surveyors (London); Fellow, Royal Society of Arts (London); Honourably mentioned for the Charles Hawkseley Prize, 1931, by the Royal Institute of Civil Engineers (London) *Address:* Nepean House, Ridge Road, Bombay 6.

DALMIA, Jaidayal. *b.* 1905, younger brother of Seth Ramkrishna Dalmia; *Educ.:* Privately. A leading industrialist and an able executive; has wide knowledge of machinery and plant; keenly interested in mass literacy, labour problems and maternity welfare; has travelled in India and Europe; has visited workshops of many important machinery manufacturers in Great Britain and the Continent and has good experience of different processes of cement manufacture; keenly interested in engineering; Chairman, Orissa Cement Ltd. and Dalmia Iron & Steel Ltd. *Hobbies:* Photography. *Address:* Tilak Marg, New Delhi.

DALMIA, Seth Ramkrishna. *b.* April 7, 1893. Industrialist; his ancestors, noted for their love of spiritual service, belonged to Dalma, a village in the Punjab States, from where they migrated to Rajputana; *Educ.:* Without the help of a tutor, by reading books in leisure time, practical experience and natural gift, acquired knowledge specially in finance, banking, commerce, economics and philosophy; also acquired good knowledge of Hindi, Bengali, Gujrathi and English, all of which he speaks well and with ease; well read in Hindu scriptures; started career at the age of 12 on Rs. 10 per mensem, as an apprentice with his maternal uncle; is the founder of the Dalmia-Jain Group of Industries consisting of many companies including banks, insurance and investment companies, chains of cement and sugar factories, chemicals, biscuit factories, aviation companies, railways, collieries, publishing house and newspapers; has now distributed most of the concerns between his brother and son-in-law, keeping just a few in his hands; had numerous ups and downs in his career but his steadfastness and strong will power raised him to his present position; his centres of activity have grown into self-sufficient towns, named after his ancestors and relations—Dalmianagar (Bihar), Dalmiapuram (South India), Dalmia-Dadri (Punjab), Ramkrishna Lok, Sawai Madhopur (Rajasthan), and Shantinagar (Karachi, Pakistan); one of the biggest philanthropists, his charities include schools and other institutions such as hospitals, widows' homes, poor houses, and religious institutions being run by Charity Trusts; since 1951 has lived on fruit and fruit juice, has vowed not to take cereals until cow slaughter is abolished; wears simple clothes and is frugal in his personal expenses; is on terms of friendship with religious and social leaders; orthodox in his living and having implicit faith in his own religion, has strong belief in the Supremest Power of Goddess "Jagadamba" who pervades and controls the Universe. *Hobbies:* Study of Philosophy and propagation of Adwait. *Address:* Dalmia House, New Delhi.

DALMIA, Vishnu Hari, Industrialist. *b.* May 1924; *Educ.:* Privately. From young age, began taking active interest in various concerns owned and/or managed by the Dalmia Group like Bharat Bank Ltd., Bharat Fire & General Insurance Ltd. and Bharat Insurance Co., Ltd.; Chairman: Dalmia Cement (Bharat) Ltd.; Raza Buland Sugar Co., Ltd.; The Rampur Distillery & Chemical Co., Ltd.; Director, Orissa Cement Ltd.; Member: Main Cttee. of Indian Sugar Mills Assoc.; was a member, Central Wage Board (Cement); widely travelled in Europe, Japan and U.S.A.; keenly interested in cultural activities, all welfare programmes for employees and religious literature; as a strict vegetarian, takes active interest in propagation of vegetarianism. *Address:* 4, Scindia House, New Delhi 1 (Office); 2, Tilak Marg, New Delhi 1 (Residence).

DAMLE, Kashinath Raghunath, B.Sc. (Hons.) (Allahabad and London), I.C.S., Secretary, Ministry of Food and Agriculture (Deptt. of Agriculture), Govt. of India. *b.* March 3, 1906; *Educ.:* Allahabad Univ.; King's Coll., London. Joint Magistrate and Dist. & Sessions Judge in various places in U.P. and Ajmer (1930–44); Secy. to High Commissioner for India in Australia, also Acting High Commissioner (1944–48); Joint Secy. and Offg. Secy. to Govt. of India and Vice-Pres., Indian Council of Agricultural Research (1949–55); Chairman, Tariff Commission, 1955-58. *Recreations:* Tennis, Golf. *Clubs:* Delhi Gymkhana Club, Delhi Golf Club. *Address:* New Delhi.

DAMODARAN, K., Communist leader; Editor, *Navayugam*, Ernakulam. *b.* Feb. 5, 1912; *Educ.:* Zamorin's Coll. and Kashi Vidya Pith, Benares. Began political, social and literary activities, 1930; arrested and jailed during C.D. movement; joined Congress Socialist Party, 1934; became member, Communist Party, 1935; became member, A.I.C.C.; Secy., Kerala Pradesh Congress Cttee., 1940; arrested and detained for 5 years; is member: Central Executive Cttee. of the Communist Party of India; Kerala Sahitya Academy; Senate of the Kerala Univ., etc. *Publications:* Has written about thirty books and pamphlets on various subjects like Economics, Philosophy, Sociology, Literature, Marxism, etc.; *The Soul of India* (Philosophy); *Principles of Economics; Manushyan; What is Literature; Marxism* (10 parts); *Pattabakki* (Arrears of Rent: A Play), etc. *Address:* Editor, *Navayugam*, Ernakulam.

DANDEKAR, Gopal Neelkanth, Marathi Novelist. *b.* July 8, 1917; *Educ.:* Upto 5th standard at Nagpur; left school and house to join national movement of 1930; wandered all over India in company of Sages for a period of 15 years. *Publications:* Novels: Marathi: *Binduchi Katha; Tudavlele Gharkul; Padma; Sindhukanya; Shitu; Jagannatha Pandit; Pavnakathacha Dhondi; Padgharli; Purnamaychi Lekre; Kuna Ekachi Bhraman Gatha;* Hindi: *Kisi Ekaki Bhraman Gatha; Machivarala Budha; Aamhi Bhageerathache Putra, Hum Bhageerath Kee Santan; Anandwanbhuwan* (a novel about lepers); Dramas, Collections of stories, 60 books of various nature in Hindi and Marathi. *Address:* Talegaon-Dabhada, District Poona.

DANDEKAR, Ramchandra Narayan, M.A. (Sanskrit), M.A. (Ancient Indian Culture), Ph.D., Sanskrit scholar; Professor of Sanskrit and Head of the Deptt. of Sanskrit and Prakrit Languages, Univ. of Poona. *b.* March 17, 1909; *Educ.:* Deccan Coll., Poona; Heidelberg Univ. (Germany); Hon. Secy., Bhandarkar Oriental Research Institute, Poona, since 1939; General Secy., All India Oriental Conference, since 1946; member: attended International Congresses of Orientalists at Paris (1948), Istanbul (1951), Cambridge (1954), Moscow (1960), and International Congress for the History of Religions, Tokyo (1958); Member-Secy., Sanskrit Commission appointed by the Govt. of India, 1956-57; Joint General Editor, Critical Edition of Mahabharata; Editor, *Annals of B.O.R.I., Journal of University of Poona, Erasmus. Publications: Der vedische Mensch, A History of the Guptas, Vedic Mythological Tracts, Vedic Bibliography, Salyaparvan, Rasaratnapradipika, Progress of Indic Studies, Srautakosa;* has contributed to various Indian and foreign publications. *Address:* University of Poona, Poona 7.

DANDEKER, Narayan, B.Sc. (Econ.) (Hons.) (London), B.Com. (Hons.) (London), A.S.A.A. (Hons.), A.C.A. (Eng.), A.C.A. (India), I.C.S. (Retd.). Managing Director, Cement Agencies (Private) Ltd., since Dec. 1954; Pres., Bombay Chamber of Commerce, 1959-60; Chairman, Council for Economic Education. *b.* June 24, 1908; *Educ.:* St. Mary's European High School, Madras; Univ. Coll., Colombo, Ceylon; London School of Economics, London; School of Oriental Studies, London. Joined the I.C.S., 1931; Commissioner of Income-Tax (1941-44), at Calcutta and then in Punjab, Delhi and N.-W.F. Provinces (1944-46); on special duty with the Central Board of Revenue (1946-47); Commsnr. of Income-Tax, Bengal (1947-48); Member, Central Board of Revenue (1948); Joint Secy., States Ministry (1948); member, Cttee. on State Trading, Oct. 1949; was with Scindia Steam Navigation Co., Ltd., Bombay, 1949-54; President, Bombay Management Association. *Clubs:* Presidency Club, Madras; Calcutta Club, Calcutta; Roshanara and Delhi Gymkhana, New Delhi; Rotary Club, Willingdon Sports Club and Radio Club, Bombay. *Address:* Southlands, 177, Upper Colaba, Bombay 5.

DANGE, Shripad Amrit, M.P., General Secretary, All India Trade Union Congress. *b.* Oct. 10, 1899; *Educ.:* Bombay. Member, Central Executive Committee of the Communist Party of India and also member, Secretariat; Vice-Pres., World Federation of Trade Unions; courted jail for over 15 years under the British Govt. and the Congress Govt. for conducting strikes, struggles and political activities on behalf of the Communist Party; elected to Lok Sabha, 1957. *Publications: India from Primitive Communism to Slavery*, 1949; *Hell Found*, 1928; *Gandhi* vs. *Lenin*, 1921. *Address:* 9, Kohinoor Road, Dadar, Bombay 14; No. 4, Ashok Road, New Delhi.

DAPHTARY, Chandra Kisan, M.A. (Cantab.), Bar-at-Law, Solicitor-General, Govt. of India, since July 1951. *b.* April 1, 1893; *Educ.:* St. Paul's School, London; Magdalene

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Coll., Cambridge; called to the Bar, January 1917, Advocate O.S., High Court; Advocate-General, Bombay, till July 1951. *Address:* 3, Hastings Road, New Delhi.

DAS, Arup, Graduated in Art from the Govt. College of Arts & Crafts, Calcutta in 1949, Senior Artist. Directorate of Advertising & Visual Publicity, Ministry of Information and Broadcasting, Govt. of India. *b.* July 5, 1927; *Educ.:* Calcutta. Paintings exhibited extensively in the principal cities of the world and are in the private collections and Art Galleries in U.S.S.R., Cairo, Warsaw, Hungary and Australia; awarded many prizes at different exhibitions; awarded the National Prize by the Lalit Kala Akademi, Min. of Education, Govt. of India, 1955; held a one-man exhibition of paintings in New Delhi, 1954 and in Calcutta, 1956; *Address:* C/o All India Fine Arts & Crafts Society, Old Mill Road, New Delhi.

DAS, Durga, Chief Editor, *India News and Feature Alliance*, since Nov. 1959. *b.* Nov. 23, 1900, at Aur (Punjab); *Educ.:* Jullundur and Lahore. Parliamentary Correspondent and Editor, Associated Press of India, New Delhi–Simla, 1918–37; Special Representative of the *Statesman*, 1938–43; Joint Editor, the *Hindustan Times*, 1944–57 and Chief Editor, 1957–59; studied working of the Press and Parliaments in Europe and the U.K., 1931; visited the Middle East, Italy and the U.K. as War Correspondent, 1945; Pres., U.P. Press Conference, 1946; Chairman, Press Gallery Cttee., Indian Parliament, 1951-59; Delegate to the Commonwealth Press Conference, Ottawa, 1951; Pres., All-India Newspaper Editors' Conference and of Press Club of India, New Delhi; made round-the-world tours, 1957 and 1959. *Publications: India & The World; Ram Rajya in Action. Address:* 2, Keeling Lane, New Delhi.

DAS, Mr. Justice Gopal Chandra, B.A., B.L., Judge, Orissa High Court, since 1956. *b.* Feb. 11, 1902. *Educ.:* Puri Zilla School, Ravenshaw Coll., Cuttack, and Patna Law Coll., Patna. Enrolled and practised as an Advocate, Patna High Court, 1930-48; Standing Counsel to the Income-Tax Deptt., 1949-56; Govt. Advocate, Orissa High Court, 1950-52; elected member Bar Council, 1949-56; was Chairman, Tribunal Constituted under the Orissa Estates Abolition Act; is also Chairman, Industrial Tribunal, Orissa; Chairman, Governing Body of the S.C.B. Medical Coll. and the Ravenshaw Coll., Cuttack; Chairman, Advisory Board (Preventive Detention Act), 1958; Pres., Rotary Club, Cuttack for 1959–60; 1961–62. *Recreations:* Music, Art, Gardening. *Address:* Stoney Road, Cuttack.

DAS, Hareswar, M.A., B.L. (Calcutta), Minister for Revenue, Assam, since April 22, 1957. *b.* Nov. 2, 1897; *Educ.:* Univ. Coll., Gauhati and Law Coll., Calcutta; took Law degree, 1922. Practised as a lawyer from 1923; gave up practice and joined the Gaudiya Mission of Calcutta, an organisation for the spread of Vaisnavism; after some time rejoined practice; became Municipal Commissioner and then Chairman, Goalpara Municipal Board; started several high schools and M.E. Schools; was elected M.L.A.; became Parliamentary Secretary and later Dy. Minister. *Publications:* A book in Assamese called *Bhagwati Vaishnab Dharma. Address:* La Chaumier, Shillong.

DAS, Dr. Mono Mohon, M.B.B.S., Dy. Minister for Scientific Research and Cultural Affairs, Govt. of India, since Apr. 1958. *b.* 1910; *Educ.:* Graduated from Calcutta Medical College. Was member, Forward Bloc; House Physician, Calcutta Medical Coll. Hospitals for one year; served in Calcutta Corporation for several years; was member, Constituent Assembly; was Parliamentary Secretary and Dy. Education Minister, Govt. of India. *Recreations:* Gardening. *Address:* 15/3, Nirode Bihary Mallick Road, Calcutta; 13, Ashok Road, New Delhi.

DAS, Dr. Nabagopal, I.C.S. (Retd.), B.A. (Calcutta), Ph.D. (London), Life Member of Royal Economic Society since 1937. Director-General, Employers' Federation of India, Bombay. *b.* Feb. 20, 1910; *Educ.:* Presidency Coll., Calcutta; London School of Economics. Entered the I.C.S., 1931. Director-General of Resettlement & Employment and Joint Secy., Ministry of Labour, Govt. of India (1947-52); Secy. to Govt. of West Bengal, Commerce and Industries, Irrigation and Waterways and Home Deptts. (1952-58); attended the I.L.O. Sessions in San Francisco (1948) and Geneva (1949 and 1950) on behalf of Govt. of India; Founder-member, Indian P.E.N. *Publications:* Author of a number of books on Economics (*Industrial Enterprise in India; Unemployment, Full Employment and India; The Public Sector in India; Studies in Indian Economic Problems*); also of five novels and four collections of short stories in Bengali. *Clubs:* Delhi Gymkhana Club; C.C.I., Bombay; United Services Club, Bombay. *Address:* C/o Employers' Federation of India, 148, Mahatma Gandhi Road, Bombay.

DAS, Dr. Pandit Nilakantha, M.A., D.Litt., Ex-Speaker, Orissa Legislative Assembly; Poet and Writer. *b.* August 5, 1884. Appointed by Calcutta University to Post-graduate Professorship in 1920; imprisoned in N. C. movement; was Provincial Congress President, Utkal, several times from 1934-39 and President, Utkal All-Party Conference; elected Chairman, Reception Committee, I.N. Congress, Puri Session, 1931-32; Member, Delhi University Court for 6 years from 1924; Chairman, Orissa University Committee; M.L.A. (Central), 1924-30, again from 1935-45; M.L.A. (Orissa), 1952-57; Pro-Chancellor, Utkal Univ., 1955. *Publications:* Books for children on new lines; Critical Treatises, Essays, etc.; a new thesis on the Gita with commentary; Evolution of Oriya Literature; research articles on Vedic Language and Culture, Jagannatha and other similar institutions; Pres., Orissa Sahitya Akademi, 1957. *Address:* Village and P.O. Sriramchandrapur, Dist. Puri.

DAS, Mr. Justice Sudhansu Kumar, B.A., Judge, Supreme Court, since April 30, 1956. *b.* Sept. 3, 1898; *Educ.:* Collegiate School, Krishnagar (West Bengal), Pres. Coll., Calcutta and London School of Oriental Studies, London. Joined the Indian Civil Service by competitive examination held in London in 1921; served in Bihar and Orissa as Asst. Magistrate & Collector; later as District & Sessions Judge; Registrar, Patna High Court; Secy., Legislative Deptt.; Judicial Secretary & Legal Remembrancer, Labour Commissioner, Govt. of Bihar; appointed Officiating Judge, Patna High Court, 1944; Additional Judge, 1945-48; Permanent Judge, 1948-55; Chief Justice, Jan. 1955-April 1956. *Address:* New Delhi.

DAS, Dr. Sudhi Ranjan, Barrister-at-Law, LL.D., *Honoris-Causa* of Allahabad and Calcutta Universities; Vice-Chancellor, Visva-Bharati University, Santiniketan, since Nov. 1959. *b.* Oct. 1, 1894; *Educ.:* Tagore's School, Santiniketan, Bangabasi Coll., Calcutta; Univ. Coll., London; Graduated, Calcutta Univ., 1915; LL.B. (Lond.) 1st class 1st, 1918; called to the Bar, Gray's Inn, 1918. Joined Calcutta Bar, 1919; Lecturer, Univ. Law College; Additional Judge, Calcutta High Court, 1942-44; Puisne Judge, Calcutta High Court, 1944-49; Chief Justice, East Punjab High Court, 1949-50; Judge, Supreme Court of India, 1950-55; Chief Justice of India, Feb. 1956-59. *Recreation:* Tennis. *Club:* Calcutta. *Address:* Santiniketan, West Bengal.

DAS GUPTA, Bimal, Diploma in Commercial Art, leading painter; Assistant Director (Publicity), National Bldgs. Organisation, Ministry of Works, Housing & Supply, Govt. of India, New Delhi. *b.* Dec. 28, 1917; *Educ.:* Govt. College of Arts and Crafts, Calcutta. Won several prizes in all India poster competitions; also gold and silver medals as best water colourist in various exhibitions in India; awarded the national prize by the President of India, 1955; paintings exhibited in the principal cities of the world; held one man exhibitions of paintings in Delhi, Sept. 1955, Sept. 1957, Nov. 1960 and in Calcutta, Feb. 1957; his latest experiments are in unconventional *gouache* paintings; a water colour "Sacks and Sands" preserved in the Hermit Art Gallery, U.S.S.R.; extensively toured India for study. *Recreations:* Yogic Asanas; Touring for study; study in studio. *Address:* 15, A/5, Western Extension, Area, Karol Bagh, New Delhi 5.

DAS-GUPTA, Dr. Hirendra Nath, M.Sc. (First-class) (Silver medalist), D.Sc. Professor and Head of the Deptt. of Silicate Technology, Banaras Hindu Univ., since July 1961. *b.* November 1904; *Educ.:* The University of Calcutta, Bengal. Awarded a Post-graduate Research Scholarship by the Govt. of Bengal for carrying on original investigation on organo-arsenic drugs, 1930-33; Council Member, Indian Chem. Soc., 1948-50; Professor of Chemistry, Fuel & Metallurgy, Indian School of Mines and Applied Geology, Dhanbad; presided over the section of Engg. and Metallurgy of the 48th session of Indian Science Congress, Roorkee, 1961. *Publications:* Published numerous papers embodying the results of original investigations in branches like organo-arsenic compounds; glass and silicates; sulphur, phosphorus, analytical chemistry and metallurgy. *Address:* Varanasi.

DAS-GUPTA, Niraj Nath, M.Sc. (Cal.), Ph.D. (Lond.), F.N.I., Scientist; Professor of Biophysics, Institute of Nuclear Physics, Calcutta Univ. *b.* Feb. 1, 1909; *Educ.:* Hindu School, Calcutta (1925); B.Sc. (Hons.), Presidency Coll., Calcutta (1929); M.Sc. (1st Class 1st), Science Coll., Cal. (1931); Ph.D., King's Coll., Lond. (1938); Gold Medal and Prize (Cal. Univ., 1931); Mahendralal Sircar Research Medallist (1938); Ghosh Travelling Fellow, Cal. Univ. (1945); Research Associate, Stanford Univ., California (1946); member, Senate and Academic Council, Cal. Univ., since 1954; Hony. Physicist, Chittaranjan Cancer Hospital, since 1950; Secy., Biophysics Research Cttee., C.S.I.R., Govt. of India (1955-58); a pioneer in Electron Microscopic and Biophysical Researches in India; *Publications: Wilson Cloud Chamber and its Applications in Physics* (1946), translated into Russian; numerous other scientific papers in electron microscopy and biophysics. *Address:* 44, Hazra Road, Calcutta 19.

DAS GUPTA, Prodosh Kusum, B.A., F.R.S.A. (Lond.) (1955), Curator, National Gallery of Modern Art, New Delhi, since July 1957. *b.* Jan. 10, 1912, Dacca; *Educ.:* B.A. from Scottish Church Coll., Calcutta, 1932; Govt. School of Arts and Crafts, Lucknow, and Madras; awarded Guru Prasanna Ghose Travelling Scholarship by the Calcutta Univ. in 1938 to study sculpture in Royal Academy of Arts, London; L.C.C. Central School of Arts and Crafts, London; Ecole De Grand Schaumere, Paris. Practised as a professional sculptor till 1950; went twice to South East Asian countries, 1950-51; Reader and Head, Deptt. of Sculpture, Baroda Univ., 1950; Prof. of Sculpture, Govt. Coll. of Arts and Crafts, Calcutta, 1951-57; represented India in the International Sculpture Competition, London, 1953; President Elect, International Association of Plastic Arts, UNESCO, Vienna Session, 1960; *Publications: My Sculpture* (1956); many articles on Art in various magazines, periodicals and dailies both in English and Bengali. *Address:* Jaipur House, New Delhi.

DATAR, Balwant Nagesh, M.A., Minister in the Ministry of Home Affairs, Govt. of India, since Feb. 14, 1956. *b.* Aug. 13, 1894, at Tasgaon, Satara; *Educ.:* Deccan Coll., Poona; Baroda Coll., Baroda. Member: Senate and Faculty of Arts, Bombay Univ., 1937-42; Board of Studies in Kannada language, 1939-42; Dean, Faculty of Law, Karnatak Univ., 1950-51; member: Syndicate, Senate and Academic Council, Karnatak Univ.,

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1947-52; Karnatak P.C.C.; Bombay Univ. Re-organisation Cttee., 1949; Karnatak Univ. Cttee., 1948; elected to the Lok Sabha from Belgaum North Constituency in the general elections, 1952 and again in 1957; Deputy Minister for Home Affairs, 1952-56; Pres. Akhil Bharatiya Sanskrit Sahitya Sammelan. *Publications: Himalayan Pilgrimage* (Publications Division, Govt. of India). *Address:* Ramana Niwas, Kadolkar Street, Belgaum.

DATTA, Sisir Kumar, B.A. (Hons.) (Calcutta), I.C.S., Chief Commissioner, Pondicherry, since April 1961. *b.* Nov. 27, 1911; *Educ.:* Presidency Coll. Calcutta; London School of Economics and Trinity Coll., Cambridge. Recruited to the I.C.S. in London, 1935; appointed Asstt. Commr., Assam, Feb. 1937; served in various capacities as S.D.O., Deputy Commr., Director of Industries, Provincial Textile Commr. and Secy. to Govt., Assam, till 1949; Deputy Secy. to Govt. of India, Ministries of Food, Relief & Rehabilitation and Commerce & Industries, till 1951; Additional Chief Secretary to the Govt. of Assam till 18th May 1952; Chief Secretary to the Govt. of Assam, 1952-61; attended course at the Administrative Staff Coll., Henley-on-Thames, U.K., 1956. *Recreations:* Tennis, Golf, Bridge, Music, Amateur Dramaticals. *Clubs:* Delhi Gymkhana; Shillong Club. *Address:* Pondicherry.

DAVE, Mr. Justice Durga Shanker, B.A., LL.B, Judge, High Court of Rajasthan, since July 12, 1952. *b.* Dec. 18, 1906; *Educ.:* Darbar High Schools at Bundi & Jhalawar; B.A. from Banaras Hindu Univ.; LL.B. from Agra Univ. Appointed City Magistrate, Bundi, 1930; Distt. Magistrate and Civil Judge, 1931-37; Distt. & Sessions Judge, Bundi, 1937-47; High Court Judge, Bundi, 1948; High Court Judge in former Rajasthan, 1948—Jan. 25, 1951; Judge, Industrial Tribunal, 1951-52. *Recreations:* Sports, Tennis & Music. *Clubs:* Sardar Club, Jodhpur; Rotary Club, Jodhpur (Pres.). *Address:* 42, Railway Road, Jodhpur.

DAVE, Ratanlal M., Business man. *b.* Dec. 24, 1916, at Sojitra in Gujarat; *Educ.:* Baroda Univ. Sole Proprietor: Central Cycle & Motor Co., Dealers in cycles and cycle parts; Rajalaxmi Corporation, Dealers in Iron & Steel, Cement, Hardware and Mill stores; Vinay Cotton Co., Dealers in Indian & foreign Raw cotton; widely travelled in India, the Continent and the U.K., Member and Past Pres.: Hindustan Chamber of Commerce, Madras; member: Southern India Chamber of Commerce, Madras; Andhra Chamber of Commerce, Madras; Trustee, Madras Port Trust; Vice-Pres.: Amateur Theatre Federation; Gujarati Mandal, Madras; Trustee, Sri Swaminarayan Temple Trust; *Clubs:* Rotary Club, Madras; Cosmopolitan Club, Madras. *Hobbies:* Social Service. *Address: Office:* 170, Broadway, Madras 1; *Residence:* 11, Samudra Mudali Street, Madras 3. *Grams:* "Vinayak."

DAVE, Shantilal Somnath, Post Diploma in Painting, Artist. *b.* Sept. 25, 1931; *Educ.:* Premier High School, Ahmedabad; Fine Arts Coll., Baroda. Awarded Lalitkala Akadami Prize, 1956, '57 and '58; Governor's Prize—Bombay Art Society, 1956, '58; 3rd major prize, S.-E. Asian Art Exhibition at Manila, 1957 for paintings; Recipient of a cultural Scholarship of Govt. of India for 1957-59 to study under the guidance of Prof. N. S. Bendre, Faculty of Fine Arts, M. S. Univ.; Calcutta Academy of Fine Arts, Governor's Gold Medal, 1959; Bombay State Art Exhibition, Tamra Patra and cash prize of Rs. 1,000, 1959; Murals, for Air-India International—Frankfurt, New York, Los Angeles, New Delhi and Bombay Taj Mahal, 1960. *Recreations:* Music, Travelling. *Address:* 'Vasant', Camp Road, Baroda 2.

DAYAL, Mr. Justice Bishambhar, B.A., LL.B., Judge, High Court of Judicature at Allahabad, since May 6, 1957. *b.* Sept. 14, 1910; *Educ.:* C. A. V. Int. Coll., Allahabad; St. John's Coll., Agra; Agra Coll., Agra; passed school final, 1926; Intermediate, 1928; B.A., 1930 and LL.B., 1932. Practised at Nainital and Allahabad, 1933-57; joined the High Court Bar, 1946. *Address:* 37, Thornhill Road, Allahabad.

DAYAL, H. E. Mr. Harishwar, I.C.S., Ambassador to Nepal, since Jan. 1960. *b.* July 14, 1915. *Educ.:* Govt. Intermediate Coll., Allahabad; Allahabad Univ. Joined the I.C.S., 1937; served in various capacities in the districts in Bihar and Orissa and as Under Secy. to the Govt. of Orissa, Home and Finance Deptt., 1937-42; Under Secy. to the Resident for Western India States, April 1942; Political Agent, Eastern Kathiawar, Sept. 1942; Under Secy. to the Resident, Rajkot Civil Station, Jan. 1943. Under Secy., External Affairs Deptt., 1944-46; Deputy Secy., 1946-48; Political Officer in Gangtok (Sikkim), 1948-52; Joint Secy., Ministry of External Affairs, 1952-56; Minister in the Embassy of India, Washington, 1956-59; was Alternate Delegate in the Indian Delegation to the XIV Session of the General Assembly of the U.N. *Address:* C/o External Affairs Ministry, New Delhi.

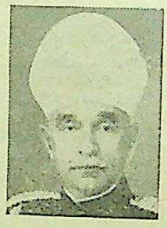
DAYAL, H.E. Rajeshwar, M.A., I.C.S., Indian High Commissioner in Pakistan; since Nov. 1958. *b.* Aug. 12, 1909, at Naini Tal, U.P.; *Educ.:* Naini Tal; Allahabad and Oxford Univs. Entered I.C.S. by open competition 1933; Home Secy., U.P., 1946-48; Counsellor, Minister, Embassy of India, Moscow, 1948; Charge d'Affaires, Aug. 1948-Sept. 1949; Special Commissioner to Govt. of India to organise relief work in Assam, 1950; Alternate Representative of India to Security Council with rank of Minister, 1950; handled several issues, including Suez Canal Question, Kashmir case, Question of Indians in South Africa, the Question of Racial Discrimination in South Africa, etc. in the U.N. General Assembly, etc.; was Chairman, Cttee. of 12 on Disarmament; Indian Delegate to 5th, 6th, 7th and 8th Sessions of the U.N. General Assembly; Permanent Representative of India to the U.N., Jan. 1952-Sept. 1954; has negotiated on several occasions with Dr. Graham on the Kashmir Question; was founder member, Asian-African group of countries; Ambassador in Yugoslavia, 1954–58; Envoy Extr. & Min. Plenipot. to Rumania, Bulgaria, 1955-58; Indian Ambassador to Greece, Jan. to June 1958; Member of the U.N. Observation Group in Lebanon, 1958. Representative of the U.N. Secretary-General in the Congo 1960-61. *Address:* C/o External Affairs Ministry, Govt. of India, New Delhi.

DE, Biren, Artist. *b.* Oct. 8, 1926; *Educ.:* Studied up to Intermediate in Science; later at Calcutta Govt. Coll. of Arts and Crafts, 1944-49. Practised as free-lance artist; executed many commissioned portraits of distinguished people and Mural decoration at convocation hall, Delhi Univ.; held several one-man shows; is now connected with art school, Delhi Polytechnic; participated in several exhibitions abroad, e.g. Salon De Mai, U.S.A., Japan, West Germany and S. America, etc. *Recreations:* Angling, Music, Drama, Travelling. *Address:* C/o Art Deptt., Delhi Polytechnic, Delhi 6; *Residence:* 1, Ramkishore Road, Civil Lines, Delhi.

DE, Sushil Kumar, M.A., Premchand Roychand Scholar (Calcutta Univ.), D. Litt. (London Univ.), Hon. F.R.A.S. (England) (1954), Sarojini Gold Medalist for researches in Bengali (Calcutta Univ.), Professor Emeritus, Jadavpur University; Member, Sanskrit Commission, Govt. of India. *b.* 1890; *Educ.:* Presidency Coll., Calcutta; School of Oriental Studies, London; under Prof. H. Jacobi at Bonn, Germany. Hon. Pres., Vangiya Sahitya Parishad, 1950; Prof. of Sanskrit, Research Deptt., Sanskrit Coll., Calcutta, 1951-56. *Publications: Bengali Literature in the 19th century* (1919); *History of Sanskrit Poetics* (2 vols., 1923, 1925); *Early History of the Vaisnava Faith and Movement in Bengal* (1942); *History of Sanskrit Kavya Literature* (1947); Joint Editor, BORI edition of the Mahabharata, Poona (Udyoga (1940)), (Drona (1958)); *Bengali Proverbs* (1953) etc.; several articles and monographs in various Oriental Journals, European and Indian, etc. *Address:* 19-A, Chaudhuri Lane, Calcutta 4.

DEB, Naresh Chandra, M.Sc., Director, Hindustan Steel Limited. *b.* Feb. 1, 1904, at Calcutta. Accounts Officer, East Indian Rly., 1929–42; Dy. Chief Accounts Officer, 1942; Controller of Coal Accounts, Calcutta, 1944–46; Joint Director, Finance, Rly. Board, 1946–48; was also member, Departmental Cttee. for rationalisation of Railway Freight rates; Financial Adviser and Chief Accounts Officer, O. T. Rly., 1948–49; Director of Finance (Budget), Railway Board, 1949–53; Director of Finance (Expenditure), 1953–56; Addl. Member (Finance), Rly. Board, 1956–58; Officiated as Financial Commissioner for Railways, June–July, 1958; toured Europe as Member, Rly. Steel Purchase Mission, 1957; has been treasurer, All India Fine Arts and Crafts Society. *Recreations:* Photography. *Address:* Director, Hindustan Steel Ltd, P.O.: Hinoo, Ranchi.

DEEN YAR JUNG BAHADUR, Nawab (Aliuddin Ahmed), Chairman, Managing Committee, H.E.H. the Niz m's Private Estate. *b.* Sept. 26, 1893; *Educ.:* Nizam Coll., Hyderabad; underwent revenue training in the Districts of Madras Presidency. Entered service as Deputy Collector; served as Collector, Civil Judge, City Magistrate, Director, Ecclesiastical Deptt., Secy., Home Deptt., Commissioner of Police and Director-General of Police; first Indian in Hyderabad who was appointed as Director-General of City, District and Railway Police; after the Police Action, was taken in General Chaudhuri's Cabinet and was in-charge of Police and Revenue portfolios; Pres., All-India Dargah Cttee., Ajmer, 1941–44; worked on different Cttees. as member; recipient of a title and three medals including the Asafia Gold Medal in recognition of his meritorious services; Rt. Wor. Past Master of Lodge Hyderabad No. 787 S.C. *Address:* Aziz Bagh, Hyderabad (2).



DEHEJIA, Venilal Tribhovandas, B.Sc., I.C.S., J.P., Secretary, Govt. of India, Ministry of Finance (Revenue), since Nov. 1960. *b.* July 23, 1908; *Educ.:* Wilson Coll., Bombay; Royal Coll. of Science, London; Pragji Thackersey Mulji prize for standing first in the University in B.Sc.; Dakshina Fellow, Wilson Coll. Joined the Indian Civil Service, 1931; was Collector of Ahmednagar, Jacobabad, Kaira, Dharwar and Poona; reorganised Excise Administration in Sind; served in the Central Secretariat and in Sind and Bombay Secretariats; was Chief Secretary, Sind and Saurashtra; Secretary in Charge of Organisation and Methods and State Reorganisation; member, Sales Tax Enquiry Cttee.; Chairman: New India Co-operative Housing Society; Special Commissioner, Baroda; Secy.: Home Department, Bombay, 1947-52; Finance Deptt., 1952-56; Special Secy., Political & Services Dept., 1956–59; Chairman, Bombay Port Trust, 1959–60. *Clubs:* Willingdon; W.I.A.A. Club; Cricket Club, Bombay. *Recreations:* Tennis and Chess. *Address:* 4, York Road, New Delhi.

DESAI, Chandulal Chunilal, B.A. (Cantab.), C.I.E. (1945), I.C.S. (Retd.), Ex-High Commissioner for India in Pakistan. *b.* April 27, 1900; *Educ.:* Elphinstone Coll., Bombay; Cambridge Univ. Joined the I.C.S.

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1923; Controller-General of Civil Supplies, 1943-45; member-secy., Indian Tariff Board; its Chairman, 1945-47; Addl. Secy., Ministry of States, 1947-48; Secy., Ministry of Commerce, Feb. 1948-Jan. 1951; Secy., Ministry of Works, Housing and Supply and Ministry of Production, 1951-53; Leader of the Indian Delegation to negotiate various trade treaties with Pakistan, Afghanistan, Switzerland, Hungary, Czechoslovakia, Australia and Ceylon, 1948-51; Leader of the Indian Steel Delegation to England and U.S.A.; High Commissioner in: Ceylon, March 1953-54; Pakistan, 1955-58; member, L.I.C. of India; Dir.: Industrial Finance Corporation of India; Hindustan Motors Ltd.; Chairman: Sirsilk Ltd.; Premier Tyres Ltd. *Publications: A Compilation on Nazul, Address:* C/o Grindlay's Bank Ltd., Bombay.

DESAI, Dajiba Balavantrao, B.A. (Hons.), LL.B., M.P. (Rajya Sabha), General Secretary: Peasants and Workers Party, since 1955 and Sanyukta Maharashtra Samiti; *Educ.:* Maratha Mandal's High School and Gilginchi Artal High School, Belgaum; Lingaraj Coll., Belgaum; Rajaram Coll., Kolhapur; Raja Lakhmagauda Law Coll., Belgaum. conducted adult education night classes in villages; Secy., Action Cttee., Deccan States, 1946-47; joined Peasants and Workers Party, 1948; member: Central Cttee. of P. & W. Party, since inception; Political Cttee. of P. & W. Party; elected General Secy., P. & W. Party in Latur Conference, 1955; detained in prison, April 1956; released, Oct. 1956; member: Secretariat of Samyukta Maharashtra Central Cttee.; Parliamentary Board and Policy Cttee.; Action Cttee. of Maharashtra Ekikaran Samiti, Belgaum; Secretary, Border Action Cttee. *Publications:* Marathi: *Jamin Konachi? Kasel Tyachi Ki Vikat Ghenaryachi. Address:* 3360/6, College Road, Belgaum; 131, South Avenue, New Delhi.

DESAI, Dinkarrai Chhotubhai, B.E., M.I.E. (Ind.), F.P.W. Inst. (Eng.); Formerly Associate Member, Institution of Structural Engineers, London. Chief Govt. Inspector of Indian Railways and Principal Technical Adviser to Govt., Ministry of Transport & Communications, since Dec. 20, 1958. *b.* May 10, 1907; *Educ.:* Gujarat Coll., Ahmedabad; Coll. of Engineering, Poona. Joined East Indian Rly., Calcutta as Asstt. Executive Engineer, May 25, 1929; Exec. Engineer, Track Supply Officer, Land Control Officer, Bridge Engineer, Senior Supdt., Way & Works and Deputy Engineer-in-Chief (Constn.), 1941-48; Govt. Inspector of Railways, Bangalore Circle, Ministry of Communications, 1948-50; Govt. Inspector of Railways (Senior rank), Calcutta Circle, 1950, 1951 and 1953 and Bombay Circle, 1955-56 and 1957-58. *Publications:* Several pamphlets and articles on Vegetarianism, Nature Cure and Philosophy of Compassion, Hi-fidelity, Electronics and Audio equipment. *Address:* A-1, Bemloe, Simla 1.

DESAI, Doulatrao Shripatrao, B.A., LL.B., Minister for Education, Maharashtra State, since May 1, 1960. *b.* March 17, 1910, at Marali near Patan, Dist. North Satara; *Educ.:* Rajaram High School, Rajaram Coll. and Sykes Law College, Kolhapur. Commenced practice at Karad and Patan, 1939; twice elected Pres., Rural Development Board, Taluka Patan, 1940; President, District Local Board, Satara, 1941-52; member: Provincial Commodity Board since its foundation; Provincial Education Board; Provincial Physical Education Board; Soldiers', Sailors', and Airmen's Board, Satara (N); Maharashtra Pradesh Social Education Board; Bombay State Road Transport Corporation, 1955-57; Pres., Central Advisory Cttee. of Regulated Markets in Maharashtra; Gen. Secy., P.C.C., 1952-57; Chief Whip, Congress Leg. Party; elected M.L.A., Bombay from Patan Constituency, 1952 and 1957; Minister, P.W.D., Govt. of Bombay, 1957-60. *Address:* 'Meghdut,' Narayan Dabholkar Road, Bombay 6.

DESAI, Hitendra Kanaiyalal, B.A., LL.B., Minister for Education, Law, Agriculture and Excise, Gujarat State, since May 1, 1960. *b.* Aug. 9, 1915, at Surat; *Educ.:* Surat and Bombay; left studies and joined the C. D. Movement, 1930; took leading part in debates, sports and other students' activities; awarded "Cobden Club Medal" for obtaining highest marks in Econ. Hons. at Bombay Univ.; was Fellow for a year; LL.B., 1939. Started practising law and made a mark in legal profession; courted jail during freedom movement; elected member, Surat Borough Municipality, 1946; Chairman: Law Cttee., 1946-49; Standing Cttee., since 1949; Vice-Pres. and Chairman, Standing Cttee., since 1952; member, Senate, Gujarat Univ. and Rural Advisory Cttee. of All India Radio; associated with several other institutions, takes active interest in the students movement and has worked hard in the social sphere; M.L.A., Bombay from the Mangrol Constituency in the 1957 general elections; Minister for Education, Bombay State, 1957-60. *Publications:* Several popular booklets on political, economic and social topics. *Address:* Sachivalaya, Ahmedabad 15.

DESAI, Mr. Justice Kantilal Thakordas, B.A. (Hons.), LL.B., Chief Justice, High Court, Gujarat, since Jan. 24, 1961. *b.* May 23, 1903; *Educ.:* New High School, Bombay; St. Xavier's High School, Bombay; Elphinstone Coll., Bombay; Wilson Coll., Bombay; Govt. Law Coll., Bombay; passed the Articled Clerks Examination, 1928; passed the Advocate (O.S.) Exam., 1930. Practised as an Advocate on the Original Side of the Bombay High Court, 1930-56; Judge, Bombay High Court, 1957-60; has been Presiding Officer, National Tribunal (Banks Dispute), 1960; Judge, Gujarat High Court, 1960-61. *Club:* Willingdon Sports Club, Bombay. *Address:* 8-B, Carmichael Road, Bombay 26; Ahmedabad.

DESAI, Mr. Justice Kapil Kalyandas, B.A., LL.B., Judge, High Court, Bombay, since Aug. 18, 1958. *b.* Oct. 28, 1910; *Educ.:* Gurukul (Boarding School); B.A. from Elphinstone Coll., Bombay, 1932; LL.B. from Govt. Law Coll., Bombay, 1934; awarded Arnold scholarship, Judge Spencer's prize and several other scholarships. Commenced practising on the Original Side, High Court, Jan. 19, 1938; had lucrative practice. *Recreations:* Squash, Rackets, Golf. *Clubs:* Willingdon Sports Club; Cricket Club of India. *Address:* 56, Ridge Road, Malabar Hill, Bombay.

DESAI, Khandubhai Kasanji, Snatak (Gujarat Vidyapith, Ahmedabad), M.P., Ex-Minister for Labour, Govt. of India. *b.* Oct. 23, 1898; *Educ.:* Bulsar Bai Avabai High School; Wilson Coll., Bombay. Joined the N. C. Movement, 1920; was Gen. Secy., Textile Labour Assoc., Ahmedabad; established a net-work of unions throughout Gujarat and assisted the labour movement in Indore and other centres; elected M.L.A., Bombay, 1937; as member, Textile Labour Enquiry Cttee., assisted in the first legislation of Industrial Disputes in Bombay Assembly; elected to the Constituent Assembly, 1946; since then was an active M.P.; was Vice-Chairman, B.P.C.C.; member, A.I.C.C. and Congress Working Cttee. for several years; was member, Fiscal Commission; was Dir., Industrial Finance Corpn.; member, Employees' State Insurance Corpn.; led the workers' delegation to I.L.O., 1950; was mainly responsible for establishing the I.N.T.U.C., 1947; elected its first Gen. Secy.; was its Pres. successively for three years; attended the Asia Regional Conference of the I.L.O., Tokyo, 1954; visited China. *Address:* Textile Labour Assocn., Gandhi Majoor Sevalaya, Bhadra, Ahmedabad.

DESAI, Manilal Jagdish, B.A., LL.B. (Bombay), C.I.E. (1946), I.C.S., Foreign Secretary, Ministry of External Affairs, since April 10, 1961. *b.* Jan. 4, 1904; *Educ.:* Gujarat Coll., Ahmedabad; Wilson Coll., Bombay; School of Economics, London. Asstt. Collector and Collector in Bombay State, 1928-35; Director of Land Records and Settlement Commissioner, 1936-38 and 1940-42; Deputy Secy., Revenue Dept., Govt. of Bombay, 1938-39; Secy. to Govt. of Bombay, Revenue and Reconstruction Depts., 1942-46; Establishment Officer to the Govt. of India and Principal, Indian Administrative Service Training School, 1947-48; one of the Advisers, Indian Delegation to the U.N. Session in Paris, 1948; Commercial Adviser to the High Commissioner for India in London, 1948-51; En. Extr. and Min. Plen. for India in Sweden, Finland and Denmark, 1951-53; Commonwealth Secy., Ministry of External Affairs, 1953; Acting High Commissioner for India in U.K., April to Aug. 1954; India's Rep. and Chairman, International Commission for Supervision and Control in Viet Nam, 1954-55; Commonwealth Secy., Govt. of India, 1955-61. *Recreations:* Tennis and Riding. *Clubs:* Delhi Gymkhana Ltd. and Cricket Club of India Ltd. *Address:* New Delhi.

DESAI, Mr. Justice Manulal Chunilal, B.A. (Tripos) (Cantab.), Chief Justice, High Court of Judicature, Allahabad, since Jan. 17, 1961. *b.* Feb. 25, 1904; *Educ.:* Govt. High School, Nadiad; Elphinstone Coll., Bombay; Baroda Coll., Baroda; Cambridge Univ.; Asstt. and Jt. Magistrate, 1926-33; Collector and Dt. Magistrate, 1933-42; Dt. and Sessions Judge, 1943-48; Judge, Allahabad High Court, 1948-61. *Recreations:* Golf, Bridge, Chess, Badminton. *Address:* 31, Thornhill Road, Allahabad.

DESAI, Morarji Ranchhodji, B.A., Minister for Finance, Govt. of India, since March 22, 1958. *b.* Feb. 29, 1896; *Educ.:* Bulsar, Surat Dist., Bombay; Wilson College, Bombay. Entered Provincial Civil Service of the Govt. of Bombay, 1918; resigned to join the Civil Disobedience Movement, launched by Mahatma Gandhi, 1930; was convicted for taking part in C. D. Movement during 1930-34; Secy., Gujarat Pradesh Congress Cttee., 1931-37 and again from 1939-46; Minister for Revenue, Co-operation, Agriculture and Forests, Bombay, 1937-39; convicted, 1940-41 and detained in prison, 1942-45; Minister for Home and Revenue, Bombay, 1946-52; Chief Minister of Bombay, 1952-56; Minister for Commerce and Industry, Govt. of India, 1956-58; Treasurer, All India Congress Cttee., 1950-58; Hon. Fellow, Coll. of Physicians and Surgeons, Bombay, 1956; Hon. Doctor of Laws, Karnatak Univ., 1957. Visited London, Washington, New York, Montreal, Aug. 28-Sept. 28, 1958, in connection with foreign loans for India; visited France, Switzerland, U.K., U.S.A. and Japan for foreign aid to India and also to attend the Commonwealth Finance Ministers' Conference in London, Sept. 11-Oct. 22, 1959; visited Yugoslavia, Poland, Czechoslovakia, West Germany, the Soviet Union and Egypt in connection with financial aid to India, June-July 1960; attended the Commonwealth Finance Ministers' Conference in Lond., Sept. 20-21, 1960; attended the annual meetings of the World Bank and the International Monetary Fund to discuss the prospects of American assistance for India's Third Plan, Sept.-Oct. 1960. *Address:* 1, Willingdon Crescent, New Delhi.

DESHMUKH, Chintaman Dwarkanath, B.A. (Cantab.), Chairman, Administrative Staff College, Hyderabad, since Jan. 1960; Pres., India International Centre since March 1959; Ex-Chairman, National Book Trust, 1957-Sept. 1960. *b.* Jan. 14, 1896; *Educ.:* Elphinstone Coll., Bombay and Jesus Coll., Cambridge, Natural Science Tripos, Part I, B.A., Cambridge in 1917. Entered the I.C.S.; Nov. 1919; in the C.P. & Berar 1920-30

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Jt. Secy., 2nd R.T.C., 1931; Revenue Secy., C.P. Govt., 1932-33; Financial Secy., C.P. and Berar, 1933-39; Jt. Secy., Govt. of India, Dept. of Education, Health and Lands, May-July 1939; Officer on Special Duty, Finance Dept., Govt of India and Custodian of Enemy Property, 1939; Secy., Central Board, Reserve Bank of India, 1939-41; Dy. Governor, Dec. 1941-Aug. 1943; Governor, 1943-49; India's delegate to the World Monetary Conference, Bretton Woods, 1944; Governor for India on International Monetary Fund and International Bank for Reconstruction and Development, from 1946; Financial Representative of Govt. of India in Europe and America, 1949-50; Pres., Indian Statistical Institute, 1946; member, Planning Commsn., March 1950; Chairman, International Monetary Fund and International Bank for Reconstruction and Development, Sept. 1950; M.P. and Minister of Finance, Govt. of India, June 1950-July 1956; Chairman, Univ. Grants Commission, 1956-60. *Address*: 32, Aurangzeb Road, New Delhi 11; Hyderabad.

DESHMUKH, Smt. Durgabai, M.A., B.L., Ex-Chairman: Central Social Welfare Board, since 1953; National Council for Women's Education, Ministry of Education, Govt. of India. *b.* July 15, 1910; *Educ.*: Banaras, Andhra and Madras Univs. Practised as lawyer, 1942-52; Member, Planning Commission, 1952-53; was Chairman, National Cttee. on Girls' and Women's Education, appointed by the Govt. of India; Chairman, Editorial Cttee. for *Social Welfare in India* and *Social Legislation*. *Recreations*: Gardening. *Address*: 32, Aurangzeb Road, New Delhi.

DESHMUKH, Narayan Uttamrao, B.A., LL.B., Deputy Minister, Irrigation and Power, Maharashtra State, since May 1, 1960. *b.* Sept. 20, 1909; *Educ.*: Primary education at Yeoda; Anglo Vernacular School of Education at Daryapur; matriculation from Hindi High School, Amravati; B.A. from King Edward Coll., Amravati; LL.B. from Law Coll., Nagpur. Legal practice at Daryapur, Amravati Dist., 1937-60; Pres., Municipal Cttee., Daryapur, 1944-60; member: Janpad Sabha, 1953-60; Regional Transport Authority, Nagpur, 1957-60; Exec. Cttee., Bombay Leg. Congress Party; elected M.L.A., Bombay from Daryapur Constituency, 1957; has done social and constructive work in his Constituency; had represented Daryapur Municipal Cttee. in All India Local Bodies Conferences held twice in Delhi, 1947 and 1951. *Address*: Sachivalaya, Bombay.

DESHMUKH, Dr. Panjabrao S., M.A. (Hons.) (Edin.), D. Phil. (Oxon.), Barrister-at-Law, Minister of Agriculture, Government of India, since 1958. *b.* Dec. 1898; *Educ.*: Fergusson College, Poona; M.A. (Hons.), Edinburgh; Dunlop Research Scholar, 1923-26; called to the Bar, 1925. Life President, Shivaji Education Society, since 1937; member, M.P. Leg. Council, 1930-33; Minister (Education, P.W.D. and Agriculture), 1930-33; member, Indian Constituent Assembly; A.I.C.C., since 1952; elected Pres., All-India Federation of Backward Classes, since 1950; Chairman, State Trading Co., and Cotton Marketing Committee; Chairman: International Rice Commission, Tokyo (1958); Afro-Asian Rural Reconstruction Conference, New Delhi (1960); Founder Pres., Farmers' Forum, India, since 1954; Minister for Agriculture, Government of India, 1952-57; Minister of Co-operation, Govt. of India, 1957-58; Pres.: World Agriculture Fair, 1959-60; National Agricultural Fair (1960); First Chairman, National Agricultural Co-operative Marketing Federation. *Publications*: *Origin and Development of Religion in Vedic Literature*. *Address*: New Delhi.

DESHPANDE, Atmaram Raoji, B.A. (Hons.), LL.B., Marathi Poet; Director, National Fundamental Education Centre, Ministry of Education since 1956. *b.* Sept. 11, 1901; *Educ.*: Hindu High School, Amravati; Fergusson Coll., Poona; took B.A. (Hons.), 1923 and LL.B., 1925. Lawyer (1925-28); Civil Judge & District & Sessions Judge (1929-47); Deputy Director of Public Instruction in Charge of Social Education, Nagpur (1948-52); Special Officer, Social Education Community Projects Administration (1952-56); UNESCO Fellowship (1956). *Publications*: Two collections of poems besides two longer poems; several articles on Literary Criticism & Social Education. *Recreations*: Art, Archaeology & Literature. *Address*: 26, Meenabag, King Edward Road, New Delhi 11; 88, West Park, Dhantoli, Nagpur 1.

DESHPANDE, Vishnu Ghanashyam, M.A., Morris Memorial Fellow of Nagpur Univ. (1934-37), Sir Arthur Blenner Hasett Medallist (Nagpur Univ.), Pres., Hindu Mahasabha, since 1960. *b.* Nov. 17, 1912; *Educ.*: Sakharkherda, Mehkar, Khamgaon and Nagpur; took M.A. degree, 1934; joined the Hindu Mahasabha, 1939; elected Gen. Secy.: M.P. Hindu Mahasabha, 1939; All-India Hindu Mahasabha, 1940; toured all over India for organising Hindusabhas in different parts of the country; imprisoned several times in connection with his activities in the Hindu Mahasabha, 1939, '41, '42, '47, etc.; imprisoned 5 times during Jammu Movement, 1953; was elected to the Lok Sabha from two constituencies, 1952; was the first M.P. to offer satyagraha in Goa; was imprisoned; participated in Samyukta Maharashtra movement; led the first batch of Satyagrahis who offered satyagraha near Flora Fountain, Bombay, was the Chief Whip of the National Democratic Party in Lok Sabha; was Editor, *Adesh* and *Hindu Outlook*. *Address*: C/o Hindu Mahasabha Bhavan, Reading Road, New Delhi.

DEV, Burman Sachin, B.A. (Calcutta), Recipient of Sangeet Natak Akadami Award for the year 1958; Musician and music composer. *b.* 1906; *Educ.*: Victoria Coll., Comilla; Jagannath Coll., Dacca; Calcutta Univ. Introduced as professional singer, 1931; composed music for 'Rajgi' Bengali, 1934 and many other Bengali films till 1944; 'Sikari' is the first Hindi film for which he composed songs. *Publications*: *Surer Likhan* (Bengali) with notations of his songs, 1938. *Recreations*: Sports. *Clubs*: W.I.F.A. (Bombay); East Bengal (Calcutta). *Address*: 'The Jet', Vithalbhai Patel Road, Khar, Bombay 52.

DEVARAJALU, G. K., a leading industrialist. *b.* Dec. 7, 1912. Managing Agent & Director: The Lakshmi Mills Co. Ltd., The Coimbatore Cotton Mills Ltd.; Managing Director, South India Viscose Ltd.; Director: The Madras Aluminium Co., Ltd., The Pankaja Mills Ltd., Lakshmi Card Clothing Mfg. Co., Pvt. Ltd., The Rajalakshmi Mills Ltd., The Premier Mills (CBE) Ltd., Sivananda Mills Ltd., Ravindra Mills Ltd., Kothari Textiles Ltd., The Krishna Mills Private Ltd., The Coimbatore Lakshmi Cotton Press Private Ltd., Vijayeswari Textiles Ltd., Sri Lakshminarayana Textile Ltd., all in Coimbatore District, Sri Akkamamba Textiles Ltd., Tanuku, Andhra Pradesh; Managing Trustee, G. Kuppuswamy Naidu Memorial Trust for Education & Medical Relief; Chairman: South India Textile Research Assoc., Coimbatore; widely travelled in Europe, America and Far East countries. *Address*: 'Shell House', Avanashi Road, Coimbatore.

DEWAN, Hakumat Rai, B.Sc., A.I.S.M., Director, Indian Bureau of Mines, since May 22, 1956. *b.* June 7, 1905 at Marar, Punjab; *Educ.*: B.Sc.; Punjab Univ., 1927, A.I.S.M., Indian School of Mines & Applied Geology, Dhanbad, 1930. Dy. Director, Indian Bureau of Mines, 1949-53; Controller of Mines, 1953-56; Director: National Mineral Development Corporation, State Trading Corporation, Orissa Mining Corporation, etc. is on the Board of Studies of several Univs. Chairman, Northern and Western Regional Mineral Advisory Councils; Mining Expert, Govt. of India delegation to Russia, in connection with the exploration for minerals and oil in India, 1955; visited various mining centres of coal and non-coal in U.S.S.R., Sweden, France, U.K., Rumania and Switzerland and Japan; represented India in the Mineral Resources Cttee. of ECAFE, Japan, April 1960. *Publications*: Several articles in the leading Scientific and Technical Journals of India and U.K.; *Base Metals in India* (1959). *Address*: Indian Bureau of Mines Nagpur.

DEY, S. K., M.Sc. (Engg.) (Michigan), Minister for Community Development and Co-operation, Govt. of India, since Jan. 1, 1959. *b.* Sept. 13, 1906, at Medinimohal Village, Sylhet Dist.; *Educ.*: Zilla School, Rangpur; technical course at Rangpur; joined Bengal Engineering Coll.; took diploma; B.Sc. in Electrical Engineering from Purdue Univ. on Scholarship from Sylhet Assoc. Private Trust; M.Sc. from Michigan Univ. Joined the General Electric X-Ray Corporation as an apprentice Engineer and was sent back to India to represent the firm in Lahore; rose to be the General Manager; relinquished, June 1947; Engineer, engaged in the work of rehabilitation of refugees, Nov. 1947-March 1952; member: Exec. United Council for Relief and Welfare, June 6, 1949-July 26, 1953; Central Board of Bharat Sewak Samaj, Aug. 1952-June 1956; Minister for Community Development, 1956-58. *Special interests*: Psychology in human relations and applied sociology. *Recreations*: Witnessing dance and dramatic performances; gardening. *Publications*: *The Quest*; *Fragments Across*; *Missing Link*; *Planning for Life*; *Random Thoughts*, Vols. I, II & III; *A Movement is Born*. *Address*: New Delhi.

DHADDA, Siddha Raj, M.A. (Pol.), LL.B., Editor, *Bhoodan* (English weekly); *Bhoodan Yagna* (Hindi Weekly); Trustee, All India Sarva Seva Sangh; Pres., Rajasthan Samagra Seva Sangh; Vice-Chairman, Rajasthan Sevak Sangh; Pres., Rajasthan Khadi Sangh. *b.* Feb., 1909; *Educ.*: Maharaja's College, Jaipur; Canning College, Lucknow Univ. and the Allahabad Univ. Secy., Indian Chamber of Commerce, Calcutta and various other Assocs. (1934-42); sometime Advocate, Mysore High Court, Bangalore; has been connected with various political, social and cultural organisations; was arrested at Banaras and detained (1943-45), 'Quit India' movement; Founder and Chief Editor, Daily *Lokvani* from Jaipur, 1946-49; General Secretary, Rajputana P.C.C., 1947-48; Joint Secretary, Reception Cttee., 55th Session of the Indian National Congress held at Jaipur (Gandhinagar), Dec. 1948; Minister for Industries and Commerce, Govt. of Rajasthan, 1949-51; resigned from Congress, Aug. 1951. *Publications*: Contributes to English, Hindi periodicals. *Address*: All India Sarva Seva Sangh, Rajghat, Varanasi.

DHAMIJA, H. E. Mr. Jagan Nath, M.A. (Cantab.), Barrister-at-Law, Ambassador of India to Afghanistan, since July 25, 1960. *b.* Aug. 17, 1913; *Educ.*: Emmanuel Coll., Cambridge; Lincoln's Inn, London; Cambridge Tennis Blue (1936-39); played at Wimbledon Centre Court, 1939. Joined R.N.V.R., June 1940; Indian Political Service, June 1944; served as Asstt. Commissioner, Dera Ismail Khan, Secy. to the Agent to the Governor General, Baluchistan, Asstt. Political Agent and Dy. Commissioner of Gilgit Agency; Under-Secy., Foreign and Political Deptt., Govt. of India, 1946-49; Secy. and Adviser, Indian Delegation to U.N. General Assembly Session, Sept. 1948; First Secy., High Commissioner of India in Australia, 1949-52; was Acting High Commissioner;

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Officer on Special Duty, External Affairs Ministry, 1952; Deputy Secy., Ministry of States (later Ministry of Home Affairs), July 1953-March 1958; Commissioner for India in Mauritius, Oct. 1958-June 1960; won open Golf Championship of Military Gymkhana Club, Mauritius (1960). *Address:* C/o Ministry of External Affairs, Govt. of India, New Delhi.

DHARIWAL, Rikhab Chand, M.A., LL.B., Minister for Industries and Social Welfare, Govt. of Rajasthan. *b.* March 9, 1911; *Educ.:* Lucknow Univ. Joined the Bar and was one of the leading lawyers; took leading part in the 1942 movement; was also on the Cttee. for Political Reforms set up by Kota State Govt.; joined the Prajamandal; joined the Congress, 1947; was associated with many political, social and educational activities; was a part time lecturer in the Law Coll. for seven years; resigned; elected from Pipaldar Constituency to the Rajasthan Assembly, 1957; Dy. Minister for Finance and Industries, 1957; later became a Minister. *Recreations:* Tennis. *Address:* Minister for Industries, Civil Supplies and Social Welfare, 7, Hospital Road, Jaipur.

DHEBAR, Uchhrangrai Navalshanker, Chairman, Scheduled Areas & Scheduled Tribes Commission since April 1960; Ex-President, Indian National Congress: High Court Pleader. *b.* Sept. 21, 1905; *Educ.:* Rajkot and Bombay. Practised as a lawyer in the Court of Western India States Agency, Rajkot, 1929; abandoned practice for active Congress work, 1936; Secy., Kathiawar Political Conference, 1937-48; Secy., Gujarat Provincial Congress Cttee., 1947; imprisoned thrice for taking part in Rajkot Satyagraha, for nearly 5 months, 1938-39; for Individual Satyagraha for 6 months, 1941; in the Quit India movement, 1942-45; Chief Minister, Saurashtra, 1948-54; elected Pres., Indian National Congress for the 3rd term during the 63rd Session of Congress, Nov. 1957-Feb. 1959; Member, A.I.C.C. Working Cttee. *Address:* 6, Dupleix Lane, New Delhi.

DHILLON, Gurdial Singh, B.A., LL.B. Speaker, Punjab Legislative Assembly. *b.* Aug. 6, 1915; *Educ.:* Govt. Coll., Lahore, Univ. Law Coll., Lahore. Started legal practice, 1937; joined Congress, 1937; Pres.: Dist. Congress Cttee., Amritsar, till 1952; member, Shiromani Gurdwara Parbhandak Cttee., 1946-55; Chief Editor: Daily Urdu, *Sher-i-Bharat*; 1948-51; Daily *Vartman* (Punjabi), 1947-50; elected Dy. Speaker, 1952; Speaker, 1954; re-elected Speaker, Nov. 1956 and after the General Elections, 1957; Convener, Punjab Pradesh Bharat Sewak Samaj, since 1955. Member, Punjab Univ. Senate since 1960; elected Syndic, 1960. *Publications:* Articles and pamphlets on current economic and political problems. *Recreations:* Social Service, Travelling. *Club:* Rotary Club. *Address:* Speaker's House, Sector 2, Chandigarh.

DHIR, Ram Das, Diploma in Civil Engg. (Roorkee), M.I.E., I.S.E., Member, Committee on Floods and Chief Engineer (Floods), Central Water & Power Commission, Govt. of India. *b.* Dec. 29, 1906; *Educ.:* Thomason Engineering Coll., Roorkee, 1929. Served the Government in Sind Province for 16 years and then in the Centre for 13 years; member: American Geo-Physical Union, 1952; UNESCO Panel of Consultants on Arid Zone, Hydrology and Hydro-Geology, 1951. *Publications:* Books: *Hydrological study of Tapi Valley, Part I (Rainfall Study)* (1948); *Hydrological Study of Tapi Valley, Part II (Runoff Study)* (1948); *The Feasibility of Snow Survey in the Himalayas* (1951); *Hydrological Data, its necessity and methods of Computation* (1954); Papers: *The Development of Arid Zones in India* (1951); *The Hydrology of the Rajasthan Desert* (1952); *The Betterment, The basic approach to Flood Control* (1959); *Anti-water logging measures in India* (1960); *Whither Flood Control* (1960). *Address:* 9, Raisina Road, New Delhi.

DIGVIJAI NATH, Mahant, President, All India Hindu Mahasabha. *b.* 1894 in Shishodia family in Udaipur; *Educ.:* St. Andrew's Coll., Gorakhpur; while a student, joined N.C. movement, 1919. Joined Congress, 1921; resigned, 1928; installed Mahanth of Shri Gorakhnath Temple, Gorakhpur, 1935; joined Hindu Mahasabha, 1937; arrested and detained in 'Quit India' movement on charge of harbouring Congress rebels, 1942-43; Pres., U.P. Hindu Mahasabha, 1945-48; Secy., All-India Hindu Mahasabha, 1950-51; Vice-Pres., 1951-60; Pres., Shimoga Session, All-India Hindu Mahasabha, May 1960; arrested in Direct Action movement of the U.P. Hindu Mahasabha against U.P. Govt., 1947; established Maharana Pratap Middle School in Gorakhpur, 1932; Founder-member and Vice-Pres., Univ. Foundation Society; is member of its Exec. Cttee.; founded Maharana Pratap Shiksha Parishad, 1947; Pres., Barapanth Avdhut Yogi Mahasabha. *Address:* Gorakhnath Temple, Gorakhpur, U.P.

DINKAR, Ramdhari Sinha, B.A. (Patna), Padma Bhushan (1959), M.P. (Rajya Sabha), Hindi Poet. *b.* Sept. 29 1908; *Educ.:* Patna Coll.; took B.A., 1932. Professor of Hindi, 1950-52; resigned Government service and elected to the Rajya Sabha on Congress ticket, 1952; awarded several prizes for work in poetry by the Govt. of India, Govt. of Uttar Pradesh and non-official bodies; awarded Sahitya Akademi Prize (1960) for "*Sanskriti ke char Adhyay*"; represented Indian poetry on behalf of the Government of India in the International Conference of Poets in Poland, 1955; visited China at the invitation of the Writers' Union of China, Nov. 1957. *Publications:* 15 volumes of Hindi poems and 6 volumes of prose besides some books for children. Poetry: *Kurukshetra; Rashmi Rathi; Renuka; Hunkar; Raswanti; Neel Kusum.* Prose: *Sanskriti Ke Char Adhyay; Kavya Ki Bhoomika. Address:* Udayachal, Aryakumar Road, Patna 4.

DIVAN, Gautam Ramanlal, leading Table Tennis Player. *b.* July 22, 1940; *Educ.:* St. Xavier's High School, Bombay. Is now with Messrs. Chandabhoy Jhasoobhoy, Chartered Accountants, Bombay. Bombay Junior No. 1 in Table-Tennis, 1955; National Men's Singles Champion, 1956; Bombay No. 1 and National Champion in Table-Tennis, 1957, 1958, 1959. *Recreations:* Table-Tennis. *Clubs:* Students' Y.M.C.A.; Sydenham Coll. Gymkhana. *Address:* 22, Alexandra Road, Bombay 7.

DIVEKAR, Chintaman Sadashiv, B.A. (Hons.) (Econ.), Executive Director, Reserve Bank of India, since July 1959. *b.* Jan. 3, 1908; *Educ.:* Kalyan, Bombay and Poona. Joined Imperial Bank of India at Ahmedabad as Probationary Asstt., 1930; worked at Jodhpur and Broach branches till 1932; Bombay Local Head Office, 1932-37; In charge of Deposits Account and Public Accounts Deptt. and Public Debt Office, Reserve Bank, Bombay, 1937-39; Calcutta, 1939-40; Reserve Bank of India Central Office, Bombay, 1941-43; Manager, Reserve Bank of India, Bombay, 1943; Manager at Allahabad, 1943-45, at Karachi, 1945-46; Manager and Secy., Local Board, Reserve Bank, Delhi, 1946-49; Inspector of Branches 1949-50; Manager and Secy., Local Board, Reserve Bank, Calcutta, 1951-54; Chief Accountant, 1954-59. *Recreations:* Reading, walking, golf and swimming. *Clubs:* Bombay Presidency Golf Club, Bombay. *Address:* Reserve Bank of India, Central Office, Bombay 1.

DIWAKAR, Ranganath Ramachandra, M.A., Chairman: Gandhi Smarak Nidhi, since Sept. 1957; Editorial Cttee., *Karnatak Through the Ages*, constituted by Govt. of Mysore; Ex-Governor of Bihar (1952-57). *b.* Sept. 30, 1894 in Dharwar; *Educ.:* Belgaum, Hubli, Poona and Bombay. Joined Non-Co-operation Movement in 1921; was General Secretary, Karnatak P.C.C. and Editor, 'Karamveer' upto 1930; Pres., K.P.C.C., 1930-34; courted jail several times for active participation in the freedom movement; started National Literature Publication Trust now known as People's Education Trust at Hubli, 1935 and took over 'Samyukta Karnatak', a Kannada daily from Belgaum; member, P.E.N.; author of numerous books (incl. translations) in Kannada, Hindi and English; was M.P.; was member, A.I.C.C.; Minister of State, Information and Broadcasting, Govt. of India, Dec. 1948-April 1952; Sole Trustee, P.E. Trust; Editor, *Samyukta Karnatak* (daily), *Kasturi* (monthly). *Publications:* (Eng.) *Satyagraha, History and Technique; Glimpses of Gandhiji; Satyagraha in Action; Upanishads in Story and Dialogue; Satyagraha Pathway to Peace; Mahayogi: Paramahansa Sri Ramkrishna; Bihar Through the Ages, etc. Address:* 2, Residency Road, Bangalore.

DIXIT, Mr. Justice Purushottama Vinayak, B.A. (Cantab.); B.Sc., Bar-at-Law, Chief Justice, Madhya Pradesh High Court, since Sept. 22, 1959. *b.* March 19, 1907 at Nagpur; *Educ.:* Patwardhan High School, Nagpur; B.Sc. Nagpur Univ. in first division; Christ's College, Cambridge; called to the Bar, 1931. Practised at Nagpur bar for 10 years; Codification Officer, Gwalior State, 1940-41; Judge, Gwalior High Court, 1941-42; Law Secy. and Foreign and Political Secy., Gwalior, 1942-45; Gwalior High Court Judge, 1945-46; Adviser to the Foreign and Political Ministers, 1946-47; Chief Justice, Gwalior High Court, 1946-48; Judge, M.B. High Court, 1948-56; Pres., Ratlam Incidents Enquiry Commission, 1949; presided over Gwalior Firing Enquiry, 1950; acted as Chief Justice; Judge, M.P. High Court, 1956-59. *Recreations:* Motoring. *Clubs:* Jiwaji Club, Gwalior; Gondwana Club, Nagpur. *Address:* Jabalpur.

DOCTOR, Bhicaji Edulji, F.I.I.A., F.R.I.B.A., M.R.S.H., Chartered Architect. *b.* December 1901; *Educ.:* Bombay, architectural course completed; Bombay Art Society's Medallist; England and Continent for advanced studies, 1929-34; specialized in intricate schemes. Was formerly practising at Bombay and Ahmedabad; now practising as B. E. Doctor at Bombay; visited England, France, Italy, Switzerland and Germany on professional tour in the middle of 1961; Chief Architect, Ashoka Hotel, Chanakyapuri Diplomatic Enclave, New Delhi; a Freemason, Lodge "Beaman," Royal Arch Chapter "Rising Star of W.I.". *Clubs:* Radio Club, Willingdon Sports Club, Ripon Club, R.W.I.T. Club, Lions Club. *Address: Office:* "Dhannur," Sir Phirozshah Mehta Road, Fort, Bombay 1; *Residence:* "Ben Nevis", Warden Road, Bombay 26 and "Mon Choisi," Lonavla, Poona District.

DODD, Benjamin Bentley, B.A., A.C.I.S., Honorary Consul for Norway in Madras. Director, Gordon, Woodroffe & Co. (Madras) Private Ltd., since 1945. *b.* Aug. 17, 1907. *Educ.:* Kingswood School, Bath; Trinity Hall, Cambridge. Joined the staff of Gordon, Woodroffe & Co. (Madras) Private Ltd. as a covenanted Assistant, 1929. *Clubs:* Madras Club; Adyar Club; Madras Boat Club. *Address:* Grafton, II Avenue, Mowbray's Gardens, Madras 28.

DOGRA, Pandit Girdhari Lal, B.A., LL.B., Finance Minister, Jammu-Kashmir since Jan. 1961; Minister for Finance, Law & Civil Supplies, Jammu and Kashmir Govt., 1947-57; Ex-Chairman, Jammu and Kashmir Bank Ltd. *b.* July 1915; *Educ.:* Hindu Sabha Coll., Amritsar; Law Coll., Lahore. Joined Jammu Bar, 1942; Advocate, Jammu and Kashmir High Court and Supreme Court of India; took prominent part in the movements started

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by the National Conference from time to time for democratisation of the State; was Emergency Officer, Kathua Dist. during the Tribal raid from Pakistan into Kashmir in 1947; elected member, Jammu & Kashmir Constituent Assembly, 1951; Pres., Provincial National Conference, Jammu; Chairman, Dogra Art Gallery, Jammu; Chairman of the Drafting Cttee. of the Constituent Assembly of State. *Address:* Finance Minister, Jammu, Kashmir.

DONGERKERY, Sunderrao Ramarao, B.A., LL.B., Vice-Chancellor, Marathwada University, since June 1958. *b.* Feb. 25, 1898; *Educ.:* St. Xavier's High School; Elphinstone College & Govt. Law College, Bombay. Solicitor, Bombay High Court (1923-1930); elected Vice-Pres. and Chairman, Constitution Cttee., International Universities Conference, at Nice, Dec. 4, 1950; Registrar, Bombay Univ., 1931-56; Rector, Bombay University, Jan. 1956-June 1958; appointed Chairman, Maharashtra State Cttee. on Medium of Instruction in the Universities of technical and other institutions of higher learning, 1960. *Publications:* Commentaries on *The Indian Sale of Goods Act* (1930) and *The Indian Partnership Act* (2nd Ed., 1936); *The Ivory Tower* (book of lyrics in English); *Universities and Their Problems* (1948); *Bombay's University and Colleges* (1948); *Universities and National Life; Universities in Britain* (1953); *Thoughts on University Education* (1955); *Some Experiments in General Education* (1955); *History of the University of Bombay* (1957); National Introduction on "The Universities of India" in the Commonwealth Universities Year Book (1959). *Address:* Aurangabad.

DORAISWAMY, R., B.A. (Hons.) (Madras), M.Sc. (Econ.) (Lond.), I.A.S., Chairman, Forward Markets Commission, Govt. of India, since June 1960. *b.* March 11, 1914; *Educ.:* Madras and London. Chief Research Officer to the Economic Adviser to the Govt. of India, Aug.-Dec. 1945; Secy., Reconstruction Policy Cttee. on Shipping, Deptt. of Commerce. Govt. of India, 1945-46; Officer on Special Duty, Ministry of Commerce, 1947-48; Under Secy. Ministry of Commerce, Govt. of India, 1948-49; Secy., Indian Tariff Board, 1949-50; Jt. Chief Controller of Imports & Exports and ex-officio Dy. Secy. to the Govt. of India, Ministry of Commerce & Industry, 1950-51; I.A.S. Training School, Jan.-April 1952; Secy., Devpt. & Planning Deptt. & Devpt. Commissr., Saurashtra, April-Aug. 1942; Addl. Finance Secy., Saurashtra, 1952-53; Finance Secy., Saurashtra, 1953-55; Member, Forward Markets Commission, Govt. of India, 1955-57; Chief Administrative Officer, Air-India International (On foreign service), 1957-60. Chairman, Forward Markets Commission, 1957-58. *Club:* Willingdon Sports Club. *Address:* Kalpana, Plot No. 14, Sewri-Vadala Road, Matunga, Bombay 19.

DOSS, K. S. Gururaja, D.Sc., F.R.I.C. (Lond.), F.Inst. P. (Lond.), F.A.Sc., F.N.I. Director, Central Electrochemical Research Institute, Karaikudi, since 1958. *b.* Aug. 10, 1906; *Educ.:* Univ. of Mysore; B.Sc. (Chemistry Main) I Rank; M.Sc. (Physical Chemistry) I Rank. Lecturer and later Asstt. Prof. of Chemistry, Central Coll., 1928-43; Physical Chemist, Prof. of Sugar Chemistry and Offg. Director, Indian Institute of Sugar Technology, Kanpur, 1943-57; Dy. Director-in-Charge, Central Electrochemical Research Institute, 1957-58; Discoverer of (*a*) Activated Accumulation, (*b*) Theory of Contact Angles, (*c*) Redoxokinetic effect, (*d*) Resistance heating of massecuites. *Publications:* Author of over 125 research publications in scientific journals, relating to theoretical and applied physical chemistry and sugar technology. *Recreations:* Music. *Clubs:* Rotary Club. *Address:* Cecrinagar, Karaikudi 3.

DRAVID, Vyanktesh Vishnu, B.Sc., Minister for Labour, Housing, Rehabilitation and Chambal River Valley Project, Madhya Pradesh. *b.* Aug. 10, 1913; *Educ.:* Victoria Coll., Gwalior. After graduation, conducted research in the Plant Institute, Indore; later took part in the labour movement in Indore and worked in the labour field at Ahmedabad with Shri Gulzarilal Nanda; sent to jail for taking part in the Freedom Movement; on release was appointed Minister for Labour and Local Self-Govt. in Indore State; appointed Minister for Commerce, Industries and Labour, M.B., 1948; elected M.L.A., M.B., in the General Elections; later became Development and Labour Minister; attended the I.L.O. Conference at Geneva thrice, first as a delegate, 2nd as Leader of the Indian Delegation and 3rd as Govt. delegate in 1959. *Recreation:* Reading. *Address:* Bhopal.

DUBEY, Kunji Lal, B.A., LL.B., Speaker, M.P. Vidhan Sabha, since 1957; Vice-Chancellor, Jabalpur University. *b.* March 1897; *Educ.:* Jabalpur and Allahabad. Practised at the Jabalpur Bar; Professor of Law, at Jabalpur, 1935-40; Secy., Tripuri Session of the Indian National Congress; courted jail in individual satyagraha; detenu in 1942 struggle; M.L.A. of Madhya Pradesh, 1946-52; re-elected M.L.A., 1952; Chief Parliamentary Secy., 1946; Chairman, Inter-University Board of India, 1950; Speaker, M.P. Assembly, 1952; Vice-Chancellor, Nagpur Univ., 1947-Jan. 1956. Representative of Inter-University Board of India at the meeting of the Executive Council of the Association of Universities of the British Commonwealth at Kingston, Ontario (Canada), 1954; re-elected Speaker, M.P. Vidhan Sabha, 1957; appointed first Vice-Chancellor, Jabalpur Univ., June 1957. *Address:* Legislative Assembly, Bhopal.

DUDHORIA, Nabakumar Sing. *b.* 1904; *Educ.:* Privately. Hon. Magistrate; Director, Sri Durga Cotton Mill Ltd., Calcutta; member, Legislative Assembly—Central—1930-34; member: British Indian Assocn.; Bengal National Chamber of Commerce; Bengal Landholders' Assocn.; Indian Chamber of Commerce; Kalighat Sports Assocn.; Patron, Bengal Music Association. *Clubs:* Calcutta Club; Royal Calcutta Turf Club; Bengal Flying Club; Life Member, All-India Fine Arts and Crafts Society, Asiatic Society of Bengal, Automobile Association of Eastern India and Mohan Bagan Club, Calcutta; Vice-President and Life Member, Calcutta North Club. *Address:* Azimganj, Murshidabad Dist., West Bengal.

DUTT, Air Vice Marshal Ranjan, Vir Chakra (26 Jan. 1950), Managing Director, Hindustan Aircraft Ltd., since 1960. *b.* Sept. 30, 1921; *Educ.:* Royal Indian Military Coll., Dehra Dun. Joined the I.A.F., 1940; during World War II, took part in the North-West Frontier and Burma operations; commanded No. 1 Squadron, 1946, after independence filled staff appointments at Headquarters Operational Command; awarded Vir Chakra during Kashmir operations; commanded No. 1 Air Force Academy and held staff appointments, A.O.C.-in-C., Training Command, 1960. *Clubs:* Delhi Gymkhana Club; Delhi Golf Club. *Address:* 3, Ali Askar Road, Bangalore 1.

DUTT, Guru, Film Producer-Director and Actor. *b.* July 9, 1925; *Educ.:* Calcutta. Joined Prabhat Film Co., 1944; worked with Vishram Bedekar, Amiya Chakraverty and Gyan Mukherjee; First Film, "Baazi", 1950; "Jaal", 1951-52; "Baaz", 1952-53; "Aar-Paar", 1953-54; "Mr. & Mrs. 1955", 1954-55; "C.I.D.", 1955-56; "Pyaasa", 1956-57; "Kaagaz-Ke-Phool", 1958-59. *Recreations:* Books, Farming, Photography. *Clubs:* National Sports Club of India. *Address:* 48, Pali Hill, Bandra, Bombay 50.

DUTT, H.E. Mr. Subimal, B.Sc. (with First Class Honours in Chemistry), Indian Ambassador to Moscow, since April 1961. *b.* March 13, 1905; *Educ.:* Presidency Coll., Calcutta; University Coll., London. Joined I.C.S. 1928; served as Asstt. Magistrate, Joint Magistrate and Collector, Addl. Dt. and Sessions Judge, and Magistrate-Collector in Bengal till 1938; Under-Secretary and later Deputy Secretary to Govt. of India, Dept. of Education, Health and Lands, 1938-41; Agent to Govt. of India in Malaya, 1941; Dy. Secy. to Govt. of Bengal, Commissioner of Commercial Taxes, Bengal and Secy. to Govt. of Bengal in the Agricultural Dept. till 1947; Secretary to Govt. of India, Commonwealth Relations Ministry from Aug. 1947; Secretary, External Affairs Ministry, Govt. of India, 1950-52; Indian Ambassador to the Federal Republic of Germany (West Germany), 1952-54; Commonwealth Secy., External Affairs Ministry, 1954-55; Foreign Secretary, Ministry of External Affairs, 1955-61. *Recreations:* Gardening and Golf. *Clubs:* Delhi Gymkhana Club. *Address:* C/o External Affairs Ministry, New Delhi.

DWARKA: His Holiness the Jagadguru Shankaracharya Swami Shri Abhinava Sachchidanand Teerthji Maharaj of Sharada Peeth, of. Is an outstanding Hindu spiritual leader in western India. *b.* Sept. 25, 1919, at Mulbagalu, Mysore State; *Educ.:* Studied privately. Took holy orders from His Holiness Jagadguru Swami Shri Krishnanand Teerthaji, the Acharya of the Dwarka Jagadguru Samsthanam, Mulbagalu, 1934; installed at Dwarka on the holy seat of Shri Shankaracharya of western India, June 20, 1945; is a scholar and linguist; knows English and seven other languages and usually keeps moving about the whole of India delivering sermons on Hindu Religion and Philosophy; visited the Himalayan high peaks 'Yamunotri, Gangotri, Kedarnath, Badrinath, Amarnath' etc. and Nepal, Holy Mount Kailas and sacred lake Mansarovar in Tibet, Aug. 1958; takes keen interest in and works hard for the cultural and spiritual uplift of India; Pres.: All-India Dharma Sangh Conference, Dhebua (Bihar), 1946; Patna, 1949; Kanpur, 1951; Allahabad, 1954; Kanpur, 1957; is still Pres.; founded Mahagujarat Sanskrit Sammelan; is its permanent Pres.; Pres., All India Veda Sammelan, Benaras; recognised by the Govt. as the Shankaracharya of Dwarka and a Primate of Hinduism; looked on as a sort of spiritual guide by several Indian leaders and Princes; Founded a society called Shri Sharada Peeth Vidyasabha which conducts Shri Sharada Peeth Arts Coll., Shri Dwarakadish Sanskrit Academy, Indological Research Institute, Jnanmandir Museum and several other educational and cultural institutions at Dwarka, inaugurated by Dr. S. Radhakrishnan, the Vice-President of India; is permanent Pres. *Publications:* Several books in Gujarati, Kannada, Sanskrit and Hindi; "Nav-Bharati" a Gujarati monthly is being published under his patronage from Dwarka; pamphlet on a scheme of University with religious foundation; several coloured films have been prepared about his activities; established 1,331 Shivlings and 1,200 Shaligrams at Dwarka, June 1957; The President, Dr. Rajendra Prasad visited him at Baroda, 1957; spoke at the P.E.N. All India Writers' Conference at Baroda, 1957; the Vice-President Dr. Radhakrishnan and Prime Minister Jawaharlal Nehru visited him at Baroda, Oct. 26, 1957. *Address:* Dwarka (W. Rly.).

DWIVEDY, Surendranath, M.P. (Lok Sabha); Dy. Chairman, P.S.P., since 1958. *b.* Feb. 11, 1913; joined C.D. movement and the Congress 1930; since then whole-time public worker; courted jail in the freedom movement;

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Foundation member, Congress Socialist Party, 1934; a working journalist, 1934-42; Founder and editor for several years of Oriya weekly 'Krishak', elected Secy., Cuttack Dist. Congress Cttee., 1940; member, A.I.C.C. 1940-48; General Secy., Utkal P.C.C., 1946-47; resigned primary membership of the Congress, 1948; elected member, National Exec., Socialist Party, 1947 and of P.S.P. every year; was Provincial Secy. and Chairman, Utkal P.S.P. and S.P. for a number of years; member, Rajya Sabha, 1952-56; elected member, Lok Sabha, 1957; toured England and Europe on invitation from the Govts. of Britain and West Germany and studied agricultural and cooperative movements in Yugoslavia and Israel. *Publications:* Oriya translations of Mr. Nehru's Autobiography and Glimpses of World History; other Oriya publications: *National Movement in India; Asia on the Path of Socialism*, etc. *Address:* Telengalazar, Cuttack 1, Orissa; 21, Canning Lane, New Delhi.

DYER, Most Rev. Vivian Anthony, M.A., Ph.D., D.D., Catholic Archbishop of Calcutta since Aug. 16, 1960. *b.* Bombay, Sept. 25, 1906. Ordained Priest Oct. 4, 1931; Doctorates in Philosophy and Theology, Papal Seminary, Kandy, Ceylon; M.A. Ed.Sc., National University, Ireland. Secy., Archbishop Roberts, S.J., Bombay; Vicar-General, Archdiocese of Bombay from 1948; Rector, Mount Mary Basilica, 1953; Consecrated Coadjutor Archbishop, Aug. 9, 1959; Archbishop of Calcutta on Aug. 16, 1960. *Address:* 32, Park Street, Calcutta 16.

EL FEKY, H. E. Mr. Ahmed Hassan, Ambassador of the United Arab Republic in India. *b.* 1911; *Educ.:* Graduated from the Military Coll., 1930; had his training at the Military Academy and the Staff Coll., Cairo and at the Gunnery Staff Coll., U.K. Served in the Egyptian Army, 1930-54 and reached the rank of Major General; during his military service, held the following posts: Instructor at the Military Academy, Instructor at the Staff Coll., and Military Attache in Rome; joined the Diplomatic Service, 1954; appointed Ambassador of Egypt to the United Kingdom of Lybia and became after the Union, the Ambassador of the United Arab Republic. *Address:* 26, Jor Bagh, New Delhi.

ELWIN, Verrier, M.A., D.Sc. (Oxon.), Padma Bhushan (1961), Dadabhoy Naoroji Memorial Prize (1961). *b.* Aug. 29, 1902; *Educ.:* Merton College, Oxford. Came to India in 1927 in Christa Seva Sangh, but after four years retired into lay life and with Mr. Shamrao Hivale, founded the Tribal Welfare and Research Unit for the service of the aboriginals on a scientific and humanitarian basis; Anthropologist, Govt. of Orissa, 1945; Deputy Director, Deptt. of Anthropology, 1946-49; Adviser for Tribal Affairs, N.E.F.A., Tripura & Manipur, 1954; F.R.A.I., F.N.I., F.A.S.; Chairman, Home Ministry's Cttee. on Tribal Blocks, 1959-60; member, Scheduled Tribes Commission, 1960; Editor, *Man in India*, 1942-48; awarded the Welcome Medal, 1942, the Roy Medal, 1945, B.B.R.A.S. Silver Medal 1947, Rivers Medal, 1948, Annandale Medal, 1951; Campbell Medal 1959. *Publications:* *The Dawn of Indian Freedom* (1930), *Mahatma Gandhi* (1931), *The Truth about India* (1932), *The Baiga* (1939), *The Agaria* (1942), *Maria Murder & Suicide* (1943), *Folk-Tales of Mahakoshal* (1944), *Folk-Songs of the Maikal Hills* (1944), *Folk-Songs of Chhattisgarh* (1946), *The Muria and their Gholul* (1947), *Myths of Middle India* (1949), *Bondo Highlander* (1950), *The Tribal Art of Middle India* (1951), *Tribal Myths of Orissa* (1953), *Motley* (1954), *The Religion of an Indian Tribe* (1955), *A Philosophy for NEFA* (1956), 2nd ed. (1959), *Myths of the N. E. Frontier* (1958), *The Art of the N. E. Frontier* (1959); *India's N. E. Frontier in the XIXth Century* (1959), Nagaland (1960). *Address:* Sridham, Nongthmai, Shillong.

ENGINEER, Air Marshal Aspy Merwan, D.F.C., Distinguished Flying Cross (1942), Chief of the Air Staff, Indian Air Force, since Dec. 1, 1960. *b.* Dec. 15, 1912; *Educ.:* D. J. Sind Coll., Karachi; R.A.F. Coll., Cranwell, England; passed R.A.F. Staff College, Bracknell, England; graduate of Imperial Defence College, London. Won Aga Khan Prize being first Indian to fly between England and India within one month, 1930; awarded Groves Memorial Flying Prize at Cranwell (1933); Deputy Chief of Air Staff, Indian Air Force, till May 1958; promoted Air Marshal, June 1959; Managing Director, Hindustan Aircraft Ltd., May 1958–Nov. 1960. *Recreations:* Fishing; Shooting. *Club:* Delhi Gymkhana Club, Delhi. *Address:* Air Headquarters, New Delhi.

FALSHAW, Mr. Justice Donald, B.A., I.C.S., Judge, Punjab High Court. *b.* January 22, 1905; *Educ.:* Lancaster Royal Grammar School and Sidney Sussex College, Cambridge. Entered I.C.S., 1927; came to India, 1928; District and Sessions Judge in various places from 1933; Lahore, 1939-43; Delhi, 1943-46; appointed Acting Judge, Lahore High Court, Feb. 1946; Additional Judge, Dec. 1946; Addl. Judge, East Punjab High Court, Aug. 1947-June 1949; Puisne Judge. *Recreation:* Golf. *Address:* Chandigarh.

FARIDI, Shah Nasiruddin Mohammad alias, Shah Nasir Faridi, M.A. (English), M.A. (Economics), Writer. *b.* April 23, 1929 at Ghazipur. *Educ.:* Victoria Govt. High School, Ghazipur; Ewing Christian College, Allahabad; Aligarh Muslim Univ., Aligarh. Head of the Economics Department of Shuaib Mohammadia College, Agra. *Publications:* *Tanveer; Watan Ke Geet; Unchi Nichi Lahrain; Han Han Teri Dunia Main; Hindu Poetesses of Urdu; Arth Shastra Ka Naveen Perdashan*, etc. *Address:* Astana Hazrat Asi, Nooruddin Pura, Ghazipura, U.P.

FEUGA, Right Rev. Dr. R., B.A., D.D., Bishop of Mysore. *b.* 24th Sept. 1886; *Educ.* in Paris. Rector, St Mary's Seminary, Bangalore, 1927-31; Vicar, St. Philomena's Church, Mysore, 1931-41; Nominated Bishop of Mysore, 3rd April 1941. *Publications:* Ed., *St. Philomena's Messenger*, 1932-41. *Address:* Bishop's House, Mysore.

FIRAQ, Raghupati Sahai, M.A., Urdu writer. *b.* Aug. 29, 1896; *Educ.:* Govt. Jubilee High School, Gorakhpur; graduated from Muir Central Coll., Allahabad; selected for I.C.S., 1918; M.A. First Class First in English literature, 1930; winner of Ranade medal and Seshadre medals, 1930. Joined freedom struggle, 1919; courted jail, 1920-22; Under-Secy., A.I.C.C., 1924-27; since 1927 Lecturer, Reader and Asstt. Prof. of English, Allahabad Univ.; has been writing lyrical poetry in Urdu continuously for forty years; has introduced in his lyrics cosmopolitan features; is ranked with leading Urdu poets; is a critic of Urdu literature. *Publications:* Six volumes of Urdu lyrics; three volumes of critical essays. *Recreations:* Conversation, study of poetry, creative prose literature, philosophy, sociology, political science. *Address:* 8/4, Bank Road, University Buildings, Allahabad.

GADE, Hari Ambadas, B.Sc., B.T., G.D.Art, A.M., Painter, art educationist. *b.* Aug. 15, 1917; *Educ.:* Nagpur and Bombay. Held several one man's exhibitions in important art centres. Went on a study tour in European countries, 1955–56; represented in public and private collections in India and abroad. *Clubs:* Artists Club, Bombay. *Address:* D-139, Chembur, Bombay 71; Central Institute of Education, Delhi 6.

GADGIL, Gangadhar Gopal, M.A., Marathi Writer; Professor of Economics, Ruparel Coll., Bombay. *b.* Aug. 25, 1923; *Educ.:* Bombay Univ., did courses in literature and creative writing at Harvard and Stanford Univs. under Rockefeller Foundation Fellowship, 1957. Responsible for creating a new style in short story writing; Pres., Fiction Section of Marathi Literary Conference, 1955; awarded first prize in the Marathi short story competition held under the auspices of the *New York Herald Tribune;* awarded prizes for his books *Talavatalen Chandane, Ole Unha* and *Sata Samudra Palikade* by the Bombay Govt., 1956, 1958, 1960. *Publications:* Plays: *Vedyancha Choukon; Panch Natika;* Novel: *Lileeche Phool;* Travelogue: *Gopuranchya Pradeshat;* Collections of sort stories: *Kadoo and Goad; Talavatalen Chandane; Bandoo and ten others;* has written three books for children; his stories have been translated into English, Italian, Hindi, Gujarati and other Indian languages; *Address:* A-4, Hirji Govindji Building, New Nagpada Road, Bombay 8.

GADGIL, N. V., Governor of Punjab, since Sept. 1958. *b.* 1896, in Rajasthan; *Educ.:* Neemuch, Baroda and Poona; graduated in 1918 with Honours in Economics and Politics; LL.B. from the Govt. Law College, Bombay. Joined Poona Bar; was Secy., District Congress Cttee., Poona and of Maharashtra Provincial Congress Cttee.; Pres., Maharashtra Provincial Congress Cttee.: member, A.I.C.C.; Vice-Pres., Poona Municipality; imprisoned several times in connection with Satyagraha; intimately associated with Youth Movement in Bombay State; was elected to the Central Assembly, 1934; acted as Whip and Secy., Congress Party till he became Minister in the Central Cabinet; Minister for Works, Mines and Power, Aug. 1947-May 1952; Minister for Works, Production and Supply; Vice-Chairman, Board of Directors, State Bank of India. *Publications:* Has written books both in Marathi and English on Economics, Finance and Politics. *Address:* 419, Shanvar Peth, Poona 2; Raj Bhavan, Chandigarh.

GAEKWAD OF BARODA: Capt. His Highness Maharaja Fatesinghrao, Furzand-I-Khas-I-Dowlat-I-Englishia, Sena Khas Khel Shamshere Bahadur, Parliamentary Secretary to the Minister of Defence, since Aug. 1957. *b.* April 1930; *Educ.:* Privately. Does social work in the former Baroda State; elected member, Lok Sabha, 1957. Manager, Indian Cricket test team, in English tour, 1959. *Recreations:* Shooting, Cricket, Tennis, Table Tennis, Indian Classical Music, Farming, etc. *Clubs:* M.C.C., England; Cricket Club of India, Bombay; Willingdon Sports Club, Bombay; Radio Club, Bombay; N.S.C.I.; M.P.C. Gymkhana, Baroda. *Address:* Laxmi Vilas Palace, Baroda.

GAJENDRAGADKAR, Mr. Justice Pralhad Balacharya, M.A., LL.B., Judge, Supreme Court, since Jan. 17, 1957. *b.* March 16, 1901; *Educ.:* Satara High School (1911 to 1918); Karnatak Coll. (1918 to 1920); Deccan Coll. (1920 to 1924): Dakshina Fellow (1922-24); Jhala Vedant Prizeman; Bhagwandas Purshotamdas Scholar (1922-24); Law Coll., Poona (1924-26). Joined the Appellate Side Bar, 1926; edited the Hindu Law Quarterly; Sir Lallubhai Shah lecturer, Bombay Univ. on Hindu Law of Adoption, 1950; delivered University Extension lectures on the Hindu Code Bill, Karnatak Univ., 1951;

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presided over the Maharashtra Social Conference, Poona, 1953, Jalgaon, 1954; Chairman, Bank Award Commission, March-July, 1955; Judge, Bombay High Court, 1945-57. *Publications:* Sanskrit Text of Nanda Pandit's Dattaka Mimamsa and its English translation. *Address:* Supreme Court, New Delhi.

GALBRAITH, H. E. Dr. John Kenneth, M.S., Ph.D., LL.D., United States Ambassador to India. *b.* Oct. 15, 1908; *Educ.:* Univ. of Toronto; Univ. of California; Cambridge Univ., England; M.S., 1933, Ph.D. 1934, LL.D., 1958. Economic Advisor, National Defense Advisory Comm., 1940-41; Asstt. Administrator in Charge of Price Division, Office of Price Administration, 1942-43; Director, U.S. Strategic Bombing Survey, 1945; Member, Board of Editors, Fortune Mag., 1943-48; Lecturer, Harvard Univ., 1948-49; Professor of Economics, Harvard Univ., 1949-61. *Publications:* *American Capitalism; The Great Crash; The Affluent Society; The Liberal Hour.* *Address:* *Home:* 30, Francis Avenue, Cambridge, Mass., U.S.A.; *Office:* Shanti Path, Chanakyapuri, New Delhi 21.

GANAMUKHI, Anna Rao, B.A., LL.B., Minister for Education, Mysore, since May 1958. *b.* 1909, at Tad-Tegnoor; *Educ.:* B.A., 1930 and LL.B. from Osmania Univ., Hyderabad. Started practice at Gulbarga; took part in the freedom struggle from 1932; was a member, Hyderabad State Congress Working Cttee. since its inception; was selected member, provisional Parliament; Minister, former Hyderabad State; member, Inter State Ministerial Cttee. during States Reorganisation; elected M.L.A., Mysore from Afzalpur constituency, 1957. *Address:* Bangalore.

GANDHI, Shrimati Indira, *b.* Nov. 19, 1917 at Allahabad; *Educ.:* India, Switzerland, Visvabharati Univ., Santiniketan and Somerville Coll., Oxford. At the age of 12 formed a children's organization to help the Indian National Congress during N.C. movement; while at boarding school in Poona, worked in slum areas amongst the untouchables for popularising hand-spun cloth and Indian-made goods; has been active in student movements in England and in India; became member of the Congress, 1938; was actively associated with the Independence Movement; imprisoned for 13 months; active in elections and village mass contact work with special reference to women; worked under Mahatma Gandhi's direction in the riot affected areas of Delhi, 1947; became member, Working Cttee., A.I.C.C., 1955; Pres., Women's Deptt., A.I.C.C.; member, Central Election Cttee. & Central Parliamentary Board of the A.I.C.C.; is connected with several welfare organizations; member: Executive Board of UNESCO; Central Advisory Board of Education; various Trusts and Hospital Cttees.; Mountaineering Institute; Pres., Bal Bhavan sponsored by the Ministry of Education, Govt. of India; Pres.: Indian Council for Child Welfare; Indian National Congress, 1959-60; Pres. and Founder: Bal Sahyog, New Delhi; Kamala Nehru Vidyalaya, Allahabad; Vice-Pres., International Union for Child Welfare; Trustee, India International Centre; Patron: Foreign Students Assoc.; Children's Little Theatre; Received Mothers' Award, U.S.A. 1953; Yale Univ. Howland Memorial Prize, 1960; widely travelled in Asia, Europe and America. *Special Interests:* Reading, Music & Modern Art, Trekking and Swimming. *Address:* Prime Minister's House, New Delhi.

GANDHI, Pravinchandra Varjivan, Fellow, Indian Institute of Bankers, Mg. Director, Devkaran Nanjee Banking Co. Ltd., since 1943, Vice-Pres., Indian Merchants' Chamber, 1961. *b.* Aug. 25, 1922; *Educ.:* Elphinstone Coll., Bombay. Joined Dena Bank as an apprentice; appointed Manager, 1942; Vice-President, Indian Merchants' Chamber; Member, Managing Committee, Indian Banks Association; Executive Committee, Federation of Indian Chambers of Commerce & Industry; Director, Bombay State Financial Corporation, Gujarat State Financial Corporation. Council Member, Indian Institute of Bankers; Advisory Council Member, Bankers' Training College; Member, Executive Committee, Indo-American Society; Western India Automobile Association; Hon. Treasurer, Gujarati Natya Mandal; Mg. Trustee, Swadeshi League Trust. *Address:* Devkaran Nanjee Buildings, Horniman Circle, Fort, Bombay; 'AMELFI', 6th Floor, Nepean Road, Bombay 6.

GANGWAL, Mishrilal, Finance Minister, Madhya Pradesh. *b.* Samvat, 1859, Indore; *Educ.:* Indore. Took to the profession of his forefathers; is keenly interested in social and cultural work; was elected Pres. of several social and commercial institutions; was highly influenced by Mahatma Gandhi's writings and began to take active part in politics; was elected Pres., Ajmer-Merwara Provincial Congress and Indore Rajya Praja Mandal; was member, Central India States Peoples Conference and of the A.I.C.C. for several years—courted imprisonment thrice; was member, Indore Legislature; was Food Minister, Indore; was Civil Supplies Minister, Madhya Bharat; Commerce and Industries Minister, 1949-50; Finance Minister, 1950-52; was elected Leader, Congress Legislature Party, Madhya Bharat Leg. Assembly, 1952; was Chief Minister, M.B., 1952-April 1955. *Address:* Bhopal.

GARNIER, H. E. Mr. Jean-Paul, Doctor in Law (Paris), M.A., Laureate of the Institut de France, Ambassador Extraordinary and Plenipotentiary of France in India. *b.* Oct. 3, 1904; *Educ.:* Graduated from the French Institute of Political Sciences, Paris, Sorbonne Univ. Inspector General of the French Embassies and Consulates (1945-46); Chief of Personnel, French Ministry of Foreign Affairs (1947-49); Ambassador Extraordinary and Plenipotentiary of France in The Hague (1949-55); Ankara (1955-57) and Prague (1959-61). *Publications:* *The Tragedy of Dantzig*, a history of the annexation of the Free City of Dantzig by Prussia in the XVIIIth Century. (Paris, 1936. Was awarded the Prize DROUYN de LLHUYS). *NASREDIN HODJA and his Turkish stories* (Paris, Julliard ed.). *MURAT, King of Naples:* awarded the THEROUANNE Prize of the Academie Francaise, 1960. *The last king of Naples;* based on so far unpublished documents on the Italian Unity. *Recreations:* Golf. *Address:* C/o The French Embassy, 2, Aurangzeb Road, New Delhi.

GARWARE, B. D., J. P., Industrialist. *b.* 1903. Started business, 1921. Chairman: Garware Finance Corporation, Pvt. Ltd.; Garware Motors & Engineers Pvt. Ltd.; Garware Plastics Pvt. Ltd.; Plastics Packaging Pvt. Ltd.; Member (Local Board), State Bank of India; Director: The Sutlej Cotton Mills Ltd.; Khandelwal Ferro Alloys Ltd.; Khandelwal Udyog Ltd.; Chairman, Maharashtra Economic Development Council; is connected with many organizations as Chairman and active member on the Executive Cttees. of Economic and Industrial bodies; travelled widely in Europe, the U.S.A. and the Far East. *Address:* Chowpatty Chambers, Sandhurst Bridge, Bombay 7.

GAUTAM, Mohanlal, B.A. (Hons.), Ex-Minister for Agriculture and Co-operation, Uttar Pradesh. *b.* Aug. 5, 1902, at Birpura Village, Aligarh Dist.; *Educ.:* National Univ., Lahore. Joined N. C. Movement, 1920; Secy.: All India Congress Socialist Party, 1934; Congress Party in U.P. Legislature; Congress Party of Constituent Assembly, 1949; Congress Parliamentary Board; Gen. Secy.: U.P.P.C.C., 1930 and 1948; Congress Socialist Party, U.P., 1946; Indian National Congress; member: U.P. Leg. Assembly, 1937; Constituent Assembly of India, 1947; Founder and Secy., All India Kisan Sangh, 1936; Founder, *The Sangharsh*, Hindi Weekly; Convener, Congress Parliamentary Board, 1947; jailed seven times in the freedom movement; Minister for L.S.G., 1952-54; again elected M.L.A., U.P., 1957; visited U.K., France, Germany, Sweden, Denmark, Switzerland, Holland, Belgium, Italy, Egypt, etc. *Address:* Vikramaditya Marg, Lucknow.

GHADE, Bhagwantrao Gambhirrao, Minister for Rural Development and Forests, Maharashtra State, since May 1, 1960; Advocate, Bombay High Court. *b.* July 27, 1912; *Educ.:* Bhokardan, Jalna, Aurangabad and Hyderabad. Started his career as an educationalist; after some years became an Advocate of the Hyderabad High Court and started practice at Jalna; Minister for Forests, Govt. of Bombay, Nov. 2, 1956-May 1960. *Recreations:* Social activities. *Address:* 'Deogiri', Narayan Dabholkar Road, Bombay 6.

GHANDY, Sir Jehangir Jivaji, Kt., Cr., 1945, C.I.E., 1941, Padma Bhushan, 1958, Director: Tata Industries Private Ltd., Jamshedpur, since 1945 & Tata Sons Private Ltd., since 1959, Tinplate Co. of India Private Ltd. *b.* November 18, 1896; *Educ.:* B.A. (Hons.), B.Sc. (Hons.), Bombay University, B.S., School of Business, Columbia University, U.S.A.; B.Met. (Eng.), Carnegie Technological Institute, U.S.A. Member of the Inst. of Engineers (India), Fellow of the Inst. of Fuel (Great Britain), Member of the Iron & Steel Inst. (Great Britain); Director: Tata Locomotive & Engg. Co., Ltd., 1945; Director-in-Charge, Tata Iron & Steel Co., Ltd., 1954; Chairman: Metals Cttee., C.S.I.R.; All India Board of Technical Studies in Management; Executive Council, National Metallurgical Laboratory; Indian Standards Institution, Structural and Metals Division Council, etc.; Member: Board of Governors, Indian Institute of Technology; Board and Governing Body, Council of Scientific & Industrial Research; Court of Governors, Administrative Staff Coll., India; Associate Knight of the Venerable Order of St. John of Jerusalem; Hon. Col. in the Territorial Army. *Address:* The Tata Iron & Steel Co., Ltd., Jamshedpur; 23B, Netaji Subhas Road, Calcutta.

GHATE, Vithal Dattatray, M.A., B.T., T.D. (Lond.), Marathi writer. *b.* Jan. 18, 1895; *Educ.:* B.A., Holkar Coll., Indore, 1917; M.A., Christian Coll., Indore, 1919; B.T., S. T. Coll., Bombay, 1925; T.D., London Day Training Coll., London, 1930. Joined Bombay Educational Service, 1922; held important posts in the Education Deptt., 1927-45; Principal, S. T. Coll., Belgaum, 1946; Dy. Dir. of Education, Bombay State, 1946-49. *Publications:* Dramatised History of Maharashtra in Marathi, 1925; *People of many lands*, Marathi, Gujarati and Hindi, 1930; *Teaching of History*, English (O. U. Press), 1937; *Kanhi Mhatare Va Eka Mhatari*, Pen Portraits, 1936; *Pandhare Kes Hiravi Mane*, 1959; *Madhu-Madhav* (Collection of poems), 1924; *Divas Ase Hote*, autobiography, 1960. *Recreation:* Walking. *Address:* "Sushama", Deccan Gymkhana, Poona 4.

GHOSAL, Satyendra Nath, Dip. in Fine Art (Cal.), Dip. (Teachership) Fine Art (Cal.), Painter, Head of the Fine Art Deptt., Govt. College of Art & Craft, Calcutta. *b.* April 21, 1921; *Educ.:* Calcutta; Slade School of Fine Arts, Univ. of London & Goldsmith's Coll. School of Art, London. Is an artist; exhibited paintings in various exhibitions in U.S.A.; U.S.S.R., China, Japan, Australia, Egypt, Rumania, Yugoslavia, etc.; held four one-man shows in New Delhi, 1948, '49, '50

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and '56; travelled widely in England, Scotland, France and Switzerland, 1954; held two 'one-man-shows' of paintings in London, 1954 and 1955; exhibitions in London were visited by eminent Art Critics and Artists; paintings acquired by various Art Galleries and collectors in India and abroad. *Address:* Head of the Fine Art Deptt., Govt. College of Art & Craft, 28, Chowringhee Road, Calcutta 16.

GHOSE, Debes Chandra, Business man. *b.* Jan. 7, 1903; *Educ.:* Hare School, Scottish Churches College and Calcutta Medical College. President, Tea Assoc. of India, 1957–58; Commercial Adviser, United Commercial Bank Ltd., 1950-57; member: Executive Cttee., Bengal National Chamber of Commerce & Industry, Calcutta, 1943–57; Executive Cttee., Federation of Indian Chambers of Commerce & Industry, 1938–48; and 1951–52; Indian Tea Licensing Cttee., 1934–52; Indian Tea Market Expansion Board, 1936–49; Central Tea Board, 1949–52; Planning Commission, Advisory Panel on Commerce; Export Advisory Council, 1944–49; Export Promotion Cttee., 1949; Central Advisory Council of Industries. International Tea Cttee., London, 1946–50; Indian Cotton Delegation to Egypt, 1948; Commissioner, Calcutta Port Trust, 1945, 1946 and 1954–55; Director, Reserve Bank of India, Calcutta Area, 1945–48; Councillor, Corporation of Calcutta, 1946–48; served as Adviser to the Govt. of India Delegation to Ottawa Conference, 1932; Ex-Pres., Tea Chest and Plywood Trades Assoc., Calcutta, 1949–52; Vice-Pres., Indian Tea Planters' Assoc., Jalpaiguri, 1944–46; Senior Partner, R. J. Alcock & Co.; Managing Director: D. C. Ghose & Co. (Agents) Private Ltd.; Director: Malhati Tea Syndicate Ltd.; Bijoynagar Tea Co. Ltd.; Technical Builders Private Ltd., etc. *Recreations:* Tennis, Games, etc. *Clubs:* Calcutta Club Ltd., East Bengal Club; National Sports Club of India; Delhi Gymkhana Club. *Address:* 7, Burdwan Road, Alipore (Calcutta).

GHOSH, Ajoy, B.Sc. (Allahabad), General Secretary, Communist Party of India. *b.* Feb. 20, 1909; *Educ.:* Kanpur and Allahabad. Accused in Lahore Conspiracy Case, 1929; worked in Mazdoor Sabha, Kanpur; member, Central Cttee. of the C.P.I., since 1933; member, Politbureau, C.P.I., 1937. *Publications: Bhagat Singh and His Comrades, Theory and Practice of Socialist Party, Communist Answer to Pt. Nehru, Nehru's Socialism—A Hoax, Two Systems, A Balance Sheet,* 1956, etc. *Address:* Central Headquarters, C.P.I., Asaf Ali Road, New Delhi.

GHOSH, Amalananda, M.A., Director-General of Archaeology, Govt. of India, since 1953. *b.* March 3, 1910; *Educ.:* A. B. H. School, Banaras; Queen's Coll., Banaras; Allahabad Univ. Asstt. Supdt., Archaeological Survey of India, 1937-44; Superintendent, 1944-49; Dy. Director-General for Exploration, 1949-52; Jt. Director-General of Archaeology, 1952-53; excavated at Ahichchhatra, Taxila, Arikamedu, Harappa, etc., etc.; conducted exploration in Bikaner and other places. *Publications:* Numerous articles on Indian history and Archaeology. *Address:* Janpath, New Delhi-11.

GHOSH, Benoy Bhushan, M.Sc. (Calcutta), Secretary, Department of Food, Ministry of Food & Agriculture, Govt. of India, since Oct. 1956. *b.* March 15, 1905; *Educ.:* Presidency Coll., Calcutta. Joined Indian Audit & Accounts Service, 1930; Finance Deptt., Govt. of India, 1939; Joint Secy., Ministry of Defence, 1947. *Address: Office:* Secretary, Department of Food, Min. of Food & Agriculture, Krishi Bhavan, Queen Victoria Road, New Delhi; *Res.:* 33, Aurangzeb Road, New Delhi.

GHOSH, Principal Devaprasad, M.A., B.L., Vice-President, All-India Jana Sangha. *b.* March 15, 1894; *Educ.:* Mitra Institution, Calcutta; Deoghar H. E. School; Braja Mohan Institution, Barisal; City Coll., Calcutta; Presidency Coll., Calcutta; Ripon Law Coll., Calcutta; Fellow, Calcutta Univ. upto 1957; Advocate, Calcutta High Court; linguist, knows Bengali, Sanskrit, English; German, French and Italian; member: Congress, 1915-22; Nationalist Party, 1923-32; Hindu Mahasabha, 1933-51; Jana Sangha, since its inception, 1951; elected to the Rajya Sabha on Jana Sangha ticket, 1952; elected Pres., West Bengal Jana Sangha, 1954; Vice-Pres., All-India Jana Sangha, 1955; *Publications:* Several books on Mathematics; also a number of books on literary and political subjects, e.g., *Shifting Scenes; Hindu Kon Pathe* (Whither Hindus?); *Tarunima* (Youthfulness); *Satera Vatsar Pare* (Seventeen years after); *Bangla Bhasha O Banan* (Bengali language and spelling—containing among other things his famous exchange of letters with Poet Tagore). *Address:* 59-B, Upper Circular Road, Calcutta 9.

GHOSH, Surendra Nath, M.A., LL.B., Journalist; Editor, *The Pioneer,* Lucknow, since 1946. *b.* May 20, 1904; *Educ.:* Allahabad University. Started as a reporter; later became News Editor and subsequently Chief Assistant Editor of *The Pioneer;* Pres., U.P. Press Consultative Cttee.; Member: U.P. Planning Commission; Standing Cttee. of the All-India Newspaper Editors' Conference. *Recreation:* Gardening. *Address:* Lucknow.

GHOSH, Tarun Kanti, B.A. (Calcutta), Minister, Agriculture and Food Production, and Forests & Fisheries, Govt. of West Bengal. *b.* 1924; *Educ.:* Presidency Coll., Calcutta. Started his career as Asstt. Manager, *Amrita Bazar Patrika,* Allahabad; was General Manager and Joint Secy., Allahabad and Calcutta offices of the *Amrita Bazar Patrika;* organized the Relief Fund for East Bengal refugees, 1946; took a very prominent part in the pre-independence Bengal Partition Movement; was Chairman, Reception Cttee., All-India Students' Congress at Allahabad, presided over by Sri Jayprakash Narayan; took keen interest in opening a relief fund in his own organizations known as Patrika-Jugantar East Bengal Refugee Relief Fund; elected M.L.A., West Bengal from Habra (24 Parganas) Constituency on Congress ticket, 1952 and again in 1957, securing absolute majority of votes. *Recreations:* Reading of books. *Clubs:* Calcutta Club; N.S.C.I.; Mohan Bagan A.C. *Address:* "Patrika House", 14, Ananda Chatterjee Lane, Calcutta 3; "Sisir Kunja", P.O. Madhyamgram (Barasat), Dist. 24-Parganas.

GHOSH, Tushar Kanti, Editor, *Amrita Bazar Patrika,* Calcutta. *b.* Oct. 4, 1899; *Educ.:* Calcutta Univ., Bangabasi & Vidyasagar Coll. Started as sub-editor, 1920; founded *Jugantar* (Calcutta), Bengali daily; founded *Allahabad Patrika,* English daily; President: All-India Newspaper Editors' Conference (1946-47); Indian & Eastern Newspaper Society (1948-49); represented India at the Empire Press Union Conference in London, June 1946, and travelled extensively; President: Indian Journalists' Assoc., Calcutta; Andhra Journalists' Conference at Guntur, 1937; All-India Printers' Conference at Poona, 1959; All Jammu and Kashmir Conference; Bengal Film Journalists' Assoc. and All-India Film Journalists' Conference, Lahore, 1941; Director, Press Trust of India; Managing Director, *The Jugantar Ltd.* and *The Amrita Bazar Patrika Ltd.* Leader, Indian Press Delegation to Egypt, 1950-51; member, Central Board of Film Censors, 1951-53; Delegate to International Press Institute Conference, Amsterdam, 1957, followed by extensive tour in western European countries, U.S.A., Japan and other Far Eastern countries; Delegate to I.P.I. Second Asian Conference at Kandy, Ceylon, 1957; member, Executive Cttee., International Press Institute; Chairman, Press Section, Commonwealth Press Union. *Address:* Editor, *Amrita Bazar Patrika,* City Office, 3, Chittaranjan Avenue, Calcutta 13.

GHULAM Ahmad, Pirzada, B.A. (1st Class), I.A.S., Chief Secretary to the Govt. of Jammu & Kashmir, since June 1954. *b.* April 21, 1908; *Educ.:* Sri Pratap High School, Srinagar, 1922-24; Sri Pratap Coll., Srinagar, 1924-28; Govt. Coll., Lahore, 1928-30. Joined Jammu & Kashmir Audit & Accounts service, 1930; was trained in Indian Audit & Accounts service, 1933; Asstt. Accounts Officer, 1945; Asstt. Accountant General, 1947; Special Secy. and Chief Secy., Oct. 1947-Oct. 1948; Accountant General, Oct. 1948- June 1954; was member, Inquiry Cttee. commonly known as Wazir Cttee. set up by the Jammu & Kashmir Govt. to examine the working of land reforms, price control, etc. in the State; has been member of various commissions of inquiry set up from time to time by the State Govt.; taken in the Indian Administrative Service, 1958. *Recreation:* Angling. *Club:* Amarsingh Club, Srinagar. *Address:* Srinagar.

GILL, His Excellency Naranjan Singh, Ambassador of India to Thailand, since Feb. 1960. *b.* Jan. 15, 1906; *Educ.:* Chiefs' Coll., Lahore; Prince of Wales Royal Indian Military Coll., Dehra Dun; Royal Military Coll., Sandhurst, England. Commissioned into the Indian Army as 2nd Lieut., Sept. 1925; Capt., Sept. 1934; Major, Sept. 1942; graduated from Staff Coll., Quetta, 1938; Staff Capt., A.HQ., 1939; D.A.Q.M.G. 11 Indian Div., Malaya, 1940; fought in the Malayan Campaign; after the fall of Singapore, 1942, Chief Adviser, 1st Indian National Army; imprisoned by the Japanese, Dec. 1942 till the end of war; then imprisoned by the British in the Red Fort, Delhi; released, April 1946; Pres., Combined Sikhs Board, at the time of the Cabinet Mission proposals, 1946; worked with the Congress and for Co-operative and Farmer's Movement in Punjab, 1947-55. Ambassador to Ethiopia 1955-60. *Recreations:* Tennis, Golf. *Address:* Indian Embassy, Bangkok.

GINWALA, Sir Padamji Pestonji, Kt. (1927), B.A. (Historical Tripos, Cambridge, 1897), Barrister-at-Law, Adviser to Martin Burn Ltd., The Indian Iron & Steel Co., Ltd., Indian Standard Wagon Co., Ltd., and Burn & Co., Ltd.; Director, Indian Iron & Steel Co., Ltd., Indian Standard Wagon Co., Ltd., India Steamship Co., Ltd. (Calcutta); Member, London Board, Indian Iron & Steel Co., Ltd. *b.* Nov. 1875; *Educ.:* Gujarat Coll., Ahmedabad; Trinity Hall, Cambridge; called to the Bar, 1899. Advocate, Chief Court of Lower Burma, 1905; member: Leg. Assembly, 1921-23; Indian Tariff Board, 1923; Pres., 1926-30; resigned, July 1930; Delegate, Imperial Conference, 1930; member: Round Table Conference, 1931; Ottawa Conference, 1932; World Economic Conference, 1933; Pres., Indian Air Force Pilots Selection Board, 1940 and 1941; Chairman: Iron and Steel (Major) Panel, 1945; Calcutta Terminal Facilities Cttee., 1947; Pres., Indian Institute of Metals, 1949 & 1951. *Address:* 12, Mission Row, Calcutta.

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GIRI, V. V., Barrister-at-Law, Governor of Kerala since July 1, 1960. *b.* Aug. 10, 1894, in Berhampore; *Educ.:* National Univ., Ireland. Trade Union leader for many years; General Secy. and Pres. of the All-India Railwaymen's Federation; twice Pres. of the All-India Trade Union Congress; Indian Workers' delegate to the International Labour Conference at Geneva in 1927; Workers' Representative in the Second Round Table Conference, London, 1931; Member, Central Legislative Assembly for several years; Minister for Labour, Industries and Co-operation in the Madras Ministry during 1937-39; Minister in the Madras Govt. in 1946; High Commissioner for India in Ceylon; Minister for Labour, Govt. of India, May 1952-Sept. 1954; Member, Lok Sabha 1952-57; Elected Pres. Indian Conference of Social Work, 1958; Governor of U.P., 1957-60. *Publications: Industrial Relations: Labour Problems in Indian Industry. Address:* Raj Bhavan, Trivandrum.

GIUSTI DEL GIARDINO, H. E. Dr. Justo, LL.D., Ambassador Extraordinary & Plenipotentiary of Italy in India, since Aug. 1958 and concurrently to Nepal since Feb. 8, 1960. *b.* March 19, 1908; *Educ.:* Univ. of Padua. Entered Italian Foreign Service, July 1933; Vice-Consul, Calcutta & Djibuti; Second Secy., Peking & Athens; Consul, San Sebastian; Consul-General, Paris; General Director for Emigration, Italian Foreign Service; Chief of many delegations to I.L.O., O.E.C.E., I.C.E.M., Council of Europe; Pres., pro tem, of I.C.E.M.; Amb. Ex. & Plen. to Venezuela, 1954; Pres., Italian Delegation to the 10th Assembly of I.C.A.O.; Chief of the Special Italian Embassy in the Dominican Republic, Aug. 1957. *Publications:* Articles in various reviews on labour and migration problems. *Address:* 17, York Road, New Delhi.

GODDARD, Frank Ernest Harvey, Manager, The Chartered Bank, Bombay. *b.* Jan. 20, 1908; *Educ.:* Tonbridge School. On the staff of the Banque de Commerce S.A., Brussels, Barclays Bank Ltd., London, and since 1927 The Chartered Bank in London, India, Viet Nam, Pakistan, Ceylon and Japan; in Bombay since 1954; Chairman: Bombay Exchange Banks' Assoc.; Foreign Exchange Dealers' Assoc. of India; member: Council of the Indian Institute of Bankers; General Cttee. of the Bombay Chamber of Commerce & Industry; Director, Refinance Corporation for Industry Private Ltd.; member: Advisory Council of the Bankers' Training Coll.; Central Advisory Council of The Export Risks Insurance Corporation Ltd.; Governor of The Cathedral & John Connon Schools (Anglo-Scottish Education Society), 1955-60; European Relief Assoc., 1958-60; Trustee, St. Thomas' Cathedral, 1959-60; member, General Cttee. of the U.K. Citizens' Assoc. *Recreations:* Golf, Reading, Music, Swimming, *Clubs:* The Willingdon Sports Club, Bombay Gymkhana, Rotary Club of Bombay, *Address:* 25, Mahatma Gandhi Road, Bombay 1.

GODE, Parashuram Krishna, B.A. (Hons.), M.A., D.Litt., Curator, Bhandarkar Oriental Research Institute, Poona, since 1919. *b.* July 11, 1891; *Educ.:* The New English School and Fergusson Coll., Poona. Associate Member, "Ecole Francaise d'Extreme Orient" (Hanoi); Hony. Pres., Cultural Cttee. of Argentine; Hon. Editor, "Annual Bibliography of Indian Archæology," (Leyden); Hon. Collaborator, "Bibliography of Indian Philosophy," etc.; Distinguished Services Silver Jubilee Medal of B.O.R. Institute (1943); Recognised Professor and Head of the Dept. of Ancient Indian Culture of Poona Univ., publicly honoured on May 18, 1949; recipient of Gode Commemoration Volume (850 pp.) with 85 papers from all parts of the world, 1960; Hony. member and holds Hony. degree of Doctor of Letters of the "Haute Academie Latine Internationale des Sciences des Lettres, et des Arts"; Member of Council, Indian Institute for the History of Science. *Publications:* Author of more than 475 research papers on Indology published in 50 different journals and volumes (1916-59); Editor of some of these papers in 7 volumes; Editor of *New Indian Antiquary, Review of Philosophy and Religion; Oriental Literary Digest;* Editor of Seven Commemoration Volumes; Editor, revised edition of Apte's Sanskrit-English Dictionary; Author of several volumes of descriptive catalogue of manuscripts. *Address:* Deccan Gymkhana Colony, Poona 4.

GOENKA, Rai Bahadur Sir Badridas, Kt. C.I.E., B.A., Merchant. *b.* 1883; *Educ.:* Graduated from the Presidency Coll., Calcutta, 1905. Partner, Ramdutt Ramkissendass; Chairman: Board of Directors, Hukumchand Jute Mills Ltd.; Hercules Insurance Co., Ltd.; New India Investment Corpn. Ltd.; Kamla Mills Ltd.; Standard General Assurance Co., Ltd.; Director: Reserve Bank of India (Central Board), 1935-41; State Bank of India 1955-57; Hindusthan Motors Ltd.; Rallis India Ltd.; Imperial Bank of India, 1941-55; Nagaisuree Tea Co. Ltd.; Killcott Tea Co. Ltd.; Pres.: Federation of Indian Chambers of Commerce & Industry, 1945-46; Marwari Assoc., 1928-30; Indian Chamber of Commerce, 1941; Trustee: Calcutta Improvement Trust, 1928-40; Victoria Memorial Hall, Calcutta; member: Bengal Legislative Council, 1923-35; Sheriff of Calcutta, 1932-33; made Rai Bahadur, 1925, C.I.E., 1928 and Knight Bachelor, 1934. *Club:* Calcutta Club. *Address:* "Goenka Niwas," 19, Belvedere Road, Alipore, Calcutta 27.

GOENKA, Keshav Prasad, Partner, Ramdutt Ramkissendass. *b.* 1912. Sheriff of Calcutta (1950-51); Vice-Chairman, Central Tea Board (1953-54); Vice-Chairman, Indian Statistical Institute; Pres., Employers' Assoc., Calcutta; Member: Cttee. of Federation of Indian Chambers of Commerce and Industry; Cttee. of the All-India Organisation of Industrial Employers; Indian National Cttee. of the International Chamber of Commerce; Import Advisory Council, Govt. of India, 1948-51; Export Promotion Advisory Council, Govt. of India; Indian Central Jute Cttee. (1939-42); Bengal Economic Enquiry Cttee. (1938-41); Cttee. of the Indian Chamber of Commerce; Pres.: Indian Chamber of Commerce (1948-49), (1956-57); Indian Insurance Association, Calcutta (1948-50); Commissioner for the Port of Calcutta (1944-46), (1949-51) and (1954-56); Chairman: Duncan Bros. & Co., Ltd.; Anglo-India Jute Mills Co., Ltd.; Gungaram Tea Co., Ltd.; Hantapara Tea Co., Ltd.; Birpara Tea Co. Ltd.; Killcott Tea Co., Ltd.; Isaac Holdens (India) Ltd.; Phillips Carbon Black Ltd.; Schrader-Scovill Duncan Ltd.; Patrakola Tea Co., Ltd.; Director: Reserve Bank of India (1948-49); Aucklanp Jute Co., Ltd.; Bank of Baroda Ltd.; Calcutta Investment Co. Ltd.; Dalhousie Jute Co., Ltd.; Jaipur Investment Co., Ltd.; National Tobacco Co., of India Ltd.; New India Investment Corporation Ltd.; Standard General Assce. Co., Ltd.; Titaghur Paper Mills Co., Ltd.; Triton Insurance Co., Ltd.; The Champdany Jute Co., Ltd.; Central Warehousing Corpn.; West Bengal State Warehousing Corpn., etc., etc. *Club:* Calcutta Club. *Address:* 31, Netaji Subhas Road, Calcutta 1; *Residence:* "Goenka Niwas," 19, Belvedere Road, Calcutta.

GOFFART, His Excellency Francis-Leo, Belgian Ambassador to India and also Minister Plenipotentiary to Afghanistan. *b.* 1903; Doctor of Law. Entered service, 1932; was successively Attache of Legation, Berlin; Secy. of Legation, Belgrade; Head of Belgian information Office for Latin America, 1942; in charge of training post-war diplomats, 1946. Representative of Belgium to the Council of Europe at Strasbourg, 1951; Minister to Prague, 1957. *Address:* Belgian Embassy, 24, Hardinge Avenue, New Delhi.

GOKAK, Vinayak Krishna, M.A. (Bom. & Oxon.), First Class in English, B.A., and M.A., First Class in English Language and Literature at Oxford, Padma Shri (1961), Director, Central Institute of English, Hyderabad. *b.* Aug. 9, 1909; *Educ.:* Majid High School, Savanur; Karnatak College, Dharwar; Jesus College, Oxford. Pres., Kannada Poets' Conference, 1934; Principal, M. N. College, Visnagar (1946-49); Principal and Prof. of English, Rajaram College, Kolhapur, 1949-52; member, Indian delegation to the International P.E.N. Conference, Japan, Aug. 1957; Pres.: Univ. Section, All India Educ. Conference, Madras, Dec. 1957; Kannada Literary Conference, Bellary, 1958; Leader, Indian delegation to America to study systems of examination, 1958; Principal & Prof., English, Karnatak Coll., Dharwar. *Publications: The Song of Life, The Poetic Approach to Language* (O. U. P.); a novel, three plays and collections of lyrics, letters and essays in Kannada. *Address:* Director, Central Institute of English, Hyderabad 7.

GOKHALE, Bhalchandra Krishna, M.A. (Bombay), B.A. (Cantab.), I.C.S. (Retd.), C.S.I. (1st Jan. 1946), C.I.E. (1st Jan. 1942), Chairman, Tungabhadra Board, since March 16, 1955. *b.* July 23, 1892; *Educ.:* Fergusson Coll., Poona. Wilson Coll., Bombay, Fitz-William Hall, Cambridge. Settlement Officer, Chota-Nagpur; District Officer, Manbhum, Gaya and Monghyr (Bihar); Secretary to the Govt. of Bihar and Orissa; Commissioner of Bhagalpur and Patna Divisions; Adviser to H.E. the Governor of Orissa; Administrator, Damodar Project, Hazaribagh; Secretary, Govt. of India, Ministry of Works, Production and Supply; Secretary to the President of India; Ambassador in Nepal; Chairman: Inland Water Transport Committee; Central Water and Power Commission Reorganisation Cttee. *Publications:* Final report of the Survey and Settlement operations in Manbhum District, 1927; Final report of Revision Survey and Settlement operations in Kodarma, Government Estate. *Address:* 36, Deccan Gymkhana, Poona 4.

GOLCHA, Seth Mehtab Chand, a leading Industrialist. Controller of TALC (Soapstone) Mines in India and manufacturers of felt, felt hats, brasswares, curios, etc.; Partner, S. Zoraster & Co., Jaipur; Director: Jaipur Mineral Development Syndicate (Private) Ltd.; Udaipur Mineral Development Syndicate (Private) Ltd.; East India Mineral Development Syndicate (Private) Ltd.; Udai Talc (Private) Ltd.; Associated Soaptone Distributing Co. (Private) Ltd.; Golcha Properties (Private) Ltd.; S. Zoraster & Co. (Supplies) (Private) Ltd.; Supreme General Films Exchange Private Ltd.; Dhartidhan Private Ltd.; controls: Golcha Cinema, Delhi; Maratha Mandir, Bombay; Prem Prakash Talkies, Jaipur; Plaza Cinema, Ajmer; Plaza Talkies, Jubbulpore; Shri Talkies, Nagpur; has been controlling film distribution in Madhya Pradesh, Rajasthan and central India; extensively travelled in East Europe and East Asia. *Address:* Johri Bazar, Jaipur.

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GOLWALKAR, Madhav Sadashiv, M.Sc. (Zoology), LL.B., Sarsanghchalak (Chief Organiser), Rashtriya Swayamsevak Sangh (R.S.S.). *b.* Feb. 18, 1906; *Educ.:* Hislop Coll., Nagpur; Benaras Hindu Univ. Joined Benaras Hindu Univ. as a Professor, 1930; in B.H.U. came in contact with Dr. Keshav Baliram Hedgewar, the founder of R.S.S. and eventually started taking keen interest in their work; returned to Nagpur where he became a regular visitor to Ramkrishna Mission, 1932; joined Ramkrishna Mission Ashram at Sargachhi, 1936; was initiated by Swami Akhandanandji, one of the eleven direct disciples of Ramkrishna Paramhansa; after Swamiji's death returned to Nagpur and devoted his attention to R. S. S. work; after the death of Dr. Hedgewar, the founder of R.S.S., was appointed the head of that organisation. *Publications: We or our Nationhood Defined* (English, Marathi, Hindi); *Speeches of Swami Vivekanand at the Chicago Conference* (Marathi). *Address:* Dr. Hedgewar Bhavan, Nagpur.

GOMEZ, Alexander Anthony Joseph, B.Sc. (Hon.), Eng. (London), A.C.G.I., D.I.C., A.M.I.E., Master of the Mint, since June 1, 1960. *b.* March 15, 1908; *Educ.:* St. George's Coll., Mussoori. Joined Military Engineering Service, March 1, 1935; Emergency Commission in Indian Land Forces Corps of India Engineers; 2nd Lieut., Aug. 2, 1941; Lieut., Oct. 1, 1942; Capt., Jan. 15, 1943; Major, March 1, 1943; Dy. Mint Master, Calcutta, Aug. 1947; Offg. Mint Master, Bombay, March–May 1954; Mint Master, Alipore, April 1, 1952. *Publications: History of Indian Coinage. Recreations:* Tennis, Fishing, Swimming. *Clubs:* National Sports Club of India. *Address:* India Government Mint, Mint Road, Fort, Bombay 1.

GOPAL, Sarvepalli, M.A., B.L. (Madras), M.A. (Oxon.), D. Phil. (Oxon.), Director, Historical Division, Ministry of External Affairs, since 1954. *b.* April 23, 1923; *Educ.:* Madras Univ.: M.A., 1942; B.L., 1944; Oxford Univ.: M.A., 1947; D.Phil., 1951. Lecturer and Reader in History, Andhra Univ., Waltair (1948-52); Asstt. Director, National Archives of India (1952-54). *Publications: The Permanent Settlement in Bangal and its Results* (London, 1949); *The Viceroyalty of Lord Ripon* (Oxford, 1953); *The Viceroyalty of Lord Irwin* (Oxford, 1957); and articles in *History, History Today* and the *Encyclopaedia Britannia. Address:* 2, King Edward Road, New Delhi.

GOPALKRISHNAN, P. A., B.A. (Hons.) (Madras), I.C.S., O.B.E., Chairman, Life Insurance Corporation of India, since April 10, 1958. *b.* Dec. 20, 1909; *Educ.:* Presidency College, Madras; Univ. College, London. Joined the I.C.S. after passing the competitive exam. in London, 1932; served in many Districts of U.P.; Finance Secy. to U.P. Govt., April 1947 to Dec. 1949; Financial Commissioner and Commissioner for Food and Civil Supplies, U.P.; Jt. Secy., Ministry of Food & Agriculture; Joint Secy., Cabinet Secretariat, Govt. of India. *Clubs:* Nainital B. H. Club Ltd., Mohamed Bagh Club, Lucknow, Gymkhana Club, Delhi and Willingdon Sports Club, Bombay. *Address:* Jeevan Kendra, Jamshedji Tata Road, Bombay 1.

GOPALAN, A. K., M.P., Deputy leader, Communist Group in Parliament. *b.* Oct. 1, 1904; *Educ.:* Tellicherry, Malabar and Madras. Political worker; joined Congress, 1927; courted jail for 12 years; Pres., Kerala Congress Cttee. and member, A.I.C.C. for six years; joined Congress Socialist Party, 1934; hunger march from Malabar to Madras, 1937; elected member, Lok Sabha, 1952 and again in 1957. *Address:* 2, Windsor Place, New Delhi

GOPALASWAMY, Kurma Venu, B.A. (Madras), M.A. (Oxon.), Bar-at-Law, Registrar, Andhra 'Varsity; Telugu and English writer. *b.* Dec. 19, 1903; *Educ.:* C. M. S. High School, Ellore; Christian College, Madras; Balliol College, Oxford; Inner Temple, London. Advocate, High Court of Madras, 1933-42; First Univ. Prof. of Law, Andhra Univ., 1945; Pres.: Rotary Club, Guntur, 1944; The Telugu Little Theatre, Vijayawada; Andhra Nataka Kala Parishat, 1951; member: Indian Sahitya Akademy, 1954-56; Andhra Pradesh Sangeet Nataka Akademi; Indian Council of World Affairs, Waltair; Producer for the Andhra Univ. Experimental Theatre; Organizer: U.N. Volunteer Correspondent Speakers' Unit, Waltair; U.N.E.S.C.O. Club, Waltair; Leader, Govt. of India Delegation of Univ. Administrators to U.S.A. and U.K., 1958; Editor, Best One Act Plays, in Telugu; Short History of Telugu Literature. *Publications: Limitations of Diarchy as a First Step Towards Representative Government;* Stories and Plays in Telugu in collaboration with Mrs. Seshu Bai Gopalaswamy. *Address:* University Campus, Waltair.

GORAY, Narayan Ganesh, B.A., LL.B., M.P. (Lok Sabha), General Secretary, Praja Socialist Party. *b.* June 15, 1907, at Hindla village, Ratnagiri Dist.; *Educ.:* Fergusson Coll., Poona. Social worker; joined Congress and Satyagraha campaign, 1930; was member: National Exec. of the Congress Socialist Party, 1934; All India Congress Party; Joint Secy., Socialist Party, 1948, when it severed its connection with the Congress; General Secy., P.S.P., 1953-54; elected to the Court of the Univ. of Poona from the Trade Unions' Constituency, 1949-54 and since 1954; led the first batch of Satyagrahis in Goa, May 1955; was sentenced to ten years' imprisonment by the Portuguese Govt.; released, Feb. 1957; Critic, essayist, story writer and translator; courted jail on several occasions in India's freedom movement. *Publications: History of the United States of America;* Short Stories, Essays, Translations, etc. in Marathi. *Address:* 1813, Sadashiv Peth, Poona 2.

GORE-BOOTH, H.E. Sir Paul Henry, K.C.M.G. (1957), C.M.G. (1949), High Commissioner for the U.K. in India, since Nov. 1960. *b.* Feb. 3, 1909; *Educ.:* Eton; Balliol Coll., Oxford. Joined Foreign Service, 1933; F.O. 1933-36; Vienna, 1936-37; Tokyo, 1938-42; Washington, 1942-45; F.O. 1945-49; Head of U.N. (Economic & Social) and Refugees Deptts., 1947-48; Head of European Recovery Dept., Foreign Office, 1948-49; Director, British Information Services in United States, 1949-53; Ambassador to Burma, 1953-56. Deputy Under-Secy. (Economic Affairs) Foreign Office, 1956-Oct. 1960; Hot Springs Food Conf., 1943; U.N.R.R.A. Conf., 1943; Chicago Civil Aviation Conf., 1944; San Francisco Conf., 1945; U.N. Assembly, 1946 (Sec. of U.K. Deleg.) Jan. and Oct., and 1947. *Clubs:* Royal Automobile, Baker Street Irregulars. *Address:* 29, The Vale, Chelsea, London, S.W. 3; United Kingdom High Commission, Chanakyapuri, New Delhi.

GOVINDDAS, Doctor, Sahitya Vachaspati, LL.D., Padma Bhushan (1961), Member, Lok Sabha. *b.* Vijay Dashmi Day, 1896; *Educ.:* Privately. Entered politics, 1919; elected to the Central Assembly, 1923, 1934 & 1946, Council of State, 1925, Constituent Assembly, 1947 and Lok Sabha, 1952 and 1957; courted jail several times in freedom movements; member, A.I.C.C., since 1921; Pres., Mahakoshal P.C.C. for 20 years; elected Chairman, Reception Cttee. of Congress Session, Tripuri, 1939; member, Congress Working Cttee., 1950-51 & 1958; Pres., A.I. Hindi Sahitya Sammelan, 1949; Leader Indian, delegation to Commonwealth Parliamentary Conference, New Zealand, 1950; elected first Pres., M.P.C.C. of reorganised M.P., 1957; awarded the degree of Doctor of Laws by the University of Jabalpur, 1960. *Publications:* Has written 106 plays in Hindi, one novel *Indumati* and 3 travel books on Africa, New Zealand, Australia, Fiji & Malaya, World Tour and Badrinath and Autobiography in three vols. *Address:* 33, Ferozshah Road, New Delhi 1; Raja Gokuldas Palace, Jabalpur (M.P.).

GOYAL, Air Vice-Marshal Surendranath, M.B.E., Air Officer Commanding-in-Chief, Training Command, Indian Air Force. *b.* Dec. 11, 1917; *Educ.:* Allahabad Univ., 1935; R.A.F. Coll., Cranwell (U.K.), 1936; R.A.F. Staff Coll., Bracknell (U.K.), 1946. Director, Air Headquarters, 1948-51; Commandant, Air Force Academy, 1951-52; Air Officer Commanding, Training Command, 1952-55; Principal Staff Officer, Air H.Q., 1955-58. Commandant, School of Land-Air Warfare. *Publications: Air Power in Modern Warfare* (Thackers, Bombay, 1952). *Recreations:* Mountaineering, Photography, Music, etc. *Clubs:* Rotary, etc. *Address:* C/o Air Headquarters, New Delhi.

GRACIAS, His Eminence Valerian Cardinal, D.D., M. Agg., Archbishop of Bombay since Dec. 1, 1950. *b.* October 23, 1900; *Educ.:* St. Patrick's High School, Karachi; St. Joseph's Seminary, Mangalore; The Papal Seminary, Kandy, Ceylon and The Gregorian Univ., Rome. Secy. to the Archbishop (1929-1936); Chancellor of the Archdiocese, 1929; Editor of *The Messenger of the Sacred Heart* (1935); Co-Editor of *The Examiner* (1938); Rector of the Pro-Cathedral, Dec. 1941; Titular Bishop of Tannis and Auxiliary to the Archbishop of Bombay, April 11, 1946; Archbishop of Bombay, Dec. 1, 1950; created Cardinal, Jan. 12, 1953; Consultor to the Sacred Congregation for the Oriental Churches, The Sacred Congregation of the Sacraments and the Sacred Congregation for the Propagation of the Faith; President, Catholic Bishops' Conference of India. *Publications: Features of Christian Life; Heaven and Home; The Vatican and International Policy; The Decline of Public Morals. Address:* Archbishop's House, Bombay 1.

GREWAL, Sarwan Singh, Cert. I.S.M., F.C.C., M.M.G.I., Ex-Chief Inspector of Mines, Govt. of India. *b.* April 5, 1906; *Educ.:* Govt. Coll., Lahore. Indian School of Mines, Dhanbad. Joined the Deptt. of Mines, 1934; Deputy Chief Inspector of Mines in India, 1951-54; Pres., Coal Mines Rescue Stations Committee, 1946-50 and 1953-54; was Economic Development Fellow of the U.N.T.A.A., Pres., Executive Council of the Indian School of Mines and Applied Geology, 1954-57; elected Chairman, I.L.O. Sub-Cttee. on Safety in Coal Mines (at the Sixth Session of the I.L.O. Coal Mines Cttee. held at Istanbul), 1956; attended meeting as one of the I.L.O. Experts on the Prevention of Accidents due to Fires and Electricity in Coal Mines, Geneva, 1957; Pres., Mining, Geological and Metallurgical Institute of India, 1957-58. *Recreations:* Photography, Golf. *Clubs:* The Dhanbad Club. *Address:* C/o Hirapur House, Dhanbad, E.R.

GROVER, Mr. Justice Amar Nath, M.A., LL.B. (Cantab.), Barrister-at-Law, Puisne Judge, Punjab High Court, since Nov. 21, 1959. *b.* Feb. 15, 1912; *Educ.:* Govt. Coll., Lahore; Christ's Coll., Cambridge, Passed M.A. (Hist.), Punjab, 1932; Law Tripos, Cambridge, 1935; LL.B. Degree, Cambridge, with First Class, 1936; awarded 1st Prize in Law by Christ College, Cambridge and elected Hony. Scholar of the Coll., 1936; called to the Bar by the Middle Temple, 1936. Started practice as an Advocate, High Court, 1937; became a leader of the Bar; member, Punjab Bar Council, 1954-57; Addl. Judge, Punjab High Court, 1957-59. *Recreations:* Swimming and Golf. *Clubs:* Gymkhana Club, New Delhi; A. D. C. Club, Simla; Chandigarh Club. *Address:* Punjab High Court, Chandigarh.

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GUHA, Arun Chandra, B.A. (Calcutta), M.P. (Lok Sabha), Ex-Min. for Revenue and Defence Expenditure, Govt. of India; Journalist, Publisher, Author. *b.* May 1892; *Educ.:* B. M. School and Coll., Barisal (East Bengal). Joined the 'Yugantar Party'—the revolutionary party; after graduating, went underground during the First World War in connection with the Indo-German conspiracy; was in jail for over 23 years under Regulation III of 1818 as a State prisoner at several places; Gen. Secy., Bengal P.C.C., 1940-41; member: A.I.C.C. since 1938; Constituent Assembly, 1946; Provisional Parliament; elected M.P., 1952 and 1957; member: Estimates Cttee. and Public Accounts Cttee. of the Parliament. *Publications:* has written short stories, novels and books on History, Politics and Cultural and Juvenile topics. Editor, *Mandira*, Bengali literary monthly and Dir., *Forward*, political and cultural English weekly. *Address:* 32, Acharya Prafulla Chandra Road, Calcutta 9; *Tel. Address:* "QUALIPRINT."

GUHA, Dr. Bires Chandra, M.Sc. (Cal.), Ph.D., D.Sc. (Lond.), Dean, Faculty of Science, Calcutta University. *b.* June 7, 1904; *Educ.:* Calcutta, London and Cambridge; noted for his researches in Biochemistry with special reference to food and nutrition; Member, D.V.C. (1948-53); Pres., Chemistry Section of the Indian Science Congress (1945); member: International Cttee. for Biochemistry, 1949-54; ex-President, Institution of Chemists (India); Govt. of India delegate to the International Congress of Biochemistry, Brussels (1955); member: Indian Univs. delegation to Moscow Univ. (1954); Council of the National Institute of Sciences of India; Chairman, Biochemical Advisory Cttee. of the Indian Council of Medical Research; Chairman, Chemical Research Cttee. of the Council of Scientific & Industrial Research; Ghose Professor of Applied Chemistry, Calcutta University. *Publications:* Numerous scientific publications on biochemical and nutritional subjects. *Address:* 55/5, Purna Das Road, Calcutta 29.

GUJRAL, Satish, Govt. Diploma in Art (1944), Diploma in Advance Painting, Mexico (1954), Painter. *b.* Dec. 24, 1925; *Educ.:* The Mayo School of Arts, Lahore; J. J. School of Arts, Bombay; Palacio Nacinol de Bellas Artes, Mexico City, and at various art workshops at New York, Paris and London. Served for some time as the Art Executive, Punjab State Govt., and also as Vice-Principal, Govt. School of Arts, Simla; went to Mexico on a Mexican Govt. Fellowship; studied and travelled extensively in central and north America, and in Western Europe, for three years; held one-man-shows in Delhi, Bombay, Mexico City, New York, and London; won Academy Awards, 1956, 1957. Is now engaged on various mural projects with the Govt. of India. *Publications:* Articles on art and culture in Indian and Mexican journals. *Recreations:* Reading. *Clubs:* Delhi Silpi Chakra. *Address:* 33, Hanuman Road, New Delhi-1.

GULABCHAND, Hirachand, Industrialist. *b.* 1896, at Sholapur; *Educ.:* Sholapur, Poona and Bombay. Chairman: The Premier Construction Co. Ltd.; Walchandnagar Industries Ltd.: The Ravalgaon Sugar Farm Ltd.; Walchand & Co. Private Ltd.; Indian Sugar Mills Assoc., 1953-54; Deccan Sugar Factories Assoc., 1942-43, 1947-48 and 1951-52; Deccan Sugar Technologists' Assoc., 1951-52; member: Bombay State Sugarcane Cttee.; Indian Central Sugarcane Cttee.; Development Council for Sugar Industry; Standing Advisory Cttee. on Sugar Standard; Minimum Wages Central Advisory Board; Central Wage Board for the Sugar Industry; visited U.K., the Continent and U.S.A., 1939, 1951 1954 and 1958; sentenced to 18 months' R.I. and fined Rs. 20,000 for breaking the restrictions placed on him during 1932 political movement. *Address:* Construction House, Wittet Road, Ballard Estate, Bombay 1.

GUNDEVIA, Yezdezard Dinshaw, B.A. (Hons.) (Philosophy) (Bom.), I.C.S., Commonwealth Secy., Ministry of External Affairs, Dec. 1960. *b.* June 19, 1908; *Educ.:* Bharda New High School, Bombay; Wilson Coll., Bombay; called to the Bar from Middle Temple, London. Entered the I.C.S., 1931; took over first appointment in the U.P., 1931; held various important posts in U.P., 1931-45; Secy. to Representative of the Govt. of India in Burma, 1945-47; Counsellor in the Embassy of India, Rangoon, 1948; Joint Secy. and Controller-General of Emigration, Ministry of External Affairs, 1948-50; Minister-Counsellor, Moscow, 1950-53; Ambassador Extraordinary and Plenipotentiary for India in Switzerland and also Minister Plenipotentiary and Envoy Extraordinary in Austria and the Holy See, 1953-54; Dy. High Commissioner for India in U.K. with rank of Ambassador, 1954-56; High Commissioner in Ceylon, 1957-60; Special Secy., Ext. Affairs Min., 1960. *Address:* External Affairs Ministry, New Delhi.

GUPTA, Smt. Arati *nee* **Saha,** Swimmer. *b.* 1940 in Calcutta. Had her early swimming lesson in the Hooghly close to her residence. Later joined Hathkhola Club where she was trained by late B. N. Bose; became prominent in local swimming, 1949; was credited with all the state records, 1951; represented India in the Olympic games, 1952; also participated in other sports like dagger play and cycling; passed the School Final Examination, 1957 and joined the Calcutta Univ.; crossed the English Channel as the first Asian girl under the guidance of Dr. Arun Gupta, later husband, 1959. Now serves in the South Eastern Railway. *Address:* C/o Dr. Arun Gupta, 16/1, Tarak Chatterjee Lane, Calcutta 5.

GUPTA, Bhupesh, B.A. (Calcutta), LL.B. (Lond.), Barrister-at-Law, M.P. (Rajya Sabha), Member, National Council and Central Secretariat of the C.P.I. *b.* Oct. 1914; *Educ.:* Calcutta and London Universities, Middle Temple; passed Intermediate and B.A. examinations while in detention without trial in Berhampore Detention Camp, 1933-36. Has been a whole time political worker. *Publications:* A critique of the Second Five Year Plan and of political pamphlets. *Address:* 64A, Lower Circular Road, Calcutta 16; 13D, Feroz Shah Road, New Delhi.

GUPTA, Chandra Bhanu, M.A., LL.B., Politician; Chief Minister, Uttar Pradesh, since Dec. 7, 1960. *b.* July 14, 1902; *Educ.:* Lucknow University. Practised Law, 1925; member: Municipal Board, Lucknow, 1928; Lucknow Improvement Trust, 1937; Board of Intermediate Education, U.P., 1937; Pres., District Congress Cttee., Lucknow, 1929-44; member, Exec. Council, Lucknow Univ., 1929-59; Treasurer, 1946-59; member, All-India Congress Cttee., 1926-59; Treasurer, U.P. Provincial Congress Cttee., 1946-58 (Vice-Pres., 1958); member, U.P. Legislative Assembly, 1937-57; Parliamentary Secy. to Chief Minister, U.P. Govt., 1946; Minister for Food and Civil Supplies, Medical and Public Health, 1947-54; Minister for Food and Civil Supplies, Medical and Public Health, Planning and Industries, 1954-57; Pres., Moti Lall Memorial Society, Nov. 1957; Founder, Bharat Seva Sansthan (for the training of Public workers) under the auspices of Moti Lal Memorial Society, 1957; elected Pres. of the Pradesh Congress Cttee. in Oct. 1960. *Address:* Rajendra Mansion, Pandariba, Lucknow.

GUPTA, Hansraj, M.A., LL.B., Managing Partner, H. G. Gupta & Sons, Managing Agents of Delhi Iron Syndicate (Private) Ltd., Raj Engineering Works (Private) Ltd. *b.* 1905 Director: Raj Electrical Works Private Ltd., Raj Gupt Building Construction Private Ltd., Rohtak & Hissar Distt. Electric Supply Co. Ltd., Hissar, Pratap Bank Ltd., Delhi, Regd. Stock-holders (I & S) Association Ltd., Indian Hardware Industries Ltd., Amrit Vanaspati Co. Ltd., Bharat Kala Kendra Pvt. Ltd., Sterling General Insurance Co. Ltd., Motor & General Finance Ltd., Tilak Insurance Co. Ltd., India Porcelain Ltd., Raj Enamel Works Pvt. Ltd., Lalit Iron House Pvt. Ltd., Central Distillery & Chemical Works Ltd., Hansraj Gupta & Co. (Patiala) Pvt. Ltd., Punjab Pipe Merchants Association Pvt. Ltd., Indian Tube Distributors Pvt. Ltd., Distillers Trading Corpn. Pvt. Ltd.; Director-in-Charge: Rampur Engineering Co. Ltd., Rampur; Delhi Iron & Steel Stockists (C.S.) Assn. Pvt. Ltd., Delhi; member (mg. cttee.), Punjab and Delhi Chamber of Commerce; member, Steel Adv. Cttee., Govt. of India; Pres., All India Iron & Steel Stockholders' Federation, Delhi. *Address:* 20, Barakhamba Road, New Delhi.

GUPTA, Krishna Swaroopa, B.A., D.L.W. (Bombay), M.I.S.E. (Calcutta), F.R.S.A. (London), Director, Bombay Labour Bureau and Editor, *The Management Executive.* *b.* Nov. 8, 1920; *Educ.:* Punjab, Delhi Univs. and Bombay Labour Institute (Bombay Univ.). Joined Indian Army in World War II; invalidated on active service with 19th Indian Division; awarded War Medal and 1939-45 Star; Sub-Divisional Officer, M.E.S.; Statistical Officer, Ministry of Defence, Govt. of India; Welfare Officer, B.R. Cotton Mills Ltd.; Labour & Welfare Officer, Shree Madhusudan Mills; Personnel Officer, Pure Drinks Pvt. Ltd.; Industrial Relations Manager, Sewree Iron & Steel Co.; resolved amicably many major industrial disputes and strikes and contested successfully, on behalf of employers, many industrial matters before conciliation officers, labour Courts, on behalf of employers; founded Industrial Welfare Assocl. (India) and its first Hon. General Secy. for three years; elected its Vice-Pres., 1954: Graduate Member, Institute of Personnel Management, London; elected Life Fellow, Royal Society of Arts, London (1949); organised for the first time 2-Day Efficiency Courses in Labour Management, Company Management in Bombay and convened the 1st All-India Conference of Management Executives, 1955; Hony. Executive Director, Indian Council of Management Executives and Director, G. B. Pant Library on Scientific Management; widely travelled India, South-East Asia, U.K. and the Continent; Free Mason of Lodge "Al-Ameen" No. 1412 S. C., Bombay. *Publications: Welfare Work as a Career, National Directory of Management Executives, Bombay Trade Guide, Delhi Trade Guide, Calcutta Trade Guide, Madras Trade Guide, Bombay Industries Guide.* *Address:* Post Box 2394, Bombay-2.

GUPTA, Maithili Sharan, Hon. D. Litt., Sahitya-Vachaspati, M.P. (Rajya Sabha), Hindi Writer. *b.* Aug. 3, 1886, at Chirgaon, Dist. Jhansi. Ex-Pres., Nagri Pracharini Sabha, Varanasi; ex-member, Hindustani Academy, Allahabad; Pres., Sahityakar Sansad, Allahabad. *Hobbies:* Spinning; *Special Interest:* Promotion of Hindi; *Recreation:* Indoor Games; *Publications:* (Hindi) *Saket; Gurukul; Yashodhara; Dwapar; Siddharaj; Hindoo; Bharat, Bharti; Jayadrath-Vadha; Jhankar; Anagh;*

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Kisan ; Shakuntala ; Vishwa-Vedana ; Kaba Aur Karbala ; Kunal Gît ; Arjan Aur Visarjan ; Vaitalik ; Prithivi-Putra ; Hidimba ; Panchavati ; Ajit ; Anjali Aur Arghya ; Chandrahas ; Mangal Ghat ; Jay Bharat ; Raja Praja ; Bhoomi Bhag ; Vishnu-Priya ; Leela ; Uchwas ; Ratnavali, etc. ; translated "Meghnad Vadh", "Palashi Ka Yuddha", "Virahni Brajangna", "Rubaiyat-i-Omar Khiayam", etc. *Address :* Chirgaon (Jhansi).

GUPTA, RAM Gopal, Member, Rajya Sabha ; Industrialist, of the House of Beharilal Ramcharan of Kanpur. *b.* July 21, 1920. Started to look after his business concerns very early in life ; main business interests: textiles and engineering ; undertook a world-wide tour in 1939–40 and continental tour in 1948–49 ; is associated with several social, cultural and industrial organisations ; Vice-Pres., U.P. Chamber of Commerce ; Rotary Club of Kanpur ; takes keen interest in politics and public life ; elected to Rajya Sabha from Uttar Pradesh, 1960 ; travelled far eastern countries, 1961 ; is concerned and connected with a large number of philanthropic activities. *Recreations :* Music, Sport and Travelling. *Club :* Pres., Rotary Club, Kanpur. *Address :* Behari Niwas, Kanpur.

GURUSWAMI, S., B.A., General Secretary, All-India Railwaymen's Federation. *b.* Sept. 28, 1904 ; *Educ.:* Tiruchirapalli, Madras State. One of the founders of the All-India Railwaymen's Federation, has been connected with Railway Trade Union movement since 1924 ; member, Central Legislative Assembly, 1946-47 ; member, Rajya Sabha, 1952-54 ; Pres., Southern Rly. Employees' Union ; member : Dearness Allowance Merger Cttee., 1952 ; Vice-Chairman, I.L.O. Inland Transport Cttee., Genoa, 1951 ; Workers' Delegate, I.L.O. Inland Transport Cttee., Geneva, 1954 ; visited Europe, Canada, U.S.A., Mexico, China, Burma, Philippines, Thailand, etc. for studying workers' conditions. *Recreations :* Social work. *Address :* Madras 4.

GWALIOR : H.H. The Maharani Vijaya Raje Scindia of : M.P., Social worker. *b.* Oct. 11, 1919 ; *Educ. :* Privately at home and at Besant Coll., Benaras. Devoted to social and child welfare work and female education ; Founder President, Shishu Mandir, a Montessori School for small children and Scindia Kanya Vidyalaya — a residential High School for girls ; was Chairman, M. B. State Advisory Board of the Women's Small Savings Campaign and of the Indian Council of Child Welfare, M. B. Branch ; is Vice-Chairman of its M.P. Branch, was twice elected Vice-Pres., All India Women's Conference and has been all along the President of its Gwalior branch ; elected to the Parliament — Lok Sabha — from Guna-Bhilsa Constituency. *Hobbies :* Reading, Indian Classical Music and Painting. *Address :* Jai Vilas, Gwalior ; Samudra Mahal, Bombay 18.

HADFIELD, Philip, Business man ; Managing Director, East India Distilleries & Sugar Factories Ltd. ; Director : Deccan Sugar Abkari Co. Ltd. ; Bush Products (India) Ltd. ; St. James's Industries. *b.* July 21, 1906 ; *Educ. :* Haileybury Coll. Arrived in Madras, 1927 ; worked with Walker & Co., Ltd., until 1930 ; joined Parry & Co., as General Assistant ; joined the Board, 1950. *Address :* C/o Parry & Company Ltd., Post Box No. 12, Madras 1.

HADJI VASSILIOU, His Excellency Nicolas, LL.B. (Athens), LL.M. (Paris), Ambassador of Greece to India, since Oct. 24, 1957 ; concurrently accredited to Afghanistan, Ceylon, Indonesia, Thailand, Nepal, Malaya and Burma. *b.* 1905 ; Entered the foreign service, 1930 ; held several posts in the Greek missions in Paris, 1936–41 ; Charge d'Affaires to Spain, 1941–46 ; Principal Private Secy. to the Foreign Minister, 1946–47 ; accredited to the Lebanon, Syria, Iraq and Jordan, 1947–50 ; Head of the Division for Economic Affairs at the Foreign Ministry, 1951 ; Permanent Representative to International Organizations in Geneva and to the Council of Europe in Strasbourg, 1952–55 ; participated in or presided over Greek Delegations to practically all international conferences held in Geneva, Strasbourg and Paris, 1952–55 ; presided over various international gatherings in Geneva and the Committee of Ministers of the Council of Europe in Strasbourg at the deputy level ; Ambassador on Special Mission to the twenty Latin-American Republics, 1956. *Address :* Royal Greek Embassy, Ashoka Hotel, New Delhi.

HAJARNAVIS, Ramchandra Martand, B.Sc., LL.B., Deputy Minister for Law, Govt. of India. *b.* Feb. 24, 1908 ; *Educ. :* Patwardhan High School, Nagpur ; Morris Coll., Nagpur & Univ. Coll. of Law, Nagpur. Advocate, Bombay High Court & Supreme Court ; Lecturer in Constitutional Law & Equity, Univ. Coll. of Law, Nagpur (1951-54) ; Head of the Dept. of Studies in Law, Nagpur Univ. (1954) ; Treasurer, Univ. of Nagpur (1956) ; Pres., Bidi Kamgar Sangh (1941-49) ; Chairman, Janata Co-operative Housing Society, since 1956 ; Councillor, Corpn. of Nagpur (1955). *Publications : Law of Agricultural Tenancy & Village Service Lands in the Central Provinces* (1948). *Recreation :* Gardening. *Club :* Gondwana Club, Nagpur. *Address :* 12, Tughlak Lane, New Delhi.

HAKSAR, His Excellency Sundar Narain, M.A., B.Sc., Indian Ambassador in Italy. *b.* Dec. 4, 1909 ; *Educ. :* St. Stephen's Coll., Delhi. Joined the I.C.S., 1933 ; served in various caracities in the Punjab ; transferred to the Indian Foreign Service, 1948 ; Counsellor in Embassy at Cairo, 1948-49 ; Joint Secy., Ministry of External Affairs, 1950-March 1953 ; Minister in Embassy at Washington, Aug. 1953-Sept. 19, 1954 ; Ambassador at Ankara, Nov. 1954-Nov. 1956 ; Indian Ambassador in Afghanistan, 1957-60. *Clubs :* Delhi Gymkhana Club ; National Sports Club of India, New Delhi. *Address :* C/o External Affairs Ministry, New Delhi.

HALDANE, John Burdon Sanderson, M.A. (Oxon.), D.Sc. (Groningen), Dr. (Paris), LL.D (Edin.), Fellow, Royal Society ; Darwin Medal, Royal Society ; Hon. degree of Doctor of Science by Oxford Univ., July 1961, Research Professor, Indian Statistical Institute. *b.* Nov. 5, 1892 ; *Educ. :* Oxford Preparatory School ; Eton Coll., Oxford Univ. Soldier, 1914-19 ; Reader, Cambridge, 1922-32 ; Professor, London, 1933-57 ; has conducted research in biochemistry, genetics, statistics, comparative psychology, etc. ; Corresponding Member : Soviet Academy of Sciences ; Nat. Inst. of Sci., India ; Humboldt Academy (German Democratic Republic) ; Royal Danish Academy of Science, etc. *Editor :* Journal of Genetics. *Publications :* Over 20 books and over 205 scientific papers. *Recreations :* Swimming ; change of work. *Address :* Indian Statistical Institute 203, Barrackpore Trunk Road, Calcutta 35.

HALDULKAR, Ramakant Kesheorao, General Secretary, All India Forward Bloc, since 1955. *b.* Jan. 4, 1916, at Bijakwara Village, M.P. ; *Educ. :* Nagpur ; Hindi Bhashi Sangh High School ; City Coll., Nagpur. Arrested on 11th Nov. 1934 in connection with the Sitabaldi Bomb Case and was released after an undertrial period of 7 months on 4th May 1935 without conviction ; started first Trade Union in coal mine area of Chhindwara Dist., June 9, 1940 ; secured various awards for mine workers ; took active part in the freedom movement and imprisoned on several occasions ; joined the All India Forward Bloc, 1939 ; is Pres., M. P. Mine Workers' Union and various trade unions ; was Vice-Pres., A.I.T.U.C. ; resigned, Aug. 15, 1958 ; elected Pres., A. I. Mineworkers' Federation, 1959 ; Editor and Publisher, *Inquilab* (Weekly), Chhindwara, since Nov. 1958 ; Delegate of Indian working class to World Social Security Conference of the W.F.T.U., Vienna, March 1953. *Address :* General Secretary, All India Forward Bloc, Subhash Ward No. 2, Chhindwara, Madhya Pradesh.

HALUSA, H.E. Mr. Arno, LL.D. (Vienna), Ecole libre des Sciences Politiques, Paris (Diplome), Austrian Ambassador to India and concurrently Minister to Ceylon and Nepal. *Educ. :* Vienna Univ. ; Paris. Held diplomatic assignments in Ankara, New York, Quito, Bucharest, Paris, Lisbon, Bangkok, Phom Penh, Manila, Djkarta. *Address :* Austrian Embassy, New Delhi.

HAMIED, Dr. K. A., B.Sc., M.A., Ph.D. (Berlin), F.C.S., F.S.C.I., F.R.I.C. (Lond.), Member, American Chemical Society, F.I.A.Sc. (Ind.), J.P. ; M.L.C., Maharashtra State ; Hon. Prof., Aligarh Univ. ; *b.* October 31, 1898 ; *Educ. :* Graduated in Science from Allahabad University in 1920. Joined the non-co-operation movement started by Mahatma Gandhi in 1920 and worked in the Congress Volunteer Corps, 1921 ; when Mahatma Gandhi laid the foundation of the National Muslim Univ., Aligarh, joined the staff of the National Muslim University, Aligarh, as Reader in Chemistry ; was inmate of the Sabarmati Ashram during 1922 and all along took an active part in the fight for freedom ; in 1924 when Mahatma Gandhi stopped the non-co-operation movement, he left for Europe for higher studies and joined the Berlin Univ., where he worked under Professors Rosenheim, Nernst, Haber, Spranger and Freundlich ; obtained Doctorate from Berlin Univ., 1927 and stayed several years in Europe for study of chemical and pharmaceutical industry ; settled down in Bombay in January 1931 ; soon established business in chemical and pharmaceutical products ; in 1935 started a public limited company, under the name Chemical, Industrial & Pharmaceutical Laboratories, Ltd., briefly known as "Cipla" which has progressed very rapidly and is the Chairman and Technical Expert of this Company ; under 1935 Constitution, was elected to the Bombay Legislative Council in 1937, as an independent candidate against Mr. Jinnah's Muslim League candidate ; had been member of the Council for over 23 years and always stood by the Congress ; Director of several firms in Bombay ; President, Indian Chemical Manufacturers' Association, 1945-48 and 1949-50 ; Leader of the Indian Chemical Delegation to U.K. and U.S.A., 1945-46 ; Sheriff of Bombay, 1952-53 ; Member : Governing Body of the Council of Scientific & Industrial Research ; Standing Advisory Cttee. for Industries, Bombay ; Cttee. of Indian Chemical Manufacturers' Assocn. ; Chairman, Pharmaceutical & Drugs Research Cttee., Govt. of India ; member, Development Council for Drugs and Pharmaceuticals, Govt. of India ; Maharashtra State Industrial Research Cttee. *Address :* 289, Pellasis Road, Byculla, Bombay 8.

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HANUMANTHAIYA, Kengal, B.A., LL.B., Ex-Chief Minister, Govt. of Mysore. *b.* 1908; *Educ.:* Maharaja's College, Mysore and Law College, Poona; took B.A. degree, 1930 and LL.B., 1932. Pres., Bangalore City Municipal Council, 1942; Secy., 1940-44 and Leader, 1945-49, Congress Party in the Mysore Representative Assembly; was Deputy Leader, Congress Party, Mysore Constituent Assembly, 1948-49; was Pres., Bangalore Dist. Congress Cttee. for 10 years; imprisoned seven times during freedom struggle; member: National Cadet Corps Cttee.; member, Executive Cttee. of the Congress Party in Parliament; represented India at the Inter-Parliamentary Union Conference held at Stockholm, 1949 and at Dublin, 1950; was member, Indian Parliament; was member of the Constituent Assembly of India; Pres., Mysore Pradesh Congress Cttee., 1950–52; Chief Minister, Mysore, March 1952–Sept. 1956; re-elected to Mysore Leg. Assembly, 1957. *Address:* Gollarpet, Bangalore.

HARKIRAT SINGH, Major General, B.A. (Punjab), M.A. (Cantab.); Engineer-in-Chief, Army Headquarters, since April 1960. *b.* April 7, 1911; *Educ.:* Govt. Coll., Lahore; Royal Military Academy, Woolwich; Christ's Coll., Cambridge. Commissioned Feb. 2, 1933; posted to Madras Engineers, 1936; served in Waziristan, 1936-37; in M.E.S. Northern Command, 1938-42; on field service in Assam/Burma, 1943-44; Administrative Commandant, Roorkee, 1945; promoted Lt.-Col. and posted as Commander, Royal Engineers, U.P. Area, Lucknow, 1946; Grade I Staff Officer with H.Q. British Commonwealth Occupation Forces in Japan, 1947; promoted Brigadier and posted as Chief Engineer, Southern Command, Poona, Dec. 1947; Chief Engineer, Western Command, 1950-52; Commander of an Infantry Brigade, 1952-54; Commandant, Coll. of Military Engineering, 1955-56; Promoted Major-General and appointed Director of Electrical and Mechanical Engineering, Jan. 1957. *Clubs:* Delhi Gymkhana Club. *Address:* 4, Janpath, New Delhi.

HARVEY, Marcus Francis Spencer Cronin, Lieut.-Commander, R.N.R. (Retd.), Master Mariner (F.G.). Royal Naval Reserve Decoration (1943), Member of the Hon'ble Company of Master Mariners (1947) and the Institute of Navigation (1948), Fellow, the Royal Geographical Society (1955), Associate, the Royal Institution of Naval Architects (1955), Senior Warden and founder member, Company of Master Mariners of India (1957); Captain Superintendent, Training Ship "DUFFERIN," since 1943. *b.* July 16, 1907; *Educ.:* Wadham House, Hove, Sussex; Nautical Coll., Pangbourne; Merchant Navy (1924-31); Royal Naval Reserve (1927-50); Merchant Navy Training Ships (1932-57). *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana; United Services Club. *Address:* Training Ship "DUFFERIN", Mazagaon Pier, Bombay 10.

HARYOTT, Reginald Arthur, Pharmaceutical Chemist, Chairman & Managing Director, Glaxo Laboratories (India) Private Ltd., since 1958. *b.* Aug. 16, 1907; *Educ.:* Southsea Secondary School, Southsea; Portsmouth Technical College. Joined Glaxo Laboratories Ltd. in India, June 1932; Director, 1937; member, Pharmaceutical Society, Great Britain. *Clubs:* Royal Bombay Yacht Club, Willingdon Club, Bombay; Oriental Club, London. *Address:* E9, Mafatlal Park, Warden Road, Bombay 26.

HASAN, Dr. Hadi, B.A. (Hons.) (Cantab.), Ph.D. (Lond.), Persian Scholar. *b.* Sept. 3, 1894, at Hyderabad-Deccan; *Educ.:* St. Xavier's Coll., Bombay; Emmanuel Coll., Cambridge; School of Oriental Studies, London. Has delivered over 100 Extension Lectures in various Indian Univs.; Hon. Visiting Prof. at Santiniketan; Hon. member, Iranian Academy, Teheran; awarded Certificate of Merit by the Pres. of India, Aug. 15, 1959; awarded Nishan-i-Danish of 1st grade by Iranian Govt., 1955. *Publications:* *Studies in Persian Literature*, 1923; *A History of Persian Navigation*, London, 1928; *Falaki Shirwani*, London, 1928; *Diwan-i-Falaki*, London, 1929; *Unique Diwan of Falaki in Madras*, Islamic Culture, 1950; *Mughal Poetry*, 1952; *Unique Diwan of the Emperor Humayun*, Islamic Culture, 1953; *Kahi, His Life, Times and Works*, 1954; *Diwani-Kahi*, 1955; *Essays in Persian*, 1956; Persian translation of *Shakuntala*, 1956; *Researches in Persian Literature*. *Address:* 'Lalazaar,' Fort Road, Aligarh.

HATHI, Jaisukhlal, Deputy Minister for Irrigation and Power, Govt. of India, since Sept. 12, 1952. *b.* Jan. 19, 1909. Passed Law Exam. while serving as a teacher in Saurashtra High School, Rajkot. Enrolled as Advocate, Bombay High Court; sometime Dist. & Sessions Judge, Rajkot State; elected member, Constituent Assembly, 1946-47; was member Provisional Parliament; appointed *ad hoc* Chief Secy., 1st *ad hoc* Congress Ministry, Saurashtra, Feb. 1948; was Secy. in-charge of the election organisation of the Saurashtra Congress Cttee. in the first general elections; returned to the Rajya Sabha from Saurashtra; served as one of the whips of the Congress Party in the Rajya Sabha; returned to the Lok Sabha in the second general elections; Chairman: Advisory Cttee. on Irrigation, Flood Control and Power Projects, Planning Commission; Chambal Control Board; Vice-Chairman, Bharat Sevak Samaj. *Address:* New Delhi.

HAYATH, Mohammed, B.E., B.S.E.E., M.I.E. Chairman, Central Water & Power Commission, Ministry of Irrigation & Power, Govt. of India, since 1958. *b.* June 7, 1899; *Educ.:* Bangalore & New York (Sihenectady). Joined the Mysore P.W.D., 1923; deputed for foreign training to the U.S.A. by Mysore State, 1927-30 and obtained B.S.E.E. degree, from New York (Schenectady); held executive posts in Mysore Electricity Deptt.; promoted Chief Engineer, 1941; Power Consultant, E.C.A.F.E. at Bangkok, 1951-52; retired from Mysore service, Jan. 1953; rejoined E.C.A.F.E. as Chief of Power Division; Member (Hydro-Electric) of Central Water & Power Commission, 1954-58; has led various technical delegations abroad and was member as some of the delegations sponsored by the Govt. of India. *Clubs:* Delhi Gymkhana Club; Century Club, Bangalore. *Address:* Chairman, Central Water & Power Commission, Bikaner House, Shahjahan Road, New Delhi.

HAZARIKA, Jogendranath, M.A. LL.B. (Calcutta), Parliamentary Secy. to the Minister for External Affairs—Tribal Affairs since Aug. 1952. *b.* Feb. 1924; *Educ.:* M. V. & M. E. Schools, Tengakhat; Govt. H.E. School, Dibrugarh; I. A. at Cotton Coll., Gauhati; B.A. at Ripon Coll., Calcutta, Calcutta Univ. Was Secy., Assam Tribal League Standing Cttee.; was member, Parliamentary Standing Cttee. of Education, and Transport (both for Roads and other than Roads); Ex-Officio Member, Assam Road Transport Communication Board: member, Parliamentary Delimitation Cttee. for Assam; Convener, Assam State Group Cttees. and Tribal Affairs Standing Cttee. of the Congress Party in Parliament. *Publications:* Brochure: *Twenty-five Million Souls of Tribal India and the Constituent Assembly*, 1946. *Club:* Foreign Relations Society, New Delhi. *Address:* Dibrugarh (P.O. Tengakhat); New Delhi.

HEBBAR, Kattingeri Krishna, Padma Shri (1961), Artist. *b.* June 15, 1912; *Educ.:* General Christian High School, Udipi, S. Kanara; Sir J. J. School of Art, Bombay and Academy Julian, Paris. Held one-man shows in India, London, Paris and Switzerland; travelled extensively in Europe, U.S.S.R. and Poland; member, Lalit Kala Akadami, New Delhi; Winner of several important top awards in exhibitions; paintings in several museums and private collections in India, Europe. *Publications:* *Hebbar Drawings and Paintings* (Nalanda Publications, Bombay). *Address:* Sunshine, 81, Cadell Road, Mahim, Bombay 16; Hebbar Lalit Kala Akademi, New Delhi.

HEGDE, Dr. K. K., M.B.B.S., Minister for Health, Mysore, since May 1958. *b.* June 1907 in Kedinje Village, S. Kanara Dist.; *Educ.:* M.B.B.S. from the Madras Medical Coll., 1936. Started private practice in Mangalore, 1939; represented the South Kanara Dist. Board in the Madras Univ. Senate, from 1953; Pres., S. Kanara Dist. Board, 1954-57; elected M.L.A., Mysore, 1957. *Address:* Bangalore.

HEGDE, Mr. Justice Kawdoor Sadananda, M.A., B.L. (Madras), Judge, High Court of Mysore. *b.* June 11, 1909; *Educ.:* St. Aloysius Coll., Mangalore; Presidency Coll., Madras; Law Coll., Madras. Advocate from 1936; Public Prosecutor and Govt. Pleader, Aug. 1947-Sept. 1951; Member of Parliament, April 1952-Aug. 1957; represented India in the United Nations as an alternate delegate, 1954. *Address:* Bangalore 1.

HEJMADI, Vasudev Subrao, B.A. (Hons.) (Bombay), B.A. (Cantab.), I.C.S., Chairman, Union Public Service Commission, since 1955. *b.* Jan. 26, 1900; *Educ.:* Elphinstone Coll., Bombay; Gonville and Caius Coll., Cambridge. Joined the I.C.S., 1923 and worked as sub-Collector and Collector in various districts; Dy. Secy., Development Dept., 1940; Secy., Revenue Dept., Madras, 1943-47; Provincial Textile Commissioner, 1947; Member, Board of Revenue, Madras, dealing at different periods with Civil Supplies, Abolition of Estates and Famine Relief, 1947-53; Adviser, Programme Administration, Planning Commission, New Delhi, Sept. 1953-55; served for a short period as Secy., Planning Commission, 1955; International Commissioner for Bharat Scouts and Guides. *Recreations:* Tennis, Golf, Shooting. *Clubs:* Cosmopolitan Club, Madras; Gymkhana Club, Delhi; Golf Club, Delhi. *Address:* 10, York Road, New Delhi.

HELENIUS, H. E. Mr. Veli Arthur, Bachelor of Law, Commander of the Order of the Lion of Finland (1959), Ambassador Designate of Finland in India. *b.* Oct. 5, 1910; *Educ.:* Univ. of Helsinki. Attache of Legation, Tokyo, 1941-43; Second Secy. of Legation, Tokyo, 1943-45; Secy., of Bureau, Finnish Ministry for Foreign Affairs, 1945-47; Second Secy. of Legation, The Hague, 1947-49; First Secy. of Legation, Ankara, 1949-54; Chief of Bureau, Finnish Ministry for Foreign Affairs, 1954-56; Deputy Director of Commercial Affairs, Finnish Ministry for Foreign Affairs, 1956-58; Consul General and Commercial Representative, Cologne, 1958-61. *Address:* 7, Ratendone Road, New Delhi 11.

HENDRE, Sudhir Laxman, B.A., LL.B., Author, political worker and business man. *b.* April 17, 1920, at Phaltan; *Educ.:* Madhoji High School, Phaltan; Fergusson Coll. and Law Coll., Poona; was not selected in the I.C.S. examination due to his association with political activities in the 1941-42 movements. Managing Director, Amortex Private Ltd.; has other business activities in cotton and silk yarn, cloth, imports and exports; edited the *Ambassador* magazine for one year; contested and lost to Mr. S. A. Dange in the 1957 General Elections from the Bombay City Central Constituency; member, Maharashtra Chamber of Commerce. *Publications:* *India and the Bandung Conference; Decline and Retreat of Democratic Capitalism in India; Draft Programme of the Liberal Democratic Party of India.* *Hobbies:* Reading, writing and travelling. *Clubs:* International Club of India, Bombay. *Address:* Block 52, Warden Court, Gowalia Tank Road, Cumballa Hill, Bombay 26.

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HENSMAN, Smt. Mona, B.A. (Hons.) (Lond.), Regional Officer, U.S. Educational Foundation, Madras, since 1953. *b.* Aug. 25, 1899 : *Educ.* : Bedford High School and Westfield Coll., London ; King's Coll., and Maria Grey Trg. Coll., London, 1924. Languages: Latin, French, Urdu, Hindi, Tamil and English ; member : Senate, Univ. of Madras, since 1930 ; Syndicate and Academic Council, Madras Univ., since 1936 ; Leg. Council, Madras, 1937-52 ; Hon. Pres. Magistrate (J.P.) and Pres., Juvenile Court, since 1930 ; Member : State Library Cttee. ; National Council for Women's Education ; Member, Bharat Sevak Samaj Camp Cttee., Madras ; travelled in Italy, Switzerland, France, the British Isles, Canada, U.S.A., Mexico, China, Ceylon, Pakistan, Burma, Russia and throughout Europe & India ; member, Rajya Sabha, 1952-56 ; Pres., Federation of Univ. Women in India, 1957-59 ; Delegate to the U.N. General Assembly, 1957 ; Principal, Ethiraj Coll. for Women, 1953-60. *Publications* : Articles of current interest. *Recreations* : Music (piano) ; writing ; walking ; reading. *Address* : 12, Victoria Crescent, Madras 8.

HIDAYATULLAH, Mr. Justice M., B.A., (Nagpur), B.A. (Cantab.), Barrister-at-Law, O.B.E. (1946), Judge, Supreme Court of India, since Dec. 1, 1958. *b.* Dec. 17, 1905 ; *Educ.* : Govt. High School, Raipur (1922) ; Phillip's Scholar, Morris Coll., Nagpur (1926) ; Trinity Coll., Cambridge (1927-30), English and Law Tripos, Lincoln's Inn, Bar-at-Law (1930). Advocate, Nagpur High Court (1930-46) ; Advocate-General, Madhya Pradesh (1943-46) ; Puisne Judge (1946) ; member : Nagpur University Executive and Academic Councils Court, etc. (1934-53) ; Dean of the Faculty of Law, 1949-53 ; Chief Commissioner, Madhya Pradesh Bharat Scouts and Guides, 1950-53 ; Vice-Pres., National Council, Bharat Scouts and Guides, 1952 ; awarded the highest award Silver Elephant (1950) ; member, Faculty of Law, Saugor Univ. ; Univ. Court, Vikram Univ. and Aligarh Muslim Univ. (1954) ; Chief Justice, Nagpur High Court, Dec. 3, 1954-Oct. 31, 1956 ; Chief Justice, M.P. High Court, Nov. 1, 1956-Nov. 28, 1958. *Publications* : Miscellaneous papers. *Address* : 2, Teen Murti Marg, New Delhi.

HILALY, H.E. Mr. Agha, M.A. (Madras), B.A. (Cantab.), High Commissioner designate for Pakistan in India. *b.* May 20, 1911 : *Educ.* : Madras and Cambridge. Joined the I.C.S., 1936 ; held responsible appointments in undivided Bengal ; Dy. Secy., Govt. of India, 1947 ; opted for service in Pakistan, Aug. 1947 ; appointed Dy. Secy., Foreign Affairs Commonwealth Relations Ministry, Pakistan ; Jt. Secy., 1951 ; acted as foreign Secy., 1954 ; attended course at Imperial Defence Coll., London, 1955 ; Ambassador to Sweden, Norway and Denmark and Minister to Finland, 1956-59 ; Ambassador to U.S.S.R., 1959-61 ; was concurrently accredited as Minister to Czechoslovak Republic. *Address* : Pakistan High Commission, New Delhi.

HIRAY, Bhaurao *alias* Bhausaheb Sakharam, B.A., LL.B. (First Class), was Minister for Revenue and Agriculture, Bombay, April 1952–Oct. 1956 ; President, Maharashtra Provincial Congress Cttee., 1948-52 ; was member, Congress Working Cttee. *b.* March 1, 1905 ; *Educ.* : Nasik upto Matric ; Baroda upto B.A. ; Poona Law College for LL.B. Began practising at Malegaon, Dist. Nasik ; took to Social and Co-operative activities immediately ; was elected to District Local Board, 1934 and Bombay Provincial Assembly on Congress ticket, 1937 ; was Parliamentary Secy. to Home and Revenue Depts. ; resigned with Congress Ministries ; was convicted for Satyagraha, 1940 and was detained for 15 months, 1942 ; was elected to Central Assembly in 1945 ; was Chairman, Reception Cttee., 56th Session of The Indian National Congress held at Nasik, Sept. 1950 ; is a social worker and Congress worker ; M.L.A., Maharashtra. *Address* : Maskati Court, Queen's Road, Bombay 1.

HOWARD, Jesse C., B.Sc. (Chemical Engg.), Managing Director, Standard-Vacuum Refining Co. of India Ltd., since July 1, 1959. *b.* July 21, 1916 ; *Educ.* : Texas A & M, College Station, Texas. Joined Socony Mobil, 1938 ; joined Standard-Vacuum Oil Co. as Refinery Manager, Altona, Australia Refinery, 1952. *Recreations* : Golf. *Clubs* : Bombay Presidency Golf Club ; American Association of Western India ; Lions Club of Chembur ; Bombay Gymkhana. *Address* : Stanvac Nagar East, Trombay, Bombay.

HUSAIN, Dr. Iqbal, M.A., B.L., Ph.D., Principal, Patna College and Professor and Head of the Dept. of Persian, Patna Univ., since 1944 ; Dean of the Faculty of Arts. *b.* Nov. 22, 1905 ; *Educ.* : Patna and Law Colleges, Patna ; Univ. Prizeman, Gold Medalist and Research Scholar. Was in Bihar and Orissa Educational Service, 1935-59 ; nominated Fellow, Patna Univ., 1943-48 ; Member : Senate, Patna Univ. ; Syndicate, 1954-55 ; Academic Council and Faculties of Arts and Law, Patna Univ. ; examiner up to Ph.D. and D.Litt. of Indian Univs. ; member : Bihar Madrasa Examination Board, 1938-44 and 1952-60 ; Governing Body, Madrasa-i-Shamsul Huda ; Language expert of the Bihar Hindustani Cttee. ; representative of the Patna Univ. to various sessions of the All-India Oriental Conference ; representative of Patna Univ. in the Indian Council of Cultural Relations, Govt. of India ; Governing Body of Govt. Urdu Library ; *Publications* : *Tuhfa-i-Sami* ; *The Early Persian Poets of India* and *Selected Qasidas of Urfi*. *Address* : Warden's House, Ganesh Road, Patna 5.

HUSAIN, H. E. Mr. M. Azim, B.A. (Punjab). B.A. (Oxon.), M.A. (Cantab.), Barrister-at-Law, I.C.S., Ambassador of India to the U.A.R. *b.* Oct. 5, 1913 ; *Educ.* : Punjab and England. Entered I.C.S., 1937 ; held various posts in the State and Central Govts. ; Consul-General for India, San Francisco, 1952-54 ; Jt. Secy. and Director, U.N. Dn. and European Dn., Ministry of External Affairs, 1954-57 ; Dy. High Commissioner for India in the U.K., with the rank of Minister, concurrently accredited as Minister to Ireland and Spain, 1957-60 ; Secy.-General to the Indian Delegation, U.N., 1946 ; attended the Tenth General Conference of UNESCO held at Paris as a member of the Indian Delegation, 1958 ; attended the Commonwealth Prime Ministers Conference, London, 1960 ; Member : Indian Council of World Affairs, New Delhi ; travelled extensively in England, Belgium, France, Holland, Germany, Sweden, Italy, Switzerland, 1932-37 ; Egypt, Turkey, Saudi Arabia, Syria and Lebanon, 1949 ; visited U.S.A., Canada, etc., 1951. *Publications* : *History of Panchayats in the Punjab* (1941) ; *Fazl-i-Husain* : *A Political Biography* (Longman's Green & Co. Ltd., 1946) ; *Address* : C/o External Affairs Ministry, New Delhi.

HUSAIN, Saiyid Ehtesham, M.A. (Urdu), Gold Medallist, Urdu Critic ; Reader in Urdu, Lucknow Univ. *b.* July 11, 1912 ; *Educ.* : Wesley High School, Azamgarh (U.P.) ; Govt. Intermediate Coll., Allahabad ; Allahabad Univ., Allahabad ; took M.A. in Urdu, 1936. Appointed in the Persian and Urdu Deptt., Lucknow Univ., 1938 ; appointed Fellow of the Rockefeller Foundation (U.S.A.) to study 'Sociology & Literary Criticism' in U.S.A. & Europe, Sept. 1952—July 1953 ; member, Sahitya Akademi and Hindustani Academy. *Publications* : *Viraney* ; *Tanqidi Jaeze* ; *Rawayet Aur Baghawat* ; *Adab Aur Samaj* ; *Tanqid Aur Amali Tanqid* ; *Zauq-E-Adab Aur Shaoor* ; *Sahil aur Samundar* ; *Urdu Sahitya Ka Itihas* ; *Urdu Ki Kahani* : *Hindustani Lisaniyat Ka Khaka*, *Tangidi Nazariat* ; Translated the Japanese classic *Tale of Genji* by Lady Murasali and *Kalki* by Dr. S. Radhakrishnan in Urdu. *Club* : University Staff Club, Lucknow. *Address* : Lucknow.

HUSAIN, Dr. Syed Abid, M.A., Ph.D., Padma Bhushan (1957), Urdu writer ; Sahitya Salahkar, A.I.R. *b.* 1896 ; *Educ.* : Univs. of Allahabad, Oxford and Berlin. Professor of Philosophy and Literature, Jamia Millia (National Muslim Univ.), Delhi, 1926-56 ; member : Hindustani Talimi Sangh (National Board of Education), 1938-48 ; Official Language Commission, 1955-56. *Publications* : *The Way of Gandhi and Nehru* ; *National Culture of India* ; *What is General Education* ; translated into Urdu a number of literary and philosophical works from German and English including Kant's *Critique of Pure Reason*, Goethe's *Faust and Wilhelm Meister*, Plato's Dialogue, Shaw's *St. John* and most of the writings of Gandhi and Nehru. *Recreations* : Taking long walks. *Address* : Jamia Nagar, New Delhi.

HUSAIN, Dr. Zakir, M.A., Ph.D. (Berlin), D.Litt. honoris causa (Delhi, Calcutta, Allahabad & Aligarh), Padma Vibhushan (1954), Governor of Bihar, since July 6, 1957. *b.* Feb. 8, 1897, at Hyderabad-Deccan ; *Educ.* : Islamia High School, Etawah (U.P.) ; M.A.O. Coll., Aligarh ; Univ. of Berlin. Vice-Chancellor, Jamia Millia, Delhi (1926-48) ; Pres., Hindustani Talimi Sangh, Sevagram, 1938-50 ; Vice-Chancellor, Aligarh Muslim Univ. (1948-56) ; Chairman : International Students Service, India Cttee. till 1955 ; World Univ. Service, Geneva, 1955-57 ; Central Board of Secondary Education till 1957 ; Basic National Education Cttee., 1937 ; Member : Univ. Grants Commission, till June 1957 ; Rajya Sabha, till 1957 ; Exec. Board, UNESCO, Paris, 1956-58 ; Univ. Educ. Commission, 1948-49 ; Indian Press Commission ; Educational Reorganization Cttees. of Bihar, U.P. & M.P. ; Patel Memorial Lectures on Principles of Educational Reconstruction in India (1958) ; Mavalankar Memorial Lecture on Ethics and the State (1960). *Publications* : *Shiksha* (Hindi) ; *Capitalism* : *An essay in Understanding* ; translation into Urdu of Plato's *Republic*, Fr. List's *National System of Economics*, Edwin Cannan's *Elements of Economics* ; Lectures on the scope and method of Economics (Hindustani Academy, U.P.) ; *Educational Discourses* (Urdu). *Hobby* : Gardening. *Favourite pastime* : Reading. *Address* : Jamianagar, New Delhi ; Raj Bhavan, Patna (Bihar).

HYDERABAD : Nawab Mir Osman Ali Khan Bahadur Nizam-ud-Daula, Nizam-ul-Mulk, Asaf Jah, Nizam of. *b.* April 6, 1886 ; *Educ.* : Privately. Ascended the *gadi*, August 29, 1911 ; is entitled to a salute of 21 guns ; was Rajpramukh of Hyderabad till its disappearance as a State in Nov. 1956. *Address*: Hyderabad.

IBRAHIM, Hafiz Mohd., B.A., LL.B., Minister for Irrigation and Power, Govt. of India, since April 1958. *b.* 1889 ; *Educ.* : Aligarh Muslim Univ. ; Univ. of Allahabad. Practised as an Advocate at Nagina, Bijnor and Moradabad for over 21 years ; elected member, U.P. Leg. Council, 1926 and joined Swaraj Party ; since then continued to be member, U.P. Legislature ; worked for the organisation of Muslim Waqfs of U.P. ; opposed the White Paper proposal, 1934 ; appointed Minister in the first Congress Cabinet of U.P., 1937 ; resigned from the Ministership, on the decision of the Congress Working Cttee., Nov. 1939 ; sentenced to one year, 1940-41 ; detained, Aug. 1942 ; has fought vehemently for Hindu Muslim unity and accord ; one of the main founders, Muslim Majlis, 1943 ; convened All India Muslim

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Conference under the presidentship of Maulana Azad at Lucknow, which called upon the Muslims of the country to give up communal politics, 1947; Minister for Finance, Power, Industries, Irrigation, Public Works, Forests and Co-operation Deptts., U.P., 1937–39 and then 1946–April 1958; is member, A.I.C.C., Working Cttee., Central Parliamentary Board and U.P. Congress Cttee. *Address:* 4, Maulana Azad Road, New Delhi.

IMAM, Mr. Justice Syed Jafer, B.A., LL.B. (Cantab.), Bar-at-Law, Judge, Supreme Court of India, since Jan. 10, 1955. *b.* April 18, 1900; *Educ.:* Lynams Preparatory School, Oxford; Malvern Public School, England; Trinity Coll., Cambridge Univ.; called to the Bar, Middle Temple, Jan. 26, 1922. Enrolled as Advocate, Patna High Court, March 1922; Asstt. Govt. Advocate, 1932-39; Advocate-General, Bihar, 1942-43; Judge, Patna High Court, 1943-53; Chief Justice, Patna High Court, Sept. 3, 1953-Jan. 9, 1955. *Clubs:* Bankipore Club, Patna; Boat House Club, Naini Tal, U.P. *Address:* No. 8, York Road, New Delhi.

INDORE: Major-General H. H. Maharajadhiraj Raj Rajeshwar Sawai Shree Yeshwant Rao Holkar Bahadur, G.C.I.E. (1935), LL.D., Maharaja of. *b.* Sept. 6, 1908; *Heir: d.* (by Gazette Extraordinary, 1950), Usha Raje Holkar, *b.* 1933; *Educ.:* England, 1920-23; Christ Church, Oxford, 1926-29. Succeeded to the *gadi*, 1926; assumed full ruling powers, 1930; has a salute of 21 guns within his territories and 19 outside; invited delegate to the Round Table Conference, 1931; was Senior Up-Rajpramukh of the Madhya Bharat State, till its merger in M.P. in Nov. 1956. *Recreations:* Tennis and Shikar. *Address:* Indore.

ISAACS, Edward Walter, M.I.M.E., M.I.L.E., Hony. Major (1946), Burma Star, 1939-45, Star & War Medal, Member, Engineering, Railway Board, since April 1960. *b.* Dec. 8, 1905; *Educ.:* Bishop Cotton School, Simla Maclagan Engineering Coll., Lahore. Joined the Indian Rly. service, 1928; Commissioned to Defence of India Corps, 1942; Incharge of munitions production and No. 1 CMU, 1942-44; Power Officer in Chittagong forward area, 1944 & 1945; promoted to Junior Administrative rank, 1948. Attached to Assam Rly., on Special duty on Indian Railways, 1950; Chief Mechanical Engineer, Chittaranjan Locomotive Works, 1953-57; Additional Member, Railway Board, 1957-60. *Publications:* Report on derailments. *Recreations:* Golf, photography. *Clubs:* Delhi Gymkhana Club, Delhi Golf Club. *Address:* 19, Safdarjang Road, New Delhi.

ISVARAN, Manjeri Sundararaman, Writer in English (Free Lance). *b.* June 16, 1910; *Educ.:* B.A. from Presidency Coll., Madras, 1929. A literary journalist and creative and critical writer, since 1931; has been Asstt. Associate, and Deputy Editor of *Triveni*, now a Quarterly from Masulipatam; member on its Advisory Board; Literary Editor, *Swatantra*, June 1953-Sept. 1955. Secy., National Book Trust, India, New Delhi. *Publications:* English: (Poetry) *Saffron and Gold* and other Poems (1932); *Altar of Flowers* (1934); *Catguts* (1940); *Brief Orisons* (1941); *Penumbra* (1942); *Song of the Gipsymaiden* (Translation of an old Tamil poem) (1945); *The Fourth Avatar* (1946); *Oblivion* (1950); *Rhapsody in Red* (1954); *The Neem is A Lady* and other poems (1957); Criticism: *Venkataramani—Writer and Thinker* (1932); Drama: *Yama and Yami* (1948); Fiction: (Short Stories): *Naked Shingles* (1941); *Angry Dust* (1944); *Siva Ratri* (1943); *Rickshawallah* (1946); *Fancy Tales* (1947); *No Anklebells for Her* (1949); *Immersion* (1951); *Painted Tigers* (1956): *A Madras Admiral* (1958); In Tamil: *Kolu* (1944); *Singari* (1946). *Address:* "Vasuprada", No. 2/3, Nageswaraier Road, Nungambakkam, Madras 6.

IYA, Dr. Krishnaswamy Kilara, Ph.D. (Wisconsin), A.I.I.Sc., I.D.D. (Hons.), Director, National Dairy Research Institute, Karnal. since Jan. 30, 1957. *b.* June 26, 1920. *Educ.:* St. Xavier's Coll., Bombay; Univ. of Wisconsin. Organised bacteriological research laboratories, supervised research programmes on important bacteriological aspects of milk and milk products handling; Founder-member and Vice-Pres., Indian Dairy Science Assoc.; member, Dairy Science Cttee. and other Scientific Cttees., I.C.A.R., I.C.A.E., I.S.I.; Editor, 'Indian Journal of Dairy Science'; Rotarian; Govt. delegate, F.A.O. Conference on Hydrogen Peroxide, Interlaken, Switzerland, Sept. 1957; member, W.H.O. Expert Advisory Panel on Environmental Sanitation. *Publications:* Over 40 Scientific papers and 15 popular articles. *Address:* Director, National Dairy Research Institute, Karnal (Punjab).

IYENGAR, K. R. Srinivasa, M.A., D.Litt., University Professor of English, Andhra Univ., Waltair, since June 1947. *b.* April 17, 1908; *Educ.:* Hindu College, Tirunelveli; St. Xavier's College, Palamcottah. Taught in Ceylon (1928-31); Professor of English, Lingaraj College, Belgaum (1933-44); Vice-Principal, Basaveshvar College, Bagalkot (1944-47); toured U.K. on the invitation of the British Council, 1951; represented India at the Unesco Symposium at Tokyo, Sept. 1957; Visiting Prof., Leeds Univ., 1959. *Publications:* *Lytton Strachey: A Critical Study*, 1938; *Indo-Anglian Literature*, 1943; *Literature and Authorship in India*, 1943; *Sri Aurobindo*, 1945; *The Indian Contribution to English Literature*, 1946; *A New Deal for Our Universities; The Mind and Heart of Britain*, 1955, and other books; contributes articles and reviews to leading Periodicals and Newspapers. *Recreations:* Walking. *Address:* *Residence:* University Campus, Uplands, Waltair; *Vacation Address:* "Aravind", Kodakanallur P.O., Tirunelveli District.

IYER, Annakkavur Sesha Ekambara, Principal, Central Industrial Extension Training Institute for Officers, Small Scale Industries, Ministry of Commerce & Industry, since October 1960. *b.* March 12, 1909; *Educ.:* Bangalore. as in-charge of the Volunteers' Organization of the Indian National Congress at Lahore, trained the Nucleus of the Red Shirts in Peshawar and Rawalpindi, Oct. and Nov. 1939; joined the 'Indian Daily Mail' as Reporter, 1932; was Political Correspondent, 'Bombay Chronicle'; Public Relations Officer, Bombay Govt., 1938-44; Secy., All India Handloom Board and Deputy Textile Commissioner, 1952-56; Mg. Dir., National Small Industries Corpn., New Delhi, 1956-59; Development Commissioner, Small-scale Industries, Ministry of Commerce and Industry, New Delhi, 1959-60. *Address:* Flat No. 1 (D-I Type), Diplomatic Enclave, New Delhi.

IYER, Mr. Justice Arni Ramaswami Somnath, B.A., LL.B., Judge, High Court of Mysore, since July 11, 1957. *b.* Dec. 30, 1907; *Educ.:* Central Coll., Bangalore; Law Coll., Poona. Enrolled as an Advocate, Feb. 3, 1930; also Advocate, Supreme Court; Advocate General, 1950-53. *Address:* 'Annapurna', High Grounds, Bangalore 1.

IYER, Sangeetha Kalanidhi Musiri Subrahmania, Carnatic Musician; Principal, Central Coll. of Karnataka Music, Madras. *b.* 1899 in Musiri, Tiruchi Dist.; *Educ.:* Took initiation in Carnatic music from the late Vidwan Sabesa Iyer. Settled in Madras, 1919; recorded a dozen songs, 1932; is an authority on Thyagaraja compositions; has a distinct style and originality of his own, popularly known as the "Musiri style"; acted the title role in the film 'Tukaram'; Pres., annual conference of the Madras Music Academy, 1939; won the President's award for the best Carnatic musician (vocal) for 1957; is a leading exponent of the Karnata Sampradaya Sangeetha in India and one of the prominent living masters of Sasthreeya Sangeetha in South India. *Address:* 18, Oliver Road, Mylapore, Madras.

IYER, Mr. Justice Subrahmanya Ramachandra, B.A., B.L., Offg. Chief Justice, High Court, Madras. *b.* Oct. 1, 1904; *Educ.:* Pachiappa's Coll., Madras; Law Coll., Madras. Enrolled as advocate, Madras High Court, Aug. 1927; practised on the appellate and original sides of that Court and in the various District courts; enrolled as Advocate, Supreme Court, Jan. 1951; Judge, Madras High Court, 1958-61. *Address:* 5, North Mada Street, Mylapore, Madras 4.

IYER, Tiruvarur Pichu Iyer Subrahmanyam, M.A. (Madras), Registrar, University of Delhi, since 1947. *b.* March 6, 1900; *Educ.:* Govt. High School, Tiruvarur; Presidency Coll., Madras. Was temporarily employed in Govt. Offices and Indian Bank Ltd., Madras, till 1924; joined Delhi Univ. as Personal Asstt. to the first Vice-Chancellor, late Sir Hari Singh Gour; Asstt. Registrar till 1947. *Publications:* Some articles in Journals and Magazines. *Recreations:* Tennis; Badminton. *Club:* University Club, Delhi. *Address:* University Buildings, Delhi 6.

JADHAV, Mrs. Mary Clubwala, A.T.C.L., Padma Shri (Jan. 26, 1955), M.L.C., J.P., Social Worker. *b.* June 10, 1908, at Wellington, Nilgiris; *Educ.:* Nazareth Convent, Ootacamund. Vice-Pres., Discharged Prisoners' Aid Society; Madras Branch of the All India Women's Conference; Meals for Million Foundations in India; was Chief Commissioner, Guides (India); ex-Vice-Pres., Indian Conference of Social Work; is Hon. Gen. Secy., Indian Conference of Social Work; first woman Sheriff of Madras, 1957; Hon. Secy. and Treasurer, Guild of Service; Founder and Hon. Secy., Madras School of Social Work; Hon. Secy.: Seva Samaj Boys and Girls Homes; Indian Hospitality Cttee. (Armed Forces Welfare); member: Permanent Cttee. of the International Conference of Social Work; After Care Cttee. of the Central Social Welfare Board, etc.; is connected with about 150 organizations; travelled widely in India, U.S.A., Canada, Australia, Thailand, Burma, Japan, Greece, Finland, Sweden, etc.; has attended many international conferences like International Conference of Red Cross held in India, 1959, etc.; member, Working Group on Social Welfare, 3rd Five Year Plan; Chairman, Sub-Group on Correctional Welfare. *Publications:* Several articles on organizations and persons in India and abroad in connection with Children's work. *Clubs:* Ladies' Recreation Club; Madras Gymkhana Club; Madras Boat Club; Madras Cricket Club; Delhi Gymkhana Club, Delhi. *Address:* "Philroy", Nungabakkam High Road, Chetpet, Madras 31.

JAFRI, Ali Sardar, B.A., Urdu Poet; Editor, Hindustani Book Trust, Bombay. *b.* Nov. 29, 1913; *Educ.:* Muslim Univ., Aligarh; Anglo-Arabic Coll., Delhi; Lucknow Univ.; passed B.A., 1938. Started literary career as a story writer; changed to poetry and criticism, 1936; expelled from Aligarh Univ. for taking part in a political strike, 1936; Founder-member, Progressive Writers' Assoc. a foremost literary movement in modern Urdu; imprisoned for anti-war activities in Lucknow, 1940; now works in films as a writer; represented India in various literary and cultural conferences in Europe and U.S.S.R. *Publications:* Five volumes of poetry; one volume of literary criticism; edited 1 any volumes of Urdu classics in Hindi and Urdu; selected poems and stories translated into Russian, Czech, Polish, Uzbek, English and several Indian languages. *Address:* Arab Building, Khetwadi Main Road, Bombay 4.

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JAGANNATHAN, K. V., M.A., Vidwan, Vagheesa Kalanidi, Sentamil Selvar, Tamil Kavi Bhushanam, Tamil Essayist; Editor, *Kalaimagal. b.* April 13, 1906; *Educ.:* Kulitalai and Madras. Member; Sahitya Akademi, Tamil Research Council, Tamil Academy and Gandhi Works Publishing Sangh. *Publications:* Eight Volumes of short stories in Tamil; several volumes of literary essays and research, a collection of poems, altogether 106 books in Tamil. *Recreations:* Bhajan. *Address:* Kaanta Malai, Kalyananagar, Madras 28.

JAGDEESH, Prasad, C.E. (Hons.), M. I. E., M. I. T. E., Managing Director, Indian Telephone Industries Ltd., since July 1953. *b.* March 19, 1908; *Educ.:* Lahore and Roorkee. Joined the Telegraph Engineering Service, April 1933; worked in different capacities in the Posts & Telegraphs Deptt.; in 1952 represented India at the Plenipotentiary Conference of the International Telecommunication Union held at Buenos Aires; Pres.: Mysore State Industries Sports Assen.; Mysore Industries Fine Arts Society; Mysore State Amateur Athletic Assen. *Clubs:* National Sports Club of India; Rotary Club of Bangalore; Bangalore Club; Duravani Nagar Club. *Address:* Managing Director, Indian Telephone Industries Private Ltd., Duravani Nagar, Bangalore. *Residence:* No. 1, Central Avenue (ITI Township), Duravani Nagar Bangalore 16.

JAGDISH SAHAI, Mr. Justice, M.A., LL.B., Judge, High Court, Allahabad, since May 6, 1957. *b.* May 19, 1909; *Educ.:* Theosophical National School; Benares Hindu Univ., Banaras; B.A. in 1929; LL.B. in 1931 and M.A. in 1932 from the Allahabad Univ. Started practice in Shahjahanpur, 1933; shifted practice to Allahabad High Court, Dec. 1945. *Address:* High Court, Allahabad.

JAIN, Ajit Prasad, M.A., LL.B., ex-M.P., President, Uttar Pradesh Congress Cttee., since May 14, 1961; Chairman, U.P. Police Commission and U.P. Agricultural University. Ex-Minister for Food and Agriculture, Govt. of India; Advocate. *b.* 1902; *Educ.:* Lucknow University. Took part in all Civil Disobedience movements from 1930 onwards; M.L.A. (U.P.), 1937-48; Parliamentary Secretary, 1937-39; Member: Constituent Assembly of India, 1946-50; A.I.C.C. for a long time; Member, Zamindari Abolition Cttee., U.P., Special Recruitment Board for I.A.S., I.P.S., etc.; Minister for Rehabilitation, Govt. of India; Minister for Food & Agriculture, Govt. of India, Dec. 1954-Aug. 1959 when he resigned. *Publications:* U.P. Tenancy Act (Commentary on) and miscellaneous contributions to several publications on agrarian and land problems. *Address:* 5, Ratimarg, New Delhi.

JAIN, Jaichand, M.A., General Manager, Bennett, Coleman & Co., Ltd., since March 1950; Sheriff of Bombay, 1957-58. *b.* Oct. 20, 1911; *Educ.:* Hindu Coll., Delhi; Govt. Coll., Lahore. Represented Western India Life Ins. Co., Ltd. of Satara as Chief Agent & Branch Manager for Punjab, 1935-42; Dalmia Cement Ltd., Oct. 1942-May 1944; General Manager, Bharat Insurance Co., Ltd., June 1944-March 1950; Pres.: All India Federation of Master Printers, 1953; Audit Bureau of Circulations Ltd., 1953; Pres., Indian and Eastern Newspaper Society, 1954-55; Chairman, Press Trust of India, 1957-58; Pres.: Natya Sangh, Bombay; Bombay Table Tennis Assoc.; Bombay Provincial Hockey Assoc. *Publications:* Research thesis—post-Ranjit Singh period. *Recreations:* Indoor games; Travel. *Clubs:* Chelmsford Club & Roshanara Club, Delhi; National Sports Club, C.C.I., Radio Club, Orient Club, Rotary Club, Willingdon Sports Club, Bombay Gymkhana and Turf Club, Bombay. *Address:* 81-A, Anita, Mt. Pleasant Road, Bombay 6.

JAIN, Jinender Kumar, Partner, Girilal & Co., Bombay, doing import, export business and the sole distributors for the States of Maharashtra, Gujarat and Madhya Pradesh of bicycles manufactured by the Hindusthan Vehicles Ltd., Patna; Director, Western India Hardware Industries Private Ltd., Bombay 2. *b.* July 10, 1933; *Educ.:* Delhi (B.A. Hons.), Bombay (LL.B.) and New York (Master of Business Administration). Has travelled extensively in the United States, the United Kingdom and the Continent; was a delegate to the United Nations non-Governmental Organisations' Conferences held in Bombay and Colombo, 1954 and 1956 respectively; has always been a leader among the students; was General Secy., Govt. Law Coll. Union, Bombay; Pres., India Students' Assoc. of America, New York, for 1958. *Address:* Girilal & Co., 480, Kalbadevi Road, Bombay 2; 4251, West Irwing Park Road, Chicago 41, Illinois, U.S.A.

JAIN, Kranti Kumar, Business man, banker, landlord and writer. *b.* March 21, 1931, at Delhi; *Educ.:* graduated from Bihar Univ. Is partner, Girilal & Co., Bombay 2, doing import and export business and representing various other prominent Indian manufacturers, and also sole distributors of Hindusthan Vehicles Ltd., Patna, for the States of Gujarat, Maharashtra and Madhya Pradesh; entered business at an early age; occupies a prominent place in the bicycle trade; is a keen student of economics and current politics; has travelled widely. *Publications:* has contributed original articles to various leading newspapers, bicycle and other journals. *Recreations:* Reading, photography and indoor games. *Address:* Girilal & Co., 480, Kalbadevi Road, Bombay 2.

JAIN, Narendra Kumar, B.A., Business man; Ex-District Scout Commissioner, Dehra Dun. *b.* July 19, 1923; *Educ.:* Muzaffarnagar, Deoband, Meerut; graduated from Agra Univ., 1943. After schooling went to Udaipur (Rajasthan), continued Congress work; during coll. life organised students' Congress; participated in national struggle and arrested in 1942 movement; Pres., All India Jain Youth; State Councillor, U.P. Hindustan Scouts Assocs.; took up mineral work and formed several joint stock companies like Mineral Traders Ltd., Veer Sahitya Mandir Ltd., Disposals (India) Ltd., etc.; settled at Dehra Dun, 1946 and served there as Hony. Secy., Relief and Rehabilitation Cttee. formed by the Govt.; formed Bharat Construction Syndicate Ltd. for colonising Vijayalaxminagar, Doon Commercial Corporation Ltd.; edited an All India Arms & Ammunition Dealers Directory, the 1st of its kind; has been Hony. Secy., Crime Prevention Society; Chairman, Youth Service Cttee.; Hony. Jail Visitor; Hony. Distt. Probation Officer; General Secy., Bharati; Hony. Secy.: Dist. Red Cross Branch; Dist. Rifle Club, Dehra Dun; on the executive of many local educational institutions; Founder, Youth Welfare Council, a world organisation; Chairman, Doon Udyog (P) Ltd.; Prop., Narendra & Co. *Publications: History of Scouting* besides some Jain Publications. *Clubs:* Rotary Club; Bharti, etc. *Address:* Hanuman Chowk, Dehra Dun, U.P.

JAIN, Sahu Shriyans Prasad, Industrialist; ex-M.P. (Rajya Sabha), 1952-58. *b.* 1908 in the Sahu family of Najibabad—(Ganesh Sadan), renowned for its traditional liberality and public service; has rendered invaluable services to the people of his town and district; has given large sums in charity and takes keen interest in all matters of social reform and public enlightenment; has done pioneering work in the field of girls' education. Seva Samitis and public libraries for the welfare of his district in particular and the State in general; President, Education Committee of the District Board, Bijnor; and Vice-Chairman, Municipal Board, Najibabad, for many years; has outstanding executive ability and a knack for big business; Chairman: Dhrangadhra Chemical Works Ltd.; The New Great Eastern Spg. & Wvg. Co. Ltd.; Director: The New Kaiser-i-Hind Spg. & Wvg. Co. Ltd.; The Raymond Woollen Mills Ltd.; Carona Sahu Co. (Pvt.) Ltd.; The Dawn Mills Co., Ltd.; Podar Mills Ltd.; Bennett, Coleman & Co., Ltd.; Assoc. of Indian Trade and Industry; Radio Lamp Works Ltd.; The New Swadeshi Mills of Ahmedabad Ltd.; The Amitabh Textile Mills Ltd.; Sahu Rubbers Private Ltd.; Director: Gopal Investors Corpn. Pvt. Ltd.; The Premier Construction Co., Ltd.; The Indian Express Newspaper Bombay Ltd.; Loksatta (Bombay) Pvt. Ltd.; The Indian News Service Ltd.; The Gwalior Rayon Silk Manufacturing (Wvg.) Co., Ltd.; President, Alkali Manufacturers Association of India, Bombay, 1961; Cttee. member: Indian Merchants' Chamber, Bombay; Vice-Pres., Federation of Indian Chambers of Commerce & Industry, New Delhi, 1961; Millowners' Association, Bombay; member: Indian Industrial Delegation to the U.S.A., the U.K. and the Continent, sponsored by F.I.C.C.I., 1957; member, Bombay Telephone Advisory Cttee.; Trustee, Bombay Hospital Trust; a leading figure in the Jain Community; patronizes a number of important institutions and reform schemes; specially interested in giving the community and the country its first full-length documentary films of ancient Jain Art and Architecture; ex-President, All-India Digamber Jain Parishad, Delhi. *Address:* "Shikharkunj," 29-A, Carmichael Road, Cumballa Hill, Bombay.

JAIN, Shanti Prasad, B.Sc., Industrialist. *b.* 1912 at Najibabad, Dt. Bijnor, U.P.; *Educ.:* Benares Hindu Univ. and Agra Univ. Has two decades of close association with and knowledge of working and management of important industries like Cement, Sugar, Paper, Coal, Chemicals, Fertiliser, Vanaspati, Asbestos Cement Sheets, Cycles, and controls a chain of such industries situated in Bihar, under the managing agency of Sahu Jain Ltd., and Jute Mills in West Bengal; a keen student of Economics and Finance and deeply interested in statistical studies; strives for and believes in all-round industrial development through Indian enterprise for improvement in the people's standard of living; visited the Dutch East Indies (1936), Australia (1945) and U.S.S.R. (1954) as member, Indian Trade and Industrial Delegations; also visited the European countries, U.S.A., Canada, Japan, Norway, Sweden, etc.; associated with various Govt. Advisory Bodies and Industrial Organisations; President, Bihar Industries Assoc., Patna; Vice-Pres., Indian Chamber of Commerce, Calcutta; Ex-Pres.: Federation of Indian Chambers of Commerce and Industry, New Delhi; All-India Organisation of Industrial Employers, New Delhi; Indian Sugar Mills Assoc., Calcutta; Indian Paper Mills

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Assoc., Calcutta; Rajasthan Chamber of Commerce & Industry, Jaipur; Eastern U.P. Chamber of Commerce & Industry, Allahabad; Employers' Association, Calcutta; Chairman and Director: Sahu Jain Ltd., Rohtas Industries Ltd., Hindusthan Vehicles Ltd., Ashoka Cement Ltd., Bennett, Coleman & Co. Ltd., The Jaipur Udyog Ltd.; and Director: National Industrial Development Corporation Ltd., New Delhi; Founder, Bharatiya Jnan Peeth (Academy), Benares. *Address*: 11, Clive Row, Calcutta.

JAIN, Takhatmal (*See under* **Jalori, Takhatmal**).

JALAN, Iswar Das, M.A., B.L., Attorney-at-Law, Minister for Law, Panchayats and Local Self-Govt., West Bengal, since 1952. *b.* 1895; *Educ.*: Muzaffarpur and Calcutta. Solicitor; Councillor, Calcutta Corporation, 1927–30; member: Bengal Legislative Assembly, 1938–47; West Bengal Legislative Assembly, since 1947; Speaker, West Bengal Legislative Assembly, 1947–52. *Address*: 47, Zakaria Street, Calcutta 7.

JALAN, Nandkishore, Business man and Industrialist. *b.* March 8, 1921; *Educ.*: Privately. Entered business at the early age of 18; Partner, Soorajmull Nagarmull; has been connected with management of oil, export, cotton mills, jute mills and gas departments of Soorajmull Nagarmull, as also the Bengal Jute Mill Co., Ltd., Moon Mills Ltd., the Elphinstone Spg. & Wvg. Mills Co., Ltd., and the Bombay Gas Co., Ltd.; is responsible for starting production in India of gas lamps till then imported; Trustee, Howrah Improvement Trust; co-opted several times as a Cttee. Member of the Indian Chamber of Commerce, Calcutta; Bengal National Chamber of Commerce & Industry, Calcutta, Indian Central Jute Cttee., and East India Jute & Hessian Exchange Ltd.; Director: Bombay Gas Co., Ltd.; J. K. Chemicals Ltd.; Ganges Mfg. Co. Ltd.; Bengal Jute Mill Co. Ltd. etc.; President: Bengal Rowing Club; Life-member, Indian Red Cross Society. *Address*: Soorajmull Nagarmull, 8, Dalhousie Square (East), Calcutta 1.

JALORI, Takhatmal, M.L.A. (M.P.); Ex-General Secy., Indian National Congress, 1958–60. *b.* 1895, at Basoda. Practised at the State Bar, 1913-43; member, Working Cttee., Gwalior State Congress, 1939; Convener, first meeting of Public Workers of Gwalior State, which resulted in the formation of State Congress; the first non-official Minister for Rural Welfare and Local Self-Govt., Gwalior State; resigned, 1942; again appointed Minister as Congress nominee, 1947; Founder, Trustee; Chairman or Vice-Chairman of several educational institutions; was Finance Minister in the Responsible Govt. in Gwalior State, 1948 and later in Madhya Bharat State, 1948; Chairman: Transport Nationalisation Cttee., Madhya Bharat, 1949; Harijan Disabilities Enquiry Cttee.; Chief Minister, M.B., 1950-52 and April 1955-Oct. 1956; Pres., Madhya Bharat P.C.C., 1953; Chairman: M.B. Land Reforms Cttee., 1954; Cttee. for the removal of disparity of pay scales of Govt. employees, M.B. Govt., 1954; Commerce, Industries & Agriculture Minister, M.P., Nov. 1, 1956–Aug. 1958. *Address*: Madhoganj, Vidisha (M.P.).

JAMBUNATHAN, M. R., Tamil writer. *b.* Aug. 23, 1896; *Educ.*: Madras. Editor of Vedas and Upanishads in Tamil; Short Story Writer, biographer, translator, indologist, and research worker. *Publications*: *Life and Teachings of Mazzini*; *A. B. C. of Vedas*; Translation of *Sama, Yajur and Atharva Vedas*. *Clubs*: All-India P.E.N. Centre. *Address*: Radha Niwas, 375, First Road, Khar, Bombay-52.

JAMMU and KASHMIR, Yuvaraj Karan Singhji, M.A., Sadar-i-Riyasat of. *b.* March 9, 1931, at Cannes, France; *Educ.*: Senior Cambridge at Doon School, Dehra Dun, 1945; Graduation from Jammu and Kashmir Univ., 1951; M.A. (Political Science) from Delhi Univ., 1957; First Class First. Chancellor, Jammu and Kashmir Univ.; Pro-Chancellor, Banaras Hindu Univ.; took over as Regent, June 20, 1949; elected first Sadar-i-Riyasat (Head of the State), by the Legislative Assembly and recognised as such by the President, Nov. 17, 1952; re-elected Sadar-i-Riyasat a second time, Nov. 6, 1957. *Recreations*: Indian Classical Music; prolific reading particularly Political Science and Philosophy; Tennis, Chess. *Address*: The Palace, Srinagar (Jammu and Kashmir State).

JAMSHEDJI, Jal, Managing Director, Noble Paint & Varnish Co. Private Ltd. *b.* March 24, 1911; *Educ.*: Elphinstone Coll.; obtained technical training at Victoria Jubilee Technical Institute, Bombay, 1933. Founded Noble Paint & Varnish Co., one of the leading paint factories in India; has been responsible for the quick growth of his paint concern; celebrated the silver Jubilee of his paint concern in 1959; also manufactures "Hammerlac" and "Polychromatic" Enamels and Plastic Emulsion Paints; is a keen sportsman and a member of Lodge Blackwell. *Address*: Noble Paint & Varnish Co. Private Ltd., Fergusson Road, Lower Parel, Bombay 13.

JASDANWALA, Akbarali Amiji, B.A. (Philosophy) (Hons.), M.A. (History & Economics), LL.B., Dy. Minister for Lands, Accommodation & Fisheries, Gujarat State, since May 1, 1960. *b.* 1910; *Educ.*: Alfred High School, Rajkot; B.A. with Philosophy (Hons.) from Fergusson Coll., Poona, 1931; M.A. (History & Economics), Bombay Univ., 1934; LL.B. from Law Coll., Poona, 1933. Was in Jasdan State Service, 1934-36; started independent practice at Rajkot, 1936; joined the Indian National Congress; was elected member of the Constituent Assembly of Saurashtra from the Jasdan Constituency, 1948; elected to the Bombay Leg. Assembly from the same constituency, 1957; is keenly interested in social work specially in rural areas; is also a Gujarati poet. *Address*: Bungalow No. 13, Shahibaug, Ahmedabad.

JATTI, B. D., B.A., LL.B., Chief Minister, Mysore State, since May 16, 1958. *b.* Sept. 10, 1912, at Savalgi, Jamkhandi Taluka, Bijapur Dist.; *Educ.*: Matriculated from the Bijapur Govt. High School; graduated from Rajaram Coll., Kolhapur; LL.B. Degree from Sykes Law Coll., Kolhapur, 1940. Practised as a pleader at Jamkhandi for five years; elected member, Jamkhandi State Legislature; was appointed Minister, Jamkhandi State under the diarchy Govt.; became its Chief Minister; reverted to legal practice on the State merging with Bombay State, March 8, 1948; nominated M.L.A., Bombay to represent the merged areas; appointed Parliamentary Secy. to Mr. B. G. Kher, then Chief Minister of Bombay; appointed Dy. Minister for Health and Labour, Bombay, after the 1952 General Elections; became M.L.A., Mysore after the reorganisation of States; appointed Chairman, Land Reforms Cttee.; was Secy., Praja Parishat of the former Jamkhandi State and also member, Karnatak Prantiya Congress Cttee.'s Council. *Address*: Bangalore.

JAYKRISHNA Harivallabhdas, Millowner and business man: Pres., Ahmedabad Millowners' Assoc., 1956-57; 1960-61 *b.* Oct. 31, 1919; *Educ.*: Calcutta and Ahmedabad. Joined his father's business early in life, 1936; got extensive training under the guidance of his father; on the demise of his father, took over management of two textile Mills, Shri Ambica Mills Ltd. and Shri Jagdish Mills Ltd.; was responsible for expanding the units; is also connected with various other business and industrial concerns; Director: New India Industries Ltd.; Vulcan Insurance Co., Ltd.; The Standard Mills Co., Ltd.; Anil Starch Products Ltd.; Baroda Rayon Corpn. Ltd.; The Central Bank of India, Ltd., etc.; member: Textile Trade Marks Advisory Committee; Indian Cotton Mills Federation; takes keen interest in several social and cultural activities and connected with various educational institutions; elected, M.L.A., Bombay from Ahmedabad City on Congress ticket in the General Elections, 1952; made liberal donations of about Rs. 20,00,000 on behalf of him and the concerns managed by him, to Ahmedabad Education Society, Gujarat Univ. and other similar institutions; has made extensive tour of foreign countries to acquaint himself with industrial development there; visited Japan twice; has been to Egypt, England, the Continent and the U.S.A., 1946, '49, '51, '55, '57, '59 and '60; attended the I.L.O. Conference at Geneva as Employers' Representative on behalf of the Govt. of India; appointed Chairman of the proposed Fertiliser Factory to be established by the Gujarat Govt. in the Public Sector with the capital of Rs. 30 crores; Pres., Gujarat Chamber of Commerce, 1961–62; member: Advisory Board of the Industries Development of Gujarat State; Western India Automobile Assoc. *Clubs*: Rotary Club of Ahmedabad; Cricket Club of India; Willingdon Sports Club. *Address*: Shahibag, Ahmedabad 4.

JEHANGIR, Sir Cowasji (Bart.), M.A. (Cantab.), G.B.E. (1944), K.C.I.E. (1927), C.I.E. (1920), O.B.E. (1918). *b.* Feb. 16, 1879; *Educ.*: St. Xavier's Coll., Bombay, and St. John's Coll., Cambridge. Pres., Bombay Municipal Corporation, 1919-20; member of the Legislative Council; member, Executive Council, Govt. of Bombay, 1921-22 and 1923-28; elected member, Legislative Assembly for the City of Bombay, 1930–47; delegate, World Economic Conference, 1933; delegate to the R.T.Cs., 1930, 1931, 1932; delegate, Empire Parliamentary Conference, London, 1935, representing the Central Legislature; elected Pres. of the Parsi Punchayat; Chairman, Bank of India, Ltd., and a Director of the Tata Iron & Steel Co., Ltd., Tata Locomotive & Engineering Co., Ltd., The Bombay-Burmah Trading Corporation Ltd., and several other companies; succeeded to the Baronetcy on July 26, 1934. *Club*: Marlborough and St. James', London; Asiatic, Ripon, Orient, Willingdon, Bombay. *Address*: Readymoney House, Malabar Hill, Bombay.

JERATH, Harbanslal, B.A., M.S.P., F.R.E.S. (Lon.), Dip. Fr. (London), Chairman, Blackwood Hodge (India) Pvt. Ltd., Calcutta. *b.* July 29, 1899, at Hoshiarpur. Joined Indian Postal Service, 1st Dec. 1919; attended International Postal Conferences from 1939 onwards at Buenos Aires, Switzerland, England, Brussels, etc., as plenipotentiary delegate and/or leader; retired as Director General, Posts & Telegraphs, India; is Chairman, Cummins Diesel Sales & Service and Euclid Wagon Hirers (I) Private Ltd., Calcutta; Director: Gladstone Lyall & Co., Calcutta; Bradma of India, Bombay; Lipton

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(India) Limited, London. *Clubs :* Delhi Gymkhana Club Ltd. (member, Committee). *Address :* Jerath House, 5, Ratendone Road, New Delhi.

JHA, Bhola Nath, M.A., I.C.S., C.I.E. (1946), Secretary, Ministry of Home Affairs, Govt. of India, since Jan. 15, 1958. *b.* Feb. 1902 ; *Educ. :* Muir Central Coll. and the Univ. of Allahabad. Passed I.C.S., 1924 ; I.C.S. probationer at Exeter Coll., Oxford, 1924-26 ; Assistant, Joint, and District Magistrate in U.P. Districts, 1926-36 ; Secy., U.P. Board of Revenue, 1937-38 ; served as Deputy Secy., Agriculture, Industries and Revenue ; Secy. and Development Commissioner, U.P. Govt., 1939-March 1947 ; Chief Secy., March 1947-June 1949 ; Senior Adviser, Rajasthan, 1949-51 ; Chief Secy., U.P., 1951-53 ; Secy., Ministry of Communications, Govt. of India, March 1953-Jan. 1958. *Recreations :* Tennis ; Hockey ; Football ; Riding. *Address :* Secretary, Ministry of Home Affairs, New Delhi.

JHA, Binodanand, Chief Minister, Bihar, since Feb. 18, 1961. *b.* 1900 ; *Educ. :* Calcutta. Entered freedom movement, 1917 ; jailed five times during his political activities ; elected Commissioner, Deoghar Municipality ; elected M.L.A., Bihar, 1936 ; Parliamentary Secy., 1937-39 ; Minister, for L.S.G. and Public Health, Bihar, 1946 ; presided over the Agricultural Engineering Cttee. and Unemployment Enquiry Cttee. ; Leader, Indian delegation to the 44th Session of the I.L.O., 1960 ; nominated member, All-India National Integration Cttee. ; Revenue Minister, Bihar till he was elected leader of the Bihar Legislature Congress Party, Feb. 8, 1961 ; has been taking active interest in trade union movement. *Address :* Patna.

JHA, Chandra Shekhar, O.B.E., I.C.S., Permanent Representative for India in the U.N. since Jan. 1959 ; Chairman, Cttee. on Contributions, U.N., May 1961. *b.* 1909 ; *Educ. :* Patna Univ., School of Oriental Studies, London. Joined the I.C.S., 1933 ; served in Bihar and Orissa, 1936-46 ; Dy. Secy., Govt. of India, Commonwealth Relations Deptt., March 1946-May 1947 ; appointed Jt. Secy., Ministry of External Affairs, May 1947 ; Charge d' Affaires, Embassy of India, Ankara, 1950-51 ; appointed Ambassador of India to Turkey, Oct. 1951 ; member, Indian Delegations to the U.N. General Assembly, 1946-49 ; Jt. Secy., Ministry of External Affairs, May 1954 ; member, Indian Delegation to the Asian-African Conference in Bandung, 1955 ; and the first Suez Conference in London, 1956 ; Ambassador of India to Japan, May 1957-Jan. 1959 ; elected Vice-Pres., U.N. Human Rights Commission, Feb. 1960 ; Chairman, Governing Council, U.N. Special Fund, 1960-61. *Recreations :* Golf, Tennis. *Address :* New India House 3, East 64th Street, New York 21.

JHA, Lakshmi Kant, B.A. (Cantab.), I.C.S., M.B.E. (1946), Secretary, Deptt. of Economic Affairs, Ministry of Finance, Govt. of India, since June 1960. *b.* Nov. 22, 1913 ; *Educ. :* Hindu Univ., Banaras and Trinity College, Cambridge. Deputy Secy., Govt. of India, Supply Department, 1942-46 ; Delegate, U.N. Maritime Conference ; Delegate, Economic Commission for Asia and Far East, Sixth Session, Bangkok, and Seventh Session, Lahore ; Chief Controller of Imports and Exports, 1947-50 ; Chairman of the Contracting Parties to the General Agreement on Tariffs and Trade, 1957-58 ; Chairman, U.N. Interim Cttee. for Co-ordination of International Commodity Arrangements since 1959 ; Joint Secy., Ministry of Commerce and Industry, 1950-56 ; Secy., Ministry of Heavy Industries, 1956-57 ; Addl. Secy., Ministry of Commerce & Industry, Govt. of India, 1957-60. *Publications : India's Foreign Trade*, Parts I & II. *Clubs :* Delhi Gymkhana and Oxford and Cambridge University Clubs, London. *Address :* 36, Aurangzeb Road, New Delhi.

JHALA, Harshadray Ishverlal, M.D. (Bombay), F.C.P.S. (Bom.), D.T.M. (Cal.). Director, Haffkine Institute, Bombay, since 1957. *b.* Jan. 13, 1919 ; *Educ. :* Baroda High School ; B. J. Medical School, Ahmedabad ; Madras Medical Coll. ; School of Tropical Medicine, Calcutta ; Grant Medical Coll., Bombay ; M.D. (Bom.), 1947 ; F.C.P.S. (Bom.), 1945 ; D.T.M. (Cal.), 1941. Started as tutor in Bacteriology, B. J. Medical School, Ahmedabad, 1941 ; Clinical Pathologist, Grant Medical Coll., 1944 ; Asstt. Prof. of Pathology, 1946 ; Professor of Pathology : B. J. Medical Coll., Ahmedabad, 1948-51 ; Grant Medical Coll., Bombay, 1951-57. *Publications :* Several contributions in scientific journals. *Address :* Haffkine Institute, Bombay 12.

JHAVERI, Mansukhlal Maganlal, M.A., Gujarati Poet and Critic ; Principal, Navyug Arts & Commerce Coll., Porbandar. *b.* Oct. 3, 1907, at Jamnagar, Halar Dist. ; *Educ.:* Nawanagar High School, Jamnagar ; St. Xavier's Coll., Bombay ; Samaldas Coll., Bhavnagar. Fellow, Univ. of Bombay, since 1949 ; Member, A.C., since 1954 ; Member, Board of studies in Gujarati of the Univs. of Bombay, Poona, S.N.D.T., Baroda and Gujarat ; Secy., Gujarati Section, Oriental Conference, Bombay Session ; P.E.N. ; Pres., Saurashtra Lekhak Milan, Rajkot Session ; member : Advisory Board, for Gujarati and Gen. Council, Sahitya Akademi, New Delhi ; Producer, Spoken Word-Gujarati, All India Radio, Bombay. *Publications :* Poems ; *Chandrahoot ; Phool-Dol ; Aradhana ; Abhisar Anubhooti ; Kavyasushama ;* Criticism : *Thoda Vivechan Lekho Paryeshna ;* Literary History : *Gujarat, Sahitya-nun Rekha Darshan ;* Translations : *Abhijnana Sakuntala* from Sanskrit. *Recreations :* Walking and Reading. *Address :* Ratikunj, Porbandar.

JIGAR, Ali Sikander, (Muradabadi), D.Litt. (Hony.), Aligarh (1960), Urdu Poet. *b.* 1890, at Banaras ; *Educ. :* Privately. Specialises in Ghazals i.e. sweet drowsy, Languorous songs of love, innocence ; awarded Rs. 5,000 by the Sahitya Academy of India for his work "Aatashe Gul", Feb. 1959. *Publications.* Three collections of poems—*Daghe Jigar*, published from Azamgarh ; *Sholae Toor*, published by Maktaba Jamia, Delhi and also from Lahore ; *Aatshe Gul*, published from Pakistan, 1959. *Address :* Near City Post Office, Gonda, U.P.

JOHN, Michael, Pres., I.N.T.U.C., M.P. *b.* Nov. 29, 1903, at Vepery, Madras ; *Educ. :* Dufton Coll., Madras. Joined Tinplate Co. of India Ltd., 1920 ; formed Golmuri Tinplate Workers' Union and became its Secretary, 1928 ; took part in 9-months strike of G.T.W.U., 1929 which gave him opportunity to come in contact with the National leaders ; courted imprisonment for political and trade union activities, 1941, 1942-45 ; organised the workers in the industrial centres, coal areas and mines in Bihar, Bengal and Orissa along with late Prof. Abdul Bari ; became Pres. of over 56 Unions in the areas mainly of Iron & Steel and mines ; Pres. Indian National Trade Union Congress, 1952, 1960 and 1961 and of its Bihar and Orissa branches since inception and since 1959-60 respectively ; nominated by the Central and State Governments to represent the workers on several public bodies, Official Joint councils and committees and corporations ; elected delegate to the I.L.O. conferences, 1948, 1950, 1951 and 1954 at Geneva and Istanbul ; Executive Member, International Confederation of Free Trade Unions—Asian Regional Organisation, Metal Workers' Federation, Geneva ; Vice-Pres. : International Mineworkers' Federation, London, Indian National Iron & Steel Workers' Federation, Indian National Mineworkers' Federation ; Member : Bihar Legislative Assembly, 1946-52 ; Rajya Sabha ; National Productive Council ; Central Advisory Council of Industries ; Dir. : Hindustan Steel Ltd. ; Hindustan Shipyard Ltd. *Address :* 27, K. Road, Jamshedpur, Bihar.

JOHNSON, George Arthur, B.A. (Oxon.), Editor, *The Statesman*. *b.* Oct. 31, 1903 ; *Educ. :* Christ's Hospital ; B.A. from St. Edmund Hall, Oxford. *Clubs :* Bengal ; Oriental ; Authors. *Address :* C/o The Statesman Ltd., Calcutta and New Delhi.

JOHNSON, Leslie James, M.A. (Punjab), Chief Administrator, Dandakaranya Project, Koraput, since 1959. *b.* Sept., 8, 1914 ; *Educ. :* St. Fidelis' School, St. George's Coll., Mussoorie, U.P. ; Govt. Coll., Lahore. Joined the I.C.S., Sept. 8, 1939 ; did I.C.S. probation at New Coll., Oxford ; Asstt. Commissioner, Benaras, 1939 ; Jt. Magistrate, Agra, 1940-42 ; Asstt. Commissioner and Jt. Magistrate, Ranikhet, 1942-45 ; Town Rationing Officer and A.D.M., Kanpur, 1945, 1947 ; Regional Food Controller, 1947-48 ; Dt. Magistrate, Banda, 1948-50 ; Director of Civil Supplies, Delhi, 1950-52 ; Chief Secretary, Delhi State, 1952-54 ; Dy. Secy., Ministry of Rehabilitation, 1954-55 ; Chief Settlement Commissioner, Govt. of India, 1955-59. *Recreations :* Shikar, Music, Photography. *Clubs :* Delhi Gymkhana Club. *Address :* Koraput (Orissa).

JONES, Wilson Lionel Garton, leading Billiards Player, since 1950. *b.* May 2, 1922 ; *Educ. :* Bishop's High School and St. Vincent's High School, Poona. Munition Factory, Kirkee, 1939-46 ; Mazagon Docks, Bombay, 1947-50 ; National Billiards Champion of India, 1950-52 ; National Snooker Champion of India, 1948 & '52. Billiard Champion of India, 1954, '55 & '57 ; Snooker, 1958 ; won the World Amateur Billiard title at Calcutta, Dec. 1958 ; first Indian to win the title ; Indian Representative for Billiards World Championship, 1951-52 ; National Billiards & Snooker Champion, 1960 ; National Billiards Champion, 1961. *Clubs :* Vissanji Sports Club ; Persian Club ; Mazagon Docks Sports Club. *Address :* No. 2, Wallace Flour Mills Co., Ltd., Sleater Road, Bombay.

JOSEPH, Mr. Justice T. Kuruvila, B.A., B.L., Judge, High Court of Kerala, since Nov. 1, 1956. *b.* June 25, 1904 ; *Educ. :* C. M. S. High School and Coll., Kottayam ; Maharaja's Coll. and the Law Coll., Trivandrum. Started practice in the District Court of Kottayam, 1928 ; joined the High Court Bar, 1940 ; Judge, Travancore-Cochin High Court, July 1953-Oct. 31, 1956. *Address :* Banerji Road, Ernakulam.

JOSHI, Amar Chand, D.Sc., F.N.I., Vice-Chancellor, Punjab University, since July 1, 1957. *b.* Sept. 18, 1908. *Educ.:* Lahore. Professor of Botany, Banaras Hindu Univ., 1931-45 ; Prof. of Botany, Govt. Coll., Lahore, 1945-47 ; Prof. of Botany, Govt. Coll., Hoshiarpur, 1947-51 ; Principal, Govt. Training Coll. for Teachers, Jullundur, 1951-53 ; Director of Public Instruction and Secy. to the Govt., Punjab, 1953-57 ; Vice-Chancellor, Kurukshetra Univ., 1956-March 1959. *Address :* Vice-Chancellor, Punjab University, Chandigarh.

JOSHI, Deokrishna Jatashankar, G.D. Art (Bombay), Painter ; Principal, Kala Maha Vidyalaya, Indore, M.P. *b.* July 7, 1911 ; *Educ. :* School of Art, Indore ; took G.D. Art (Bom.), 1933. Held One Man Shows at Bombay Art Society, Bombay, 1947, 1949 and 1950 ; a collection of his paintings kept at the National Akadami, New Delhi, Hyderabad Museum, Jabalpur Museum and Madhya Bharat Kalavirhika, Gwalior ; exhibited paintings at the Artists Aid Fund Exhibition at Switzerland ; won several prizes at exhibitions namely H.E. the Governor's Gold Medal for the best exhibit at the Academy of Fine Arts, Calcutta, 1955—56 ; Patel Trophy of the Art Society of India, Bombay, 1957, and several others. *Publications :* Cover page of his artistic paintings in the *Illustrated Weekly of India*, 1949, '51, '52, '53, '55 ; one painting entitled

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'Evening Scene at Maheshwar' in the *Times of India Annual*; his painting entitled 'Homeward Bound' published in *Roop Lekha* by India Fine Arts and Crafts Society, New Delhi, and others; awarded gold medal for Kalidas Samaroh at Ujjain, 1959. *Address*: 81, Snehlata Ganj, Indore, M.P.

JOSHI, Gaurishanker Goverdhanram, B.A. (Literature) (Bom.), Gujarati short story writer and novelist. *b.* Dec. 12, 1892; *Educ.*: Bilkha (Anandashram), Jetpur, Porbander and Junagadh (Bahauddin Coll.); B.A., 1919. Gave up service in the then Gondal State Rly. and took up writing and teaching in Ahmedabad; published the first volume of short stories—*Tankha*, 1925; since then about a hundred books covering almost all forms of literature—short story—novel, historical & Social — travel — biography — autobiography —adult education Series—drama—poetical prose—etc. have been published; *Chauladevi* and *Amrapali* are some of the important historical novels; works translated into various Indian languages and English; writes under the pen-name 'Dhumketu'; member, Sahitya Akademi Advisory Board, New Delhi. *Address*: "Karnawati-Nivas", 23, Saurashtra Society, Anandnagar, Ahmedabad-7.

JOSHI, Puran Chandra, M.A., LL.B., Communist Leader; Journalist. *b.* April 14, 1908; *Educ.*: Allahabad Univ. Joined the Communist Party of India as a student, Dec. 1928; arrested in Meerut Conspiracy case, 1929 and convicted for five years; member, Central Cttee. and General Secy., 1934-47: again in the Central Cttee. since Palghat Congress of the C.P.I., 1956; is member, Secretariat of the National Council of the C.P.I.; Editor, *New Age*, weekly organ of C.P.I. *Publications*: *Communist Reply to Working Committee*; 1857 *Rebellion*, and numerous pamphlets published by the Communist Party. *Recreations*: Folk Cultural Activities. *Address*: 7/4, Asaf Ali Road, New Delhi.

JOSHI, Ramchandra Bhikaji, M.A. (Bom.), Kavyatirtha, J.P., Marathi Writer; Professor of English, Siddharth Coll. of Commerce & Economics, Bombay. *b.* June 26, 1903; *Educ.*: Holkar Coll., Indore; Allahabad Univ., Univ. of Bombay Kavyatirtha (in Sanskrit Poetry and Drama), 1926. Started writing in 1932-33; has since contributed short stories, essays, travelogues, articles on literary problems, reviews and criticisms to leading literary journals in Marathi; has written on Marathi literature for English journals also; contributed a paper on "Marathi Short Story" at the Third All-India Writers' Conference held at Annamalainagar in April 1954; member, P.E.N., All India Centre. *Publications*: Two volumes of original short stories in Marathi, two volumes of stories translated from Urdu; two volumes of Travelogues in Marathi; one novel translated from Urdu. *Recreations*: Reading, Travelling, Photography. *Address*: Shalwala Building No. 1, Cadell Road, Bombay 28.

JOSHI, Umashankar Jethalal, M.A., Gujarati Writer; Editor, *Sanskriti* (Culture), Gujarati monthly, 1947; Dir. Univ. School of Gujarati Language and Literature, Gujarat Univ., 1954. *b.* July 21, 1911; *Educ.*: Bamna; Idar High School; Gujarat Coll.; Elphinstone Coll., M.A. First Class. Teacher 2 years; Lecturer, one year; Post-graduate Teacher, Research Institute, Gujarat Vidya Sabha, Ahmedabad (1939-46); member: Sahitya Akademi, General Council and Exec. Board; visited China, Indonesia, Malaya and Ceylon, 1952; visited the U.S.A. and U.K. as a member, Govt. of India Team to study General Education, 1956; attended the 29th World P.E.N. Congress, Japan, 1957. *Publications*: Poetry: *Vishva Shanti*; *Gangotri*; *Nisheeth*; *Gul-e-Poland* (Tr.); *Prachina*; *Atithya*; *Vasant-Varsha*; One Act Plays: *Sapna Bhara*: *Shaheed*; Short Stories: *Shravani Melo*; *Visamo*; Novel: *Parkan Janyan*; Essays: *Goshthi*; *Ughadi Bari*; Criticism: *Sama-Samvedan*; *Akho a Study*; *Abhiruchi*; Research: *Gujarat in the Puranas*; Translations: *Uttar-Ramacharita*, *Sakuntala*. *Address*: 'Setu', 12, Sardar Patel Nagar, Ahmedabad 6.

KABIR, Humayun, M.A. (Cal.), M.A. (Oxon.), Univ. Gold Medals, Prizes, etc. (1926 & 1928), State Scholar (1927), Exeter College Foundation Prize (1931), Minister of Scientific Research and Cultural Affairs, Government of India, since April 1958; formerly Educational Adviser to the Govt. of India; Ex-Chairman, Univ. Grants Commission; Editor: *Chaturanga*; Presidency Coll. Magazine, Calcutta; *Bharat*, Oxford. *b.* Feb. 22, 1906; Secy., Oxford Union Society; Pres., Jowett Society, Oxford, Leader, Peasants Party, Bengal Leg. Council; Pres., All-India Students Congress: Pres., Indian Council of Cultural Relations, 1958; Pres.: All India Education Conference, 1955; Pres., Indian Philosophical Congress; Consultant to the Fund for the Advancement of Education, New York; Minister of Civil Aviation, 1957-58. *Publications*: *Swapna-Sadh* (in Bengali); *Poems* (Basil Blackwell), *Kant on Philosophy in General*; *Immanuel Kant* (in Bengali); *Dharabahik* (in Bengali); *Poetry Monads and Society*; *Sarat Chandra Chatterjee*; *Muslim Politics*, 1906-42; *Mahatma and other Poems*; *Banglar Kavya* (in Bengali); *Men and Rivers*; *The Indian Heritage*; *Three Stories*; *Of Cabbages & Kings*; *Marx Vad*, 1948; *Nadi-O-Naree*, 1950; *Science, Democracy and Islam*, *Education in New India*, etc. (Several works translated into European languages). *Address*: New Delhi.

KACHHWAHA, Anand Singh, M.L.A. (Rajasthan). *b.* Bhadrapada Krishna 30, Samvat 1971V. Managing Partner, The Gotan Lime Syndicate, Gotan, and Chemical Limes, Marwar-Mundwa (Rajasthan) N. Rly.; Managing Director: Anand Theatres Ltd., Jodhpur; Dayanand Vidyamandir, Jodhpur; Sarpanch, Mandore Gram Panchayat, 1952–58; Pres.: Jodhpur Dist. Congress Cttee., 1956-57; Rotary Club, Jodhpur, 1955-56; Jodhpur Citizen's Cttee. since 1956; Jodhpur Film Distributors and Exhibitors' Assoc.; Rajasthan Lime Mfrs.' Assoc. since 1960; Rajasthan Picharavarg Sangh since 1957; Vice-Pres.: Rajasthan Chamber of Commerce & Industry, 1960–61; Marwar Chamber of Commerce, Jodhpur, 1955; Jodhpur Children's Welfare Council; Executive Member: Rajasthan State Panchayat Raj Sangh, Jaipur; Air Force Higher Secondary School; member: Rajasthan State Mining Advisory Board; Rajasthan State Labour Advisory Board; Rajasthan State Small Scale Industries & Handicrafts Board; Rajasthan State Central Advisory Cttee. for Low and Middle Income Group Housing Scheme; Rajasthan State Informal Consultative Development Cttee.; Commonwealth Parliamentary Assen., Rajasthan State Advisory Council for Handicapped; Indian Delegation to the Afro-Asian Conf. at Canakary, West Africa, headed by Smt. Rameshwari Nehru, 1960; Northern Railway Zonal Users' Consultative Cttee.; Rajasthan Building Stones Advisory Council; Rajasthan State Co-operative Advisory Council; Indian Standards Institution (Lime), New Delhi; Rajasthan Provincial Congress Cttee, 1958–59; Divisional Vice-Pres., Rajasthan State Bharat Scouts & Guides, Jaipur; visited many African and European countries, April 1960; played leading part in reducing Rajasthan Govt.'s entertainment tax on exhibitors, 1960; also played an eminent role to get the services of 3,000 strikers of Northern Railway condoned by the Railway Authorities, 1956. *Address*: 20, Fort Road, Jodhpur.

KAIRON, S. Partap Singh, M.A. (Michigan), Chief Minister, Punjab, since Nov. 1, 1956; of old Punjab, Jan. 23 to Nov. 1, 1956. *b.* 1901, in Kairon village, Amritsar; *Educ.*: Khalsa Coll., Amritsar; graduated from Michigan Univ. Actively associated with the Ghaddar Party working for India's liberation from foreign rule; joined Congress, 1930; sentenced to five years' imprisonment in 1932 C. D. Movement; elected M.L.A., Punjab, 1936; re-elected 1946; led the Kisan agitation, 1938; elected to the Indian Constituent Assembly, 1946; Minister in the Bhargava Cabinet, 1947-48; took drastic steps to eradicate corruption; General Secy., Punjab P.C.C., 1939-46; elected Pres., P.P.C.C., 1950-52; re-elected M.L.A., Punjab, 1952; again 1957; courted jail during the individual satyagraha and Quit India movements, 1942-45; member, Congress Working Cttee., 1946-53; Development Minister, Sachar Cabinet, April 1952—Jan. '56. *Address*: Chandigarh, Punjab.

KAJROLKER, Narayan Sadoba, Harijan leader and public worker. *b.* 9th July 1896. Is interested in the uplift of the Depressed and Backward Classes; General Secretary and Trustee, the Depressed Classes Mission Society of India; member, Harijan Sevak Sangh, Central Board, Delhi; Pres., Provincial Board of Bombay; Pres. and Trustee, Rohidas (Chambhar) Samaj; President: Anand Vihar Housing Society; Producers' Co-operative Society; Butter Manufacturers' Association; Pres., Bharatiya Depressed Classes League; Member of Parliament, 1952–57; Central Harijan Board, Home Ministry; member, Panel for Leather and Leather Goods, Commerce Ministry. *Address*: 112, Medows Street, Bombay.

KALELKAR, Acharya Kakasaheb, B.A. (Bombay), M.P. (Rajya Sabha). *b.* Dec. 1, 1885; *Educ.*: Fergusson Coll., Poona. Educationist; Vice-Chancellor and Principal, Gujarat Vidyapith, 1928-34; Edited Mahatma Gandhi's Weeklies & Magazines; worked for the spread of Hindi throughout India; Pres., Hindustani Talimi Sangh (Basic Education till 1957), Hindustani Prachar Sabha till 1959; Chairman, Backward Classes Commn. appointed by the President of India, 1953–55; was one of the Vice-Pres., Indian Council of Cultural Relations, New Delhi; Gomant Bharati, Bombay; Balkanji-Bari, Bombay; Pres.: Gandhi Hindustani Sahitya Sabha, New Delhi. *Publications*: Author of about 30 books in Gujarati, Marathi and Hindi—some books being translated into English and many Indian languages. At present editing *Mangal Prabhat* —a Hindi Weekly. *Address*: Sannidhi, Rajghat, New Delhi.

KAMALADEVI, Shrimati, Political and Social Worker; Chairman, All-India Handicrafts Board, Vice-Chairman, Sangeet Natak Akademi; Chairman, Govt. of India's Cttee. for Financial Assistance for Higher Education. *b.* 1903; *Educ.*: Passed Senior Cambridge, 1919; Bedford Coll., London and the London School of Economics. Joined Congress; elected to A.I.C.C., 1927; was Organising Secy., All-India Women's Conference; has been mainly responsible for building up the Women's Organisation and giving it a shape; imprisoned in connection with the freedom struggle, 1930, 1942, etc.; has travelled extensively in India, visited Europe, Asia, Africa and once gone round the World; has on different occasions represented her country at International Conferences; was Pres., All-India Women's Conference; founded the Indian Co-operative Union and set out to rehabilitate the uprooted refugees on a co-operative basis. *Publications*: *In War-torn China*; *Japan*: *Its Weakness and Strength*; *Socialism and Society*; *America, the Land of the Superlatives*. *Address*: 2, Canning Lane, New Delhi.

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KAMANI, Sheth Narbheram Hansraj, Business man, Jamshedpur; Managing Director, Narbheram & Co. Private Ltd., Jamshedpur. *b.* Nov. 25, 1892, at Dhari (Kathiawar Peninsula now part of Gujarat).

Entered business at Jamshedpur as a small provision dealer and developed automobile business; started Narbheram & Co. Ltd., 1926; took up the agency of Burmah-Shell Kerosene and petrol and dealership for Ford products for a very large territory; entered into Metal business in partnership with Messrs. Kamani Brothers and founded the "Kamani" group of industries, 1940; took the exclusive dealership of Premier Automobiles Ltd., for Plymouth, Fargo and Fiat, and Lambretta, etc., also jeeps and other Willy's vehicles, with Head Office at Jamshedpur and Branch at Patna and associates at Ranchi, 1954; Pres.: Jamshedpur Gujrati Merchants' Assoc.; Jain Assoc.; Trustee and Pres., Narbheram H. Gujrati M.E. School, Jamshedpur; has made liberal donations and helped in raising several large funds for philanthropic and humanitarian purposes. *Address:* Narbheram & Co. Private Ltd., Jamshedpur.

KAMARAJ, K., Chief Minister, Madras, since April 1954. *b.* 1903; *Educ.:* Virudhunagar, Ramnad District, Madras. Entered public life,

1921 during Salt Satyagraha; convicted for two years; elected member, Working Cttee., Tamil Nad Congress, and member, A.-I.C.C., 1931; convicted for one year R.I. in 1932 movement; one of the accused in Virudhunagar bomb case, 1934; later acquitted; elected Secy., Tamil Nad Congress Cttee., 1935; elected to Madras Legislative Assembly, 1937 and again in 1946; detained during the individual Satyagraha Movement, 1941; while in detention was elected Chairman, Virudhunagar Municipality, 1941; again detained in 1942 and released, 1945; elected to the Constituent Assembly of India, 1947; chosen as a member, All-India Congress Working Cttee., 1949; Pres., T.N.C.C., 1939-54; elected Leader, Madras Legislature Congress Party, March 30, 1954; and again in 1957. *Address:* Madras.

KAMAT, Ramchandr Pandurang, Diploma in Art (London), Artist and Sculptor. *b.* July 30, 1907; *Educ.:* J. J. School of Art, Bombay; took diploma in Art from the Royal Academy of Art, London, 1935; won Mayo Medal from J. J. School of Art, Bombay, and gold, silver and bronze medals from Royal Academy of Arts, London, the only Indian to win this so far; awarded Royal Academy's Travelling scholarship for 1933. Pres., Indian Sculptors' Assoc., since 1952. *Publications:* Articles broadcast by All India Radio, Bombay. *Address:* Kamat Building, 481, Cadell Road, Bombay 28.

KAMATH, Frederick Marion De Mello, B.A. (Bombay), B.Sc. (Econ.) (London), Commissioner for India, Hongkong, since 1959. *b.* June 1, 1907; *Educ.:* St. Aloysius' College, Mangalore; Karnatak College, Dharwar; B.A., 1928; B.Sc. (Econ.), London School of Economics, 1931. Asstt. Editor, *The Times of India*, Bombay, 1932-33; Editor, *The Indian Listener*, All-India Radio, New Delhi, 1938-39; Editor, *Indian Farming*, Indian Council of Agricultural Research, New Delhi, 1939-43; Asstt. Press Adviser to the Govt. of India, New Delhi, 1944-45; Information Officer with the High Commissioner for India, Canberra, 1946-48; Director of Information Services and First Secy., Embassy of India, Washington D.C., 1948-49; joined the Indian Foreign Service, May 1, 1949; Consul-General for India in French Indo-China, Saigon, 1949-52; Ministry of External Affairs, New Delhi, 1952-57; Indian Trade Commissioner, Mombasa, 1957-59. *Publications: Problems of Rural Reconstruction in India* (Oxford Univ. Press, 1934); *The Indian National Congress—An Historical Sketch* (Oxford Univ. Press, 1934); articles in various journals. *Address:* 25, Cooper Road, Jardine's Lookout, Hongkong.

KAMATH, Hari Vishnu, B.Sc. (Hons.), Politician. *b.* July 13, 1907; *Educ.:* Mangalore, Presidency Coll., Madras; passed into the I.C.S., in London, 1929. Served in the I.C.S., 1930-38; resigned for political reasons; joined Congress, then the National Planning Cttee. as Secy. and subsequently the Forward Bloc as its General Secy.; was in prison, 1940-45; elected member, Constituent Assembly, 1946; lost in the General Elections from Hoshangabad, M.P., 1951-52; re-elected to Lok Sabha on P.S.P. ticket, May 1955; elected to the National Executive of the P.S.P., Dec. 1953; lost in the General Elections, 1957; lost again in the election from the same constituency, arising out of a successful election petition, Dec. 1958; elected Chairman, P.S.P., M.P., Feb. 1958; Delegate: Fifth Congress of Socialist Alliance of the working people of Yugoslavia; The Session of the Council of the Socialist International, Haifal (Israel), April, 1960; visited W. Germany, Berlin (East West) and Italy at the invitation of the Govts. of W. Germany and Italy, July/Aug., 1960; Author of book *Communist China Colonizes Tibet, Invades India* (published by P.S.P.), Oct. 1960. *Special Interests:* Philosophy, Literature, Yoga. *Address:* Dhantoli, Nagpur.

KANDASWAMY, C. P., B.A., B.L., Advocate, Coimbatore. *b.* July 6, 1907, of a prominent family at Coimbatore; *Educ.:* Madras. Enrolled as Advocate, Madras High Court, Nov. 11, 1934; is a leading Advocate in Coimbatore practising on the criminal and civil sides; takes keen interest in the amelioration of the poor and the labourers; has certain progressive views on the reconstruction of Society and State. *Address:* Jail Road, Coimbatore.

KANDASWAMY, Ramaswamy Kandaswamy, B.A. (Madras), B.Sc. Tech. (Manchester), Managing Agent, The Vasanta Mills Ltd., Singanallur. *b.* Feb. 14, 1911; *Educ.:* Madras and Manchester; took B.A. degree from Madras, 1932 and B.Sc. (Tech.) from Manchester, 1934. Technical Manager, Textiles (Spinning and Weaving), The Vasanta Mills Ltd., Singanallur. *Recreation:* Tennis. *Clubs:* Cosmopolitan Club, Madras and Coimbatore. *Address:* "Brindavan", Trichy Road, Coimbatore.

KANE, Pandurang Vaman, M.A., LL.M., D.Litt. (Allahabad and Poona Universities, Honoris Causa), Advocate; National Research Professor of Indology, since Aug. 15, 1959. *b.* May 7, 1880; *Educ.:* S.P.G. Mission High School, Ratnagiri Dist.; Wilson Coll. and Govt. Law Coll., Bombay. Professor of Law, Govt. Law Coll., Bombay, 1917-23; Life member and for many years Vice-Pres. of Bombay Asiatic Society; Vice-Chancellor, Bombay Univ., 1947-49; Fellow, London School of Oriental Studies; Govt. of India's representative to the International Congress of Orientalists, at Paris, 1948, Istanbul, 1951 and Cambridge, 1954; nominated M.P., 1953-59; awarded the Rs. 5,000 prize for his 4th volume of the *History of Dharmasastra*, as the best work on Sanskrit Literature during 1953-56, by the Sahitya Akademi, New Delhi, Nov. 1956; on Aug. 15, 1958, he was honoured with a certificate of merit, a robe and a Sannad for a pension of Rs. 1,500 per year for life, for his works in Sanskrit. *Publications:* Numerous books including *History of Sanskrit Poetics, History of Dharmasastra*, Vols. I-IV and Vol. V, Part I, *Hindu Customs and Modern Law. Address:* Angre's Wadi, Bombay 4.

KANEKAR, Anant, B.A., LL.B., Marathi Writer; Professor, Siddharth Coll., Bombay. *b.* Dec. 2, 1905; *Educ.:* St. Xavier's Coll., Bombay. Advocate, Bombay High Court, 1930-33; one of the founders of Natya Manvantar Ltd., an institution started to revolutionise Marathi Stage and produce modern realistic plays, 1933-35; Founder Editor, *Chitra*, Weekly, 1935-38; member, Sahitya Akademi, New Delhi; Pres., Marathi Writers' Conference, Aurangabad, 1957. *Publications: Chandrat; Pandhari Shide*, etc.; over two dozen books. *Recreations:* Reading; Travel. *Address:* "Shanti Kunj", 5th Lane, Hindu Colony, Dadar, Bombay 14.

KANNAMWAR, M. S., Minister for Buildings and Communications, Maharashtra State, since May 1, 1960. *b.* Jan. 10, 1900; *Educ.:* Chanda. Started life with newspapers as sales agent; courted jail several times in the freedom movement; Secy., Provincial Congress Cttee. for eight years; Pres., for three years; edited *Lokasewak, Nawasandesh*, weeklies in Marathi; was Member of the first Parliament; Minister for Public Health and Jail, old M.P. State, Feb. 1952—Oct. 1956; Pres., Nagpur Pradesh Bharat Sevak Samaj; Minister for Public Health, Bombay State, April 1957-May 1960. *Address:* Sachivalaya, Bombay.

KANTHI, Shivalingappa Rudrappa, B.A., LL.B., Speaker, Mysore Leg. Assembly, since Nov. 1956. *b.* Dec. 21, 1908; *Educ.:* Karnatak Coll., Rajaram Coll., Kolhapur; Sykes Law Coll., Kolhapur. Enrolled at the Bagalkot Bar, 1935; has been taking active part in the organisations of Harijans, ryots and weavers; elected member, K.P.C.C. and A.-I.C.C., 1939; elected Pres., Bijapur Dist. Congress Cttee., 1940-46, organised the "Individual Satyagraha" in the Bijapur Dist., 1940-41; arrested and sentenced to 10 months S.I., 1941; arrested and detained in the 1942 Aug. Movement; took active part in famine relief work; was elected working Pres., Dist. Ryots' Conference, Feb. 1946; Parl. Secy., Govt. of Bombay; Dy. Speaker, Bombay Leg. Assembly; is Chairman, Administrative Cttee., Bharat Sevak Samaj, Mysore South Region. *Address:* P.B. No. 74, Vidhana Soudha, Bangalore 1.

KANUNGO, Nityanand, B.A., B.L., Minister of Commerce, Govt. of India, since April 1957; Member, Sangeet Natak Akademi. *b.* May 4, 1900; *Educ.:* Ravenshaw Coll., Cuttack and Univ. Coll., Calcutta. Minister for Home, Law, Industries and Agriculture, Govt. of Orissa, 1937-52; Secy., All-India Spinners' Association, Local Branch, 1939-42; Pres., All-India Village Industries Association, Orissa, 1946; Chairman, Cotton Textile Enquiry Cttee., 1952; Leader, Indian delegation to International Rice Commission, 1952; Dir., State Co-op. Bank, Orissa; member, A.I.C.C.; Dy. Minister, Commerce and Industry, Govt. of India, Sept. 1954-Aug. 1955; Minister for Industries, Govt. of India, Aug. 1955-June 1956; Minister of Consumer Industries, 1956-1957. *Recreations:* Swimming, Bee-keeping, Sociology, Rural Economy, Agriculture. *Address:* New Delhi.

KAPADIA, Gopaldas Padamsey, B.Com. (Bombay), F.C.A., J.P., Chairman, I.M.C. Economic Research and Training Foundation; Pres., Indian Merchants' Chamber, 1958; Senior Partner, G. P. Kapadia and Co., Chartered Accountants. *b.* Feb. 2, 1905; *Educ.:* Elphinstone High School, Elphinstone Coll. and Sydenham Coll. of Commerce and Economics, Bombay. Was elected the first Pres., Institute of Chartered Accountants of India for three years; led the Indian Delegation to the International Congress on Accounting, London, 1952; served on important Cttees. appointed by the Govt. such as the Stock Exchange Enquiry Cttee., the Visakhapatnam Shipyard Cttee. and the Company

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Law Cttee.; member, Sales Tax Enquiry Cttee. appointed by the Govt. of Bombay; has been a member, Cttee. of the Federation of Indian Chambers of Commerce and Industry for a number of years. *Publications:* Paper read at International Congress on Accounting in London, 1952; *Incidence of Taxation*; several contributions on taxation matters and economic subjects. *Address:* *Office:* Hamam House, Hamam Street, Fort, Bombay 1.

KAPUR, H. E. Mr. B. K., Indian High-Commissioner in Ceylon, since Aug. 1960. *b.* Jan. 12, 1910; *Educ.:* Govt. Coll., Lahore; Royal Military Coll., Sandhurst (England). Commissioned in the Indian Army, 1930; held various administrative and political appointments in the N.W.F.P. and Baluchistan; Deputy Secretary, External Affairs Ministry, Govt. of India, 1946; Secretary, Indian Delegation to the U.N. General Assembly, New York, 1946; Govt. of India's Liaison Officer, Lahore and Peshawar after the partition, 1947 and 1948; Jt. Secy. and Chief of Protocol, External Affairs Ministry; Charge d'Affaires with the rank of Minister, Indian Embassy, Teheran, Jan. 1951 to Dec. 1951; Political Officer in Sikkim, March 1952 to Feb. 1955; Indian Ambassador in the Netherlands, 1955–57; Indian High Commissioner in Ghana and Commissioner in Nigeria, 1957–60. *Address:* C/o External Affairs Ministry, New Delhi.

KAPUR, Mr. Justice Jeevan Lal, B.A. (Punjab), M.A., LL.B. (Cantab.), Judge, Supreme Court of India, since Jan. 14, 1957. *b.* Dec. 13, 1897; *Educ.:* Govt. Coll., Lahore (Punjab Univ.); Magdalene Coll., Cambridge; Inner Temple, Barrister-at-Law; B.A., Punjab Univ., 1917; B.A. (Cantab.), 1920; LL.B., 1921; M.A. (Cantab.), 1924, Practised at Lahore High Court, Lahore, 1922-47; Vice-Pres., All India Postmen's Union, 1926-47; Member, F.P.S.C., New Delhi, 1947-49; Judge, Punjab High Court, 1949-57. *Publications:* *Law of Adoption in India and Burma*; *Recreations:* Reading; Walking. *Clubs:* Delhi Gymkhana Club, New Delhi. *Address:* 11, York Road, New Delhi.

KAPUR, Triloka Chandra, B.A., LL.B., Managing Director, The Export Risks Insurance Corporation Ltd., since Aug. 1, 1957. *b.* June 2, 1897; *Educ.:* Govt. High School, Jhelum; Govt. Coll., Lahore; Law Coll., Lahore. Was Secy., Punjab P.C.C.; convicted for political offence and imprisoned twice, 1921 & 1930; Manager: Lakshmi Insurance Co. Ltd., 1927–44; Bombay Mutual Life Assurance Society Ltd., 1944–52; Chairman, Export Credit Guarantee Cttee. and Officer on Special Duty, Jan. 1956–July 1957; member: Govt. Insurance Planning Cttee. and Insurance Law Revision Cttee.; Life Insurance Exec. Cttee., a statutory body for over a year; Senior Services Cttee. for Life Insurance Export Promotion Cttee. *Club:* Rotary Club. *Address:* 5, Sobani Road, Colaba, Bombay 5.

KARANJIA, Russy K., B.A. (Hons.), Publisher and Journalist. Editor-in-Chief of *Blitz*, Indian weekly; Correspondent of several leading foreign newspapers. *b.* Sept. 15, 1912; *Educ.:* St. Xavier's High School and Wilson Coll., Bombay. Took training in journalism in U.K. and Europe. Commenced journalistic career as reporter, sub-editor and special correspondent with the *Times of India* publications; joined *Sunday Standard* as Deputy-Editor and later became Editor-in-Chief of the *Sunday Standard* and *Morning Standard* (today *Indian Express*); started *Blitz* in Feb. 1941; Editor and Director of *Blitz* Publications; Author of *China Stands Up*, *How Others See Us*, *Seato*, *Arab Dawn*, *Dawn or Darkness*, *The mind of Mr. Nehru*, etc.; was Dy. Leader of the first Indian Goodwill Mission to Peoples' China; President of the India–China Friendship Association, Bombay; was honoured with the gift of a machine-gun named "Port Said" by President Nasser of U.A.R. for his services at the time of the Suez War. *Recreations:* Riding; Tennis. *Address:* Framroze Court, Netaji Subhas Road, Bombay.

KARANTH, K. R., B.A., LL.B., ex-member, National Executive, Praja Socialist Party; Advocate, Supreme Court. *b.* May 1, 1894; *Educ.:* B.A. from Central Coll., Bangalore, 1916; LL.B. from Law School, Bombay, 1918. Member: Madras Leg. Council, 1926-29; and Madras Leg. Assembly, 1937-39 and 1946-51; Parliamentary Secy., Madras Govt., 1937-38; Minister, Madras, 1946-47. *Publications:* *Travels in Europe* (Kannada). *Recreations:* Walks; Reading. *Club:* Bowring Institute, Bangalore. *Address:* 16, Kumara Park East, Bangalore 1.

KARANTH, K. Shivarama, Kannada Author and Publisher. *b.* Oct. 10, 1902; *Educ.:* Board High School, Coondapoor, South Kanara. Joined the N.C.O., Feb. 1922; took to writing, 1924; editor of a Kannada monthly, 1924-29; made experiments in child education, drama and dance; pursued literary profession. *Publications:* Wrote a large number of plays and novels; wrote *Balaprapapanch*, 3 Vols. —Encyclopedia for children. Published 1936-39, some 15 novels, 20 or more plays, Kannada-Kannada dictionary, a monogram on Yakshagana dance drama, at work on Popular Science Encyclopaedia in Kannada. *Address:* Puttur (S. Kanara).

KARMARKAR, Dattatraya Parashuram, M.A., LL.B., Minister of Health, Govt. of India, since April 1957. *b.* July 20, 1902 at Mantur, Dharwar Dist; *Educ.:* Karnatak Coll., Dharwar; Deccan Coll. and Law Coll., Poona. Lawyer; courted jail in the freedom movement; member: Karnatak Education Board, Dharwar; Historical Research Society; Kannada Research Board; Indian Historical Records Commission; Founder-Member, Law Coll., Belgaum; Pres., Karnatak P.C.C.; M.L.A. (Central), 1945–47; member: Constituent Assembly, 1950–52; Lok Sabha, 1950–57; Leader of the Indian Delegation to the ECAFE Conference at Lahore, 1951, at Rangoon, 1952, at Bandung (Indonesia), 1953, Tokyo (Japan), 1955, Bangkok (Thailand), 1957; Govt. of India delegation to International Red Cross Conference, 1957; Leader, Indian Delegation to W.H.O. Assembly Session, General 1960; Deputy Minister, Commerce & Industry, Govt. of India, till August 1952; Min. for Commerce, 1952-56; Minister of Trade, 1956-57; elected to Lok Sabha from Mysore-Dharwar North, 1957. *Publications:* Books in Kannada; *History of Congress*; *A Primer to Constitutional History*; *Bal Gangadhar Tilak: A Study* (in English); Editor, Vijaynagar Commemoration Volume. *Address:* 7, Race Course Road, New Delhi.

KARMARKAR, Rear Admiral Sadashiv Ganesh, Master Mariner (1938), M.B.E., Flag Officer, Bombay, since April 16, 1960. *b.* Oct. 17, 1912 at Myinjau, Upper Burma; *Educ.:* New English School, Poona; "Dufferin," 1927–30. Merchant Service, 1930–37; Higher studies in U.K., 1938–39; in War, 1939–45; 1st Indian to be Lieutenant in Royal Naval Reserve; War Service: Middle East, Indian Coast, Far East including Australia & Japan; Director of Personnel Services and Chief of Administration at Naval Hqrs., Commanding Officer of Ships, Captain of Naval Barracks, Captain Supdt. of Naval Dockyard, Flag Captain to Flag Officer (Flotilla), Indian Fleet, Oct. 1950 to Mar. 1953; Commodore-in-Charge, Cochin (Training and Establishment), May 1957–April 1960. *Recreations:* Cricket, Squash, Swimming, Golf, Tennis. *Clubs:* United Services Officers Club, Cochin 4; The Delhi Gymkhana, Delhi. *Address:* C/o Fleet Mail Office, Bombay-1.

KARMARKAR, Vinayak Pandurang, Sculptor. *b.* Oct. 2, 1891; *Educ.:* School of Art, Bombay, 1910–13; Royal Academy, London, 1920–22; Travelled Italy, France, Hungary, 1932, Professional visit to U.S.A., 1949; member, Gen. Council of Lalit Kala Akademi; National Academy of Art, New Delhi; Established himself as a sculptor. *Publications:* Occasional articles in Marathi and Presidential Addresses. *Recreations:* Animal pets. *Clubs:* Bombay Art Society; Art Society of India, Bombay. *Address:* 7, Union Park, Chembur, Bombay 71; Studio, Deonar Road, Chembur.

KARVE, Dattatreya Gopal, M.A. (Bombay), Ex-Vice-Chancellor, University of Poona, *b.* Dec. 24, 1898. *Educ.:* New English School & Fergusson Coll., Poona. Cobden Medallist, 1921; Wedderburn Scholar, 1923; Prof. of Economics and Politics, Fergusson Coll., Poona, 1923–43; Principal: Willingdon Coll., Sangli, 1935–40; B.M. Coll. of Commerce, 1943–49; Secy., Deccan Educ. Soc., Poona, 1940–44; Pres., Indian Economic Assoc., 1945; Exec. Editor, Bombay Dist. Gazetteers (Revision), 1949–52; Mem., Bombay Local Board of Reserve Bank of India, 1952; Director, Programme Evaluation, Planning Commission, 1952–55; Dir., Indian Inst. of Public Administration, 1954–55; Chairman: Village and Small-Scale Industries (2nd Five Year Plan) Cttee., 1955; Pres.: Indian Agricultural Economics Conf., 1956; Indian Sociological Conference, 1960; Indian Society of Agricultural Economics; member, Co-operative Development and Warehousing Board; Vice-Chairman, State Bank of India; *Publications:* *Indian Federal Finance*, 1929; *Poverty and Population in India*, 1936; *Democracy and Capitalism*, 1936; *The New Indian Constitution, Prospects and Principles*, 1940; *Ranade, The Prophet of Liberated India*, 1942; *Population Planning in India*, 1948; *Public Administration in a Democracy*, 1950; *Administrative Implications of Planning*, 1956; *Rural Development*, 1957, and others. *Recreations:* Light reading. *Clubs:* Radio (Bombay). *Address:* 'Suyog', 899/1, Shivajinagar, Poona 4.

KARVE, Dr. Dhondo Keshav, B.A., Bharat Ratna (1958), Pioneer in Women's education and Founder and ex-Vice-Chancellor, Shreemati Nathibai Damodar Thackersey Indian Women's Univ., Poona. *b.* April 18, 1858; *Educ.:* B.A., Elphinstone Coll. Prof. of Mathematics, Fergusson Coll., Poona, 1892–1914; became Life Member, Deccan Education Society; Retd., 1914; founded Widow Re-marriage Assoc., 1893; started Hindu Widows Assoc., 1896 nd Widows' Home, 1899; started Mahila Vidyalaya for the education of girls (married as well as unmarried), 1907; Pres., Indian Social Conference, Bombay, 1915; founded in 1916 Indian Women's Univ., later known as S.N.D.T. Indian Women's Univ., as a result of the munificent donation of Rs. 15 lakhs given by late Sir Vithaldas D. Thackersey; travelled extensively throughout India and the world, since 1916, doing propaganda and collecting funds for the Univ.; member, Senate of the Univ.; elected Vice-Chancellor, Univ., June 1932; D. Litt.: Benares Univ., 1942; Poona Univ., 1951; S. N. D. T. W. U., 1954; (Allahabad Univ.); LL.D. (Bombay Univ., 1958); Padma Vibhushan, 1955. *Publications:* Autobiography (in Marathi); Looking back (English). *Address:* Hingne Budruk, Poona 4.

KATARI, Vice-Admiral Ram Dass, I.N., i.d.c., Chief of the Naval Staff, Indian Navy, since Apr. 22, 1958. *b.* Oct. 8, 1911; *Educ.:* Mahboob College, Secunderabad; Nizam Coll., Hyderabad; Training Ship, "Dufferin", Bombay. Hooghly River Survey for a few years; then Indian Navy; War Service in Atlantic and Indian Oceans; several sea-commands since; Chief of Personnel at Naval Headquarters, 1949-51; Imperial Defence College, London, 1953; Dy. Chief of the Naval Staff, Indian Navy, 1954-55; Flag Officer Commanding, Indian Fleet, Oct. 1956-April 1958. *Recreations:* Tennis and Golf. *Clubs:* Delhi Gymkhana Club, Delhi. Golf Club, Defence Services Club, New Delhi. *Address:* Naval Headquarters, New Delhi.

KATJU, Dr. Kailas Nath, M.A., LL.D., D.Litt., Chief Minister, Madhya Pradesh, since Jan. 31, 1957. *b.* June 17, 1887;

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Educ.: Barr High School, Jaora (M.P.); Forman Christian College, Lahore; Muir Central College, Allahabad. Practised at Kanpur (1908-14); joined High Court Bar, Allahabad, 1914; Advocate, Allahabad High Court (1921); member, Council of U.P.C.C. and A.I.C.C. till 1946; elected Chairman, Allahabad Municipal Board (1935-37); Chancellor, Prayag Mahila Vidyapith; Pres., Allahabad Dist. Agri. Assoc.; Editor, *Allahabad Law Journal* (1918-46); member, Executive Council, Banaras Hindu Univ., and Constituent Assembly of India (1946-47); Minister of Justice, Industries and Development, U.P. Govt., 1937-39 and April 1946 to Aug. 1947. Imprisoned for 18 months in connection with Civil Disobedience Movement, Nov. 1940; detained under D.I.R., Aug. 1942 to April 1943. Governor of Orissa, August 1947 to June 1948; Governor of West Bengal, 1948-51; Minister for Home Affairs and Law, 1951-52; Minister for States and for Home Affairs, May 1952-Jan. 1955; Defence Minister, Jan. 10, 1955-Jan. 30, 1957. *Publications:* A thesis on the Law relating to Criminal and Actionable Conspiracies, and a commentary (with Mr. S. C. Das) on the Codes of Civil and Criminal Procedure; *My Parents*, 1950; *Reminiscences and Experiments in Advocacy*, 1952; *My memorable cases*; *Rural Development through Self-help*, revised edition, 1957. *Address:* Bhopal.

KATRE, Dr. Sumitra Mangesh, M.A., Ph.D. (London), Director, Deccan College Post-graduate and Research Institute, Poona, since 1942; Editor, Dictionary of Sanskrit on Historical Principles. *b.* April 11, 1906; *Educ.:* Ganapathi High School and Govt. College, Mangalore; Presidency College, Madras; School of Oriental Studies, London Univ., Orientalisches Seminar, Univ. of Bonn. Professor of Sanskritic Languages, N. Wadia College, Poona (1933-34); S. P. College, Poona (1937-39); Professor of Indo-European Philology, Deccan College Post-graduate and Research Institute, Poona (1939-42); Hon. Treasurer, Linguistic Society of India, since 1954. *Publications:* Founder-Editor, *New Indian Antiquary* and *Oriental Literary Digest*; and of several commemoration volumes; *Formation of Konkani*; *Introduction to Indian Textual Criticism*; *Prakrit Languages and their Contribution to Indian Culture*. *Address:* Deccan College, Poona 6.

KATZ-SUCHY, H.E. Dr. Juliusz, Jur., Polish Journalist and Diplomat; Ambassador of Poland to India, since June 1957; concurrently accredited to Ceylon, since 1958 and Nepal since 1960. *b.* 1912; *Educ.:* Cracow, Prague and Warsaw Univs. (Law and Economics). Editor and editorial writer of several socialists publications in Poland, 1934-38; Dy. Director, Polish Press Agency, London, 1944-45; Press Attache, Polish Embassy, London, 1945; Dy. Chief of Section, Ministry of Foreign Affairs, 1945-46; Acting Representative of Poland to the Security Council, U.N., 1947; Permanent Representative of Poland to the U.N. with rank of Minister Plenipotentiary and Poland's Representative in the Economic and Social Council of the U.N., 1948-52; Vice-Pres., 2nd part, 3rd Session, U.N. Gen. Assembly, 1949; Rank of Ambassador at large, 1956; Delegate to the 9th, 10th, 11th, 12th & 13th Sessions of the U.N. Economic and Social Council; Delegate to the Economic Commission for Europe, 1950-56 (Chairman, 1956 Session); Member, State Council for Atomic Energy, 1955; Member, Advisory Council of the Ministry of Foreign Affairs; Chairman of Delegation to the Foundation Conference of the Atomic Energy Commission, 1956; Delegate to E.C.A.F.E. Sessions, Bangalore, 1956 and Kuala-Lumpur, 1958. *Publications:* *International Organisations*; *Problems of Membership of the U.N.O.*; *The Place of Poland in the World*, etc. *Address:* 22, Golf Link Area, New Delhi.

KAUL, Lieut.-General Brij Mohan, B.A., Vishist Seva Medal Class I (1961), Chief of General Staff, Army Hqrs., since March 1, 1961. *b.* May 1, 1912; *Educ.:* St. Stephen's Coll., Delhi; Govt. Coll., Lahore; graduated from Royal Military Coll., Sandhurst, 1933. Commissioned in East Surrey Regt.; served in the Rajputana Rifles on N.W.F. of India; served in Intelligence School, Karachi; graduated from Staff Coll., Quetta, 1942; fought in Burma during World War II; Secy., Nationalization Cttee. under Sir Gopalaswamy Iyengar, 1946-47; Military Attache, Indian Embassy, Washington, 1947; Military Adviser to Indian Delegation, Lake Success, U.S.A. in Kashmir Case, 1948; fought in Kashmir war from April 1948 onwards; commanded 11 Infantry Bde.; Director of Organisation, Army Hqrs., 1952-53; Chief of Staff to the Neutral Nations Repatriation Commission in Korea, 1953-54; commanded U.P. Area, 1956; 4th Infantry Division, 1956-59; Q.M.G., Indian Army, 1959-61. *Recreations:* Cricket, Dramatics, Mountaineering. *Address:* C/o Grindlays Bank Ltd., Bombay; 5, York Road, New Delhi.

KAUL, Triloki Nath, B.A. (Hons.) (Punjab), LL.B. (Alld.), LL.M. (London), Dy. High Commissioner, London, since Oct. 1960. *b.* Feb. 8, 1913; *Educ.:* S. P. Coll. (Srinagar); Prince of Wales Coll. (Jammu); Law Faculty (Allahabad); King's Coll. & School of Oriental Studies (London Univ.). Passed I.C.S., 1936; Joint Magistrate, Rural Development and Census Officer, Settlement Officer and District Magistrate till 1945; Secy., Indian Council of Agricultural Research, Govt. of India, 1945-47; First Secy., Indian Embassy, Moscow, 1947-49; Dy. Secy.-Genl., Indian Delegation to U.N., 1947; First Secy., Indian Embassy, Washington, 1949-50; Counsellor, Indian Embassy, Peking, 1950-52; Minister, Indian Embassy, Peking, 1952-53; Joint Secy., Ministry of External Affairs, Govt. of India, 1953-56; member of delegation which negotiated the Sino-Indian Agreement on Tibet, 1954; Chairman, International Commission and leader, Indian delegation, Viet Nam, 1957-58; Ambassador to Iran, 1958-60. *Recreations:* Cricket, Tennis, Music, Reading, Writing. *Clubs:* Delhi Gymkhana Club. *Address:* C/o Ministry of External Affairs, New Delhi.

KAUL, (Master) Zinda, B.A. (Punjab), Kashmiri Poet; Pensioner, Jammu and Kashmir Govt. *b.* Aug. 1884; *Educ.:* Church Mission School, Srinagar. Worked as Teacher, 1901-22; as Surveyor, Archaeology, J. & K. Govt., 1922-31; Translator, Publicity, J. & K. Govt., 1931-39; began writing poetry in Kashmiri since 1940; won Govt. of India Rs. 5,000 prize for *Smaran*; popularly called by pupils 'Masterji'; was a theosophist. *Publications:* *Patra Pushp* (Hindi poems); *Smaran* (Kashmiri poems); *Philosophy of a Sheep* (Eng. prose pamphlet against meat-eating or animal sacrifice); *Paramananda* (Life & poems of Kashmiri Saint-Poet with Eng. translation and notes). *Address:* Shehli-teng, Srinagar, Kashmir.

KAZEMI, His Excellency Morteza Mochfegh, Ambassador Extraordinary and Plenipotentiary for Iran in India and Envoy Extraordinary and Minister Plenipotentiary for Iran in Thailand, since 1958. *b.* 1902; *Educ.:* Berlin Univ.; Ecole Des Sciences Politique, Paris. First Secy., Legation Stockholm, 1935-38; Counsellor, Cairo, 1941-44; Chief of Legal & Treaties Section, Ministry of Foreign Affairs, 1944-46; Alternate Delegate to U.N.O., 1947; Env. Ext. and Min. Pleni. to Syria, 1949-54; Chief of Protocol, 1954-56; Deputy Foreign Secy., Ministry of Foreign Affairs, 1956-58; recipient of honours from the following Govts.: First grade Homayoun order and Third grade Tadj order, Iran; Officer Fign of the Northern Star, Sweden; Second grade Nile order, Egypt; Order of Merit, Germany; Order of Merit Distinguished grade, Syria; First grade Sedr, Lebanon; Order of Merit First grade, Italy; First grade Rafedin order, Iraq. *Address:* Iranian Embassy, 5, Barakhamba Road, New Delhi.

KAZI, Syed Ghiyasuddin, B.A., LL.B., Minister for Civil Supplies, Housing, Printing Presses and Fisheries, Maharashtra State since May 1, 1960. *b.* Nov. 22, 1904; *Educ.:* Amravati and Aligarh. Joined Non-co-operation movement, 1922; started practice as a lawyer at Akola, 1930; appointed Asstt. Public Prosecutor; resigned, 1938; associated himself with Jamait-ul-Ulema-i-Hind after 1948; elected Pres., Madhya Pradesh branch; called a Convention of Muslim leaders of various important political parties and openly advised Muslims to join the Congress, 1948; elected M.L.A. in 1952 elections; did yeoman service to the cause of labour in M.P. as Chairman, Industrial Relations Cttee.; on reorganisation of States, was appointed Deputy Minister for Law and Public Health; re-elected M.L.A. in the 1957 general elections; Minister for Civil Supplies, Housing, Printing Presses and Fisheries, Bombay State, April 1957-May 1960. *Hobby:* Reading. *Address:* Bungalow No. 20, Nepean Road, Malabar Hill, Bombay 6; "Rain Basera," Tajnapeth, Akola, Maharashtra.

KEHAR, Dr. Narain Das, M.Sc. (Punjab), Sc.D. (Johns Hopkins), Principal, Post-Graduate College of Animal Sciences, Indian Veterinary Research Institute, Izatnagar, since July 1958. Head, Deptt. of Animal Sciences, Agricultural Univ. U.P. since 1960. *b.* July 21, 1902; *Educ.:* Forman Christian College, Lahore; Johns Hopkins University, Baltimore, U.S.A.; won gold medal and University merit scholarship in B.Sc. Rockefeller Foundation Fellow, International Health Division, 1932-34; held several posts in the Indian Vet. Res. Inst., Izatnagar; elected Pres., Physiology Section, Indian Science Congress, 1953; Chairman, Animal Nutrition Cttee., Indian Council of Agri. Research and Animal Feed Cttee., Indian Standards Institution; elected Vice-Pres., Physiological Society of India and several other scientific cttees.; Pres., Assoc. of Scientific Workers of India, Indian Vet. Res. Inst., Izatnagar Unit. *Publications:* Over 150 original papers in various foreign and Indian scientific journals. Contributed articles on Animal Nutrition, Planned and Organised Animal Nutrition Research on regional basis in India. *Address:* Agricultural University, Pantnager, Dist. Nainital.

KELKAR, Dattatraya Keshav, B.A., Marathi Writer; Retd. Professor, Ruia Coll., Bombay. *b.* March 4, 1895; *Educ.:* Poona. President, Bombay Marathi Literary Assoc. for 4 years. *Publications:* *Kavyalochana* (Constructive Survey of Poetics); *Sanskruti-Sangam* (Synthesis of Civilisations); *Udyachi Sanskruti* (Tomorrow's Socialistic Civilisation); *Sanskriti Ani Vidyan* (Science and Civilization); *Wadali Ware* (Stormy Winds); *Sahitya Vihar* (Literary Essays); *Vichar Taranga* (Waves of Thoughts). *Address:* Plot No. 447, Matunga, Bombay 19.

KESKAR, Dr. Balkrishna Vishwanath, D. Litt. (Paris), 1935, Minister of Information and Broadcasting, Govt. of India, since May 1952. *b.* 1903; *Educ.:* Poona, Hyderabad, Banares (Kashividyapith) and Paris. Active Congress worker in the U.P. since 1920; took part in all the movements started by the Congress; General Secy., Indian National Congress, 1946; elected to the Constituent Assembly from U.P., Jan. 1948; India's official delegate to Inter-Parliamentary Conference at Rome, Sept. 1948; Member, Indian delegation to the U.N. General Assembly, 1950; widely travelled in America, Europe and the Far East; elected to the Lok Sabha from Sultanpur Dist. (U.P.), Feb. 1952; re-elected to the Lok Sabha from

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Musafirkhana constituency (U.P.), 1957. Dy. Minister for External Affairs, 1948-52; re-appointed Minister of Information and Broadcasting, April 1957; member, Foreign Affairs Sub-Committee of Cabinet since April 1958. *Recreations:* Photography, Hiking and Music. *Address:* 8, Hastings Road, New Delhi.

KHAIRAGARH, Rani Padmawati Devi, Rani of, Minister for Public Health, Madhya Pradesh since Nov. 1956. *b.* July 17, 1918, at Pratabgarh, U.P.; *Educ.:* at home under English and Indian Governesses. Keenly interested in social service; conducted at Khairagarh the Child Welfare Centre, the Red Cross Centre and the Shivendra Sanskrit Pathshala; gifted her residential palace, valued at Rs. 15 lakhs to the M.P. Govt. for the University; one of the Founder Pro-Chancellors of the Univ.; member: Hindi Sahitya Sammelan, M.P.; Univ. Courts, Sagar and Khairagarh; Governing Body, Lady Amritabai Daga Coll., Nagpur; Board of Governors, Scindia Kanya Vidyalaya Society, Gwalior; Pres.: Mahila Vibhag, Rashtra Bhasha Prachar Samiti, M.P.; has widely travelled in India and abroad; attended, Plenary Session, 13th World Health Assembly, Geneva, 1960; was nominated the first Chairman, Janapada Sabha, Khairagarh; elected M.L.A. from Bori-Deokar Constituency, M.P., 1952; returned uncontested from Birendranagar Constituency in the 1957 elections. *Recreations:* Badminton, shooting, travel, music photography. *Address:* Bhopal; Kamal Vilas, Khairagarh, M.P.

KHAITAN, Matadin, Business man. *b.* May 1913. Is connected with various public bodies; Cttee. member: Calcutta Stock Exchange Assoc. Ltd.; Development Council for the Sugar Industry, Govt. of India; Bharat Chambers of Commerce; Indian Sugar Mills Assoc.; Life-member: Indian Red Cross Society; National Sports Club of India; President, Bengal Sugar Merchants' Assoc. (1945, 1947, 1949, 1950, 1952); Vice-Pres., B. B. Dist. Congress Cttee. (1954); Director: Matadin Khaitan & Co., Ltd.; Sahu Properties Ltd.; The Balarampur Sugar Co. Ltd.; Vegetable Products Ltd.; Hind Sugar Co. Ltd.; Tulsipur Sugar Co. Ltd.; Trustee: Jhunjhunu Charitable Trust; Gyan Bharati; travelled extensively in Japan and Far East during 1952 and U.S.A. and continental countries of Europe during 1954. Visited U.S.A., Germany, U.K., in National Productivity Council, Marketing & Distributing Team, 1960. *Address:* Khaitan House, 27, Vivekananda Road, Calcutta 7.

KHAN, Mr. Justice Abdul Hakim, M.A., LL.M. (London), Bar-at-Law, Judge, Madhya Pradesh High Court. *b.* March 23, 1905; *Educ.:* St. Peter's Coll., Agra; Muslim Univ., Aligarh; Univ. Coll., London; Lincoln's Inn. Practised at the Bar; entered Gwalior service as Puisne Judge, 1931; acted as Chief Justice; officiated as Law Member; became Senior Member, Judicial Cttee., Huzzur Darbar, Gwalior, C.I. *Recreations:* Walking; Tennis; Shooting. *Club:* Jiwaji Club, Gwalior, C.I. *Address:* Gul Mohar, Morar, Gwalior.

KHAN, Allauddin, D.Mus. (1944), Honour by the President of India (1952), Sangeet Nayak and Sitare Hind, Aftabe Mouseque, Sangeet Samrat, Bharat Gourab Sangeet Acharya, Jind of Music, Musician, Padma Bhushan (1958), Hon. Principal, Govt. Music College, Maihar; *Educ.:* Under many ustads and gurus of music, namely Ahmad Ali Khan, Mohd. Hussain Khan and Vazir Khan, for forty years; learned on Indian instruments like Sarod, Vina, Sursringar, Rabab, Sitar, Shahnai, Mridang, Tabla and Dhol and English instruments like Violin, Cornet and Clarionet; was in the service of Maihar State as Raj Guru; has given many music performances at important places in India and abroad specially European countries; invented new string instruments, *viz.*, Sur-Sitar and Chandrasarang. *Address:* Maihar, Madhya Pradesh.

KHAN, Ustad Bismillah, Padma Shri (1961), Musician. *b.* March 21, 1916 at Dumraon, Shahabad Dist., Bihar; *Educ.:* Received Shahnaee training under his uncle Ali Bux Khan and father Paigamber Khan. Gave his first public performance at the age of 14 at the All India Music Conference at Allahabad, 1930; again appeared at the Music conference at the Lucknow Exhibition, 1934, and awarded gold medals; awarded three gold medals at the All India Music Conference, Calcutta, 1937; gives frequent performances at the A.I.R. stations in India; awarded Academy Award for Hindustani Instrumental Music by President Rajendra Prasad, April 1956. *Address:* C. K. 46/62, Sarai Harha, Banaras.

KHAN, Ustad Hafiz Ali, Padmabhushan (1960), Musician; Professor of Sarod & Sitar, Bharatiya Kala Kendra, New Delhi. *b.* 1894, in Gwalior; *Educ.:* Started learning vocal music and Sarod at the age of nine under his father; also studied Hori Dhrupad and Sursinger from Ganeshi Lalji and Ustad Ujir Khan; became Court Musician at the Darbar of Gwalior; Sarod recital appreciated by public both at home and abroad; awarded 'Aftabe Sarod' by Bengal, 'Sangit Ratan' by Maharaja Scindia Jivaji Rao; was presented a "Sanad" by Rashtrapathi Rajendra Prasad; is member, Sangeet Natak Academy; is associated with many other musical organizations. *Address:* Bharatiya Kala Kendra, 35/25, Firozshah Road, New Delhi.

KHAN, Mushtaq Husain, Certificate in Hindi, Urdu and English, Padma Bhushan (29-10-1957), a leading Hindustani musician; has been in the service of Nawab of Rampur for over 40 years. Is the recipient of several honours like Sangeet Bhushan from Darbhanga State, Fakhre Musiqi from Lucknow, awarded gold medal in 1925 in the music Conference of Lucknow, Shere Musiqi from Calcutta, one thousand rupees and Kashmiri Shawl from Delhi in 1951 and certificate and a medal from the President of India, Dr. Rajendra Prasad. *b.* Dec. 5, 1881, at Sahaswan Dist., Badaun (U.P.). Learned music from 12 different ustads including Ustad Inayat Hussain Khan. Has rendered music from most of A.I.R. stations; is a member, Audition Board, A.I.R.; is connected with the famous musician Tansen. *Address:* Bharatiya Kala Kendra, 35/25, Ferozshah Road, New Delhi.

KHAN, Sadath Ali, Parliamentary Secretary to the Ministry of External Affairs, since 1953. *b.* Sept. 16, 1916; *Educ.:* Nizam Coll., Hyderabad. Elected to Parliament on Congress ticket, 1952 and 1957; attended the Trusteeship Council Session of the United Nations as an Alternate Delegate, Jan.-April 1954; attended the General Assembly Session of the United Nations as an Alternate Delegate, Sept.-Dec. 1954; travelled widely in the Middle East, both in official as well as private capacity. *Publications: Projects for Prosperity* (a Govt. of Hyderabad Publication); *Brief Thanksgiving. Recreations:* Reading, Writing. *Clubs:* Secunderabad Club, Secunderabad. *Address:* 13, Canning Lane, New Delhi.

KHAN, Shah Nawaz, Chiefs Colleges Diploma, Deputy Minister for Railways, Govt. of India, since April 18, 1957. *b.* Jan. 24, 1914; *Educ.:* Prince of Wales Royal Indian Military Coll., Dehra Dun; Indian Military Academy, Dehra Dun; took Chiefs Colleges Diploma, 1930. Commissioned as 2/Lt. in the Indian Army in 1/14th Punjab Regt., Feb. 1935; promoted Actg. Capt., Oct. 1939; proceeded Overseas, Jan. 1941; joined Azad Hind Fauj of Netaji and promoted Major General, 1943; principal accused in the Red Fort Trial of the I.N.A.; elected M.P. from Meerut; Parliamentary Secy. to the Minister for Railways and Transport, Aug. 12, 1952–Sept. 20, 1956; Dy. Minister for Transport and Railways, Sept. 1956–April 1957; again elected to Lok Sabha, 1957. *Publications: I.N.A. and its Netaji. Recreations:* Shooting; Farming. *Address:* 4, Old Mill Road, New Delhi.

KHANDEKAR, Vishnu Sakharam, Marathi Writer; President, Marathi Sahitya Sammelan. *b.* Jan. 11, 1898; *Educ.:* Sangli High School, Sangli; Fergusson Coll., Poona. Headmaster, T. E. School, Shiroda (Dt. Ratnagiri), 1920-38; Screenplay Writer to Huns Pictures, Navyug Pictures and Prafulla Pictures, 1936-47; Author, Short Story Writer, Critic, Novelist, Essayist, 1919-59. *Publications:* About 50 books in Marathi, many of which have been translated into Gujarati, Tamil, Hindi, etc. *Recreations:* Reading; Walks. *Address:* 7, Rajarampuri, Kolhapur.

KHANNA, Des Raj,* Diploma in Civil Engineering, General Manager, Central Railway, since Feb. 17, 1960. *b.* July 12, 1906; *Educ.:* Roorkee Univ. Joined Indian Govt. Railways as Asstt. Transportation Officer, N.W. Rly., July 1930; promoted to Senior Scale, 1941; promoted to administrative rank as Dy. Chief Commercial Manager, 1947; on partition became Dy. Traffic Manager, B.B. & C.I. Rly.; sent on deputation out of India on a study trip of railway operations under the auspices of the U.N. Economic Commission for Asia and Far East in collaboration with the U.N. Technical Assistance Admn., 1952; Chief Operating Supdt., Western Rly., Aug. 1955; Chief Operating Supdt., Central Rly., June 1959-Feb. 1960. *Address:* 'Glenoble', 17, Mount Pleasant Road, Malabar Hill, Bombay 6.

KHANNA, Krishen, B.A. (Hons.), Painter. *b.* July 5, 1925; *Educ.:* Imperial Service College, Windsor; Govt. Coll., Lahore. Joined the Progressive Group of Newton Souza, Ara, Raza, Husain and Gade at Bombay; took up painting seriously; exhibited with them several times; has held several one man exhibitions in Madras, Bombay and Delhi; exhibited with Husain, Gaitonde, Kulkarni, Samant, Ram Kumar and Gujralin an exhibition in Delhi, 1956; participated in the International Exhibition of Art in Japan, 1957; exhibited with a group of leading Indian painters in New York, Jan. 1959; participated in the San Paolo Biennial, in the International Exhibition, Japan and also in Germany, 1959; took part in Leicester Galleries London Summer Exhibition, 1959 and 1960. *Recreations:* Music, Literature. *Address:* C/o The National and Grindlays Bank Ltd., Kanpur.

KHANNA, Mehr Chand, Minister of Rehabilitation, Govt. of India, since Dec. 1954. *b.* 1897. Finance Minister, North-West Frontier Province, 1946-47; migrated to India after partition; Adviser, Ministry of Rehabilitation, Government of India, 1948-54. *Clubs:* Delhi Gymkhana Club. *Address:* New Delhi.

KHANOLKAR, Dr. Vasant Ramji, B.Sc., M.D. (London), Hon. LL.D. (Melbourne), Hon. F.R.C.P. (Edin.), F.A.Sc., F.N.I., Padma Bhushan (1955), Scientist; Director, Indian Cancer Research Centre and Laboratories, Tata Memorial Hospital, Bombay; Vice-Chancellor, Bombay Univ. *b.* April 13, 1895; *Educ.:* Bombay; graduated in Science, 1916 and in Medicine, 1918, from London Univ.; M.D. (Pathology), London Univ., 1923. Professor of Pathology, Grant Medical Coll., Bombay, 1924-25; Seth G. S. Medical Coll., Bombay, 1925-41; Director of Laboratories and Research, Tata Memorial Hospital, 1941; has done pioneering work on cancer in India

* Was due to retire about the end of Sept. 1961.

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and on cancers associated with the habits and customs of the Indian people; elected Chairman, International Cancer Research Commission, 1950; elected Pres., International Union against Cancer for four years, July 1958; member, U.N. Scientific Cttee. on the Effects of Atomic Radiation, since 1956; appointed Vice-Chairman, June 1958; has been a member of several Govt. of India Cttees. for organization of medical education and research in the country; received citation from the Cancer Cytology Foundation of America, 1960; elected Hon. Member, Austrian Cancer Society, 1960. *Publications :* 89 scientific publications, including a book entitled "A Look at Cancer". *Address : Residence :* 2, College Road, Matunga, Bombay-19; *Office :* Indian Cancer Research Centre, Parel, Bombay.

KHARE, Dr. Narayan Bhaskar, B.A., M.D. *b.* 1884. Ex-Chief Minister, M.P. Member, Leg. Council, M.P., 1923-29; imprisoned in 1930 C.D. Movement; M.L.A. (Central), 1935-37, where he placed on the Statute the "Ariya Marriage Validation Bill"; First Prime Minister of M.P., 1937-38; resigned on account of differences with Mahatma Gandhi and the Congress Working Cttee.; member, Viceroy's Executive Council Dept. of Commonwealth Relations, 1943-46; responsible for securing citizenship rights for Indians domiciled in America, saving lives of Indians accused of high treason in Malaya, for commutation of life sentences on Chimur accused and for various steps taken against South Africa; elected Pres., All-India Hindu Mahasabha at its Calcutta Session, Dec. 1949 and Poona Session, Dec. 1950 and Jaipur Special Session, April 1951; elected to Lok Sabha, 1952. *Publications : My Defence* (English), 1938; Autobiography in Marathi and Hindi, 1956 and English, 1959; *Nehru as I Know*, 1957. *Address :* Indira Mahal, Dhantoli, Nagpur.

KHER, Atmaram Govind, B.A., LL.B., Speaker, U.P. Leg. Assembly. *b.* September 25, 1894; *Educ. :* Jhansi; Central Hindu College, Banaras, and Law College, Allahabad. Chairman, Municipal Board, Jhansi, for 3 terms; member, District Board, Jhansi, for ten years; thrice member, Legislative Assembly; member, District, Provincial and All-India Congress Committees, several times; imprisoned for political activities five times; twice Parliamentary Secretary to Minister of Health and Local Self-Govt.; Minister for Local Self-Govt.; Elected Speaker, U.P. Assembly, May 21, 1952; re-elected Speaker, April 10, 1957. *Address :* 19, Mall Avenue, Lucknow.

KHOBARAGADE, Bhaurao Dewaji, B.A. (Nagpur), Barrister-at-Law (Lincoln's Inn), Founder Secretary, Republican Party of India, since Oct. 1957. *b.* Sept. 25, 1925; *Educ. :* Govt. Jubilee High School, Chanda; Coll. of Science, Nagpur; B.A. from Morris Coll., Nagpur, 1945; Bar-at-Law from Lincoln's Inn, 1949. From early life interested in uplift and emancipation of the untouchables; Secy., Scheduled Castes Students' Federation (M.P.), 1943-44; Vice-Pres., Municipal Cttee., Chanda, 1952-56; Pres., Nagpur Pradesh S. C. Federation, 1953-55; General Secy., All India S. C. F., Aug. 1955-Dec. 1956; elected Pres., All India S.C.F., Dec. 1956-Oct. 1957; Founder Pres., Presidium, an organisation to control the various educational, religious and social institutions started by late Dr. B. Ambedkar; Pres., Bombay Pradesh Bidi Majoor Sangh; Founder Pres., Siddharth Shikshan Sahayyak Sanstha (Nag-Vidarbha); elected to Rajya Sabha, March 1958. *Recreations :* Music; Cinema. *Address :* Chanda.

KHOSLA, Dr. Ajudhia Nath, B.A. (Hons.), C.E. (Roorkee), Dr. Engineering (Honorary), Rennselaer Polytechnic Institute, U.S.A., Dr. Engineering (Honoris Causa), Roorkee Univ., Padma Bhushan (1955); Member, Planning Commission, since Dec. 1959; was Vice-Chancellor, University of Roorkee, 1954-59; was M.P., 1958-59. *b.* Dec. 11, 1892; *Educ. :* D.A.V. Coll., Lahore; Thomason Coll. of Engineering, Roorkee. Indian Service of Engineers, 1919; Executive Engineer, 1926-39; Superintending Engineer, 1939-43; Chief Engineer, 1943-45; Consulting Engineer and Chairman, Central Water and Power Commission and Additional Secy., Govt. of India, 1945-53; Special Secy., Govt. of India, Ministry of Irrigation & Power, 1953; visited U.S.A. and Canada, 9 times, and many countries of Europe, Asia and Africa; Founder Pres., International Commission on Irrigation and Drainage, 1950; Honorary President, since 1954; Chairman: Bhakra Board of Consultants, since 1952; Central Board of Geophysics (India), 1950-53; Chairman, Cttee. on Railway Bridges, 1957. *Publications : Levelling of precision across Rivers—Evolved the Khosla Disc; Design of Weirs on Permeable Foundations; Silting of Reservoirs; Rainfall and Runoff; Pressure observations under Dams; Precast Concrete Trough Roofs. Address :* New Delhi.

KHOSLA, Mr. Justice Gopal Das,* B.A. (Hons.) (Cantab.), Bar-at-Law (Lincoln's Inn), I.C.S., Chief Justice, Punjab High Court. *b.* Dec. 15, 1901; *Educ. :* St. George's College, Mussoorie; Emmanuel College, Cambridge. Dist. & Sessions Judge (1930); Puisne Judge, Lahore High Court (1944). *Publications : Stern Reckoning; Our Judicial System; Himalayan Circuit; The Price of a Wife;* Short stories and articles. *Recreations :* Writing, Sport, Carpentry. *Address :* Chandigarh.

KHOSLA, His Excellency Jagan Nath, B.A. (Punjab), B.Sc. (Econ.), (London), Ph.D. (Econ.), (London). Barrister-at-Law, Indian Ambassador to Bulgaria concurrently accredited to Greece and Yugoslavia, since May 1961. *b.* Jan. 28, 1906; *Educ. :* Srinagar, Lahore, London and Paris. Taught Political Science in the Punjab Univ., 1932-48; Editor, *Indian Journal of Political Science*, 1945-48; Pres., Indian Political Science Assoc., 1947; Fellow of the Punjab Univ., 1947-48; represented India in several International Conferences; Head, Consular Deptt., High Commission of India, London, 1948-51; Charge d'Affaires of the Indian Embassy, Rome and concurrently at Belgrade, 1951-52; Head of the Historical Division, Ministry of External Affairs, 1953-54; Pres., International Commission for Control and Supervision, Laos, Indo-China, 1954-55; Ambassador to Czechoslovakia, 1955-58 and concurrently to Rumania, Feb.-Oct. 1958; Ambassador to Indonesia, 1958-61. *Publications :* Scientific papers in journals. *Club :* The Gymkhana Club, Delhi. *Address :* C/o External Affairs Ministry, New Delhi.

KIDWAI, H.E. Mr. Mustafa Kamil, B.A., LL.B., Commissioner in Mauritius, since May 1961. *b.* April 16, 1908 at Masauli, Barabanki, U.P.; *Educ. :* Aligarh Muslim Univ., U.P.; Lucknow Univ. Judicial Officer with Civil and Criminal Powers, U.P. Judicial Service, 1934-46; Under Secy. and Asstt. Legal Remembrancer, U.P. Govt., 1946-47; attached to the Ministry of Law, Govt. of India, 1947-48; Deputy Secy. and Dy. Legal Remembrancer, U.P. Govt., 1948-49; Secy., Durgah Khwaja Ajmer Enquiry Cttee., appointed by Ministry of Home Affairs, Govt. of India, 1949-50; Dy. Secy. and Dy. Legal Remembrancer, U.P., 1950-51; Consul-General of India in Saudi Arabia, 1951-54; Charge d'Affaires, Indian Legation, Jeddah, 1954-55; Minister, Legation of India, Jeddah, 1955-56; Ambassador in Saudi Arabia, 1957-61. *Recreations :* Tennis. *Address :* C/o External Affairs Ministry, New Delhi.

KILACHAND, Ambalal, J.P., Greater Bombay, Business man. *b.* July 23, 1912; *Educ. :* Elphinstone High School, Bombay and in England. Director, Kilachand Devchand & Co. Private Ltd., and their associated companies as also other private & Public Limited concerns such as the Kesar Sugar Works Ltd., The New Great Insurance Co., of India Ltd., The Indian Dye-stuff Industries Ltd., The Polychem Ltd.; Trustee, Bombay Port Trust, 1957-60; member: Customs Advisory Cttee.; Pres., Indian Merchants' Chamber, 1953-54; was member, Import Advisory Council set up by the Govt. of India since its inception up to 1956; is an ardent Rotarian; has extensively travelled in the U.K., Europe and the Far Eastern countries including Japan for developing his firm's business. *Recreations :* Riding, Golfing, Shooting, Photography, Gardening, Art Collecting. *Clubs :* Willingdon Sports Club, Rotary Club of Bombay, Cricket Club of India, Radio Club, NASCO, R.W.I.T.C. Ltd. *Address : Office :* 45/47, Apollo Street, Fort, Bombay 1; *Residence :* 95, Nepean Sea Road, Bombay 6.

KILACHAND, Chinubhai, Business man. *b.* June 20, 1919; *Educ. :* Fellowship High School and St. Xavier's, Bombay and in England. On his return from England, joined the family firm of Kilachand Devchand & Co. Private Ltd., 1939; has been responsible for developing its Foreign Cotton Deptt.; Director: Kilachand Devchand & Co. Private Ltd. and its associated companies; also of other public companies; Joint Managing Director, Premier Automobiles Ltd.; Pres., I.R.T.D.A. & Chairman, I.S.A. Ltd., Bombay; has travelled widely in the U.K., Europe and in the United States of America in connection with the development of the business of his firm; is a prominent figure in the social circles in Bombay, Delhi and other important cities of India. *Recreations :* Golf, Tennis, Classical music European and Indian. *Clubs :* Willingdon Sports Club, Cricket Club of India, N.S.C.I., R.W.I.T.C. Ltd., etc. *Address : Office :* 45/47, Apollo Street, Fort, Bombay 1; *Residence :* 95, Nepean Sea Road, Bombay 6.

KILACHAND, Ramdas, Business man. *b.* Sept. 18, 1909; *Educ. :* Elphinstone High School, Bombay and in England. On his return from England, joined his family firm of Kilachand Devchand & Co., Ltd., 1926; developed the Company's cotton and oilseeds export business; Director, East India Cotton Assoc. Ltd., for over 15 years; was its Vice-Pres. for some time; Pres., Bombay Oilseeds & Oils Exchange Ltd.; is Director: Kesar Sugar Works, Ltd.; Polychem Ltd.; Synthetics & Chemicals Ltd. and etc. Ex-Trustee, Bombay Port Trust; Pres., Indian Merchants' Chamber, 1948-49; member: Indian Central Oilseeds Cttee.; Export Promotion Advisory Council set up by the Govt. of India; elected M.L.A., Bombay in the general elections in 1952, as an Independent from a constituency in Mehsana District in north Gujarat; Trustee, Bombay Panjarapole; has widely travelled in the U.K., and the Continent of Europe, the U.S.A. and the Far East. *Recreations :* Golf. *Clubs :* Willingdon

* Is due to retire in Dec. 1961.

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Sports Club, Radio Club, Cricket Club of India and The Royal Western India Turf Club Limited. *Address : Office :* 45/47, Apollo Street, Fort, Bombay 1 ; *Residence :* 95, Nepean Sea Road, Bombay 6.

KILACHAND, Tulsidas, J.P., Bombay (1947), Business man. *b.* July 1, 1906 ; *Educ. :* Elphinstone High School, Bombay, and privately in England. Joined his father's firm Kilachand Devchand & Co., Ltd., at the early age of 18 ; is actively interested in banking, insurance, shipping, automobile, chemical and sugar industry ; member, Trade Delegation to China, 1946 ; Leader, Govt. of India's Trade Mission to Japan, 1947 ; was member : Export Advisory Council of the Govt. of India ; Three-Man High Power Import Control Inquiry Cttee., which inquired into the working of the Import Control in India, 1950, furnished a very valuable report ; member : Planning Commission Advisory Board, 1950-51 ; Standing Cttee, Indian Council of Agricultural Research ; Pres., Federation of Indian Chambers of Commerce & Industry, New Delhi, 1950-51 ; elected M.P. in the General Elections in 1952 as an independent from Mehsana District in north Guja at ; has widely travelled in the U.K., Europe, U.S.A., and the Far East ; is member, Standing Cttee. of the Export Promotion Advisory Council. *Recreations :* Golf, Tennis. *Clubs :* Willingdon Sports Club, Bombay ; Radio Club, C.C.I., R.W.I.T.C., Delhi Gymkhana Club, Delhi Golf Club, etc. *Address : Office :* 45/47, Apollo Street, Fort, Bombay 1 ; *Residence :* 95, Nepean Sea Road, Bombay 6.

KIRKE, Commodore David Walter, O.B.E. (1945), R.N., Chief of Naval Aviation, Indian Navy. *b.* March 13, 1915 ; *Educ. :* Dartmouth. Served China station, 1933-35 ; became naval Pilot, 1937 ; served throughout war as pilot ; Russian Convoys, Saler no. D-Day, Etc. ; since war, routine naval appointments. *Recreations :* All Games. *Clubs :* Naval and military. *Address :* 21, Akbar Road, New Delhi.

KIRLOSKAR, Shantanu Lakshman, B.Sc. (M.I.T.), Industrialist ; General Manager, Kirloskar Oil Engines Ltd., Poona. *b.* May 28, 1903, at Sholapur ; *Educ. :* Massachusetts Institute of Technology, U.S.A., 1926. Manager, 1939 and Managing Dir., 1946, with Kirloskar Bros. Ltd., Kirloskarwadi ; Chairman : Indian Machine Tool Manufacturers' Assoc. ; Mahratta Chamber of Commerce ; Engineering Division Council of Indian Standards Institute, etc. ; member : Koyna Control Board, Advisory Council of Export Risk Insurance Corporation, Indian Standards Institution, etc. ; Director : British India General Insurance Co., State Bank of India (Regional Advisory Council for Bombay), Kirloskar Electric Co., Kirloskar Pneumatic Co., Lakaki Works, Delhi Cloth & General Mills Co. Ltd., Indian Telephone Industries Ltd., etc. *Clubs :* Rotary Club ; Poona Club ; Royal Western India Turf Club ; Western India Automobile Assoc. ; Club of Maharashtra, etc. *Address :* 'Lakaki', Shivajinagar, Poona.

KIRPALANI, H. E. Motiram Khushiram, B.A. (Oxon.), C.I.E. (1945), Indian Ambassador to Brazil, since June, 1958. *b.* Aug. 15, 1901 ; *Educ.* Academy, Hyderabad (Sind) and New College, Oxford. Joined the Indian Civil Service, 1926 ; was Magistrate and Collector, Midnapore, 1934 ; Excise Commissioner, Bengal, 1938 ; Secretary, Commerce Department, 1945-47 ; Joint Secretary, Govt. of India, Ministry of States, 1948 ; was Dy. High Commissioner for India in Pakistan ; Minister, Indian Embassy in Washington ; Ambassador Extraordinary and Plenipotentiary in Bangkok, Thailand ; Chief Commissioner, Pondicherry. *Address :* Embassy of India, Rio de Janeiro, Brazil.

KNOX, Most Rev. James R., Titular Archbishop of Melitene ; Apostolic Internuncio to India, since 1957. *b.* March 2, 1914 ; *Educ. :* Urban Coll. "de Propaganda Fide", Rome. Vice-Rector, Coll. "de Propaganda Fide", 1945-48 ; attached to Secretariat of State of His Holiness Pope Pius XII, 1948-50 ; Secy. of the Apostolic Internunciature, Tokyo, Japan, 1950 ; nominated Apostolic Delegate, British East and West Africa, 1953. *Address :* Apostolic Internunciature, Chanakya Puri, New Delhi 21.

KOHLI, Dharamnath Prasad, I.P., M.Sc. (Allahabad) ; awarded the 'Police Medal' (1947) ; 'President's Police Medal' (1956) ; Inspector-General of Police, Special Police Establishment, Ministry of Home Affairs, Govt. of India, since July 1955. *b.* Feb. 8, 1907 ; *Educ. :* Queen's Coll., Banaras ; Allahabad Univ. Joined the Indian Police, Jan. 5, 1931 ; Asstt. Supdt. and Supdt. of Police in districts of U.P. up to 1942 ; Addl. Asstt. to I.G. of Police from 1942–45 ; Asstt. I.G. of Police, U.P., 1945–47 ; D.I.G. of Police, U.P., 1947–49 ; served as D.I.G., C.I.D., U.P., Nov. 1949–Jan. 1954 ; I.G.P., Madhya Bharat, 1954–55. *Recreations :* Hockey, Tennis, Golf, Riding. *Address :* C/o Ministry of Home Affairs, Govt. of India, New Delhi.

KOTAH, Brig. His Highness Maharajadhiraj Mahi-mahendra Maharao Raja Shri Sir Bhim Singhji Sahib Bahadur, K.C.S.I., LL.D., the Maharao of. *b.* 1909, the ruling family belongs to the Hara Sect of Chauhan Rajputs and is an offshoot of the Bundi family, the State having come into existence about 1625 during the reign of Madho Singhji, 2nd son of Rao Ratan of Bundi ; the Heir-Apparent, Maharaj Kumar Brijraj Singhji Sahib. *b.* Feb. 21, 1934 ; *Educ. :* Mayo Coll., Ajmer. Ascended the *gadi*, 1940 ; Uprajpramukh of Rajasthan, 1948-56 ; Alternate Delegate in the Indian Delegation to the United Nations General Assembly at New York, 1955. *Address :* Kotah, Rajasthan.

KOTHARI, Daulat Singh, M.Sc. (Allahabad), Ph.D. (Cambridge), F.N.I., Chairman, Univ. Grants Commission, since Feb. 1961 ; Professor of Physics, Delhi University, and Scientific Adviser to the Minister of Defence, Govt. of India. *b.* 1906 ; *Educ. :* Udaipur, Indore, Allahabad and Cambridge ; studied physics under Dr. Megh Nath Saha at Allahabad Univ. Appointed on the staff of Physics Dept., Allahabad Univ., 1928 ; joined Delhi Univ., 1934 and the Ministry of Defence, 1948 ; has been Pres., Indian Physical Society ; is Vice-Pres., National Institute of Sciences of India. *Publications :* Published numerous papers in Indian and foreign scientific journals on Statistical Thermodynamics, Theory of White Dwarf Stars, and other Physical and Astrophysical subjects ; showed that atoms can be ionized (broken down) by the application of pressure alone ; *Nuclear Explosions. Address :* Delhi.

KOTHARI, Dayanand Chandulal, M.A. (Madras), Business man & Industrialist ; Senior Partner, Kothari & Sons, Madras. *b.* Feb. 1914 ; *Educ. :* Madras Christian Coll. Ex-Pres. : United Planters' Assoc. of Southern India ; Hindustan Chamber of Commerce, Madras ; member : All-India Manufacturers' Assoc. ; Export Advisory Cttee., constituted by the Govt. of India ; Indian Central Cotton Cttee. ; Cttee. of Federation of Indian Chambers of Commerce and Industry ; Cttee. of the All-India Organisation of Industrial Employers ; Southern India Chamber of Commerce ; ex-Sheriff of Madras ; Director : Kothari Textiles Ltd., Adoni Spg. & Wvg. Co. Ltd., The Investment Trust of India Ltd., The Balmadies Plantations Ltd., The Devon Tea & Produce Co. Ltd., Poysha Industrial Co. (Private) Ltd., Madras Aluminium Co. and several others ; member, Madras State & Andhra State Industries Development Cttee. ; Company Law Advisory Commission, Govt. of India ; Chairman, Madras School of Social Work ; Cotton Textile Loan Advisory Cttee. *Publications : Investors' Encyclopaedia. Address : Residence :* "Kothari House," No. 3, Kothari Road, off Sterling Road, Nungambakkam, Madras.

KOTHARI, Harshad Chandulal, Share, Stock Exchange Broker & Director and Managing Agent ; Partner, Kothari & Sons, Madras. *b.* April 18, 1918 ; *Educ. :* Madras Christian Coll. Pres. : Hindustan Chamber of Commerce ; member : Tea Board ; Exec. Cttee. of the Assoc. of Planters of Madras State ; Madras Port Advisory Council ; Exec. Cttee., Southern India Chamber of Commerce ; Southern India Millowners' Assoc ; Export Advisory Council ; All-India Organization of Industrial Employers ; Working Cttee. Group for preparatory work for the 3rd Five Year Plan relating to tea industry, and several others ; is Director : Adoni Spinning & Weaving Co. Ltd., Adoni ; Amrutanjan Ltd., Madras ; Balmadies Plantations Ltd., Madras ; Investment & Finance Corpn. Pvt. Ltd., Madras ; Kothari Mehta & Co. Pvt. Ltd. ; Kothari & Sons (Agencies) Pvt. Ltd. ; Kothari & Sons (Industries) Pvt. Ltd. and several others ; was President : Madras Stock Exchange Ltd. ; ex-Vice-Chairman, Tea Board ; ex-Trustee, Madras Port Trust ; Pres., United Planters' Association of Southern India, Coonoor ; Employers' delegate of the Govt. of India to the International Labour Conference on Plantations, Havana, 1953 ; attended India Labour Conference, Mysore, 1953 ; has travelled extensively in the Continent, States and Indonesia. *Address : Office :* Oriental Buildings, Armenian Street, Madras 1 ; *Residence :* 4-A.A., Nungambakkam High Road, Madras 6.

KOTHAWALA, Lt.-Col. Jamshed Dorabsha, C.St.J., J.P., A.I.R.O. (Retd.). Sheriff of Bombay, Consul ad honorem of the Republic of the Philippines, Bombay, 1957–1960 ; Past Governor, Rotary International, Commander-Brother, the Most Venerable Order of St. John, Jt. Managing Director, Polson Agencies Pvt. Ltd., Director, Polson Ltd., Adsites Pvt. Ltd., Sistas Pvt. Ltd. *b.* Sept. 4, 1893. Pres., Cosmopolitan Ambulance and Nursing Divns., St. John Ambulance Brigade ; Vice-Pres., East Bombay Bharat Scouts and Guides District Assoc. ; Patron, Parsee Pioneers Association ; Freemason, Past Master, S.C. and E.C. ; Past Pres., Rotary Club of Bombay and Assoc. of Indian Industries ; Past Master, Bombay Presidency Trades Assoc. ; Past Vice-Pres., All-India Manufacturers' Organization ; member : Coffee Board, nominated by the Central Govt. ; Indian Merchants' Chamber Managing Cttee. ; Western Railway Divisional Consultative Cttee. ; attended Rotary International Convention, Nice, France, 1937 ; R. I. Assembly and Convention, U.S.A., 1954 ; represented Bombay District at the Golden Jubilee, St. John Ambulance Brigade in London, 1937 ; presented at His Majesty's Levee, London, 1937 and to the President of India, 1952 ; Mrs. Kothawala presented at Court, 1937 ; called to Army service, 1940–43 ; mentioned in Despatches by order of the King for gallant and distinguished service with Middle East Forces. *Clubs :* Willingdon ; Royal W.I. Turf ; Ripon ; C.C.I. ; Radio ; W.I.A.A. ; National Sports Club of India. *Address :* Grosvenor House, Pedder Road, Bombay 26.

KRIPALANI, Acharya J.B., M.A (History and Economics), M.P. ; Director, Shri Gandhi Ashram ; Village and Khadi Organisation, U.P., Delhi. *b.* 1888. General Secretary of Indian National Congress, 1934–46 ; elected

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Pres., Indian National Congress, Oct. 1946; resigned Nov. 1947; *Educ.:* M.A., 1912. Joined Mahatma Gandhi in Champaran Satyagraha, 1917; Private Secretary to Pandit Madan Mohan Malaviya, 1918; Prof. of Politics in the Benares Hindu University, 1919; left the University and started Khadi and Village work, 1920, through the Gandhi Ashram, Benares; in charge of the Gujarat Vidyapith as Acharya (Principal), 1922–27; for the ninth time arrested and imprisoned under Defence of India Rules in Aug. 1942; released on 15th June, 1945; Member, Constituent Assembly of India, 1946–51; formed the Congress Democratic Front, 1951; resigned from Congress and formed Kisan Mazdoor Praja Party, 1951; merged K.M.P.P. with the Socialist Party, Oct. 1951; was Chairman, P.S.P. till Dec. 1954; and Railway Corruption Enquiry Committee, 1954–55; elected to Lok Sabha, 1952 and again 1957; has resigned from the P.S.P. *Publications: The Gandhian Way, The Non-Violent Revolution, The Indian National Congress, The Politics of Charkha, The Future of the Congress, The Fateful Year, Gandhi the Statesman, The Latest Fad, Basic Education, Where are we going, The Second Plan, The Gandhian Critique, Planning, Pomp and Poverty. Address:* Shri Gandhi Ashram, Meerut.

KRIPALANI, Smt. Sucheta, M.A. (Delhi Univ.), ex-M.P., Minister for Labour, U.P. since Dec. 1960. *b.* 1908; *Educ.:* Lahore and Delhi; took M.A. degree in History from the Delhi Univ. 1930. Lecturer, Hindu Univ., Banaras, 1931-39; entered active politics, 1939; acted as Secy., Foreign Affairs Deptt., A.I.C.C., 1939-40; acted as Secy., Women's Deptt., A.I.C.C., 1941-42; imprisoned in connection with the freedom struggle, 1940-41 and 1943-45; appointed Organising Secy., Kasturba Memorial Trust, 1945; elected member, Constituent Assembly, 1946; subsequently elected member of Parliament; delegate to the General Assembly of the U.N.O., 1949; Member, Congress Working Cttee. (National Executive), 1948-51; resigned from the Congress, June 1951; joined the Kisan Mazdoor Praja Party; was member, National Executive of the Party; was elected member, National Executive, P.S.P. after the merger of the K.M.P.P. and the Socialist Party. Elected to Lok Sabha in 1952 and again 1957; rejoined the Congress; Gen. Secy., Indian National Congress, 1958–60. *Recreations:* Music; Painting. *Address:* 30, Prithvi Raj Road, New Delhi.

KRISHNA, Kanwal, Painter; Head of the Art Deptt., Modern School, New Delhi, since June 1953. *b.* Jan. 3, 1910 in Montgomery, West Punjab; *Educ.:* Lahore; Engineering Coll., Benaras; School of Art, Calcutta. Held a one man show in Calcutta, the first solo-exhibition of a student artist in India, 1938; was the first Indian war artist to be commissioned by the Army to paint the battle scenes during the Kashmir operations 1948; held three exhibitions of his paintings in Norway and another at Stockholm; Chairman, Delhi Silpi Chakra; visited England to teach Art at the Haileybury and Imperial Services colleges for the summer term; visited Rumania to study the art trends there, 1957; three of his new experiments on the technique in etching and engraving were exhibited in the International Graphic Art Exhibition, Switzerland, 1958; exhibited in the exhibition "Trends in Modern Indian Art" organised by the International Cultural Centre in New Delhi, Jan. 1959. Awarded Governor's Gold Medal for experiments in Graphic Art, 1960. *Publications:* Contributed several articles to important journals in India and abroad. *Address:* Head, Art Department, Modern School, New Delhi.

KRISHNAMACHARI, Tiruvallur Thattai, M.P. (Lok Sabha), Ex-Finance Minister, Govt. of India. *b.* Nov. 26, 1899; *Educ.:* Madras Christian College, Madras. Entered business, 1921; was elected representative of the Indian Commerce Constituency to the Madras Leg. Assembly, 1937 and played a prominent part in legislative and other work in the Madras Assembly during the time of the Congress Ministry; has been taking keen interest in the Indian mercantile organisations in Madras State and the economic life of the State in general; elected to the Central Assembly in October 1942 in bye-election for Tanjore-Trichinopoly non-Mohammedan Rural Constituency and was a prominent member in the last Central Assembly; elected member, Constituent Assembly of India, 1946; member, Drafting Cttee. of the Indian Constitution; Minister for Commerce and Industry, Govt. of India, May 1952–Aug. 31, 1956; was Minister for Iron and Steel, June 1955 to April 1957; Minister for Finance, Govt. of India, Sept. 1, 1956–Feb. 14, 1958; resigned Ministership, Feb. 14, 1958. *Address:* Staff Colony, Agaram Road, Tambaram, Madras.

KRISHNAMACHARI, Sir V. T., B.A., B.L. (Madras), K.C.S.I., K.C.I.E., Ex-Deputy Chairman, National Planning Commission, 1953–60. *b.* Feb. 8, 1881; *Educ.:* Presidency Coll., Madras. Entered the Madras service, April 1903; Under-Secy. to the Govt. (1916-18); Special duty on Montague-Chelmsford reforms (1918-19); Collector (Ramnad Dist.); Secy. to the Govt. of Madras (1924-27); Prime Minister, Baroda State (1927-44); Delegate to the League of Nations, 1934 and 1936; attended all the Round Table Conferences in London; was member, Reserve Bank Cttee., Federal Finance Cttee., etc.; Adviser to the Imperial Conference, 1937; Chairman, Cttee. of Ministers, Chamber of Princes, 1940-44; Prime Minister of Jaipur (1946-49); Member, Indian Delegation to the Sterling balances talks in London (June 1948); Chairman, Indian States' Finance Enquiry Cttee. (1948-49); Vice-Pres., Constituent Assembly (1946-49); Chairman, Indian Fiscal Commission (1949-50); member, National Planning Commn., 1950-53. *Publications:* Speeches. *Clubs:* National Liberal Club, London; Cosmopolitan Club, Madras; Delhi Gymkhana Club. *Address:* C/o 5, Janpath, New Delhi.

KRISHNAN, Mr. Justice Harikesanalur Ramasastri, B.A. (Madras), M.Sc. (Benares), I.C.S., Judge, High Court, M.P., since 1957. *b.* Jan. 9, 1910; *Educ.:* T. H. School, Ambasamudram; Hindu Coll., Tirunelveli; Presidency Coll., Madras; Benares Hindu Univ.; Sidney Sussex Coll., Cambridge. Joined the Indian Civil Service, 1935; S.D.O. and Dt. Judge at different places in Bihar; Law Secy. to the Govt. of Orissa; Judicial Commissioner, Vindhya Pradesh, 1950-53; Jt. Secy., Min. of Law, Govt. of India (1953-57). *Publications:* Occasional articles in newspapers and magazines. *Recreations:* Bridge, Tennis, Photography. *Address:* Indore.

KRISHNAN, Dr. Maharajapuram Sitaram, M.A. (Madras), A.R.C.S., D.I.C., Ph.D. (London), Head, Deptt. of Geophysics, Andhra Univ., since 1959. *b.* Aug. 24, 1898; *Educ.:* St. Joseph's Coll., Tiruchirapalli; Presidency Coll., Madras; and Imperial Coll. of Science and Technology, London. Director, Indian Bureau of Mines, 1948-51; Fellow of the National Institute of Sciences of the Indian Academy of Sciences and of several geological and mineralogical societies at home and abroad; Chairman, Metallurgical Coal Cttee., 1950; member of several Govt. Research Cttees.; Director, Geological Survey of India, 1951-55; General Pres., Indian Science Congress, 1956; Jt. Secretary, Ministry of Natural Resources, 1955-57; Dir., Indian School of Mines, 1957-58. *Publications: Geology of India & Burma* (Madras 1943, 4th edition, 1960); *Introduction to the Geology of India* (Madras 1944, 1951, 1959); *Geology of Gangpur State, Orissa* (1938); *Mineral Resources of Madras* (1952); *Structural & Tectonic History of India* (1953); More than 100 other papers on geological topics. *Address:* C/o Andhra Univ., Waltair.

KRISHNAN, Ramanathan, a leading tennis player. *b.* April 11, 1937; *Educ.:* Loyolla Coll., Madras; National Lawn Tennis Champion of India, 1954, 1957, 1959 and 1960; Wimbledon Junior Lawn Tennis Champion, 1954. Won the London Grass Court Championship, and the American Hard Court Championship, 1959; won the Lawn Tennis Championship of Asia, 1959; was first Indian to enter semi-finals at Wimbledon, 1960; has played for India in the Davis Cup since 1953. *Recreations:* Tennis. *Address:* 'Ram Nivas,' 37, Thiruvenkatam Street, Raja Annamalaipuram Post, Madras 28.

KRISHNAPPA, M. V., Deputy Minister of Agriculture, Govt. of India, since 1957. *b.* 1918; *Educ.:* Joined school at a late age; after release from imprisonment for 2½ years in the 'Quit India' movement, passed B.A. Exam.; joined Madras Law Coll. Elected M.L.A., Mysore, 1944; Chief Whip, Congress Party, Mysore State Assembly, 1944-52; ex-Pres., Mulbagal Development Cttee.; Pres., Co-operative Multipurpose Society, Mulbagal, Mysore State; Dir., State-managed Bhadravati Iron, Steel and Cement Works, for 5 years; member, Dist. Board for 8 years; Secy., Reception Cttee., Bangalore Session of the A.I.C.C.; returned to the Lok Sabha from Kolar Gold Fields Constituency, Mysore State, 1952, and again in 1957 from Tumkur; appointed Parliamentary Secy. to Food Minister, 1952, after a month promoted Deputy to Food Minister late Rafi Ahmed Kidwai. *Address:* New Delhi.

KRISHNASWAMI, Annasamy, B.Sc., A.I.I.Sc., Chief Secretary, Pondicherry, since March 1958. *b.* Dec. 25, 1919; *Educ.:* Loyola Coll., Madras and Presidency Coll., Madras; Associate, Indian Institute of Science, Bangalore. Joined Air Force, April 1943; left the Air Force as Flt. Lieut., April 1947; was in I.A.S. Training School on Special Duty as Asstt. Commissioner (Refugees) in Punjab, April-Dec. 1947; Asstt. Collector, Masulipatam, 1947-49; Sub-Collector, Ongole, 1949-52; Collector of Krishna, April to May 1952; Collector of Guntur, 1952-53; Collector of Cuddapah, 1953-54; Deputy Secy., ducation Deptt., Andhra Govt., Kurnool, 1954-55; Jt. Secy., Home Deptt., Andhra Govt., 1955-56; Collector, East Godavari Dist., 1956-March 1958. *Recreations:* Bridge, shooting and general reading. *Clubs:* Secunderabad Club. *Address:* Pondicherry.

KRISHNASWAMI, K. S., Managing Director, National Buildings Construction Corporation. Has a good background relating to works and construction costs; Chairman: Vigyan Bhavan Construction Cttee.; India 1958 Exhibition Construction Cttee.; Fellow of the Institute of Cost and Works Accounts, India; has also served for many years in the Finance Ministry, and was associated with large military works; retired from Govt. service as Joint Secy. (Works), Ministry of Works, Housing and Supply, Sept. 1959; re-employed in the Ministry as Officer on Special Duty in connection with the setting up of the National Buildings Construction Corporation. *Address:* National Buildings Construction Corporation.

KULKARNI, Dharmraj Shamrao, B.Com. (Bombay), Business man. *b.* Aug. 31, 1922; *Educ.:* Bombay. Hon. Gen. Secy., Indian Rubber Industries Assoc.; Proprietor, Sanitary Rubber Mfg. Co.; Partner, High Polymer Corporation; Jt. Secy., Bharatiya Natya Sangh; Ex-Gen. Secy., Indian National Theatre; is actively connected with the rubber manufacturing industry in India for well over a decade; takes keen interest in dramatic and cultural activities; Editor, *Rubber News* — a monthly journal published by Polymer Publications. *Address:* (*Office*) High Polymer Corporation, 17G, Cawasji Patel St., Bombay 1; *Residence:* Sneha Villa, 4, Podar St., Santacruz West, Bombay 54.

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KULKARNI, Ganesh Bhaurao, M.Com. (Bombay), M.Sc. (Econ.) (Lond.), Economic Adviser, State Bank of India, since July 1959. *b.* Dec. 15, 1917; *Educ.:* Rajaram High School, Kolhapur; Sardars' High School, Belgaum; Sydenham Coll. of Commerce & Economics, Bombay; London School of Economics, London. Prof. of Banking (B.E.S.), Nov. 1953–March, 1954; Prof. of Commerce (B.E.S.), Nov. 1954-Oct. 1956; member, Board of Studies in Commerce, Univ. of Bombay, since June 1955; Company Commander (Captain) in N.C.C., 1954-56; Senior Research Officer, State Bank of India, Oct. 1956-July 1959; Director nominated by the Govt. of India on the Bombay Oilseeds Exchange Ltd., since 1958; Director nominated by the Govt. of Bombay on the Bombay Bullion Assoc., since 1958. *Publications: Economic Organization. Recreations:* Indian classical music; Marathi Drama; Swimming. *Address:* Economic Adviser, State Bank of India, Central Office, Bombay 1.

KULKARNI, K. S., G.D. Art, Painter and Sculptor. *b.* April 7, 1918; *Educ.:* G.D. Art from Sir J. J. School of Art, Bombay, 1940; was mural decoration scholar awarded by Bombay Govt.; Research Scholar, Sir Ratan Tata Trust for Indian Painting, 1940-41; held one man shows of his paintings in India and in the United States and European Countries, 1950-51; represented India at the International Arts Programme in the U.S.A., 1950-51; has travelled widely in India and Western Countries; one of the Founder Members and Chairman of the Delhi Silpi Chakra; Examiner for Diploma, All India Technical Board, Ministry of Education, Govt. of India; won a bronze medal at the International Exhibition in London, 1947. *Publications: Human form in Indian Sculpture. Address:* 12/7, W.E.A., Karol Bagh, New Delhi 5.

KULKARNI, Shankar Balwantrao, A.M., F.R.S.A., Chief Artist, Social Welfare Department, Maharashtra (Nagpur Division), Nagpur. *b.* Oct. 15, 1906; *Educ.:* Nagpur and Bombay. Was a leading artist and designer in Sind till partition; Founder, Oriental Institute of Fine Arts, and responsible for two All India Art Exhibitions at Karachi; his paintings, illustrations and commercial designs published in most of the important journals of India and Pakistan; was Cartoonist to the *Sind Observer* and the *Daily Gazette;* recipient of several awards and gold medals; awarded President of India's 1951 Census Medal; Leader of Madhya Pradesh Contingent at Republic Day Celebrations, Delhi, 1954, 1955 and 1956. *Publications: Children's Picture Album; Heroines of Shah: Drawing Course;* contributed several articles on art and history to various journals. *Recreations:* Collection of art library and Indian art curios. *Address:* Subhas Chandra Road, Nagpur City.

KULKARNI, Waman Laxman, M.A., B.T., Marathi Writer; Prof. and Head of the Deptt. of Marathi, Marathwada Univ., since 1959. *b.* April 6, 1911; *Educ.:* Govt. High School, Nasik; Wilson Coll., Bombay; won the Chiplunkar Marathi prize. Teacher, Wilson High School, Bombay, 1936–44; elected: Sectional Chairman, Criticism Section, 39th All India Marathi Sahitya Sammelan, Aurangabad, 1957; Chairman, Fiction Section, 40th All India Marathi Sahitya Sammelan, Malwan, 1958; Prof. and Head of the Dept. of Marathi, Wilson Col., Bombay, 1944–59; member, State Board of Literature & Culture, Maharashtra. *Publications: Waman Malhar; Wangmaya-darshan* (1944); *Wangmayatil Wadasthale* (1946); *Wangmayeen Mate' ani Matabhed* (1949); *Wangmayeen Teepa ani Tippani* (1954); *Shripad Krishna: Wangmaya-darshan* (1959); *Wangmayeen Drishti ani Drishtikon* (1959). *Address:* Marathi Dept., Marathwada University, Aurangapura, Aurangabad (Dn.).

KUMAR, Jitendra, B.A. (Hons.) (Calcutta), Viswabharati Diploma in Fine Arts, Sculptor; Head, Fine Arts Deptt., Gorakhpur Univ. *b.* June 25, 1922, at Najibabad; *Educ.:* Shiksha Bhavan and Kala Bhavan, Santiniketan; Visvabharati. Studied stone carving for six months in Nepal; won three prizes in graphic art and traditional painting from Mussoorie; held his 1st one man show at Mussoorie, 1952; won All-India prizes for his sculptures in wood at Bombay, 1955, '57 and '58; awarded by Lalit Kala Akademi the President's award for his sculpture 'Dipping Hair', 1956; member, cultural delegation to China, 1956; two of his sculptures have been sent by the Govt. of India to S. E. Asia and Europe for touring exhibition; works in stone, wood, concrete, oil, water colour, etchings and woodcuts. *Address:* C/o Gorakhpur University, Gorakhpur, U.P.

KUMAR, Naresh, B.Com., Business man; leading tennis player. *b.* Dec. 22, 1928; *Educ.:* St. Xavier's Coll., Calcutta; Govt. Coll., Lahore. National Junior Tennis Champion, 1945, 1946; ranked India's No. 1, 1951-52; member of Indian Davis Cup Team, 1952-53–54–55–56–57–58–59–60; Captain, Indian Davis Cup Team, 1955–56–57–58–59–60; winner of Irish Championships, 1952 and 1953; ranked India's No. 2, 1955–56, 1958–59; Winner of: Essex Championships, 1957; National Championships of India in doubles with R. Krishnan, 1956–57–58–59; North of England Championships, 1957, 1958, and 1959 in doubles; Mixed Doubles Championships with Mrs. K. Singh, 1956–57–58–59; reached mixed doubles quarter-finals at Wimbledon with Miss E. Buding (Germany), 1957; reached men's doubles quarter-finals with R. Krishnan, Wimbledon after beating holders G. Mulloy and B. Patty, 1958; won doubles championships of Moscow with A. Huber (Austria), 1957. *Recreations:* Model Aeroplanes, Tropical Fishes. *Clubs:* Calcutta South Club; Delhi Gymkhana Club. *Address:* 1-A, Russell Street, Calcutta.

KUMAR, Shanti Swarup, M.Sc. (Eng.) (Lond.), M.Sc. (Physics) (Punjab), B.Sc. (Hons.) (Eng.), (Lond.), A.C.G.I. (Lond.), D.I.C. (Lond.), M.I.E. (India), M.I.E.E. (Lond.), M.Am.I.E.E., Member (Thermal), Central Water and Power Commission, Ministry of Irrigation and Power, Govt. of India, since May 30, 1955. *b.* July 15, 1902; *Educ.:* Govt. Coll., Lahore and Imperial Coll. of Science and Technology, London. Joined Punjab Govt.'s Electricity Deptt., 1934; as Projects Engineer (1944-48); designed Rasul Hydel Project and Bhakra Nangal Hydel Project; Chief Engineer and Secy. to Govt., Electricity Deptt., Punjab, 1948-55; executed Nangal Power Project; had been abroad four times to European countries and U.S.A. since 1945; led Indian delegation round Europe including U.S.S.R., U.S.A. and Japan, 1956. *Recreations:* Tennis. *Clubs:* Gymkhana Club, New Delhi. *Address:* Member, Power Wing, Central Water & Power Commission, Shahjahan Road, New Delhi.

KUMARAYYA, Mr. Justice Nampalli, B.A., LL.B., Judge, High Court of Andhra Pradesh, Hyderabad, since October 23, 1957. *b.* June 15, 1909; *Educ.:* B.A. from Osmania Univ., Hyderabad, 1929. Selected for Hyderabad Civil Service and allotted to the Judicial Deptt.; started as Munsif Magistrate, 1935; became Divisional and Sessions Judge, 1948; entrusted with various onerous additional duties, 1949-55; appointed Special Judge for Laik Ali's escape case and other Ex-Ministers' case; Pres.: Industrial Tribunal, 1949–50; Election Tribunal; Agricultural Income-tax Tribunal; Advisory Board under Hyderabad Public Security Measures; member, Advisory Board to the Govt. constituted under the Preventive Detention Act; Chairman, Wage Board for some of the industries in Hyderabad State; Judge, Hyderabad High Court, 1955; Addl. Judge, Andhra Pradesh High Court. *Address:* 14-A, Maredpally East, Secunderabad.

KUNDU, Dr. B. C., M.A., Ph.D. (Leeds), F.L.S., F.B.S., F.N.I., Head of the Division of Botany, Central Drug Research Institute, Lucknow, since 1961. *b.* April 1905; *Educ.:* Calcutta Univ., Calcutta; Leeds Univ., England; obtained 1st Class Master's degree in Botany, 1927, topping the list; Sir Rash Behari Ghosh Research Scholar, Calcutta Univ., 1928–30. Lecturer and Head of the Deptt. of Botany, Rajshahi Coll., 1930–37; Prof. of Botany, Presidency Coll., Calcutta and Hon. Lecturer, Calcutta Univ., 1939–45; Pres., Botany Section, Indian Science Congress, Hyderabad Session, 1954; Bengal Botanical Society, since 1957; member: Council, National Institute of Sciences of India, since 1958; Executive Cttee., Indian Science Congress, 1951–54; Council, Indian Science Congress, 1955–57; Cttee., Indian Science News Assoc., etc.; earned recognition for his contribution on the origin and development of jute and hemp fibres; Director, Jute Agricultural Research Institute, 1945–61. *Publications:* Several text-books on botany and biology; Jute in India; a monograph; monograph on Indian Charophyta; about 100 papers on Plant Anatomy, Plant Breeding, Systematic Botany, etc. *Address:* Lucknow.

KUNHAMBU, K., Minister for Harijan Uplift, Kerala State, since Feb. 22, 1960. *b.* June 1, 1924; *Educ.:* Passed E.S.L.C. and completed Teachers' training. Worked actively for Harijan uplift; served as teacher; arrested for communist activities, 1948; after release, worked as a handloom weaver; later joined Congress and started full-time political work; elected to the Kerala Leg. Assembly, from Ponnani Reserved Constituency, 1957. *Address:* Baliapatam, Cannanore.

KUNZRU, Pandit Hriday Nath, B.A., B.Sc., LL.D. (Hon.), M.P. (Rajya Sabha), President, Servants of India Society, since 1936. *b.* 1887; *Educ.:* Allahabad Univ.; London School of Economics. Joined the Servants of India Society, 1909; member: U.P. Leg. Council, 1921-23; Central Leg. Assembly, 1927-30; Indian Constituent Assembly and the Provisional Parliament; Pres., East African National Congress, 1920; National Liberal Federation, 1934; Chairman, Indian Delegation to the second British Commonwealth Conference; Chairman, Railways Corruption Enquiry Committee for a short time; member, States Reorganization Commission; Leader, Indian Delegation to: South Africa, 1950; Institute of Pacific Relations Conference, Kyoto (Japan); Chairman: U. P. Univ. Grants Cttee.; Indian School of International Studies, New Delhi; Pres.: Indian Council of World Affairs; Children's Film Society; member: Central Univ. Grants Commission; Executive Councils of Delhi, Banaras and Allahabad Univs.; National Commissioner, Bharat Scouts and Guides; Leader of the delegation to World Inter-Parliamentary Conference held in London, Sept. 1957. *Address:* 18, Feroz Shah Road, New Delhi.

KURUP, G. Sankara, 'Kavithilakan', Sahitya Salahkar, AIR, Malayalam Writer; Retd. Malayalam Professor, Maharaja's Coll., Ernakulam. Member: Kerala Sahitya Akademi; Advisory Board of Sahitya Akademi. *b.* June 1901; *Educ.:* mostly privately after High School Course. Joined service as teacher, 1921; served in High Schools, Training Institution and College; began publishing poems from the seventeenth year. *Publications:* Poems: *Sahitya Kautukum; Viswadarsanam; Vanagayakan; Suryakanti; Navalthithi; Muthukal; Ithalukal; Pathikande Pattu; Antardaham; Vellil Paravakal; Nimisham,* etc.; Translations: *Meghachchaya* (a rendering of Kalidasa's Megha Dutha); *Vilasalahari*

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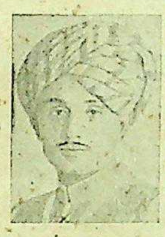
(Roobayyath of Omar Khayyam) and Gitanjali from Bengali; One Act Plays: *Iruttinumunpu; Sandhya; August Fifteenth*, etc.; Prose: *Gadyopaharam; Lekhamala; Rakknyilukal; Muthum Chippiyum*; Children's poems: *Ilamchundukal*. *Recreation:* Chess. *Club:* P.E.N. *Address:* All India Radio, Trivandrum.

KURUP, Thakazhi Poyippilli Kalathil Kunju, Award by the Union President for Kathakali Guru or Kathakali Dance, Kathakali Natyaachariyan, Kalathilakam by the Zamorin of Kozhikode. *b.* March 20, 1880; *Educ.:* About 12 years at Thakazhi, under Chabbakkulam Sanku Pillai and another 12 years under M. M. J. Namboodiripad. Is a leading Kathakali dancer in India; spent the early part of his life in Travancore and then settled down in Malabar with Kathakali as his chief profession; worked with late Poet Mahakavi Vallathol; got appreciation from Tagore, Nehru, Prithviraj Kapoor; prominent disciples—Ramgopal, Mrinalini Sara Bai, Gopinath, Tara Chowdiri, Ananda Sivaram, Kalamandalam Madhavan, Kalamandalam Krishnan, Santa Rao, Hari; conducts a Kathakali School at Kottayi. *Address:* Lakshmi Vilas, P.O. Kottayi (*via*) Palghat.

KUTCH: His Excellency H. H. Maharaja Dhiraj Mirza Maharao Shri Madansinhji Savai Bahadur, Maharao of. Indian Ambassador to Chile, since Sept. 1960. *b.* Oct. 12, 1909; Heir-Apparent, Maharaj Kumar Shree Prithvirajsinhji is studying at Delhi Univ.; *Educ.:* Privately under tutors and by extensive travel. Transferred the administration of Kutch State to the Govt. of India on June 1, 1948, following the independence of India on August 15, 1947 and in pursuance of the policy followed by Rulers of the unification of their States with the Indian Union; has been given a fixed Privy Purse in perpetuity; has been guaranteed by the Govt. of India the same personal rights, privileges, dignities and titles as he enjoyed as Ruler of Kutch, prior to 1st June 1948; has travelled widely in Europe, U.S.A. and Africa; joined the Indian Foreign Service and after serving for three and a half years with the Indian High Commission in London with rank of Minister, was India's first Ambassador to Norway, 1956-60; took charge, March 1957; is keenly interested in Indian philosophy; is a tennis player of note. *Recreations:* Riding; Pig-sticking; Shikar. *Address:* Bhuj, Kutch; Indian Embassy, Santiago de Chile.



KVEDER, His Excellency Mr. Dusan, Yugoslav Ambassador to India, since 1958. *b.* 1915, in Sentjur at Celje; *Educ.:* Faculty of Law in Ljubljana (Yugoslavia); High Military Academy in Moscow (U.S.S.R.). Took part in the Spanish Civil War; Commanded, People's Liberation Army of Slovenia during the People's Liberation War of Yugoslavia, 1941-45; after the War (1945) was member, Federal People's Assembly of Yugoslavia and People's Assembly of Slovenia till 1953; was Deputy to the Chief of the General Staff, Yugoslav Army; Yugoslav Ambassador to: Ethiopia, 1955-56; Federal Republic of Germany, 1956-57; awarded the highest Yugoslav decoration 'The Order of the People's Hero of Yugoslavia' and other decorations for his outstanding services; is member, Central Cttee. of: League of Communists of Yugoslavia; Central Council of the Union of Veterans of the People's Liberation War of Yugoslavia; holds the rank of Lt. General of the Yugoslav Army in reserve. *Address:* 1, Tees January Marg, New Delhi.

LAHIRI, Adinath, M.Sc., Ph.D. (Lond.), D.I.C., Dip. F. Tech., F.N.I., F.R.I.C., F. Inst. Fuel, M.I.E., Int. Pet., M. Nat. Ac. Sc., M.M.G.M.I., Padma Sri (1960); Director, Central Fuel Research Institute of India, since April, 1954. *b.* Aug. 24, 1916; *Educ.:* Presidency Coll., Calcutta; Imperial Coll. of Science and Technology as Sir T. N. Palit Foreign Scholar for higher research. Conducted research at Royal Coll. of Science, 1938-42; Senior Scientific Officer in charge of Air Ministry, Fuel and Oil Research Laboratories, Farnborough, U.K., 1942-45; Asstt. Director and Officer-in-Charge of Coal Survey Stations of the Fuel Research Institute, 1945; Dy. Director, 1953—April 1954; Vice-Pres., Institute of Chemists (India); member, Council of the Mining, Geological and Metallurgical Institute of India. *Publications:* Over 400 research papers on various aspects of Fuel Technology and in Geochemistry, Physical Chemistry, Geology, etc. *Address:* Director, Central Fuel Research Institute, Jealgora P.O., Dhanbad Dist.

LAHIRI, S. K., B.Sc. (Eng.), Director General of Lighthouses and Lightships. *b.* Dec. 10, 1910; *Educ.:* and trained at Calcutta, Patna, Manchester and London. Engineer, Lighthouse Deptt., Govt. of India (1941-48); Designs Officer, C.W.I.N.C. (1948); Engineer-in-Chief, Lighthouse Department (1949-56); Member-Secy., Central Advisory Cttee. for Lighthouses; Member, Radio & Cable Board, Govt. of India, New Delhi; represented India as Leader of the Indian Delegation to the International Lighthouse Conferences, Paris, 1950, Scheveningen, Holland, 1955 and U.S.A., 1960. *Publications:* Author of several papers, the latest being "Electric Flashers and Lamps" which was presented on behalf of India at the International Conference of Lighthouses, Holland, 1955. *Recreations:* Reading, travelling, tennis and billiards. *Clubs:* Gymkhana Club. *Address:* 17, Curzon Lane, New Delhi.

LAKSHMAN, Bapuji Konda, Minister for Small Scale and Cottage Industries and Excise, Andhra Pradesh, since 11th January 1960; *b.* Sept. 27, 1915. Participated in the Hyderabad Vandemataram movement, 1942 national movement and 1947, 1948 movement against the Razakars and Nizam and imprisoned; associated in the co-operative movement by conviction and participated in several co-operative organisations such as the Central Co-operative Union, Federation of Industrial Co-operatives, Co-operative Insurance and Weavers' Co-operatives; elected to the Legislative Assembly in 1952 from Adilabad District and in 1957 from Nalgonda District; Deputy Speaker, Legislative Assembly, 1957-60; Chairman, the Netha Co-operative Spinning Mills since 1958. *Address:* '*Jaladrussyam*', Hussain Sagar Bund, Hyderabad.

LAKSHMANAN, Major-General Cheruvari Kottieth, L.M.S. (Mad.), M.R.C.S. (Lond.), D.T.M. & H. (Lond.), D.P.H. (Eng.), Secretary General, Indian Red Cross Society; Hon. Secy., Hind Kusht Nivaran Sangh. *b.* April 5, 1898; *Educ.:* Madras Christian Coll.; Madras Medical Coll., St. Barthalomew Medical Coll. and Hospital, London. In the I.M.S., 1925-47; Dir., All-India Institute of Hygiene & Public Health, Calcutta; Special Consultant to U.N.I.C.E.F. to assess child health needs in South East Asia; member, Indian Delegation to third, seventh, eighth and ninth World Health Assembly at Geneva, 1950, 1954, 1957 and Mexico, 1955; Delegate to the third, fourth, fifth and seventh Sessions of W.H.O. Regional Cttee. for S. E. Asia held in Ceylon, 1950, Rangoon, 1951, Bandung (Indonesia), 1952 and New Delhi, 1954; attended the first and second sessions of the W.H.O.'s Expert Cttee. on International Quarantine at Geneva, 1953 and 1954; Dir. Genl. of Health Services, Govt. of India, June 1952-Feb. 1958. *Address:* 1, Red Cross Road, New Delhi.

LAKSHMIKANTHAM, Pingali, M.A. (Madras), Spoken word producer, All India Radio, Vijayawada. *b.* Jan. 10, 1894; *Educ.:* Hindu High School, Masulipatam. Noble Coll., Masulipatam. Was Lecturer, Noble Coll.; Research Fellow, Madras Univ.; and Head of the Deptt. of Telugu, Andhra Univ.; Member, General Council of the National Academy of Letters; elected as a member of the Executive Board of the Academy. *Publications:* Poetry: *Tolakari* (Lyric) and *Soundaranandam* (Epic) (both in collaboration with Katuri Venkateswararao). Prose: *Gouthamà Vyasamulu* (Essays). *Recreation:* Tennis. *Club:* Visakhapatnam Club. *Address:* Vijayawada.

LAL, Mohan, B.A. (Hons.), LL.B., Minister for Industry, Food, Local Govt., Justice, Punjab. *b.* June 1, 1905; *Educ.:* Had a brilliant academic career; Khalsa Coll., Amritsar; Law Coll., Lahore. Practised as an Advocate in Batala District, Gurdaspur, 1929-56; had been a leading lawyer of the District; had been associated with various social, cultural and political activities in Punjab; Congressman from his youth; elected to the Legislature Upper House in Punjab, 1952; Leader of the House, Punjab Leg. Council, since 1956. *Recreations:* Tennis; Badminton. *Clubs:* Batala Club. *Address:* Minister for Industry and Local Govt., Chandigarh Capital.

LALA, Bhogilal Dhirajram, B.A., LL.B., Ex-Chairman, Bombay Legislative Council, 1956-60. *b.* Dec. 7, 1877; *Educ.:* Ahmedabad and Bombay; passed LL.B., 1900. Began practice as Pleader, 1900; gave up practice when Non-Co-operation Movement started, 1920; since then worked as full time Hon. Congress Worker; Secy., Gujarat P.C.C., 1931-54; was its Vice-Pres., till 1956; elected to Bombay Leg. Assembly, from Ahmedabad Dist., 1937 and again from Ahmedabad City in 1946; elected to Bombay Leg. Council by Ahmedabad Municipal Corporation, 1952; Professor, Law Coll., Ahmedabad, 1927-32; has been connected with the School for Deaf-mutes and Blind at Ahmedabad for the last forty years. *Publications:* Two books on Penal Code and Procedure. *Address:* Mal's Pole, Near Dhikwa Chowki, Ahmedabad.

LALBHAI, Kasturbhai, Millowner and Banker; Director in 20 concerns such as Textile, Insurance, Electricity, Steamship, etc. and also Director, Local Board, Western Region, Reserve Bank of India; Chairman: Executive Council, National Chemical Laboratory, Poona; Western Regional Cttee., All-India Council for Technical Education from 1955; Planning Committee, W. Region, Govt. of India from 1955. *b.* Dec. 19, 1894; *Educ.:* Govt. R. C. High School and Gujarat Coll., Ahmedabad. Pres.: Ahmedabad Millowners' Assoc., 1933-35; Federation of Indian Chambers of Commerce and Industry, 1934-35; Council of Administration of the Ahmedabad Textile Industry's Research Assoc., since 1947; Chairman: West Coast Kandla Port Development Cttee. appointed by the Govt. since 1948; member: Council of Scientific and Industrial Research Board and governing body from 1940 and also Chairman of the Finance Sub-Committee of C.S.I.R.; Textile Control Board from 1943; Senate of Gujarat University from 1950; Leader and Pres., Jain Community in India; Leader of the Indian Delegation to: Industrial and Agricultural Delegation to the U.S.S.R., 1954; Patron, Ahmedabad Education Society; Chairman of its Governing Body, since 1935; Director, Reserve Bank of India, 1937-49 and since 1957; Chairman, Indian Cotton Mills Federation, since 1956. *Address:* Pankore Naka, Ahmedabad; Shahibag, Ahmedabad.

LALCHAND HIRACHAND, B.A., Industrialist; Pres., Maharashtra Chamber of Commerce, 1960-62; Chairman: The Premier Automobiles Ltd., Indian Hume Pipe Co., Ltd.; Cooper Engineering Ltd., Bombay Cycle and Motor Agency Ltd., etc.; Director: The Premier Construction Co. Ltd., Hindustan Construction Co. Ltd., Walchandnagar Industries Ltd., etc.; Pres.: Indian Sugar Mills Assoc., 1943-44; Deccan Sugar, Technologists Assoc., 1943-50; Chairman, Deccan

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Sugar Factories Assoc. for three successive years from 1943; Pres.: The Automotive Manufacturers' Assoc. of India, 1954-59; Assoc. of Indian Automobile Manufacturers; Pres.: Indian Merchants' Chamber, 1959; member: Bombay Leg. Council, 1939; Rajya Sabha, 1952-58; was member: Import Advisory Council of the Govt. of India; actively interested in agricultural, industrial and social activities; attended the Moscow International Economic Conference, 1952. *Clubs:* Cricket Club of India; Willingdon Sports Club. *Address: Office:* Construction House, Ballard Estate, Bombay 1; *Residence:* Neela House, Pedder Road, Bombay 26.

LALL, Diwan Chaman, B.A. (Oxon.), Bar-at-Law, M.P. (Rajya Sabha), Ex-Ambassador of India in Turkey. *b.* Oct. 30, 1892. *Educ.:* Jesus College, Oxford; Barrister of Middle Temple, London; Paris. Started as a journalist; was editor of *Coterie*, London, quarterly of Art & Literature; Asstt. Editor and chief leader writer, *Bombay Chronicle*; founded the A.I.T.U.C., 1920; Pres., A.I.T.U.C., 1927; Founder and former Pres., Federation of Posts and Telegraphs Unions, All India Telegraph Workmen's Union, and many other all India Trade Unions; led the Indian Delegation to I.L.O. Conference at Montreal, 1946; M.L.A. (Central), 1924-31 and 1945-48; member, Constituent Assembly of India, 1946-48; M.L.A., Punjab, 1937-45; member, A.I.C.C. since 1938; went to Kenya to defend Jomo Kenyatta of the Kenya African Union. Member, Parliamentary Delegation to U.S.S.R. and Yugoslavia, 1955. Chairman: Cttee. of Indian Parliamentarians for Peace. *Publications:* Author of *Coolie—The Story of Capital and Labour in India*—(2 Vols.); *Visiting the Soviet Union*; Poems: *Old and New*; *The Nehru Doctrine and India's Role in the Contemporary International World.* *Recreation:* Public speaking. *Address:* 8, Windsor Place, New Delhi.

LALL, Jag Mohan, B.A., A.C.A., Chairman: I.C.I. (India) Private Ltd.; Indian Explosives Ltd.; Alkali & Chemical Corporation of India Ltd., Atic Industries Private Ltd. *b.* 1913; *Educ.:* B.A. from F.C. Coll., Lahore, 1933; A.C.A. from Institute of Chartered Accountants (London), 1938; won the Frederick Whinney Prize of the English Institute, 1938. Joined I.C.I. (India) Ltd., 1939; joined its Board, 1951; Managing Director, I.C.I. (India) Ltd., 1957-58. *Address:* I.C.I. (India) Private Ltd., 34, Chowringhee, Calcutta 16.

LALL, Krishen Behari, I.C.S., Addl. Secretary (Industries), Ministry of Commerce and Industry, since June 1, 1960. *b.* May 30, 1915; *Educ.:* St. Stephen Coll., Delhi; School of Oriental Studies, London; Univ. Coll., Oxford. Chief Secy., M.B. (1949-52); Chief Controller of Imports and Exports, 1953-54; India's Alternate Delegate to the 10th, 11th, and 12th Sessions of the ECAFE; Member, India's Delegation to the Asia-Africa Conference, Bandung (1955); Jt. Secy., Min. of Com. and Ind., Govt. of India (March 1954—Jan. 1959); Chairman, Foreign Trade Board (July 1957—May 1960); Dir. Genl., Foreign Trade (Aug. 1957—May 1960); Chairman, State Trading Corporation (May 1956—Aug. 1959); Leader, Indian Trade Delegations to U.S.S.R., G.D.R. and Poland (Oct.-Nov. 1958); to West European countries (Sept.-Oct. 1959); to Nepal (Sept. 1960); Director: Heavy Electricals, July 6, 1960; Heavy Engineering Corporation, Aug. 4, 1960; National Industrial Development Corporation, June 29, 1960; Hindustan Chemicals & Fertilizers, June 14, 1960; Sindri Fertilizers and Chemicals, June 14, 1960; *Address:* 2, Ramkishore Road, Civil Lines, Delhi 8.

LALL, Shamaldharee, B.A. (Oxon.) (Hons.), I.C.S., (Retd.), Chairman, Damodar Valley Corporation, since Oct. 1959. *b.* October 4, 1894; *Educ.:* St. Xavier's College, Calcutta; Scottish Churches College, Calcutta; Exeter College, Oxford. Joined I.C.S. 1919; held important posts under Bihar and Orissa Govt., 1924-26 & 1932-38; Industries and Labour Deptt., Govt. of India, 1926; Jt. Secy., Royal Commission of Labour in India 1929; Dy. High Commr. for India in U.K., 1938-44; Ag. High Commissioner, 1940 & '43; Jt. Secy., Labour Deptt., Govt. of India, 1945; Labour Secy., Govt. of India, 1946-50; served as Govt. of India Representative at various International Conferences and on the Governing Body of the I.L.O.; Chairman, 1949-50; Asstt. Secretary-General, United Nations, 1950-54; Chairman, Air Transport Council, 1954-59. *Address:* Anderson House, Alipore, Calcutta 27.

LASH, The Right Rev. William Quinlan, B.A. (1927), M.A. (1932), Bishop of Bombay. *b.* February 5, 1905; *Educ.:* Tonbridge School; Emmanuel College, Cambridge; Westcott House, Cambridge. Curate of St. Mary's Portsea, 1928-1932; member of Christa Seva Sangha, Poona, 1932; Professor, Sir Parasharambhau College, Poona, 1933-34; Acharya, Christa Prema Seva Sangha, 1934; consecrated Bishop of Bombay, August 10th 1947. *Publications: Christian Mysticism; Apostolic Faith; To High Kailas; Temple of God's Wounds.* *Address:* St. John's House, Colaba, Bombay 5; *Telegraphic Address:* Felicity, Bombay.

LAW, Mr. Justice Uma Charan, Barrister-at-Law, Judge, High Court, Calcutta, since Dec. 16, 1957. *b.* Dec. 30, 1903; *Educ.:* Scottish Church Coll., Calcutta; Inner Temple, London; graduated from Calcutta Univ., 1924; joined Inner Temple, London, Nov., 1926; called to the Bar, June 12, 1929. Senior Advocate of the Supreme Court of India, 1955. *Recreations:* Games, Photography, Reading, etc. *Clubs:* Calcutta Club Ltd. *Address:* 69/2, Nimtola Ghat Street, Calcutta 6.

LEELA, P., a leading Playback Singer in the south. *b.* April 25, 1932, of an ancient family in Kerala; *Educ.:* Girls' High School, Ernakulam, Kerala State. Left school when 12 to devote herself to the study of music; came to Madras, 1944; studied under music tutors of repute; won several gold medals in music competitions; travelled all over the south and north giving a series of concerts; became a playback singer, her first assignment being in G. B. Narayan's "Kankanam" in 1947; has sung nearly two thousand songs in about 800 pictures, in Malayalam, Tamil, Telugu, Kanarese, etc.; a good singer in Hindi light music; participated in the A.I.R. feature programmes in Delhi, Sept. 1958; was a guest artiste at Dr. Radhakrishnan's 70th birthday celebrations; frequently sings on the A.I.R.; nominated member, Kerala Sangeetha Nataka Academy; member, Music Sub-Cttee. *Recreations:* Gardening; Reading books. *Address:* "Brindavan", 3, Sreenivasan Street, Madras 28.

LEIGH, Edward Joseph Miller, Chairman and Managing Director, Binny & Co., (Madras) Ltd., the Buckingham & Carnatic Co. Ltd., the Bangalore Woollen, Cotton & Silk Mills Co. Ltd. & Binny's Engineering Works Private Limited; Deputy Chairman, The Madura Co. Private Ltd. *b.* Aug. 17, 1907; *Educ.:* Marlborough Coll. Joined Binny & Co. (Madras) Ltd., 1928; commissioned I.A.O.C. and appointed Controller of Clothing, Bombay Circle, 1940, U.P. Circle with rank of Lt.-Col., 1944; Supdt., Clothing Production, Clothing Directorate, New Delhi, 1945; Trustee, Madras Port Trust, 1957-58; Chairman, Madras Chamber of Commerce and Deputy Pres., Associated Chambers of Commerce of India, 1958-59; member: Cotton Textile Fund Cttee., Madras Board, State Bank of India; Advisory Council, South India Textile Research Assoc.; Managing Cttee., Southern India Millowners' Assoc., 1958-60. *Recreations:* Sailing, Golf, Tennis, etc. *Clubs:* Madras Club, Royal Bombay Yacht Club, Royal Madras Yacht Club. *Address:* C/o Binny & Co. (Madras) Ltd., 7, Armenian Street, Madras 1.

LOHIA, Dr. Rammanohar, founder, Socialist Party; Ex-General Secy., P.S.P. *b.* 1910; *Educ.:* Bombay, Banaras and Calcutta; Doctorate in Economics from Germany. At the age of 14 attended the Gaya Congress as a delegate; was leader of the Congress Socialist Party; Editor, *Congress Socialist* till 1939; organised the Foreign Department of the A.I.C.C. at the invitation of Mr. Nehru; developed relations between the Congress and progressive forces in different European countries; set up a separate branch to look after the interests of Indians overseas; elected to the A.I.C.C., 1936; prosecuted for sedition in Calcutta, 1938; imprisoned for taking active part in the Freedom movement; founded and formed the Socialist Party of India, 1956; Editor, *Mankind.* *Publications:* Several books amongst them *Third Camp in World Affairs; Himalayan Policy for India; Wheel of History; Aspects of Socialist Policy; Fragments of a World Mind.* *Address:* Socialist Party, 14-1-323, Sitarampet, New Aghapura, Hyderabad.

LOKANATHAN, Dr. Palamadai S., M.A. (Madras), D.Sc. (Econ.), London, Gokhale Prize in Economics, 1921; Director-General, National Council of Applied Economic Research, New Delhi. Ex-Executive Secy., ECAFE, was conferred the Most Noble Order of the Crown of Thailand First Class. *b.* Oct. 10, 1894; *Educ.:* St. Joseph's Coll., Univ. of Madras, London School of Economics, Univ. of London; for some time member of Boards of Studies in Economics in the Universities of Madras, Travancore, Annamalai and Andhra; Chairman: Governing Body, National Productivity Council; Advisory Board, Demographic Research and Training Centre; Chairman: All India Labour Economics Conference, 1960; Orissa Taxation Enquiry Cttee.; Agricultural Economics Cttee., Indian Council of Agricultural Research, New Delhi; member: Central Wage Board for Sugar Industry; Special Cttee. for Commerce & Education; Local Board, State Bank of India, Delhi Circle; Pres., Indian Federation of U.N. Assoc.; Vice-Pres., Indian Council of World Affairs. *Publications: Industrial Welfare in India; Industrial Organisation in India; Indian Industry and India and Post-War Reconstruction.* *Address:* Bombay Mutual Building, Parliament Street, New Delhi.

LORENZO, Archibald Minto, M.A., Ph.D. (Econ.), B. Com., Ph.D. (Com.), Director, Labour Bureau, Ministry of Labour and Employment, Govt. of India, since 1956. *b.* Nov. 28, 1908; *Educ.:* Lucknow Christian Coll.; Lucknow Univ.; Agricultural Economics Research Institute, Oxford. U.N. Fellow, 1949; Social Science Expert, U.N. Seminar on Low Cost Housing, 1954; Chief Supervisor, UNESCO Project on Farm Forum Fundamental Education Evaluation, 1956; Adviser, Govt. of India, I.L.O. Asian Regional Conference, 1957. *Publications: Agricultural Labour Conditions in Northern India*, 1940; *Atlas of India*, 1942; *Market Reports*, 1943; *Natural Resources and Human Adaptation*, 1946; *Indian Labour in Primary Production*, 1947; *Drink Problem in Urban Bombay* (3 vols.), Bombay Govt. 1954; *Planning Shopping Centres, Greater Bombay Master Plan*, 1957; etc. *Recreations:* Physical Culture, Badminton. *Address:* Kennedy House, Simla 4.

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LOYALKA, Chiranjilal Ramchandra, Merchant and Landlord. *b.* 1901. Director, Swadeshi Sugar Mills Ltd., Bombay; Loyalka Properties, Ltd., Bombay, and Shuddha Vastu Bhandar Ltd., Bombay, and Proprietor of the firms of Messrs. Bhagwandas Ramchandra and C. R. Loyalka. For some time Hon. Secretary of the Rajputana Shikshamandal, Bombay. Hon. Treasurer of the Bombay Presidency Boy Scouts' Assoc. till 1939; Hon. Treasurer, Bharat Scouts and Guides, Bombay State. Some time member of Committee of Indian Merchants' Chamber; Director of the East India Cotton Association, Ltd. in 1936; Member of the Bombay Municipal Corporation from 1935-39; President of the All-India Cow Protection Conference at Muttra in 1939 and at Nagpur in 1940; Vice-President of the All-India Varnashram Swaraj Sangh; President, Dharma Sangh and Ramraj Parishad, Bombay; Member of the Jaipur State Constitutional Reforms Committee; Pres., Rajya Hindi Sahitya Sammelan, Bombay State.† *Address:* Stock Exchange New Building, Fort, Bombay.

LUCKHAM, John, Managing Director, The Dunlop Rubber Co. (India) Ltd. Joined the Dunlop Rubber Co., Ltd., U.K., 1930; transferred to India in 1934; Director, Wheels India Ltd., Madras; Council Member, Indian Rubber Manufacturers' Research Association, Bombay; Cttee. Member, The Bengal Chamber of Commerce & Industry, Calcutta; Assoc. of Rubber Manufacturers in India. *Residential Address:* 52/3, Ballygunge Circular Road, Calcutta 19.

MACINTYRE, His Excellency Dato S. Chelvasingam, P.M.N., High Commissioner for the Federation of Malaya in India, since Sept. 1957. *b.* Jan. 27, 1903; *Educ.:* The Methodist Boys' School, Kuala Lumpur, Malaya; Trinity Coll., Kandy, Ceylon; called to the Bar from Lincoln's Inn., 1927; advocate and solicitor in the State of Johore from 1928; acted as personal legal adviser to H.H. Sultan of Johore from 1956; nominated member, Batu Pahat Town Board, 1949–53; elected member, Batu Pahat Town Council (Johore State), 1953–56; nominated member, Johore State Council, 1949–53; elected member, Alliance Party for the Batu Pahat Central Constituency, 1954–57; resigned, Sept. 1957; elected member, Alliance Party for the Batu Pahat Constituency in the Federal Legislative Council, 1955–57; Associate member, United Malay National Organisation (U.M.N.O.), since 1953; awarded "Panglima Mangku Negara" (Dato) by H. M. the Yang di-Pertuan Agong on 1st Independence Anniversary, Aug. 31, 1958. *Address:* 15, Jor Bagh, New Delhi.

MACKAY, Peter Vansittart, Managing Director, A. & F. Harvey Ltd. since April, 1960. *b.* 1913, in London; *Educ.:* Denstane Coll., England. Joined the staff of A. & F. Harvey, 1935; served war period in the Indian Army; served at all branches of Madura Mills Co. Ltd.; joined the Board of Directors of A. & F. Harvey Ltd., and was Deputy Managing Director, 1958-60; Chairman, Board of Directors: Punalur Paper Mills Ltd.; Pandyan Insurance Co. Ltd.; Pandyan Bank Ltd.; The Indian Textile Paper Tube Co. Ltd.; Indian Titan Products Co. Pvt. Ltd.; Tuticorin Co. Pvt. Ltd.; Pandia Rajan & Co. Pvt. Ltd.; Coral Mills Co. Pvt. Ltd.; Tinnevelly Mills Co. Pvt. Ltd.; Director: Madura Mills Co. Ltd.; Fenner Cockill Ltd.; National Machinery Manufacturers Ltd.; South India Viscose Ltd.; Member: All India Handloom Board; All India Handloom Fabrics and Marketing Co-operative Society Ltd. *Address: Residence:* Pasumalai, Madurai, South India.

MACKAY TALLACK, Lt.-Col. Hugh, Chairman and Managing Director, Macneill & Barry Ltd. *b.* 1912; *Educ.:* Kelly Coll., Tavistock and Heidelberg Univ. Served with 17 Dogra Regt. (Middle East and Burma), 1939-45; Priv. Secy. to C.-in-C. Alfsea, 1943-44; Mil. Secy. to Supreme Allied Comdr., S.E.A.C. (Rear-Adml. Earl Mountbatten of Burma), 1945-46; Managing Director, Macneill & Barry Ltd., Calcutta; Chairman, Indian Tea Assoc.; member, Govt. of India's Tea Board. *Clubs:* Bengal and Calcutta Clubs. *Address:* Bicknor Park, near Hollingbourne, Kent; 22 Camac Street, Calcutta, 16.

MADAN, Bal Krishna, M.A., Ph.D., Executive Director, the Reserve Bank of India, since July 1959. *b.* July 13, 1911; *Educ.:* Univ. of Punjab. Dir. of Research, Reserve Bank of India, Bombay, 1941-45; Dy. Secy., Indian Tariff Board, 1945; nominated member, Indian Leg. Assembly and Assembly Cttee. on Bretton Woods Agreement, 1946; Exec. Dir., I.M.F., 1948-50; member, Indian delegation to First Commonwealth Finance Ministers' Conference, London, 1949; Adviser, Indian delegation to U.N.E.S.C.O., 1949; Economic Adviser to Reserve Bank of India, 1950; member: Finance Commission, Indian Govt., 1952; Taxation Enquiry Commission, 1953-54; Experts Group on U.N. Special Fund for Economic Development, 1955; Standing Cttee., Panel of Economists, Planning Commission, since 1955; Food Policy Cttee., 1957. Principal Adviser, Reserve Bank, 1957-59. *Publications: India and Imperial Preference—A Study in Commercial Policy,* 1939; Economic articles. *Address:* Reserve Bank of India, Central Office, Bombay 1.

MADGULKAR, Vyankatesh Digambar, Marathi Writer; Producer, Rural and Farm Forum Programmes; Producer, Rural Programme, A.I.R., Poona. *b.* July 7, 1927; *Educ.:* Atpadi (South Satara). Published his first book, 1949; was awarded first prize thrice by the State for best books; has written extensively about village folk; his novel Banagarwadi has been translated into English entitled *The Village had no Walls,* Hindi and Gurumukhi. Many of his short stories have been translated into Hindi, Gujarati, etc. *Publications: Mandeshi Manse; Gavakadchya Gosti; Bangarwadi,* etc.; stories and screen-plays for over a dozen Marathi pictures and a few folk plays staged in villages of Maharashtra. *Address:* 10, Bombay Road, Poona-3.

MADIA, Chunilal Kalidas, B.Com. (Bom.), Gujarati Writer of short stories, plays, novels etc.; Language Editor, U.S. Information Service, Bombay. *b.* Aug. 12, 1922, at Dhoraji, Saurashtra; *Educ.:* Bhagvatsinhji High School, Dhoraji; H.L. Coll. of Commerce, Ahmedabad. Took to journalism and fiction writing while at college; was nominated on Gujarati Advisory Board of the Sahitya Akademi (National Academy of Letters), 1956; awarded Narmad Gold Medal for best contribution to play-writing (*Rangada*) for the period 1947-51; Bombay Government's first prize of Rs. 2,000 for best collection of short stories TEJ ANE TIMIR, 1956; awarded Ranjitram Gold Medal by Gujarat Sahitya Sabha for outstanding achievements in creative literature, 1957. *Publications:* Novels: *Vyajano Varas: Liludi Dharati;* Collections of Short Stories: *Ghooghavatan Pur; Antasrota;* Plays: *Rangada; Shoonyashesh;* Travel: *Jai Girnar; Aa Par, Pele Paar;* Criticism: *Granthagarima;* Essays: *Chopatine Bankadethi;* Compilation: *Shreshtha Natikao;* Translation; *Shreshtha American Vartao. Address:* B-213, 'Chandralok', Wilderness Road, Bombay 6.

MAHADEVAN, Calamur, M.A., D.Sc. (Madras), F.A.Sc., (1934), F.N.I. (1945), M.A.I.M.E. (1951), Principal, Andhra Univ. Colleges and Univ. Professor of Geology, Andhra Univ., Head of the Deptt. of Geology, Andhra Univ., Waltair, since Feb. 1945. *b.* May 6, 1901; *Educ.:* Mathialpet High School; Madras Christian Coll.; Presidency Coll., Madras; D.Sc., Madras Univ.; Research Scholar, at I.A.C.S., Calcutta, under Prof. Sir C. V. Raman, Kt., F.R.S.N.L. Geologist, Hyderabad Geological Survey (1931-45); on deputation to Hyderabad Gold Development (1938-40); Pres., Geology and Geography Section, Ind. Science Cong., 1949 (Allahabad); awarded Hyderabad-Travancore Travelling Fellowship by Andhra Univ. and invited by the Board of National Research Councils of U.S.A. to visit American Univs., Jan.-July 1951; UNESCO Technical Expert in Geology to Brazil, June 1955-June 1956; visited U.S.S.R. as a member of a delegation of scientists in 1958 at the invitation of the U.S.S.R. Academy of Sciences; Pres., Geological, Mining and Metallurgical Society of India, 1959-60. *Publications:* Over 150 papers in Scientific Journals on X-ray Studies, Radio activity, Marine Geology, Geo-politics and Economic Geology. *Address:* University Campus, Waltair, Andhra Pradesh.

MAHAJAN, Lala Dinanath, Law and Revenue Minister, Jammu and Kashmir State; Advocate, Supreme Court of India. *b.* Jan. 17, 1902; *Educ.:* Mirpur High School; Prince of Wales Coll., Jammu. Joined the bar at the age of 19; started practice as a lawyer at Rajouri; moved to Jammu, 1930; enrolled as Advocate, High Court of Jammu and Kashmir State; made a mark in legal profession; was Pres., Jammu Bar Assoc., for about 11 years; enrolled as Advocate, Supreme Court, 1955; was member, Praja Sabha (Leg. Assembly), Jammu and Kashmir under Maharaja's rule till its dissolution in 1947; elected member, Municipal Council, Jammu, 1956; was its first elected Pres.; was Pres., Arya Samaj for many years; elected by a big majority to the Leg. Council of the State from Jammu Province Local Authorities constituency. *Address:* Law and Revenue Minister, Jammu and Kashmir State, Srinagar.

MAHAJANI, Ganesh Sakharam, M.A. (Cantab.), Ph.D. (Cantab.), B.A. (Bom.), Smith's Prizeman (1926), Member, Union Public Service Commission, since July 1957; Life-member, Deccan Education Society, Poona; Ex-M.L.C., Bombay. *b.* Nov. 27, 1898; *Educ.:* High School, Satara, Fergusson College, Poona, St. John's College, Cambridge; Duke of Edinburgh Fellow, Foundation Fellow of the Indian Academy of Sciences, Bangalore, and of the National Institute of Science, Calcutta; Dean of the Faculty of Science, Bombay University, 1936, 1937, 1938; Principal and Professor, Fergusson Coll., Poona, 1929-45; Secy., Deccan Education Society, 1945-47; Vice-Chancellor, Rajputana Univ., 1947-53; Vice-Chancellor, Delhi University, 1953-57. *Publications: An Introduction to Pure Solid Geometry, Contribution to Theory of Ferromagnetic Crystals* (published in the Transactions of the Royal Society, London); political pamphlets, *e.g., The Liberal Outlook, Liberals and the Congress, The Problem of the Minorities and Constitutional Democracy as its Solution, Education and Democracy* and *The Defence Problem of India* and several others. *Address:* 9, Teen Murti Lane, New Delhi.

† Bilingual.

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MAHALANOBIS, Prof. Prasanta Chandra, M.A. (Cantab.), D.Sc. (honoris causa), F.R.S., Hon. Statistical Adviser to the Cabinet, since 1949; Secy. and Director, Indian Statistical Institute, Calcutta, since 1931. *b.* June 29, 1893, at Calcutta; *Educ.:* B.Sc. (Hons.) in Physics, Presidency Coll., Calcutta Univ., 1912; M.A., Cambridge Univ., 1915; F.R.S., 1945; Foreign Member, U.S.S.R. Academy of Sciences, 1958; Weldon Medal and Prize, Oxford Univ., 1944; Sir Debaprasad Sarbadhikary Gold Medalist of Calcutta Univ. 1957; Hony. Fellow, Royal Statistical Society, London, 1954; Foundation Fellow, National Institute of Sciences, India; Pres., Indian Science Congress, 1950; presided over Anthropology section, 1925, Mathematics and Statistics section, 1942; Pres., National Institute of Sciences, India, 1957; Chairman: U. N. Statistical Commission, 1954, '57; U. N. Sub-Commission of Statistical Sampling, 1947-51; Head, Deptt. of Physics, Presidency Coll., Calcutta, 1922-42; Principal, 1945-48; Prof. Emeritus, since 1948; Founder-Editor, "Sankhya": The Indian Journal of Statistics, since 1933; Karmasachiva (Gen. Secy.), Rabindranath Tagore's Visvabharati, 1921-31; made scientific tours and gave lectures and held conferences at Univs., laboratories and other institutions in Austria, Belgium, Brazil, Burma, Canada, China, Czechoslovakia, Denmark, France, Germany, Italy, Japan, Mexico, Netherlands, Norway, Poland, Spain, Sweden, Switzerland, U.K., U.S.A. and U.S.S.R.; Leader, Indian Delegation: International Statistical Institute, 1947, '49, '51, '53, '55, '57, '58; Congress of Mathematicians 1950; U.S.S.R. Academy of Sciences, Moscow, 1951, '52, '54, '57, '58, '59. *Address:* 204, Barrackpore Trunk Road, Calcutta 35; 8, King George Avenue, New Delhi.

MAHESHWARI, Panchanan, D.Sc. (1931), F.N.I. (1936), F.A.Sc. (1934), F.B.S. (1950), Hon. D.Sc. (McGill Univ., Montreal, 1959), Scientist; Professor and Head of the Department of Botany, Univ. of Delhi, since 1949. *b.* Nov. 9, 1904; *Educ.:* Jaipur and Allahabad; travelled abroad to visit botanical institutions in Europe (1936, 1950, 1954, 1956); U.S.A. (1946, 1956, 1959); U.S.S.R. (1958); Indonesia (1952), U.K., Canada (1959). Professor of Botany, Dacca Univ. (1947-49); Pres.: Botany Section, Indian Science Congress (1950); Indian Botanical Society (1952); Embryology Section, International Botanical Congress, Paris (1954); International Society of Plant Morphologists (1954); Visiting Prof. of Botany, Univ. of Illinois, 1959; Vice-Pres., Morphology Section, IX. International Botanical Congress, Montreal 1959. Editor, Phytomorphology since 1951. *Publications:* Author of *Embryology of Angiosperms;* and about 200 papers on Botany particularly on plant morphology and embryology. *Recreations:* Classical music; Photography. *Address:* 29, Probyn Road, Delhi 8.

MAHINDRA, K. C., B.A. (Cantab.), Chairman, Mahindra & Mahindra Limited, Bombay, Turner, Hoare & Co., Ltd., Bombay, Indian Aluminium Company Ltd., Calcutta, Indian & Eastern Engineer Co., Ltd., Bombay, Machinery Manufacturers Corporation, Ltd., Bombay, Indian National Diesel Engine Co., Ltd., Calcutta; The Metal Box Co. of India Ltd., Calcutta; was Head of the India Supply Mission stationed at Washington, U.S.A., 1942-45; Chairman: Indian Coalfields Cttee. of the Govt. of India; The Automobile and Tractor Panel 1946-47; Director: Reserve Bank of India (Central Board) Bombay, Union Carbide India Ltd., Calcutta; *Address:* Gateway Building, Apollo Bunder, Bombay 1.

MAHTAB, Harekushna, Ex-Chief Minister, Orissa. *b.* Nov. 1899; *Educ.:* Ravenshaw College, Cuttack. Joined non-co-operation movement, 1921; since then a worker for Indian National Congress; elected to the Bihar and Orissa Legislative Council, 1924; was in journalism for seven years as editor. *Prajatantra,* and also *Rachana;* courted jail several times in the freedom movement; was elected President, Utkal Provincial Congress Cttee. twice, 1930 and 1937; Member, Congress Working Cttee., 1938-46; Leader, Congress Assembly Party, Orissa; has been largely instrumental in merging the Orissa States with the Province of Orissa, Dec. 1947; donated Rs. 25,000 for the publication of the unpublished works of ancient Oriya poets, and Rs. 26,000 for the propagation of Gandhi Dharma among the Adibasis of Orissa; Chief Minister, Orissa, 1946-50; was conferred Honorary Degree, Doctor of Literature by the Andhra Univ. in 1950; Minister for Commerce and Industry, Government of India, 1950-52; Secretary-General, Congress Parliamentary Party 1952-54. Governor of Bombay, 1955-56; Chief Minister: Orissa, 1957-58; Congress-Parishad Coalition Ministry, 1959-61. *Publications:* Three popular novels; a drama; *History of Orissa,* the only authentic history of the Province. *Address:* Bhubaneshwar.

MAI-SWARUP MAI-MARKAND (formerly Rao Saheb M.R. Dholakia, L.C.E.), Founder of Mai-ism and President, "Mother's Lodge". *b.* Dec. 23, 1885; *Educ.:* Poona Engineering Coll. Entered Govt. Service, 1921; retired as Dy. Asstt. Consulting Surveyor, Bombay, 1942; served as Spl. Land Acqn. Officer, Karachi, Poona, Bombay and Hubli; after retirement from world has become full-time Mother's servant, since 1945; Hindu Mother's devotee since twelve, with miraculous experiences and powers; installed Universal Mother Mai (Sept. 2, 1932); convened in Poona Sisters' social in strict purdah of all creeds on Daserah day (Oct. 9, 1932); started Mother's Lodge in Poona, on Gudi Padva Navratra day (March 27, 1933); explained "God as Mother" at All Faiths Conference, Nasik, 1933; delivered speech on "Modern World and Motherhood of God" at Indian Philosophical Congress, Poona, 1934; also convened Sisters' gathering in Madras on Daserah day (Oct. 1, 1949); and further in Calicut, Kerala, on Daserah day (Oct. 8, 1954); has been conducting Mother's Lodge, an institute of sisters and brothers with branches and followers in Bombay and South, for the propitiation of God as Universal Mother through universal love and service, devotion and unconditional cheerful self-surrender and invoking Mother's Blessing with prayers and worship for universal peace, welfare and relief and Mother's Mercy for individual bliss, peace and prosperity; invited to participate in the World Peace Round Table Conference by the World Religion Congress, Japan (Shimizu), May 3, 1955; jointly established the International Religious Federation, May 27, 1955: elected Sub-Councillor, in-chief of I.R.F. contacting practically the whole world (over 70 countries); started the Essence Series of Universal Religion, contributions by world religionists to the World Religions Congress, Japan, Jan. 1958 (Ananai Kyo Issue); convened Fourth Sisters' Social of over 3,000 sisters in the Town Hall on Daserah day, Oct. 4, 1957 and started Mai Adherents Institute in the charge of Bro. Ramankutty Nair, both in Trichur, Kerala State; released on Christmas day, 1957, "The World's Need and Mai-ism" by Rev. Bro. Ernest Kirk, Editor of *Life;* also convened Fifth Sisters' Social in Trivandrum under the presidentship of Maharani Sethuparvathi Amma of Travancore on Daserah day, Oct. 24, 1958; further held Mai Convocation on Sept. 30, 1960 (Daserah Day), Oct. 1 & 2, 1960, in Trichur (Kerala), inaugurated by Justice P. Govinda Menon, under the presidentship of revered Attur Krishna Pisharoty, Maharaja of Kollengode and Swami Budhanand, respectively; further consecrating and opening functions of two Mai-Temples in Trichur and Perintalmanna, under managements of Mai Shishus Ramankutty Nair and Advocate U. G. Menon, respectively; sent thesis of "Mai-ism, The 20th Century Universal Religion for the new age, to Universal Religious Alliance (U. R.A.)," which reveals "that the regeneration of mankind is at hand, and that a new age (Aquarian) is being ushered in, taking the shape of a brand new spiritual civilization"; elected upto 1965, by 271 members, as Vice-Pres. of U.R.A., religiously connected with over 75 countries through spiritual Ambassadors, also as minister for "Peaceful Human Relations." *Important Publications: God as Mother: Mai-Poojan* (Gujarati); *Theory and Principles of Universal Mother movement; Mother and Mother's Thousand Names* (in 2 vols.); *Hindi Mai Prarthana and Mai Guru Ananya Bhakti; Mother's Message* (2nd Edition, English, Malayalam); *Mai Sandesh* (Gujarati); *Mai Sahasranama Pathanam* (Marathi, Malayalam); *Thai-Mayi Valli* (Tamil); *Mai-ism* (734 pages), *Mothers' Meditation, Pre-natal Narration and Preamble of I.R.F., The World's Need and Mai-ism* by Ernest Kirk, etc. *Address:* Mother's Lodge, Santa Cruz West, Bombay 54.

MAITI, Miss Abha, B.A., LL.B., Social Worker. *b.* May 23, 1925; *Educ.:* Bethune Collegiate School, Bethune Coll., Calcutta; Univ. Law Coll., Calcutta. Participated in the Quit India movement, 1942; Secy.: Women Sub-Cttee. of West Bengal Pradesh Congress, 1948-54; West Bengal Pradesh Congress Cttee., 1954-59; Pres., Midnapore Dist. Congress Cttee., 1959; member: A.I.C.C., since 1952; West Bengal Leg. Assembly, 1952-57; a trustee of the Calcutta Improvement Trust, 1954-57; member, West Bengal Khadi Board; Secy., Prime Minister's Relief Fund Cttee. work centres, West Bengal, 1952-58; member: Congress Working Cttee., 1960; General Secy., Indian National Congress, 1960; member, Rajya Sabha 1960; Joint Secy., Paschim Banga Khadi Kendra since 1957; Pres. and member, Managing Cttee. of several boys' and girls' High and Middle schools and colleges; was editor, *Satyagraha Patrika,* a Bengali Weekly. *Address:* P-14, Durga Charan Mitra Street, Calcutta 6; 97, South Avenue, New Delhi.

MAITRA, Rathin, Painter; Hon. Secretary. Academy of Fine Arts, Calcutta. *b. July* 15, 1913; *Educ.:* Matriculated from the Calcutta Univ., 1932; passed the Final Diploma Exam. from Govt. College of Art & Craft (in Fine Arts), Calcutta, 1938. Zeal for self-expression through painting drove him to play a prominent part in the formation of the Calcutta Group; travelled extensively throughout India, Europe and U.S.A.; is attached to Govt. College of Art and Craft, Calcutta. *Address:* No 5, S. R. Das Road, Calcutta 26.

MAITRA, H.E. Mr. Sankar Nath, Indian Ambassador to Philippines, since May 1959. *b.* 1912; *Educ.:* Calcutta Univ.; King's Coll., London; St. Catherine Coll., Cambridge. Entered the Indian Civil Service, 1935; served as Asstt. Commissioner and later as Deputy Commissioner in various districts in Assam till 1947; Labour Commissioner, West Bengal, 1948-49; Dist. Magistrate, 24 Parganas, 1949-52; Excise Commissioner, West Bengal, Dec. 1952-July 1953; Chief Commissioner, Andaman & Nicobar Islands, July 1953-March 1956; Officer on Special Duty, External Affairs Ministry, April-Nov. 1956; Deputy High Commissioner for India in Pakistan, Dacca, Nov. 1956-58; Acting High Commissioner for India in Pakistan, Karachi, June-Nov. 1958. *Address:* C/o External Affairs Ministry, New Delhi.

MAJID, Abdul, B.A., Urdu Writer. *b.* 1892; *Educ.:* Lucknow and Aligarh. Editor, *Sidq* (Weekly), Lucknow, since 1925; Vice-Pres., Hindustani Academy, Allahabad; Pres.,

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Shibli Academy, Azamgarh; member, All India Radio Advisory Cttee., Lucknow; Chairman, Urdu Prize-books Cttee., U.P. Govt.; Examiner, Indian Univs. *Publications:* Author of about 30 books mostly in Urdu. In Urdu: *Commentary on the Holy Quran* (7 vols.); *Popular Psychology*; *Logic*; in English: *Commentary on the Holy Quran* (7 vols.); *Psychology of Leadership*; translation into Urdu of: Lecky's History of European Morals (2 Vols.); Buckle's "History of Civilisation in England". *Address:* P.O. Daryabad, Bara Banki, U.P.

MAJITHIA, Sardar Surjit Singh, B.A., Deputy Minister for Defence, Govt. of India, since Aug. 1952. *b.* Aug. 8, 1912, at Simla; *Educ.:* Chiefs' Coll., Lahore; Khalsa Coll., Amritsar; Law Coll. and Govt. Coll., Lahore; M.L.A. Central, 1945-47; member, Defence Consultative Cttee., 1945-47; Indian Ambassador to Nepal, 1947-49; Pres., Khalsa Coll., Amritsar; Life-Member, Sant Attar Singh Gursagar Mastuana Trust, PEPSU; returned to the Lok Sabha from Taru Taran Constituency, Punjab, 1952, and again 1957. *Recreations:* Wireless transmission, Agriculture, Flying, Sports. *Address:* Majithia House, Amritsar; New Delhi.

MAJITHIA, Sardar Sir Surendra Singh, Kt., Industrialist, Managing Director, Saraya Sagar Mills Pvt. Ltd. and Saraya Engineering Works Pvt. Ltd. *b.* March 4, 1895; *Educ.:* Khalsa Collegiate High School, Khalsa Coll., Amritsar. Sr. Managing Partner: Saraya Distillery; Saraya Oil Works; Saraya Surkhi Mills, etc.; Proprietor, Saraya Estate; Chairman: Lady Parsan Kaur Charitable Trust, Sardarnagar; Co-operative Development Ltd., Sardarnagar; Vice-President, All India Badminton Association; Pres.: Working Cttee., Maharana Pratap Inter-Coll., Gorakhpur; Member: Council of Khalsa Coll., Amritsar; Akali Coll. Council; N. E. Rly. Zonal Users' Consultative Cttee.; U.P. Tuberculosis Assoc., Lucknow; Exec. Cttee., Deoria Mahavidyalaya Degree Coll. *Address:* Saraya Sugar Mills Pvt. Ltd., P.O. Sardarnagar, Dist. Gorakhpur (U.P.).

MAJUMDAR, Bhupati, Minister for Commerce & Industries and Tribal Welfare Depts., Govt. of West Bengal, since 1957. *b.* Jan. 1, 1891; *Educ.:* Hooghly Branch School; Hooghly Coll. Political Worker, since 1905; took part in all revolutionary activities in and outside India; prisoner in Singapore Fort, during the First World War; joined Congress, 1921; Secy., Provincial Congress Cttee., 1923; deported for 5 years (1923-28); took up Congress work but deported again for 9 years; Pres., South Calcutta Dist. Congress Cttee. for 11 years; Vice-Pres., P.C.C. for many years; again prisoner during the 1942 movement; after release elected M.L.A., 1946; Minister, 1947-52; takes active interest in cultural and sports organisations; Vice-Pres., National Council of Education; Indian Society of Oriental Art; Pres., Naba Brindaban Sangha; Akil Bharat Sangeet Kalabid Samity; West Bengal Rifle Assoc.; All-Bengal Physical Culture Institute, Kabaddi. *Address:* Calcutta.

MALAVIYA, Pt. Keshav Deva, M.Sc., Minister of Mines and Oil, Govt. of India, since April 17, 1957. *b.* June 10, 1903, at Allahabad; *Educ.:* M.Sc. from the Allahabad Univ., Diploma in Oil Technology from the Harcourt Butler Technological Institute, Kanpur, 1929; Joined the Congress movement, 1921; courted jail several times and spent more than 9 years in various prisons; Secy., City Congress Cttee., Allahabad; Gen. Secy., U.P.P.C.C. for many years; Organiser of the first General Elections of the Congress in 1937 as Gen. Secy., Congress Parliamentary Board; actively participated in the "Quit India" movement and successfully conducted the struggle from underground; Parliamentary Secy., U. P. Govt., 1946; Minister of Development and Industries, 1947; resigned from the Ministry, Aug. 1951; Parl. Secy., Govt. of India, June 3—Aug. 11, 1952; Dy. Minister, Natural Resources and Scientific Research, Aug. 12, 1952 to Dec. 6, 1954; Minister of Natural Resources, Dec. 7, 1954—April 16, 1957. *Address:* 27, Safdarjang Road, New Delhi.

MALGAVKAR, Prabhakar Dattatraya, B.A., A.M.B.I.M., A.M.P.O.A., G.S.M.A., General Manager, National Small Industries Corporation Ltd., since Dec. 23, 1960. *b.* Dec. 16, 1916; *Educ.:* Bombay and England. Prop. of Malcolm & Co., Bombay, 1941-Sept. 1959; Asstt. Chief Buyer, Rubery Owen & Co., Ltd., Darlston, Southstaffs (England), Aug. 1956-May 1957; Management Consultant and Visiting Professor, Bombay Univ., teaching Management Practice to Post-Graduate students, Bombay, Nov. 1957-June 1959; Manager (Hire-Purchase), N.S.I.C. Ltd., Delhi, Dec. 7, 1959-Dec. 22, 1960. *Club:* National Sports Club of India. *Address:* National Small Industries Corporation Ltd., Rani Jhansi Road, New Delhi 1.

MALHOTRA, Beli Ram, Rai Sahib (1937), Rai Bahadur (1945), Chief Engineer, Hindustan Steel Ltd. (Ministry of Steel, Mines and Fuel, Dept. of Iron & Steel, Govt. of India), Rourkela (Orissa), since Sept. 1954. *b.* Aug. 1, 1903; *Educ.:* Govt. Coll., Lahore; T.C.E. Coll., Roorkee,. Asstt. Engineer, P.W.D., Dec. 1927-Sept. 1935; Executive Engineer, Sept. 1935-Sept. 1945; Superintending Engineer, Sept. 1945-Sept. 1954. *Address:* Rourkela (Orissa).

MALI, Gobind P., LL.B., Sindhi Novelist. *b.* Aug. 5, 1921; *Educ.:* L. B. High School, Tharushah, Sindh; D. J. Sind Coll., Karachi; S. C. Shahani Law Coll., Karachi. Started writing poems and articles at the age of 15; took active part in school and college literary and debating societies; jailed in Quit India Movement, 1942-43; organised Sindhi writers in Sindhi Abadi Sangat; became its Gen. Secy., 1946; one of the pioneers of Sindhi Sahit Mandal; its Gen. Secy., 1948-49, 1952-53, 1953-54; member, Sahitya Akademi's Advisory Board for Sindhi, since 1957. *Publications:* Novels: *Desi Sena Kajan?* (1958); *Jin Suri Bhain Seja* (1959), etc.; two novels translated and published in Hindi—*Sharam Booti* (1959), *Pakhiara Valar Khan Vichhudia* (Panchhi Bichhud Gae 1960); about 25 short stories, about 20 dramas; many articles; besides translations and adaptations of novels, dramas and stories. *Address:* E-7, Sindhi Colony, Iraniwadi, Kandivli, Bombay 67.

MALIK, Bidhubhusan, M.A., LL.B., Barrister-at-Law, Commissioner for Linguistic Minorities in India since 1957. *b.* Jan. 11, 1895; *Educ.:* Central Hindu Coll., Benares; Ewing Christian Coll., Allahabad; Univ. School of Law, Allahabad; The Hon. Society of Lincoln's Inn, London. Vakil, Allahabad High Court, 1919; called to the Bar, 1923; enrolled as Advocate, Allahabad High Court, Jan. 1924; member, Judicial Cttee., Benares State, 1941; Special Counsel, Income Tax Depts., 1942; Judge, High Court, Allahabad, March 1944; Chief Justice, 1947-55; Acting Governor, 1949; Indian Representative on the Federation of Malaya Constitutional Commission, 1956. *Publications:* 10th Edition of Woodroffe and Ameer Ali's Evidence Act; *The Art of a Lawyer*. Sohoni's Criminal Procedure Code, 15th edition. *Recreations:* Golf. *Address:* 11, Edmonstone Road, Allahabad.

MALIK, Prof. Syed Abdul, B.A. (Hons.) (English), M.A. (Assamese); Professor, Deptt. of Assamese, J. B. College, Jorhat, since 1951; Assamese Poet, Novelist and Dramatist. *b.* Jan. 1919; *Educ.:* Dergaon, Jorhat Govt. H. E. School, J. B. Coll., Cotton Coll.; Calcutta Univ., Gauhati Univ. Vice-Pres., All India Indian People's Theatre Assoc., 1952-55; Pres., Assam I.P.T.A., 1954-57; member, State Exec., Assam Sahitya Sabha (Assam Literary Assoc.), since 1956; a stage and screen actor; appeared in 'Ranga Police'—a President's Silver Medal Winning Film (Assamese). *Publications:* *Parashmani*, *Ejani Natun Sowali*, *Ranga Gora*, *Maraha Papari* (Collections of short stories); *Tirthajatri*; *Bonjui*; *Sabighar*; *Matir Saki*; *Surujmukhir Swapna*; *Kanthahar*; *Jiajurir Ghat* (Novels); *Rajdrohi*, *Alahighar* (Drama); *Bedouins* (Poetry); *Assamiya Jikir Aru Jari* (Research work published by the Gauhati Univ.); some works have been rendered into Hindi, Bengali, English and Italian; writes scripts for films. *Address:* J. B. College, Jorhat.

MALKANI, Naraindas Rattanmal, M.A. (Cal.), M.A., LL.B. (Bombay), Member, Rajya Sabha; *b.* Oct. 1890; *Educ.:* Karachi and Bombay. Prof. of Economics, G.B.B. Coll., Muzaffarpur, 1914-20; joined Congress, 1921; M.L.A., Sind, 1945-57; Addl. Dy. High Commissioner for India in Pakistan, 1948; Director of Rehabilitation, Rajasthan, 1949-52; Pres.: Sind Congress Workers' Samiti, Working Cttee., All India Harijan Sewak Sangh; member: Central Harijan Board; National Advisory Cttee. on Public Co-operation; Gandhidham (Port) Development Authority; Chairman, Public Co-operation, All India Bharat Sewak Samaj; Pres., Little Theatre Group, Delhi; member: Advisory Board, Central Institute for Study and Research in Community Development; Working Cttee., A. I. Panchayat Parishad. *Publications:* About 25 books in Sindhi. *Recreations:* Writing in Sindhi and English. *Address:* 115, North Avenue, New Delhi.

MALLICK, Mr. Justice Prakash Chandra, B.A. (Hons.) (Econ.), M.A. (Econ.) (Cal.), B.L., Judge, Calcutta High Court, since 1954. *b.* March 24, 1904, at Calcutta; *Educ.:* South Suburban School; matriculated in the first division, 1920; St. Xavier's Coll.; gave up studies to join non-co-operation movement, 1921; resumed studies at Vidyasagar Coll.; B.A. (Hons.) in Economics, Presidency Coll., 1926; M.A. (Eon.) from Cal. Univ. with 1st Class, 1928; won the Univ. Gold Medal; B.L. with 1st Class, 1929. Enrolled as Advocate, 1930; came first in the examination held by the High Court for being entitled to practice in the original side, 1932. *Recreations:* Reading. *Address:* 24B, Mohini Mohan Road, Calcutta 20.

MALPEKAR, Anjanibai, Fellow of The Sangeet Natak Akademi (Awarded, 1958), Musician. *b.* April 22, 1883; *Educ.:* Academic education in Marathi, Urdu, Gujarati and a little English; learnt Music by private tuition from Ustad Nazir Hussein Khan (Bhendibazarwale) for 36 years and occasionally from Ustads Chajjukhan and Khadim Hussain. Received many honours and cash gifts from Nepal, Indore and Baroda Rulers; has been a leading figure in the music world. *Recreations:* Music; Literature. *Address:* 11A, New Bhatwadi Cross Lane, Awantikabai Gokhale Road, Bombay 4.

MANCHANDA, Mr. Justice Shiv Chander, M.A., B.A. (Hons.) (Cantab.), Judge, Allahabad High Court, since Aug. 1961. *b.* June 20, 1905; *Educ.:* Queen's Coll., Cambridge; Lincoln's Inn, London; B.A. (Hons.), 1927; M.A., Cambridge Univ., 1929; called to the Bar, 1929. Practised in the Supreme Court and the High Court, Lahore, 1929-46; In 1946 and again in 1948 appointed President, Elections Petitions Commission; appointed Judicial Member, Income-tax Appellate Tribunal, 1950; President, Income-tax Appellate Tribunal. *Publications:* *Law and Practice of Income-tax*; *Law and Practice of Divorce and Law*; *Practice of Elections & Election Petitions*. *Recreations:* Golf. *Clubs:* Willingdon Sports Club. *Address:* Allahabad.

MANDLOI, Bhagwantrao Annabhau, B.A., LL.B., Revenue, Local Self-Govt. and Commerce & Industry Minister, Govt. of Madhya Pradesh, since Nov. 1, 1956. *b.* Dec. 15, 1892; *Educ.:* Matriculated from Govt. High School, Sagar; B.A. from Govt. Coll., Jabalpur, 1914;

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LL.B. from Univ. School of Law, Allahabad, 1917; Practised as a Lawyer at Khandwa; has been Pres., Municipal Cttee., Khandwa for three terms of five years each; was in charge of various Public Institutions, *viz.*, The Morris Memorial Library, Khandwa, The Orphanage, Khandwa, The Nimar Education Society, Khandwa, which conducts a Degree College and a High School; was member, Governing Body of Women's Hospital, Khandwa; has been a member, P.C.C. for the last 20 years; member, C.P. & Berar Leg. Council, 1935-37; member, M.P. Leg. Assembly, since 1937; was member, Constituent Assembly and Interim Parliament; Revenue and Education Minister, M.P. till 31st Oct. 1956; member, A.I.C.C. *Address:* Revenue Minister, Bhopal.

MANEKSHAW, Lieut.-Gen. Sam Hormuzji Framji Jamshedji, Commandant, Defence Services Staff College, Wellington (Nilgiris), since Oct. 1, 1959. *b.* April 3, 1914; *Educ.:* Sherwood Coll., Naini Tal; Indian Military Academy, Dehra Dun. Commissioned, 4 Feb. 1934; served one year with 2nd Bn. The Royal Scots; Saw service in the Ahmedzai operations, 1939-40; Burma, 1942; awarded Military Cross; graduated from Staff Coll., Quetta, 1943; served as Brigade Major of the Razmak Brigade in Waziristan, 1943-44; Instructor, Staff Coll., Quetta, 1944; active service in Burma and French Indo-China, 1945-46; Central Staff Officer. Grade I, Military Operations Directorate, A.H.Q., 1946-47; promoted Brig. and appointed Director of Military Operations, March '48-April 1952; Director of Military Training, until Jan. 1955; took over command of the Infantry School at Mhow, 1955; promoted Major General and appointed Commander of 26 Infantry Division in Jammu and Kashmir, Dec. 1957; Colonel of the 8th Gorkha Rifles, since April 1953. *Address:* C/o Lloyds Bank Ltd., Bombay or Delhi.

MANGALDAS, Madanmohan, B.A. (Bom.), Chairman, The Gujarat Housing Board, since 1960; Industrialistand businessman, Ahmedabad. *b.* Oct. 5, 1917. Is a leading millowner in Ahmedabad; Joined business after taking his degree; President, The Ahmedabad Management Assoc., since 1959; Director of various cotton textile mills and associate concerns; Director, Bank of India Ltd.; has been member, Managing Cttee., Ahmedabad Millowners' Assoc.; elected its Vice-Pres., 1947 and Pres., 1955 and 1958; was mainly responsible for the five years' Bonus Pact between the employers and employees of the cotton textile industry in Ahmedabad; elected M.L.A., Bombay from Ahmedabad, 1951; Representative of the Ahmedabad Millowners' Assoc. on Employees' State Insurance Corporation, Cotton Textile Fund Cttee., etc.; has travelled widely throughout the Continent, Japan, America, Ceylon, Egypt, etc.; represented India at the International Cotton Congress, Egypt, 1951; was member, Indian Industrial Delegation sponsored by the Federation of Indian Chambers of Commerce & Industry, 1957; *Address:* Mangal Baug, Ellis Bridge, Ahmedabad 6.

MANGAT RAI, Edward Nirmal, M.A., I.C.S., Chief Secretary to Govt., Punjab, since Nov. 18, 1957. *b.* March 30, 1915; *Educ.:* St. Stephens Coll., Delhi; Keble Coll., Oxford, England. Joined service, Oct. 13, 1938; Asstt. Commr. in undivided Punjab, Oct. 20, 1938-April 23, 1940; Under Secy. to Fin. Commrs., Lahore, June 14, 1941-March 1942; Asstt. Price Controller, Punjab, March 6, 1942-June 1943; Asstt. Director of Civil Supplies, June 29, 1943-Sept. 1943; Director, Civil Supplies, Lahore, Sept. 24, 1943-May 1947; Director General of Food Purchase, Punjab, May 15, 1947-Nov. 1950; member: Foodgrains Policy Cttee., 1943; Thirumala Rao Food Cttee., 1950; Finance Secy., Punjab, Nov. 12, 1950-1954; Planning and Dev. Commr., Punjab, 1954-Nov. 1957. *Club:* Chandigarh Club, Chandigarh. *Address:* Chandigarh.

MANI, Annakavoor Doraiswamy, M.A. (Madras), M.P. (Rajya Sabha), Managing Editor, *The Hitavada*, Nagpur, since 1936; Chairman, P.T.I., since Nov. 1959. *b.* April 8, 1910; *Educ.:* Wesley Coll. and Presidency Coll., Madras. Editorial apprentice on *New India* edited by Dr. Besant, 1930; joined *Hitavada*, 1933; Secy., Provincial Branch of the Editors' Conference, 1942-48; General Secy., A.I.N.E.C. Conference, 1949; member, its Standing Cttee. from 1940; Executive of the Indian and Eastern Newspaper Society from 1947; visited U.S.A., 1951, as guest of U.S. Govt.; Chairman, U.N. Cttee. for Adm. Unions, 1952; Representative on the 3rd Cttee. of U.N. General Assembly, 1952; Member, Indian Press Commission, 1952-54; Re-elected President, A.I.N.E.C., 1954; delegate to Asian Press Institute's Conference, Kandy, 1957; started simultaneous edition of *Hitvada* in Bhopal, 1957; Chairman, P.T.I., 1959-60; Indian Delegate, Indo-Pakistan Information Consultative Cttee., 1960; elected member, Rajya Sabha, from M.P., 1960. *Publications: Of Yanks and Others. Address:* Wardha Road, Nagpur; Hitavada House, Vidya Vihar, Bhopal; 27, Western Court, New Delhi.

MANI, H.E. Mr. Rangiah Subra, B.A. (Madras), B.Sc. (Hons.) (Lond.), A.R.C.S. (Hons.), (Lond.), I.C.S., Indian Ambassador to Burma since Oct. 1960. *b.* Aug. 14, 1907; *Educ.:* Hindu Coll., Tirunelveli; Christian Coll., Madras; Royal Coll. of Science, London. Joined I.C.S., 1932; served in various posts in Bombay; Deputy High Commissioner, London; Charge d'Affaires, Rome; Joint Secy., Ministry of External Affairs, New Delhi; Ambassador to Iraq and Jordan; Ambassador to Chile and Bolivia. *Recreations:* Tennis, Swimming, Chess. *Address:* C/o Ministry of External Affairs, New Delhi.

MANICKAVELU, M. A., B.A., B.L., Minister for Revenue and Health, Madras. *b.* Dec. 14, 1896; *Educ.:* Madras Christian Coll. and later qualified himself for Law. Member, Madras Leg. Council, 1926-37; Parliamentary Secy. in Dr. Subbaroyan's Ministry, 1928-30; Pres., North Arcot Dist. Temple Cttee., 1929-30; was member, North Arcot Dist. Board for a term and was administering the educational side of the Board, 1944-46; elected M.L.A., Madras on the Commonwealth Party ticket of which he was the leader, from the Polur Constituency, North Arcot Dist., 1952; became Minister for Revenue under Rajaji; elected again on Congress ticket, 1957. *Address:* No. 1, Crescent Park Street, T. Nagar, Madras 17.

MANJAPPA, Kadidal, B.A., LL.B., Minister for Revenue, Mysore, since May 1958. *b.* 1910; *Educ.:* Maharaja's Coll., Mysore; Law Coll., Poona. Joined the Congress, 1937; participated in all the freedom movements; Minister for Revenue, Mysore State, 1952-56; elected leader, Mysore Assembly Congress Party, Aug. 16, 1956; Chief Minister, Aug.—Oct. 1956; Minister for Education till second General Eelections; elected to the State Assembly, 1957. *Address:* Bangalore.

MANSINHA, Dr. Mayadhar, M.A., Ph.D., Writer; Chief Compiler, Oria Encyclopaedia, Utkal University. *b.* Nov. 11, 1905; *Educ.:* Banapur M.E. School; High School, Khurda; Ravenshaw Coll., Cuttack; Patna Coll., Patna; B.A. (Hons.) in English, 1930; M.A. in English, 1933; Univ. of Durham, England; awarded Doctorate on a thesis on Kalidas and Shakespeare. *Publications:* Poetry: *Dhupa; Hemapushpa; Premasashya; Kamalayana; Jibanachita; Matibani; Sadhabajhia; Jema; Akshyata; Bapu Tarpana; Konarka; Krusa;* Drama: *Pujarinee; Budha; Puspita; Nastanida; Barabati; Rajakabi;* Essays, criticisms and travels; *Jibana patha; Kabi O Kabita; Paschima Pathika; Oriya Samaj O Sahitya; Jibani O Prabandha; Sahitya Pratha;* English; *Kalidas and Shakespeare; Citizen Education; Scheme for Adult Education. Recreations:* Writing for periodicals and visits to countryside. *Address:* Thoria Shahi, Cuttack, Orissa.

MARIAPPA, T., B.A., LL.B., Minister for Finance, Mysore State, since Nov. 1956. *b.* July 10, 1905; *Educ.:* Central Coll., Bangalore; Law Coll., Poona. Practised as an Advocate for 17 years; entered public life, 1930; has been member, legislature of the Mysore State, since 1930; member: Dist. Board, Mysore; City Municipal Council, Mysore for several years; Leader of the Congress party in the Mysore Legislative Council, 1941-45; Home Minister, Mysore, 1947-52; member, Backward Classes Commission, 1953-54; *Address:* Vidhana Soudha, Bangalore 1.

MARIYAPPA, Mali, B.A., LL.B., Minister for Co-operation, Mysore, since May 1958. *b.* Feb. 18, 1912, in Sira Town; *Educ.:* Maharaja's Coll., Mysore; Law Coll., Poona. Entered the bar, 1935; joined the Congress, 1937; member, Mysore Constituent Assembly, 1948-49; M.L.A., Mysore, 1950-52; re-elected to the Assembly, 1952 and 1957 General Elections; participated in the Freedom struggle and suffered imprisonment thrice. *Address:* Bangalore.

MASANI, Minocher Rustom, M.P., author, management consultant, General Secretary, Swatantra Party. *b.* Nov. 20, 1905 in Bombay; *Educ.:* B.A. (Bom.), LL.B. (Lond.); Bar, Lincoln's Inn in 1928. Founder and Joint Secretary, Congress Socialist Party, 1934-39; member of the Bombay Municipal Corporation, 1935-45; Mayor of Bombay, 1943-44; member, Indian Legislative Assembly, 1945-47; member, Constituent Assembly of India, 1947-48; Ambassador of India in Brazil, 1948-49; member, Parliament of India, 1949-52 and since May 1957; Chairman, United Nations Sub-Commission on Discrimination and Minorities, 1950-52; patron, Liberal International; member: Governing Body, National Productivity Council; Exec. Cttee., All-India Management Association; Head of Personnel and Productivity Services, Management Consultants. *Publications: India's Constitution at Work*, 1939; *Our India*, 1940; *Socialism Reconsidered*, 1944; *Your Food*, 1944; *Picture of a Plan*, 1945; *A Plea for the Mixed Economy*, 1947; *Our Growing Human Family*, 1950; *Our India*, 1953; *The Communist Party of India—A Short History*, 1954. *Address:* 68, Bhulabhai Desai Road, Bombay 26.

MASANI, Sir Rustom Pestonji, Kt. (1943), M.A., J.P. *b.* 23rd Sept. 1876. Chairman, Executive Cttee., Indian Institute for Educational and Cultural Co-operation; member, National Commission for Co-operation with UNESCO; Ex-Vice-Chancellor, Bombay University; Vice-Pres., All-India Centre, P.E.N.; Municipal Secy., Dy. Municipal Commissioner and Municipal Commissioner for the City of Bombay; Chairman, Oriental Industrial Investment Corporation; Editor, *Kaiser-i-Hind* and *Indian Spectator. Publications: Child Protection: Folklore of Wells; The Law and Procedure of the Municipal Corporation, Bombay; The Conference of the Birds; A Sufi Allegory; Evolution of Local Self-Govt. in Bombay; The Religion of the Good Life; Zoroastrianism; Court Poets of Iran and India; Dadabhai Naoroji, The Grand Old Man of India; Education for World-Understanding; The Role of Wealth in Society; The Five Gifts: Story of Bhoodan as an Instrument of Social Change; Britain In India;* works in Gujarati. *Address:* 49, Merewether Road, Bombay 1.

MASTER, Mansukhlal Atmaram, B.A., LL.B. *b.* Nov. 11, 1884; *Educ.:* Elphinstone Coll., Bombay. President: Indian Merchants' Chamber, 1945; Cttee. of the Fed. of Indian Chambers of Commerce & Industry, 1947; Trustee, Port of Bombay since 1937; Chairman, Minor Ports Development Cttee. of the Govt.

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of Bombay; member, Shipping & Trade Integration Cttee., Maritime Training Facilities Cttee., Shipping Policy Cttee., Governing Body, Training Ship "Dufferin", Central Advisory Committe for Lighthouses, Senate, Bombay University; Premier Automobiles Ltd.; Govt. of India delegate: International Conference of Safety of Life at Sea (London), 1929 & 1948; Employers' Adviser and then as Employers' Delegate; International Maritime Conference at Geneva; was General Manager, The Scindia Steam Nav. Co., Ltd.; Pres., Commerce Graduates Assoc.; Govt. Delegate—Trade Negotiations with Czechoslovakia & Switzerland. *Publications:* Several pamphlets on shipping and other matters of importance to commerce and industry. *Address:* "Raj Mahal", Juhu (Bombay 23).

MATHULLA, Mathew Kandathil, B.A., A.C.A., F.C.A., Padma Shri (1959), Chairman and Managing Director, Hindustan Machine Tools Ltd. *b.* April 24, 1907; *Educ.:* B.A. from Madras Christian Coll., 1928; A.C.A. from Institute of Chartered Accountants in England and Wales, 1934; F.C.A. from Institute of Chartered Accountants in England and Wales, 1960. Asstt. Dy. and Controller of Accounts, Tata Iron & Steel Co., 1934-48; Chief Executive Officer, Air India, 1948-51; Controller of Accounts and Managing Director, Sindri Fertilizers and Chemicals Ltd., 1951-54; Jt. Secy., Ministry of Production, Govt. of India, 1954-56. *Clubs:* Delhi Gymkhana; Delhi Golf Club; Willingdon Sports Club, Bombay; Bangalore Club; Bangalore Golf Club. *Address:* H. M. T. House, Jalahalli P. O., Bangalore.

MATHUR, Jagdish Chandra, M.A., I.C.S., Director-General, A.I.R., since June 1955. *b.* July 16, 1917; *Educ.:* Allahabad Univ.; Ewing Christian Coll.; J.A.S. High School, Khurja; Entered the I.C.S. 1941. Served in Orissa till 1944 and in Bihar, from 1944-55; was Education Secy. to Bihar Govt. for six years; served as member, Higher Rural Education Enquiry Cttee. set up by Govt. of India, 1954; connected with Bihar Academy of Music, Dance, Drama; served as Chairman, UNESCO Seminar on Visual Aids in Fundamental Educ. in 1958; Special lecture at UNESCO's World Adult Education Conference, Montreal, 1960. Editor, *Bihar Theatre. Publications:* Plays: *Bhor-ka-Tara, Konark, Omere Sapne, Kunwar Singh-ki-tek, Sharadiya Gagan Sawari;* Miscellaneous: *Homage to Vaisali. Recreations:* Play-Writing; Theatre. *Clubs:* Delhi Gymkhana Club; Bankipore Club, Patna. *Address:* New Delhi.

MATHURADAS, Pratapsinh, J.P., Businessman; Pres.: Maharashtra Economic Development Council; Indian Merchants' Chamber, 1960. *b.* March 19, 1916; *Educ.:* New High School, Bombay. Director: Assam Match Co. Ltd., A.C.C. Ltd.; Bombay Cycle and Motor Ag. Ltd.; Bombay Burmah Trading Corp. Ltd.; Great Eastern Shipping Co., Ltd.; Khatau Makanji Spg. & Wvg. Mills Ltd.; Lakshmi Cotton Manufacturing Co. Ltd.; Wallace Flour Mills Co. Ltd.; Premier Automobiles Ltd.; Bombay Dyeing & Mfg. Co., Ltd.; Mysore Spg. & Mfg. Co., Ltd.; Tata Chemicals Ltd.; Tata Hydro-Electric & Power Supply Co. Ltd.; W. H. Brady & Co. Ltd.; State Bank of India (Central Board and Local Board, Bombay); Vishnu Cotton Mill Ltd., etc. *Recreations:* Games. *Clubs:* Rotary Club of Bombay; W.I.A.A.; C.C.I.; National Sports Club of India; Willingdon Sports Club; Bombay Flying Club; India Assoc. Institute (London); Radio Club; W.I.A.A. Club; India-America Society. *Address: Residence:* Sir Mathuradas Vissanji Road, Andheri; *Office:* 9, Wallace Street, Fort, Bombay.

MATSUDAIRA, His Excellency Dr. Koto, M.A., LL.D., Ambassador Extraordinary and Plenipotentiary of Japan to India, since July 1961. *b.* 1903 in Tokyo; *Educ.:* Tokyo Univ. and the Univ. of Paris. Entered the Foreign Service, 1926; assigned to France as Attache, 1931; Treaties Department, Ministry of Foreign Affairs, Tokyo, 1934; Chief of Second Section of Treaties Deptt., 1938; assigned to the U.S.A. as Second Secy., 1941; promoted First Secy., 1942; assigned to the U.S.S.R. as First Secy., 1943; promoted Counsellor, 1945; Director of the Political Research and Documentation Deptt., Ministry of Foreign Affairs, Tokyo, 1946; Special Assistant to Foreign Minister, 1952; assigned to Canada as Ambassador Extraordinary and Plenipotentiary, 1954; Japanese Delegate to the 11th Session of the General Assembly of the U.N., 1956; Permanent Representative of Japan to the U.N., 1957. *Address:* Japanese Embassy, New Delhi.

MATTHAI, Mrs. Achamma John, B.A.(Hon.), Padma Shri (1955), Social Worker; Pres., Y.W.C.A. of India; member, Central Social Welfare Board. *b.* Feb. 21, 1888; *Educ.:* Trivandrum; Calcutta; B.A. (Hons.), 1920. President: Y.W.C.A. of India, 1940, 1947; Indian Conference of Social Work, 1947; Hon. Director, Women Section of the Ministry of Rehabilitation, New Delhi, 1947-50; Hon. Chairman, Cttee. for the Welfare of Displaced Women & Children, Bombay, 1951-54; Convenor, Bombay Pradesh Bharat Sevak Samaj, 1953-56; member, Central Board, Bharat Sevak Samaj, New Delhi, since 1953; Planning Board, Kerala, 1960; Cttee. on National Institute for Higher Educ. & Training of Women, Ministry of Education, Govt. of India, 1960; Pres.: Y.W.C.A. of Bombay; Y.W.C.A. of India, 1955-59; is member, Central Advisory Board, Women's Savings Campaign; is Vice-Pres., Indian Council for Child Welfare. *Address:* Matthaipuram, Aranattukara, Trichur.

MAYNE, Walter Wilson, B.Sc. (Wales), M.I. Biol., General Manager, Kanan Devan Hills Produce Co. Ltd., since 1955. *b.* Feb. 16, 1906; *Educ.:* Port Talbot County School; Univ. Coll. of South Wales & Monmouthshire. Coffee Scientific Officer, United Planters Assoc. of Southern India, 1928-46; Ag. Secy. U.P.A.S.I., 1943-46; Scientific Officer, Kanan Devan Hills Produce Co. Ltd., 1947-55; on special duty on enquiry into Cardamom Industry, Sept. to Nov. 1940. *Publications:* Report on Cardamom Cultivation in Southern India; numerous technical articles on coffee cultivation. *Recreations:* Field Botanical Studies, Reading. *Clubs:* Madras, Bangalore, High Range, Coonoor. *Address:* Ladbroke House, Munnar P.O., Kerala.

MAZUMDAR, Dwijendra Lal, B.A. (Hons.) (Econ.) (Calcutta), B.A. (Tripos in Econ.) (Cantab.), M.A. (Econ.) (Calcutta), I.C.S., Secretary, Ministry of Commerce and Industry (Deptt. of Company Law Administration), since 1955. *b.* Jan. 25, 1905; *Educ.:* Hindu School, Calcutta; Presidency Coll., Calcutta; Jesus Coll., Cambridge. Entered Indian Civil Service, Dec. 1929. *Publications:* Author and co-author of several economic and financial reports; A report on the inter-relation between Provincial and local finance in Bengal (1940); Report on some aspects of the finances of the Calcutta Improvement Trust (1940); Reports of: the Bengal Jute Enquiry Cttee. (1940); the Bengal Paddy and Rice Enquiry Cttee. (1940); the Bengal War Risk Insurance Cttee. (1942); Reports on: the Marketing and Transport of Jute (1941-42); the Problems of Dock Labour in Calcutta (1942); Reports of: the Fiscal Commission, 1949-50; the Import Control Enquiry Committee (1950); the Company Law Committee (1952), etc. *Recreations:* Tennis, gardening, writing. *Clubs:* Calcutta Club; Delhi Gymkhana Club. *Address:* 1, Sonehri Bagh Road, New Delhi 2.

MEADOWS, Stanley Fincham, Manager, William Jacks & Co. Ltd., Bombay. *b.* Feb. 5, 1916; *Educ.:* St. Wilfred's School, Seaford, Sussex and Cranleigh School, Surrey. Wm. Jacks & Co. Ltd., Madras, Calcutta, Karachi; Indian Army 1940-46: Major, Indian Cavalry; mentioned in Dispatches (Burma). *Recreations:* Golf, Sailing, Swimming, Squash. *Clubs:* East India & Sports Club, Ltd., London; Sind Club, Karachi; Karachi Yacht Club; Royal Bombay Yacht Club; Presidency Golf Club. *Address:* 13, Nepean Road, Malabar Hill, Bombay 6.

MEDHI, Bisnu Ram, B.Sc. (Hons.), M.Sc., B.L., Governor of Madras, since Jan. 24, 1958; Advocate. *b.* April 1890 in the village of Hajo (Kamrup—Assam); *Educ.:* Presidency College, Calcutta. Enrolled as Pleader, Gauhati Bar, 1914 and Advocate, Calcutta High Court, 1931; joined the Non-Co-operation Movement and was imprisoned for more than a year after Lahore Congress; elected President of Assam after Lahore Congress, P. C. C. unanimously and since then continuously elected President till 1939; member, A.-I.C.C.; imprisoned in 1930 and 1940 in connection with C. D. and Satyagraha Movements for about two years and again detained in jail for over 2 years in connection with 1942 movement; popularly known as the 'Iron Man' of Assam; Minister of Finance, Revenue and Legislation, Assam, Feb. 1946-Aug. 1950; Chief Minister, Assam, Aug. 1950-Jan. 1958. *Address:* Raj Bhavan, Madras; Uzan Bazar, Gauhati, Assam.

MEHDI, Nawaz Jung, Governor of Gujarat, since May 1, 1960; Chairman, Lalit Kala Akademi, since Jan. 1, 1961. *b.* May 1894, at Hyderabad. Joined Hyderabad Civil Service, 1916; travelled extensively in European and other countries to make a study of the co-operative movement there, 1923-24; held several important posts in the Hyderabad Govt. including that of the Secy. to the Cabinet, 1926-37; Municipal Commissioner, Hyderabad and Head, Office for Codification of Municipal Law, 1937-42; Agent for Hyderabad State in Nagpur, 1947-48; Minister, Andhra Pradesh, 1952-60; has made a special study of hill stations and was actively associated with the construction of a station at Horsely Hill near Madanapalli; is credited with the creation of Hyderabad's fashionable Banjara locality; was founder-member, Hyderabad Arts Society; Chairman, Salar Jung State Management Cttee.; was Pres.: Bharat Scouts and Guides; Indian Conference of Social Work, Andhra Pradesh; was connected with the foundation in Hyderabad of the Cancer Hospital and the Niloufer Hospital for Women and Children; keenly interested in social work and co-operative movement; Founder: Hyderabad Commercial Corporation; Hyderabad Agricultural Co-operative Association; Hyderabad Central Co-operative Union; Patron, Bharat Scouts & Guides, Gujarat State; Pres., Indian Conference of Social Work, Gujarat State branch; Chairman, Lalit Kala Akademi, New Delhi. *Address:* Raj Bhavan, Ahmedabad.

MEHRA, Bal Krishan, M.Sc. (Lahore), M.S. (Pharm.) (U.S.A.), Technical Representative for Pfizer in India, since 1951 and Managing Director, Ravison Pharmaceuticals Private Ltd., since 1954; Director, Pfizer Private Ltd. *Educ.:* M.Sc. with 1st Class in Chemical Technology from the Govt. Coll., Lahore and recipient of "Roll of Honour"; M.S. (Pharm.) from Philadelphia Coll. of Pharmacy & Science, U.S.A. Worked as Chemist-in-charge, Lesco Chemical & Pharmaceutical Works Ltd., and Lecturer in Pharmaceutics, K.E. Medical Coll., Lahore and

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Medical Coll., Amritsar; worked under Dr. Arthur Osol and awarded Fellowship by the American Foundation for Pharmaceutical Education, New York; with Chas. Pfizer & Co. Inc. New York, at their Brooklyn Factory on the standardization and manufacture of antibiotics; member, P.S.C. and I.P.A. *Address:* Alpana, 60, Peddar Road, Bombay 26.

MEHRA, Sita Ram, C.E. (Roorkee), M.I.E. (India), M.I.C.E. (England), F.N.I., Director, Central Road Research Institute, New Delhi, since 1955. *b.* Aug. 21, 1905; *Educ.:* Govt. Coll., Lahore, Thomason Coll. of Engineering, Roorkee and Imperial Coll., London. A pioneer in the field of soil stabilisation in India; set up a laboratory for soil research at Lahore, 1944, and one at Karnal, 1947; reorganised engineering education in the State; went round U.K., The Continent and U.S.A. to discuss research with experts in the field, 1950; deputed by Government of India to Bandung in connection with the housing problems, 1956; Chairman, Indian National Society on Soil Mechanics and Foundation Engineering in India, 1956-58; Pres., Indian National Society on Soil Mechanics and Foundation Engineering in India; member, Indian Scientific delegation to the U.S.S.R., 1958 by invitation; visited Ceylon as an expert under the Colombo Plan to advise the Ceylon Govt. on "Low Cost and other Roads and Roads Research in Ceylon", 1960. *Publications:* Many research papers on roads and buildings. *Address:* Director, Central Road Research Institute, P.O. CRRI, New Delhi-20.

MEHROTRA, Mr. Justice Gopalji, B.A., LL.B., Judge, Assam High Court, since Nov. 1957. *b.* Feb. 7, 1905; *Educ.:* School education in Jaunpur; graduated from Benares Hindu Univ.; graduated in Law from Allahabad Univ., 1928. Joined the Allahabad High Court Bar, 1930; Standing Counsel, U.P. Govt., 1948-54; Judge, Allahabad High Court, May 1954-57. *Recreations:* Music. *Address:* Strand Road, Gauhati.

MEHROTRA, His Excellency Lalji, B.A., LL.B., Indian Ambassador to Japan. *b.* Nov. 16, 1901; *Educ.:* Universities of Allahabad and Bombay. Secy., Civil Disobedience Enquiry Cttee. of the Congress, 1922; Acting Gen. Secy., Congress, 1932-33; Mayor of Karachi, 1940-41; Pres.: Indian Merchants' Assoc., Karachi, 1939-42; Federation of Indian Chambers of Commerce and Industries, 1948-49; Indian Chambers of Commerce in Great Britain, London, 1951-54; Director; Bachhraj Factories Ltd.; Bachhraj T. Corpn. Ltd.; Mukand Iron and Steel Works Ltd.; Ambassador to Burma, etc. *Address:* 22A, Worli Seaface, Bombay 18; Indian Embassy, Tokyo.

MEHTA, Asoka, B.A., M.P., Social worker; Chairman, Praja Socialist Party. *b.* 24th October 1911; *Educ.:* Wilson College, Bombay; School of Economics, Bombay University. In political life from 1930; imprisoned five times; founder-member of former Socialist Party; edited its official organ, 1935-39; member of its National Executive for 25 years; elected to Lok Sabha in by-election from Muzaffarpur Constituency, Bihar, Dec. 12, 1957. *Publications: The Communal Triangle in India, Who owns India, Political Mind of India, Democratic Socialism, Politics of Planned Economy, Socialism and Peasantry, Indian Shipping, Studies in Asian Socialism. Address:* 5, Dadysett Road, Bombay 7; 1, Gurudwara Road, New Delhi.

MEHTA, Balvantray Gopalji, B.A. (Bombay), M.P., Ex-Chairman, Estimates Cttee.; ex-General Secy., Indian National Congress; Leader, Team on Community Projects & N.E.S. Blocks; Vice-Pres., Servants of the People Society; Ex-Deputy Chief Minister, Govt. of United State of Saurashtra, Rajkot. *b.* Feb. 19, 1899. Entered public life, Oct. 1920; took active part in States People's Movement for civil liberties and responsible Govt., women's education, Harijan uplift work; Chairman, Central Gandhi Sangrahalaya Board, New Delhi, 1960-61; Pres.: Bhavnagar Prajamandal; Gohilwad Harijan Samiti; Indian Council for Africa since 1959; All India Panchayat Parishad 1958-61; member, Working Cttee., A.-I.C.C.; jailed several times for active participation in freedom movement; Started Mahila Vidyalaya and Harijan Schools in Bhavnagar State and handed them over to the State after some years; started Thakkar Bapa Harijan Ashram, 1927. *Address:* 5, Curzon Lane, New Delhi.

MEHTA, Bhagwatsinha, B.A., LL.B., Chief Secretary to the Govt. of Rajasthan. *b.* Oct. 30, 1908; *Educ.:* Allahabad. Joined Govt. service in the former State of Mewar, 1933; in 1936 was entrusted with special work of drawing up of Mauft Rules and to decide Kushalgarh-Tamesra Dispute by the then Political Agent in Mewar, 1936; was Chief Revenue and Settlement Officer, former State of Banswara; Secy. to the Council and Chief Secy., former State of Mewar; Re-organisation Commissioner and Chief Secy., former Rajasthan; in Rajasthan has worked as Secy., Agriculture Commissioner, Bikaner and Jaipur; Famine and Relief Commissioner, Development Commissioner; was Leader, of the Team appointed by the Govt. of India to study Local-Self Govt. in Yugoslavia, Nov. 1959. *Clubs:* Field Club, Udaipur; Jaipur Club, Jaipur (Pres.). *Address:* 52, Sawai Ramsingh Road, Jaipur.

MEHTA, Chandravadan Chimanlal, Gujarati Poet and Play-Wright; Hon. Professor and Head of Dramatics, M.S. Univ., Baroda. *b.* April 6, 1901 in Surat; *Educ.:* Early education in Surat; Elphinstone Coll., Bombay. Joined Bardoli Satyagraha movement as volunteer, 1928; worked under Mahatma Gandhi; translated his articles with his Secretary Mahadev Desai and edited his paper *Navjivan;* worked as Secretary to Vithalbhai Patel; courted jail during freedom movement; Delegate to All-India Drama Seminar and Literary Samaroh, Delhi, organised by Sangeet Natak Akadami and A.I.R., 1956; travelled extensively in India, Europe and the U.K.; has also visited Burma; has appeared before T.V. and featured in B.B.C. programmes, London; has broadcast in Gujarati, Hindi, Marathi and English; one of the organisers of the Saurashtra Akadami of Dance and Drama. *Publications:* More than fifty plays including an autobiography in 4 volumes; a collection of poems and a novel. Plays: *Aaggadi; Kanya Viday; Sati; Santa Kukadi; Aradhana,* etc.; Poems: *Illa Kavya; Ratan; Chandarana;* Novel: *Khama Bapu. Address:* C/o Music College, Sursagar, Baroda.

MEHTA, Sir Chunilal Bhaichand, Kt. (1942), Cotton and bullion merchant. *b.* Jan. 19, 1888; *Educ.:* Bhavnagar and Bombay; Director: Scindia Steam Navigation Co. Ltd.; Investment Corporation of India Ltd.; Alcock, Ashdown & Co. Ltd. and several other commercial concerns; Sheriff of Bombay, 1935-36; Pres.: Indian Merchants' Chamber, 1940; Federation of Indian Chambers of Commerce and Industry, New Delhi, 1941-42; Bombay Shroffs' (Indigenous Bankers) Assoc., 1934-43; Bombay Bullion Exchange and Assoc. Ltd., 1933, '43, '56, '57; Red Cross Society, 1948-49; Vice-Pres., Indian Central Cotton Cttee., 1942-47; member: Governing Body, Imperial Council of Agricultural Research, 1935-38; Leader, Indian Delegation to International Business Conference held at Rye, New York, 1944. *Recreations:* Music. *Clubs:* Willingdon, Cricket, Rotary, Radio, W.I.A.A. *Address:* 52, Ridge Road, Malabar Hill, Bombay 6.

MEHTA, Sir Chunilal Vijbhucandas, Kt., K.C.S.I. (1928), M.A., LL.B., Business man, industrialist. *b.* Jan. 12, 1881; *Educ.:* St. Xavier's Coll., Bombay. Captain, Hindu XI Elected to the Bombay Municipal Corporation in 1907; Chairman, Standing Cttee., 1912; President of the Corporation, 1916; elected to the Bombay Legislative Council by the Corporation in 1916; elected to the City Improvement Trust, 1918; Chairman, Indian Merchants' Chamber, 1918 and 1931; elected to the Bombay Port Trust, 1920; ex-Chancellor, Indian Women's Univ.; ex-Provincial Scout Commsnr.; Minister, Bombay Govt., 1921-23; member, Executive Council of Govt. of Bombay, 1923-28; Chairman, Western India Match Co., Ltd.; Director, Tata Power Co. Ltd., The Tata Iron & Steel Co., Ltd., The Associated Cement Companies Ltd., etc.; President, Indian Territorial Force, 1946. *Address:* 42, Ridge Road, Malabar Hill, Bombay.

MEHTA, Gaganvihari L., M.A. (Bom.), Padma Vibhushan (1959), Chairman: Industrial Credit and Investment Corpn. of India Ltd., Bombay; Hindustan Shipyard Private Ltd.; National Shipping Board; Indian Investment Centre. *b.* April 15, 1900; *Educ.:* Bombay; London School of Economics. Honorary Degree, LL.D. Rollins Coll. (Winter Park Flo), Simpson Coll. (Indianola, Iowa) (1953); College of Education, Providence, Rhode Island, 1956; Hon. Fellow, London School of Economics, 1958. Asstt. Editor, *Bombay Chronicle,* 1923-25; Manager, Scindia Steam Navigation Co., Ltd., Calcutta, 1928-47; held various advisory or administrative positions such as Pres., Indian Chamber of Commerce and Federation of Indian Chambers of Commerce and Industry; Member: Indian Delegation to the International Conference on Trade and Employment, Geneva; member: Constituent Assembly; Pres., Indian Tariff Board, Bombay, 1947-50; member, Planning Commission, New Delhi, May 1950-52; Chairman, Nuffield Foundation, Indian Advisory Committee, 1950-52; Chairman, Tariff Commission, Jan. 1952-Sept. 1952; Indian Ambassador to the U.S.A. and Mexico, Sept. 1952-May 1958; Indian Minister to Cuba, 1956-58. *Publications:* Frequently contributes to daily and weekly journals in India and abroad; *Conscience of a Nation* (1932); *From Wrong Angles* (1935); *Perversities* (1942); *Understanding India* (1959). *Address:* C/o The Industrial Credit and Investment Corporation, 136, Backbay Reclamation, Third Road, Bombay 1.

MEHTA, Gaman Manilal, Proprietor, Sun Process Works, Bombay. *b.* May 22, 1906, at Surat; *Educ.:* Sarvajanik High School, Surat. Joined the Sun Process Works, Ltd., 1930; became its Managing Director, 1941; and Proprietor in 1956; Rotarian since 1948; Freemason since 1940; Past Master, Trustee and Treasurer, Lodge Reginald Spence No. 5514 E.C., I.P.M., Lodge Islam No. 587 S.C., P.Z. and of the Chapter Crescent No. 346 S.C., P.S.R. Conclave Darius No. 58; Member, Indian Merchants' Chamber; travelled extensively; toured round the world by air, 1955. *Clubs:* Bombay Presidency Radio Club; Royal Western India Turf Club; Maharashtra Club, Poona. *Hobbies:* Swimming, Photography and Contract Bridge. *Address: Office:* No. 8, Swadeshi Mills Compound, Tata Road, Off New Queen's Road, Bombay 4; *Residence:* G. Bansilal Building, Opera House Tram Terminus, Bombay 4.

MEHTA, Rai Saheb Girdharilal Dayaram, Social Worker; Vice-Pres., Vidyasabha, Shree Shardapeeth, Dwarka. *b.* Sept. 5, 1879 at Visnagar. Has been in public life in various capacities; is a rotarian; is member: Railway Users' Consultative Cttee. as Gen. Manager's nominee; Railway Passengers' Assoc., Ahmedabad; State Transport Cttee.; Trustee

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and Pres., Visnagar Gaurakshana Panjarapole, Visnagar; Pres., Akhil Bharat Nagar Parishad; Trustee, D. D. Kanyavidyalaya, Visnagar; is associated with several cultural associations. *Address:* Golwad Street, Visnagar, North Gujarat.

MEHTA, Mrs. Hansa Manubhai, B.A. (Philosophy, Hons.), Padma Bhushan (1959), LL.D. Allahabad Univ., 1958, LL.D. Baroda Univ. 1959, Ex-Vice-Chancellor, Baroda University. *b.* July 3, 1897; *Educ.:* Baroda. Pres., B.P.C.C., 1930; Fellow of the Senate of Univ. of Bombay, 1931-46; member: Senate and Syndicate of the Indian Women's Univ.; Leg. Council, 1937 and 1940; Parliamentary Secy., Education and Health, 1937-39; Vice-Pres., A.I.W.C., 1930, 1945-46; member, Constituent Assembly, 1947-50; All India Council of Secondary Education, since 1955; Dy. Leader, Indian Delegation, UNESCO Conference, Paris, 1958; President, Indian Conference of Social Work, 1954-57; Member, Executive Board, UNESCO, since 1958; Vice-Chairman, All India Council of Secondary Education; leader, Indian delegation to the Tenth International Conference of Social Work, Rome. *Publications:* In Gujarati. *Tran Natako, Hamlet* (translated from Shakespeare), *Venice no vepari* (*Merchant of Venice*), *Bal Kand, Ayodhya Kand, Aranya Kand* and *Kiskindhakand*, 1956; *Sunder Kand*, 1957; *Yudha Kand*, 1958; In English, *Women under the Hindu Law of Marriage and Succession, Tract on Post-War Educational Reconstruction and Civil Liberties*, etc. *Address:* C/o The Bank of Baroda Ltd., Fort, Bombay.

MEHTA, Dr. Jivraj Narayan, L.M. & S. (Bom.), M.D. (Lond.) (University Medal), M.R.C.P. (Lond.), F.C.P.S. (Bom.), Chief Minister, Gujarat State, Since May 1, 1960.

b. August 29, 1887; *Educ.:* Amreli, Gujarat State, Grant Medical Coll., Bombay and London Hospital. Formerly, Ag. Asst. Director, Hale Clinical Laboratory, London Hospital, London and Chief Medical Officer, Baroda State; Pres., Indian Medical Assoc., 1930, '43 & '45; member: Medical Council of India, 1938-43; and since, 1947; Board of Scientific and Industrial Research, India, since 1942; ex-Secy., Health Ministry, Govt. of India; Chief Adviser to Govt. of India and Govt. of Bombay on Baroda Affairs, June-August 1949 and Adviser, Ministry of Health, India, 1949; courted jail in freedom movement; Dir.-Gen. of Health Services, Govt. of India, 1947-48; Prime Minister, Baroda State, June 1948-49; Member, Syndicate, Univ. of Baroda, 1949-60; P.W.D. Minister, Bombay, 1949-52; Minister for Finance, Govt. of Bombay, 1952-60. *Publications:* "Studies regarding presence of glycogen in Suprarenal Bodies"; "The Height, Weight & Chest Measurements Enquiry relating to some School Children in Bombay". *Address:* Sachivalaya, Ahmedabad 15.

MEHTA, Dr. Jyotindra Markand, M.A. (Oxon.), Ph.D. (Lond.), Bar-at-Law, Vice-Chancellor, Maharaja Sayajirao Univ. of Baroda, since April 30, 1958. *b.* Sept. 13, 1894; *Educ.:* Elphinstone Coll., Bombay; Jesus Coll., Oxford; London School of Economics. Fellow of the Elphinstone Coll., 1914-15; Professor of History, Elphinstone Coll., 1920-22; Senior Professor of History and Economics, Baroda Coll., 1922; Principal, Baroda Coll., 1931, 1934 and 1938; Commissioner of Education, Baroda State, 1939-49; Joint Director of Public Instruction, Bombay, 1949-50; Chairman, Public Service Commission, Saurashtra, 1950-54. *Publications: Rural Economy of Gujarat; Socio-Economic Survey of Baroda Villages. Address:* Vice-Chancellor, Baroda University, Baroda 2.

MEHTA, Dr. Mohan Sinha, M.A., LL.B. (Alld.), Ph.D. (Lond.), Bar-at-Law (Middle Temple), Vice-Chancellor, Rajasthan Univ., since Jan. 4, 1960. *b.* April 20, 1895, at Bhilwara; *Educ.:* D. A. V. High School and Govt. Collegiate School, Ajmer; Agra Coll., Agra; Ewing Christian Coll. and Univ. School of Law, Allahabad; London School of Economics & Political Science, London. Hon. Scout Commsr. for India, S.S.B.S.A., 1922-38; was in Meawar State service in various capacities, 1922-37, 1942-44 and finally as Finance Minister, Meawar State; in Banswara State service, 1937-47; Meawar State Rep. to Indian Constituent Assembly; Indian Amb. to Netherlands, till June 1951; High Commr. in Pakistan, 1951-55; Indian Amb. to Switzerland, Austria and the Holy See, 1955-58; member, Indian delegation to the U.N. Gen. Assembly, 1959. *Publications: Lord Hastings and the Indian States. Address:* Vice-Chancellor, University of Rajasthan, Jaipur.

MEHTA, Mohanlal Tuslidas Sopan, Editor, *Jdnmabhoomi* and *Pravasi*, since Jan. 1, 1949, *Jeevanmadhuri*, since its inception, Jan. 1957, *Abhinav Bharat* and *Gujarati Natya* since 1961. *b.* Jan. 14, 1910; *Educ.:* Karachi. Took active part in National Struggle from 1930-47; joined as Editor, Weekly *Pravasi*, Dec. 1940; also became Editor, *Nootan Gujarat*, daily and *Akhand Anand*, monthly; Vice-Pres., Gujarati Natya Mandal; member: State Prohibition Board, Maharashtra; Press Accredition Cttee., Maharashtra; Secy., Gujarati Sahitya Parishad. *Publications:* 45 publications in Gujarati: Short Story, Novel, Biography, Sociology and Politics; Some of his books have been translated into English, Hindi, Sindhi, Tamil and Malayalam; visited U.S.S.R., 1958 and other European countries, U.S.A., Japan, etc., 1959; conducts a publishing house and a printing press. *Recreation:* Photography. *Address:* Gulbahar, Barrack Road, Dhobi Talao, Bombay 1.

MEHTA, Vaikunth Lalubhai, B.A., Padma Bhushan (1954), Chairman, Khadi and Village Industries Commission. *b.* Oct. 23, 1891; *Educ.:* New High School, and Elphinstone College, Bombay. Winner of Ellis Scholarship, B.A. Examination. Manager, Bombay Central (Provincial) Co-operative Bank Ltd., 1912-15 and Managing Director, 1922-46; Vice-Pres., Social Service League, Bombay; Chairman, Bombay State Co-operative Union, 1953-60; member, Bombay Provincial Banking Inquiry Committee, 1929; member, Textile Labour Inquiry Committee, Bombay, 1937-40; member, Bombay Provincial Board, Harijan Sevak Sangh; Minister, Finance, Co-operation and Village Industries, Govt. of Bombay, 1946-52; Member, Finance Commn., 1952; Member, Taxation Enquiry Commission, Govt. of India, 1953-54; Chairman, Cttee. on Agricultural Co-operative Credit, 1959. *Publications: The Co-operative Movement*, 1915; *The Co-operative Movement in India*, 1918; *Studies in Co-operative Finance*, 1927; *Planning for Co-operative Movement*, 1941. *Address:* Lallubhai Park Road, Andheri, Bombay 58.

MEIYAPPAN, A. V., Business man, Studio Owner and Film Producer; Sole Proprietor, A.V.M. Studios, Madras. *b.* July 28, 1907; *Educ.:* Karaikudi, Madras State. Built up a firm for making gramophone records under the name and style of Saraswathi Stores at Madras, 1932; soon after took to film production; subsequently built up his own Studio; travelled widely in India including Kashmir, and abroad in Japan, Hongkong, U.S.A., England, Continent, U.S.S.R., Malaya, Singapore and Ceylon for business and study; active Exec. Cttee. member in allied films and studio associations. *Recreations:* Study of film industry—Indian and foreign; Travel. *Clubs:* Cosmopolitan Club, Madras. *Address: Office:* A. V. M. Studios, Madras 26; *Residence:* No. 27, Balajinagar, Royapettah, Madras.

MENON, K. A. Damodara, B.A., B.L., Minister for Industries and Commerce, Kerala State, since Feb. 22, 1960. *b.* June 10, 1906; *Educ.:* B.A. from Maharaja's Coll., Trivandrum. Took part in the Salt Satyagraha, 1930; in the C.D. Movement, 1932 and in the Liberation Struggle, 1942; imprisoned for 5½ years; Editor, *Mathrubhoomi*, Malayalam daily, 1937-48; was Secy., Treasurer and Pres., K.P.C.C.; was elected to Indian Parliament, 1949 and 1952. *Address:* Trivandrum.

MENON, Dr. K. B., M.A., Ph.D. (U.S.A.), Member, Lok Sabha, Praja Socialist Leader. *b.* June 18, 1897; *Educ.:* Christian Coll., Madras; Sydenham Coll., Bombay; the Universities of Colorado and California. Joined the Nizam's Educational Service; was sent for higher studies in the U.S.A.; took the Master of Arts and Economics and the Doctorate of Philosophy in Sociology, 1936; took charge of the Indian Civil Liberties Union as General Secy., 1937; appointed one of the Secretaries of the Indian States Peoples Conference, 1940; took active part in the 1942 struggle and was sentenced to 10 years R.I.; joined the Praja Socialist Party when it was organised as an Independent Political Party; elected M.L.A., Madras from Trithala Constituency in the 1st General Elections; elected member, Lok Sabha from Badagara Parliamentary Constituency in the 1957 General Elections; President, The Trithala High School, Trithala. *Address:* Cheruthuruthy, Trichur Dt., Kerala State.

MENON, K. P. Kesava, B.A., Bar-at-Law, Editor, MATHRUBHUMI, Kozhikode, since Oct. 1952. *b.* Sept. 1, 1886, in Kerala; *Educ.:* Madras; called to the Bar 1915. Set up practice in Calicut; joined the Indian National Congress; Secy.: Malabar Dist. Congress; Home Rule League started by Mrs. Annie Beasant; gave up practice to join the 1921 Non-Co-operation Movement; Secy., Kerala Prov. Congress Cttee.; founded the MATHRUBHUMI, Malayalam Daily, 1923; led the famous Vaikam Satyagraha movement in Travancore to establish the right of the untouchables to walk along public roads, 1924; arrested and imprisoned; released 1924; set up practice in Singapore, 1927; took active part in the Indian associations and labour organisations; imprisoned by the Japanese, 1944; released after the liberation; Pres., Aikya Kerala Cttee., 1949; was member, Standing Cttee. of the All-India Newspaper Editors' Conference; High Comm. for India in Ceylon, 1951-52; Vice-Pres., Kerala Sahitya Akademi. *Publications:* Various books in Malayalam. *Address:* Kozhikode.

MENON, K. P. S., M.A. (Oxon.), C.I.E., Padma Bhushan (1958), I.C.S., Ex-Indian Ambassador to Russia; was concurrently Ambassador to Poland and Hungary. *b.* Oct. 18, 1898; *Educ.:* Christian Coll., Madras; Christ Church, Oxford. I.C.S., 1921; Addl. Dy. Secretary to the Government of India, Foreign and Political Dept.; Under-Secretary to the Hon. Resident at Hyderabad; also on the Frontier for 3 years; Agent to the Government of India in Ceylon, 1929-33; deputed by Government of India on Special Mission to Zanzibar, Kenya & Uganda, to enquire into the position of Indians there, 1934; Dewan of Bharatpur State for about 3 years; attended the San Francisco Conference in 1945; attended the General Assembly of the United Nations in New York in 1946; Agent-General of the Govt. of India in China from 1943 to Jan. 1947; Ambassador for India in China, March 1947; Chairman, United Nations Commission on Korea, 1948; Forgn. Secy., Govt. of India, 1948 May–1952 Sept. *Publications:* *Delhi-Chungking. Address:* C/o External Affairs Ministry, New Delhi.

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MENON, H.E. Parakat Achutha, B.A. (Hons.) (Madras), I.C.S., Indian Ambassador to the Federal Republic of Germany since Dec. 1960. *b.* Jan. 2, 1905; *Educ.:* Presidency Coll., Madras; New Coll., Oxford. Joined I.C.S., 1929; Under-Secy. to Govt. of Madras, P.W.D. (1934-37); Under Secy. to Govt. of India, Home Dept. (1938-41); Collector of Guntur (1941-43); Deputy Secy. and Secy., India Supply Mission, Washington, U.S.A. (1943-47); Joint Secy. to the Govt. of India, External Affairs, 1947-49; was nominated member of Indian Legislative Assembly (1938-39); attached to several international Conferences (United Nations, 1944, 1946, U.N.R.R.A., 1946); Envoy Extraordinary and Minister Plenipotentiary of India in Portugal, 1949-51; Ambassador of India to Belgium and Minister of India to Luxembourg, 1951-54; Ambassador to Thailand, Oct. 1954-Aug. 1956; High Commissioner in Australia and New Zealand, 1956-59; Ambassador of India to Argentina, 1960. *Recreations:* Reading, Music, Walking. *Clubs:* Several. *Address:* Embassy of India, Bonn.

MENON, Mambillikalathil Govind Kumar, M.Sc. (Bombay), Ph.D. (Bristol), Padma Shri (1961), Prof. of Physics and Dean of the Physics Faculty, Tata Institute of Fundamental Research, Bombay 1, since 1960. *b.* Aug. 28, 1928; *Educ.:* Jaswant Coll., Jodhpur (1942–46); Royal Institute of Science, Bombay (1946–49); Univ. of Bristol, England (1949–55). Research career: Research Associate, Univ. of Bristol (1952–53); held Senior Award of the Royal Commission for the Exhibition of 1851 (1953–55); since 1955, at the Tata Institute of Fundamental Research, Bombay 1 as—Reader (1955–58); Associate Prof. (1958–60); invited delegate at "International Union of Pure and Applied Physics" Conferences on Cosmic Rays and High Energy Physics: Bagneres (1953), Rochester (1955, 1957, 1960), Moscow (1956, 1959), Geneva (1958), Kiev (1959). *Publications:* About thirty on Cosmic Ray and Elementary Particle Physics. *Recreations:* Photography, Travel. *Clubs:* United Services Club, Bombay; National Liberal Club, London. *Address:* 17, Jenkins House, Henry Road, Bombay 1.

MENON, V. K. Krishna, B.A. (Madras), B.Sc. (Econ.), London, M.A., London, M.Sc. (Econ.), London, Bar-at-Law, Middle Temple, King's Inns, Dublin (Honoris Causa), LL.D., Glasgow (Honoris Causa), Padma Vibhushan (1954), Minister for Defence, Government of India, since Apr. 1957. *b.* 3rd May 1897; *Educ.:* Tellicherry and Kozhikode (Kerala), Madras and London, National Univ., Adyar. Lecturer, 1919-22; Boy Scout Commissioner, Madras and Cochin, 1918-24; Secretary, India League, 1929-47; Councillor, St. Pancras, London, 1934-47; Chairman, Arts Council, St. Pancras; Labour Parliamentary Candidate, Dundee, Scotland, 1939-42; Special Representative of the Government of India, 1946-47; Alternate delegate at the U.N. General Assembly meeting at Lake Success, 1946-47; represented India at various International Congresses on behalf of Indian National Congress for Jawaharlal Nehru from 1936; visited various European capitals as Pandit Nehru's Personal Representative and made preliminary arrangements for establishing diplomatic relations; High Commissioner for India in London, 1947-52; India's Ambassador to Ireland, 1949-52; Chairman of the Indian Delegation to the Gen. Assembly of the U.N., 1952-53, '54, '55, '56, '57, '58, '59 and '60; Minister without Portfolio, Government of India, 1956-57. *Publications:* First Editor, Pelican Books; Editor, 20th Century Library (Bodley Head); Pamphlets and Articles such as *India, Britain and Freedom; Why must India Fight; Britain's Prisoner: Nehru; Unity with India against Fascism; Independence;* in collaboration with the Ellen Wilkinson, *The Condition of India. Address:* 19, Teen Murti Marg, New Delhi.

MENON, V. K. N., B.A. (Hons.) (Madras), M.A. (Oxon.), Director, Indian Institute of Public Administration, New Delhi. *b.* March 1, 1897; *Educ.:* Maharaja's Coll., Ernakulam; Presidency Coll., Madras; St. John's Coll., Oxford; The London School of Economics; The Univ. of Paris. Reader (earlier Lecturers) in Political Science, Lucknow Univ. till 1948; Director of the Bureau of Research in Public Administration, Public Service Commission, U.P., 1948; Professor of Politics, Patna Univ., 1948-49, 1951-52 and 1954-56; Vice-Chancellor Travancore Univ., 1950; Vice-Chancellor, Patna Univ., 1953. *Publications:* Articles in learned periodicals. *Recreations:* Walking, Reading. *Address:* Indraprastha Estate, Ring Road, New Delhi; 15, Ashoka Road, New Delhi 1.

MENON, V. K. R., I.C.S. (Retd.), Representative of the I.L.O. in India, since Oct. 1953. *b.* Aug. 29, 1903; *Educ.:* Madras; Christ's Coll., Cambridge. Joined the I.C.S., 1926; Joint Secretary, Central Ministry of Labour, 1945; acted as Secretary; Secretary, Ministry of Communications, 1948–50; Permanent Secretary, Ministry of Labour, 1950–53; Govt. Representative to I.L.O. Governing Body, 1950-53; member, Indian Delegation to International Labour Conference, 1950, 1951 and 1952; was Chairman, I.L.O.'s Cttee. on Plantations (Bandung, 1950); Coal Mines Cttee. (Geneva, 1951) and of the Iron and Steel Cttee. (Geneva, 1952); member, Labour Panel of Planning Commission, 1955; Chairman, Study Group on Educated Unemployed, Planning Commission, 1955; Chairman, Study Group on Social Security of the Govt. of India; member, Ad Hoc Cttee. on Automobiles, Ministry of Commerce & Industry, 1959. *Hobby:* Automobile Engineering. *Publications:* Numerous articles on labour and social problems in various journals and periodicals. *Address:* 3, Mandi House, New Delhi.

MENON, Vapal Pangunni, Member, Central Organizing Cttee., Swatantra Party. *Educ.:* Ottapalam High School. Joined service, 1914; Asstt. Secy., Govt. of India, Reforms Office, 1933; Under Secy., 1934; Dy. Secy., 1936-40; Joint Secy., June-Oct. 1937 and June-Oct. 1938; Deputy Secretary to Governor-General (Reforms), 1940-42; Joint Secy. to Governor-General (Reforms), Feb.-June 1941; Reforms Commissioner, Sept. 1942 to Aug. 1947; Secy. to Governor-General (Public) and Secy. to the Cabinet, 1945-46; Secy., Ministry of States, July 1947-Oct. 1948 and Dec. 1949-May 1951; Adviser, Ministry of States, Oct. 1948-Nov. 1949; Offg. Governor of Orissa, May-July, 1951; member, Finance Commission, 1951. *Publications: The Story of the Integration of the Indian States*, 1956; *The Transfer of Power in India*, 1957. *Address:* "Shelter," Cooke Town, Bangalore 5.

MIABHOY, Mr. Justice Nomanbhai Mahmedbhai, B.A., LL.B., Judge, High Court, Gujarat, since May 1960. *b.* Sept. 16, 1905; *Educ.:* Gujarat Coll., Ahmedabad; B.A. from Elphinstone Coll., Bombay, 1927; LL.B. from Sir Lallubhai Shah Law Coll., Ahmedabad, 1929. Practising Advocate at Ahmedabad, 1929-41; joined Judicial Service as an Assistant Judge, Dec. 15, 1941; Permanent District Judge, Dec. 27, 1942—March 1957; Judge, Bombay High Court, 1957-60. *Address:* Ahmedabad.

MICHELMORE, Sir Walter Harold Strachan, M.B.E. (Jan. 1945), Managing Director, Bird & Co. (Private) Ltd. & F.W. Heilgers & Co. (Private) Ltd., since Jan. 1, 1949 and Deputy Chairman of both companies, since March 1955. *b.* April 4, 1908; *Educ.:* Sherborne and Balliol Coll., Oxford. Joined Bird & Co. and F. W. Heilgers & Co., 1929; served in the Indian Army, 1940–1946 and rose to the rank of Major; rejoined Bird & Co. as Head of Coal Deptt., 1946; Chairman, Indian Mining Assoc., 1951–53 and Assoc.'s representative on Advisory Cttee. on Stowing & the Minerals Advisory Board; Pres., Bengal Chamber of Commerce & Industry and Associated Chambers of Commerce of India, Feb. 1957-Feb. 1958; created Knight Bachelor, June 1958; member, Cttee. of the Bengal Chamber; Founder Dir., India Reinsurance Corporation; member, Board of Directors, State Bank of India; Pres., U.K. Citizens' Assoc., 1959; member, Board of Governors, Adm. Staff Coll. of India; Vice-Pres., Calcutta School of Music. *Clubs:* Cal. South Club (Pres.); Bengal Club; Calcutta Club Ltd.; Cal. Cricket Club; Cal. Racket Club (Pres.); Saturday Club Ltd.; Royal Cal. Turf Club. *Address:* C/o Bird & Co. (Private) Ltd., Chartered Bank Buildings, Calcutta 1.

MIR, M. Asadullah, M.A., LL.B., Minister, Agriculture & Food, Jammu & Kashmir since Aug. 26, 1960. *b.* 1924; *Educ.:* Prince of Wales Coll., Jammu, 1940-44; Muslim Univ., Aligarh, 1944-46. Member, Jammu & Kashmir Constituent Assembly, 1951-57; Constitution Drafting Cttee., 1951-56; Panel of Chairmen, 1951-53; Deputy Minister for Development, 1953-57; returned to J. & K. Leg. Assembly, 1957; actively associated with rural uplift and social welfare schemes; as a Deputy Minister initiated many major industrial schemes in the State, particularly in the field of Sericulture, Drug Research and Handloom and Cottage Industries; toured extensively in Western Europe and Scandinavian countries to study parliamentary democracy, 1959; Speaker, Jammu & Kashmir Leg. Assembly, 1957-60. *Address:* Banihal, Kashmir.

MIR QASIM, M.A., LL.B., Minister for Law, Irrigation and Power, Jammu and Kashmir, since Jan. 1, 1961. *b.* Feb. 16, 1922; *Educ.:* Aligarh. Entered political career, 1943; was arrested during Quit Kashmir movement, 1946; member: Kashmir Constituent Assembly, 1951-56; Kashmir Leg. Assembly, since 1957; became Revenue and Rehabilitation Minister in Bakshi's Cabinet, 1953; left the organisation in 1957 and formed the opposition group of the Democratic National Conference and again joined the organisation in 1960; Chief Parliamentary Secy. in 1952; Secy., Basic Principles Cttee. and Drafting Cttee. of Kashmir Constituent Assembly; is an Advocate of Srinagar High Court. *Address:* Daru, Anantnag, Kashmir; Gagrihal, Srinagar, Kashmir.

MIRAJKAR, Shantaram Savlaram, Trade Unionist; President, All-India Trade Union Congress. *b.* Feb. 8, 1902; *Educ.:* Maratha High School, Girgaum, Bombay. Trade Unionist since 1920; Secy.: Workers' and Peasants' Party (1927); Girni Kamgar Union (Red Flag) (1928); Founder Member, Communist Party of India (1926); Vice-Pres., All-India Trade Union Congress (1948-57); its Pres. (1958); Member, Bombay Municipal Corporation (1939-48; 1957); Chairman, Standing Cttee., Bombay Municipal Corporation (1957-58); Mayor, Greater Bombay, 1958–59. *Publications:* Various Tracts and Marathi Publications. *Address:* New Municipal House, Sion (East), Bombay 22.

MIRDHA, Ram Niwas, M.A. (Pol. Science), LL.B., Speaker, Rajasthan Legislative Assembly, since 1957. *b.* Aug. 24, 1924; *Educ.:* Jaswant Coll., Jodhpur; Allahabad Univ., Allahabad; Lucknow Univ., Lucknow; Univ. of Geneva, Switzerland; Graduate, Institute of International Studies. Entered Govt. service, Jodhpur State, 1944; elected M.L.A., Rajasthan; became Minister for Agriculture, Irrigation and Transport, Rajasthan, 1954; visited China as member of a delegation, 1956; Pres.: Indian Council of World Affairs, Jaipur; U.N. Assoc., Rajasthan; Caravan of India, Jaipur; Young Farmers' Assoc., Rajasthan; Vice-Patron, Indian Council of Child Welfare, Rajasthan Branch; Vice-Pres., Youth Hostel Assoc., Rajasthan; member, Exec. Cttee.,

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State Co-operative Union; visited U.S.A. at the invitation of U.S. Deptt. of State, 1959. *Recreations :* Reading, Tennis. *Clubs :* National Sports Club of India; Ashok Club, Jaipur. *Address :* 13, Civil Lines, Jaipur.

MIRGHANI, H.E. Mr. Abdel Karim, B.A. (Hons.) (Econ.), (Bristol), Ambassador for Sudan to India, since Nov. 2, 1960. *b.* Jan. 1924; *Educ. :* Gordon Memorial Coll. (Secondary Education completed 1942); (Faculty of Arts, Khartoum Univ.; Graduated, 1946). Executive Officer, Ministry of Interior, 1946-48; Secondary School Master, 1948-53; Charge d'Affaires, Sudan Embassy, London, 1956; Director of the Political Deptt. in the H.Q., 1956-58; Depty Permanent Representative in the U.N., Aug. 1958-Nov. 1960. *Address : Office :* Embassy of the Republic of the Sudan, 147, Sundar Nagar, New Delhi 11; *Residence :* No. 1, Barakhamba Road, New Delhi.

MISHRA, Pt. Dwarka Prasad, B.A., LL.B., D.Litt. (Honoris Causa), Vice-Chancellor, University of Sagar, since 1956. *b.* Aug. 5, 1901; *Educ. :* St. Paul's High School, Raipur, M.P. (Matriculation); Christ Church Coll., Kanpur (Intermediate); Robertson Coll., Jabalpur (B.A.); Law Coll., Allahabad (LL.B.). Elected to the Indian Leg. Assembly, 1926; elected Pres., Municipal Cttee., Jabalpur, 1932; appointed Minister, C.P. & Berar, 1937; appointed Home Minister, M.P. Govt., 1946. *Publications : Krishnayan* (Life of Lord Krishna in Hindi Verse). *Address :* Gour-Bhawan, Civil Lines, Sagar, M.P.

MISHRA, Shyam Nandan, M.A., B.L., Deputy Minister for Planning, Govt. of India, since Sept. 10, 1954. *b.* Oct. 20, 1920; *Educ. :* R. H. E. School, Sursand; G. B. B. Coll., Muzaffarpore; Patna Coll. and Patna Law Coll., Patna. Suffered imprisonment in connection with 'Quit India Movement', 1942-43. Lecturer, T.N.J. Coll., Bhagalpur; Gen. Secy., 'Culture and Research' Section, Bihar P.C.C., 1949; Member, Provisional Parliament, 1950-52; Parliamentary Secy. to the Prime Minister, 1951-52; member, Executive Committee, Indian Parliamentary Group, 1951-54; Secretary, Election Sub-Cttee. of the A.I.C.C.; member, Lok Sabha since 1952; represented India at the 10th session of the ECAFE, 1954 and at the 17th session of the Economic and Social Council of the U.N. in New York, 1954; member, A.I.C.C. since 1955; Convener, Congress Socialist Forum. *Recreations :* Poetry, Music and Chess. *Address :* 25, Ashoka Road, New Delhi.

MISRA, Sir Lakshmipati, Kt. (1944), B.Sc., General Manager, Hindustan Motors Ltd., Calcutta, since 1946; Commandant, Special Constabulary, Calcutta since 1950; Member, Road and Inland Water Transport Cttee., Govt. of India, since Nov. 1958. *b.* 4th July 1888; *Educ. :* Agra Coll. and Thomason College of Engineering, Roorkee. Engineer-in-Chief, Baroda State Rlys., 1924-27; E.I. Rly. 1928; Spl. duty, Rly. Board, 1929; Controller of Stores, N.W. Rly., 1930; Dy. G.M., E.I. Rly., 1932-35; Divl. Supdt., Howrah Div., 1935-38; member, Federal Public Services Commission, 1938-39; G.M., Eastern Bengal & Bengal and Assam Rly., Sept. 1939-45; Member (Engineering), Rly. Board, 1943-44; Chief Commsr. of Rlys., May-Oct. 1945; Commsr. for the Port of Calcutta, 1939-43; Pres., Institution of Engineers (India), 1942-53; Chairman: Machine Tool Panel, Govt. of India, 1948-49; member: reviewing Cttee., on the report of the Railway Accidents Enquiry Cttee., 1954; *Clubs :* Imperial Gymkhana Club, Delhi; Calcutta Club; South Club, Calcutta; Chelmsford Club, New Delhi. *Address :* C/o Birla Brothers Ltd., 8, India Exchange Place, Calcutta 1.

MISRA, Pandit Raghunath, Member, Parliamentary Board, Ganatantra Parishad, Orissa. *b.* June 29, 1916; *Educ. :* Ravenshaw Coll., Cuttack; expert in Sanskrit Literature, Vedic Lore and Vedantic Culture. Worked as Sanskrit and English Teacher (1942-45); led student movements during his student career; a prominent Social Reformer; launched Satyagraha against animal sacrifices in temples, 1950. *Publications :* Books on Oriya grammar and literature and also Oriya and Sanskrit text books for primary to secondary standard. *Recreations :* Reading philosophical books, yogic culture and travel. *Address :* P.O. Banpur, Dist. Puri (Orissa); Kesharpur, Cuttack 1.

MISRA, Ram Anugrah Prasad, Managing Director, Indian Furnace Co. Private Ltd., Bombay. *b.* Jan. 19, 1914 at Dehra Dun, U.P.; *Educ. :* The Theosophical National School at Benares, 1925-29; Ewing Christian Coll., Allahabad, 1930-32; had great keenness and enthusiasm for Science and Engineering and learnt flying at the Delhi Flying Club at the age of 17; after passing his inter-science examination, proceeded to England to study Aeronautical Engineering, 1933. Served as an engineering apprentice with the De Havilland Aircraft Co. Ltd., 1933-36; afterwards joined the company's laboratories as an Assistant; rose to the position of Production Metallurgist and was placed in technical control of all works processes including heat-treatment; left the De Havilland Aircraft Co. to join Wild-Barfield Electric Furnaces Ltd., of Watford, England, one of the leading manufacturers of industrial and other electric furnaces, 1946; was selected by the Directors of Wild-Barfield to take charge of their Indian Co., *i.e.*, Indian Wild-Barfield Co. Pvt. Ltd. at Bombay, which was formed in Sept. 1947; has designed the layouts of the heat-treatment shops of Hindustan Motors Ltd., Calcutta, and the Tata Locomotive Engineering Co. Ltd., Jamshedpur, his company having also supplied heat-treatment furnaces to the Premier Automobiles Ltd., Kurla, Indian Telephone Industries Ltd., Bangalore, Chittaranjan Locomotive Works, Texmaco (Gwalior) Ltd. and many other factories in India; is an Associate Fellow of the Royal Aeronautical Society of England; member, Institution of Production Engineers, London, being a Lord Austin Prize winner, 1936 which was awarded to him for obtaining first place in the Graduateship examination of the Institution of Production Engineers; is also an Associate of the Institute of Metallurgists in England; Ex-Pres., Bombay Metallurgical Society and the Bombay section of the Institute of Production Engineers; is a staunch believer in international co-operation and in the need for an understanding outlook in all problems. *Hobbies :* Photography both still and cine; Cricket; Tennis; Flying. *Clubs :* United Services Club; Bombay Flying Club. *Address :* Indian Furnace Co. Pvt. Ltd., Lotus Cinema Bldg., 12-A, Dr. Besant Road, Worli, Bombay 18.

MISRA, Shambhu Maharaj, Padma Shree, Dancer; Rashtrapati Golden Award through Sangeet Natak Akadami, March 27, 1955. Senior Professor of Dancing; Teacher of Dancing to Govt. scholarship holders in Bhartiya Kala Kendra, Delhi. *b.* Nov. 15, 1907; *Educ. :* Learned music under Ustad Rahim Udin Khan in Faizabad, 1920-21; had training in dancing under his brother and Guru Jagannath Parsad *alias* Achan Maharaj, Rampur State, 1921-25. Started dancing career in 1925; spread the Kathak Natvari Nirtya from Lucknow; danced at Lucknow Music Conference, 1925; danced in the following cities where music conferences were held: Ajmer, Jaipur, Calcutta, Bombay, Baroda and Allahabad; was honoured as 'Nirta Samrat' in Dehra Dun, 1936; awarded Padma Shree, Oct. 27, 1958. *Recreations :* Dancing and teaching dancing. *Address :* 6A/6, W.E.A., Karol Bagh, New Delhi 5.

MITRA, Asok, B.A. (Cal.), I.C.S. Registrar General & Census Commissioner, India, since July 1958. *b.* March 1, 1917; *Educ. :* Presidency Coll., Calcutta; Merton Coll., Oxford. Served in districts of Bengal in various capacities, 1940-50; Supdt. of Census Operations, West Bengal, 1950-52; Joint Development Commissioner and Development Commissioner, West Bengal, 1952-54; Secy., Commerce & Industry, Cottage and Small Industry and Co-operation Deptts., West Bengal, 1955-June '58; Editor, *The Folk Dances of Bengal* and *District Records of West Bengal Districts* (a series). *Publications : Census Report of West Bengal* (7 Volumes); *Revised District Gazetteers of West Bengal Districts* (14 volumes); *The Tribes and Castes of West Bengal*; a short history of European Painting in Bengali called *Paschim Europer Chitrakala*; a concise history of Indian Painting in Bengali called *Bharater Chitrakala*. *Address :* 8, Grove Lane, Calcutta 26 2A, Mansingh Road, New Delhi 2.

MITRA, Gajendra Kumar, Bengali writer. *b.* Nov. 11, 1908; *Educ. :* Banaras; Central Kashi Institution; Anglo-Bengali School and at Calcutta; Jagatbandhu Institution; St. Xavier's Coll. Began editing mss. magazines at the age of eight; started publication business independently with a partner; made a hit picture "Kangan"; subsequently *Rajanigandha* and several other short stories and novels filmed. *Publications :* Began contributing regularly to some weekly and fortnightly magazines from 1927; published the 1st book, a children's book, 1929; 1st short story collection, 1939; 1st Novel, 1940; wrote some historical novels; wrote many children's books; *Bharate Bari; Ratrir Tapasya; Janmechi Ei Deshe; Nari O Niyoti; Sohagpura; Purush O Ramani; Malachandan; Kalkatar Kachei; Banhi Banya; Akakshlipi; Upakantha; Pritibhir Itihas*, etc. *Recreations :* Travelling. *Address :* Beni Bannerjee Avenue, Dakuria, Calcutta 31.

MITRA, Mr. Justice Sankar Prasad, M.A. (Cantab.), Barrister-at-Law, Judge, High Court, Calcutta, since Dec. 1957. *b.* Dec. 26, 1917; *Educ. :* Calcutta, Cambridge and London. As a student in England from 1938 to 1943, took active part in Indian Independence Movement; was Pres., Cambridge Majlis; General Secy., Indian Students' Federation in U.K. and Secy., Swaraj House, London. Joined Calcutta High Court, 1944; was M.L.A., West Bengal, 1952-57; is a good debator; visited the People's Republic of China as member, Cultural Delegation, 1954; appointed Minister-in-charge of the Land & Land Revenue, Judicial and Leg. Deptt., West Bengal, 1956; proceeded to U.S.A. to study the legal system and observe cultural institutions at the invitation of the American Govt., Sept. 1958; is connected with numerous voluntary and charitable organisations in West Bengal. *Recreations :* Reading; attending and organising cultural functions. *Address :* 5, Mahatma Gandhi Road, Calcutta 9.

MITRA, Prof. Sisir Kumar, D.Sc., F.R.S., Emeritus Professor, University of Calcutta; Administrator, Secondary Board of Education, West Bengal. *b.* Oct. 1891. Pioneer of radio research in India; King George V Silver Jubilee Medal, 1935; member, Bengal Industrial Survey Cttee., 1938; member, Industrial Research Planning Cttee., Govt. of India, 1944-45; Chairman, Radio Research Cttee., Board of Scientific and Industrial Research, 1942-48; member, Indian Scientific Mission to U.K. and U.S.A., 1944-45; Pres., Rotary Club of Calcutta, 1942; Chairman, Calcutta Section, British Institution of Radio Engineers; President, Asiatic Society, 1951-53; General Pres., Indian Science Congress, 1954-55; Pres.,

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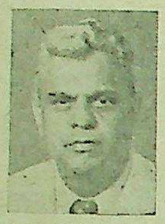
National Institute of Sciences of India, 1959–60. *Publications : Active Nitrogen* (1945); *The Upper Atmosphere* (2nd edition, 1955, translated into Russian) and numerous scientific papers. *Address :* 9, Hindustan Road, Ballygunge, Calcutta.

MITTER, Mr. Justice Gopendra Krishna, B.Sc. (Hons.) (Patna), Bar-at-Law, Lincoln's Inn, Judge, Calcutta High Court, since 1952. *b.* Oct. 7, 1906; *Educ. :* Zilla School, Muzafferpore; Patna Coll., Patna; The Univ. Coll., London. Started practising in the courts at Muzafferpore, 1931; practised at the Bar of the Calcutta High Court, 1934-52. *Recreations :* Walking and Gardening. *Address :* 36/4, South End Park, Calcutta 29.

MODAK, Narayan Vinayak, C.I.E. (Jan. 1945), B.E. (Civil) (1911), member of the Institution of Civil Engineers (London) (1936), Fellow of the Royal Society of Health, Member, Institute of Municipal Engineers, Member, Municipal Public Health Engineers (U.S.A.), M.I.E. (India), F.N.I. & c. *b.* December 1890. Worked with the Corporation of Hastings (England) for three years with State Technical Scholarship; worked with two Railways (Central & Western) in the capacity of Sanitary Engineer and Consulting Engineer; worked as Hydraulic Engineer, City Engineer, Special Engineer (in-charge of Vaitarna-cum-Tansa Scheme and Post-War Reconstruction Schemes) and Ag. Municipal Commissioner in the service of Bombay Municipal Corporation and thereafter as consulting engineer to the Corpn. till 1961; acted as Adviser to the Ministry of Health, Govt. of India, for Drainage and Water Supply problems of Delhi; ex-Pres., Institution of Engineers (India); ex-Vice-Pres., Indian Roads Congress; connected with Engineering colleges and institutions, Univ. of Bombay and Board of Technical Education (Bombay State); nominated by the Central & State Govts. on various technical bodies and Cttees.; designed and executed large municipal engineering schemes for the past 30 years; Director, Central Public Health Engg. Research Institute of Council of Scientific and Industrial Research, Govt. of India, New Delhi, 1959-61. *Address :* "Udyam," Shivaji Park, Bombay 28.



MODI, Rai Bahadur Seth Gujarmal, Chairman, Modi Industries, Modinagar (Meerut), U.P. *b.* August 1902, in the Modi family of Patiala State; *Educ. :* Privately. Entered business at a very early age; first apprenticed as Cashier and Accountant in various concerns of his own; was later trained as Engineer and Miller in the Flour Mills of his father, which gave him an insight into the principles of business and finance and mechanical working of factories; founder 'Modinagar', an industrial town in Dt. Meerut, U.P.; has to his credit many inventions in the field of Engineering and Chemical control; established various industries, *viz.* Modi Sugar Mills Ltd., Modi Vanaspati Mfg. Co., Modi Soap Works, Modi Glycerine Factory, Modi Tin Factory, Modi Oil Mills, Modi Paints & Varnish Works, Modi Hurricane Lantern Factory, Modi Distillery and other Modi Group of Factories at Modinagar and other places in the East Punjab and U.P.; has founded the Modi Tent Mfg. Co., Modi Hosiery Works, Modi Yarn Mills, Modi Rayon & Silk Mills, Modi Spinning & Weaving Mills Co., Ltd., Modinagar with latest machineries and Associated Tubewells (India) Private Ltd.; has founded one of the biggest Flour Mills in New Delhi; Chairman, Modi Charitable Fund Society and R. B. Multanimal Charitable Trust; proposes to put up Acetate Rayon Yarn Plant with Rs. 10 Crore Capital with American Collaboration at Modinagar, and Electrode Plant; also a Tyretube Plant and Electric Furnace Plant are being put up at Modinagar; Founder of Western U.P. Chamber of Commerce; Pres., Western U.P. Productivity Council; Member: Executive Committee of the Federation of Indian Chambers of Commerce and Industry; Indian Sugar Mills Assoc., Indian Soap & Toiletries Makers' Assoc., State Planning Board, U.P., State Technical Education & Training Board, U.P.; Board of Governors, Indian Institute of Technology, Kanpur, Dev. Council, Art Silk Industry, Govt. of India; Customs and Central Excise Advisory Council of India; U.P. Regional Excise Advisory Cttee., Local Board (North Area) for Reserve Bank of India; Life member, Mechanical Engineers' Assoc. of India; is a philanthropist; his donations run into several lakhs; has established various public welfare institutions; has generously contributed to various charitable and public institutions; contributed Rs. 1 lakh to the Benaras Hindu University for construction of a Technical Research Laboratory; has built an Industrial Colony known as 'Govindpuri,' with the help of the U.P. Govt., to rehabilitate the displaced persons near Modinagar; runs two Inter-Colleges and one degree college at Modinagar; also constructs one temple at Modinagar. *Hobbies :* Gardening and buildings. *Address :* P.O. Modinagar (Meerut), U.P.

MODI, Mr. Justice Inder Nath, B.A., LL.B., Judge, Rajasthan High Court, since Jan. 29, 1953. *b.* March 1, 1905; *Educ. :* Had a brilliant educational career; graduated in Arts and Law, Allahabad Univ.; was placed on the roll of merit in the final LL.B. exam., 1935. General Secy., Jodhpur State, 1930-33; joined the Bar, 1935; enrolled as Senior Advocate, Supreme Court of India, 1951; elected Pres., Jodhpur Bar Assoc., 1938, '39, '42, '43, '48, '49 and '51; elected member, Jodhpur Municipality, 1937, '39 and '44; first elected Pres., Jodhpur Municipality, 1940-41; member: Marwar Representative Advisory Assembly, 1942-44; Director, Local Self-Govt., Jodhpur State, 1945-46; elected member, Marwar Legislative Assembly, 1947-48; served on numerous Cttees. and institutions connected with education, public health, Harijans, labour, municipalities, panchayats and legal and political subjects, 1937-52; Hony. Supdt., Sardar High School, Jodhpur, 1946-50; Life member, and Pres., Red Cross and other allied Societies, Jodhpur, 1950-52 and 1959-61; member, Rajasthan Leg. Assembly, 1952; had a lucrative practice and argued many famous cases including the Jodhpur Railwaymen's Grievances case, 1943. *Address :* Jodhpur, Rajasthan.

MODI, Raizada K. N., Managing Director, Modi Spinning and Weaving Mills Co., Ltd., Proprietors of Modi Cloth Mills, Modi Yarn Mills, Modi Rayon & Silk Mills and Modi Tent Manufacturing Co., Modinagar. *b.* May 22, 1921, in the ancient Modi family of Patiala; *Educ. :* Patiala. Started business career as General Manager, Modi Food Products Ltd.; became Director of Modi Flour Mills, Patiala Flour Mills, Modi Sugar Mills Ltd., R. B. Gujarmal Modi and Bros. Private Ltd., Sutlej Flour Mills, Modi Oil Mills and Associated Traders & Engineers Ltd.; New enterprises—Acetate Yarn Plant; Bicycle Tyre and Tube Project; Electrodes & Electric Arc Furnace Enterprises; Pres.: All-India New Textile Mills Assoc.; Caravan of India; Western U.P. Chamber of Commerce; Member: District Labour Welfare Advisory Cttee., Meerut; Employees' State Insurance Corporation; widely travelled; world tour for business purposes namely, Continent, U.S.A., U.K., Canada, Japan, South East and Far East Asia; well-read, taking interest in Cultural/Social activities. *Recreations :* Driving and sports, especially cricket. *Clubs :* Wheeler Club, Meerut, Chelmsford Club Ltd., New Delhi; Delhi Flying Club Ltd. (Pres.); Alexander Athletic Club Ltd., Meerut; The Delhi and District Cricket Assoc. Ltd., New Delhi; National Sports Club of India, New Delhi; International Cultural Forum, Delhi; Meerut District Rifle Assoc. *Address :* P.O. Modinagar, District Meerut, U.P.

MODY, Sir Homi, M.A., LL.B., K.B.E. (1935), Grand Commander, Order of George I of Greece, Treasurer, Swatantra Party, Ex-Governor of U.P., Ex-Dir., Tata Sons Ltd. *b.* Sept. 23, 1881; *Educ. :* St. Xavier's Coll., Bombay. Pres., Bombay Municipal Corporation, 1923-24; Chairman, Bombay Millowners' Association, 1927 and 1929-34; Pres.: Indian Merchants' Chamber, Bombay, 1928; Employers' Federation of India; member, Indian Leg. Assembly, 1929-43 and Constituent Assembly, 1948-49; member, First Round Table Con., 1929 and Reserve Bank Cttee. of the Conference, 1934; Member for Supply, Viceroy's Executive Council, 1941–43; Governor of Bombay, Sept. 1947; Chairman, Central Bank of India; Governor of U.P., May 1949–June 1952. Hon. LL.D., Banaras, Aligarh and Poona Univs.; D. Litt., Agra Univ. *Clubs :* Royal Automobile, Overseas League (London), Ripon, Willingdon, R.W.I.T.C., Cricket Club of India, Bombay. *Publications : The Political Future of India ; Biography of Sir Pherozeshah Mehta.* *Address :* "Spirospero," Carmichael Road, Cumballa Hill, Bombay.

MODY, Mr. Justice Nalinikant Ambalal, B.A., LL.B., Judge, High Court, Bombay. *b.* March 2, 1910; *Educ. :* Elphinstone High School; St. Xavier's College (1925-27); Elphinstone Coll. (1927-29). Joined the Bar, 1935. *Recreations :* Bridge. *Club :* Willingdon Sports Club. *Address :* Neermulah, Mt. Pleasant Road, Malabar Hill, Bombay 6.

MOGENSEN, Erik Brunnich, M.Sc., Civil Engineer, Director, F. L. Smidth & Co. (Bombay) Private Ltd. *b.* Sept. 8, 1906 in Denmark; *Educ. :* Copenhagen Univ. Hon. Consulting Engineer (Cement) to the Govt. of India, 1945-56; Consul for Denmark, 1950; Consul General, 1957. *Address :* Shangrila, Carmichael Road, Bombay.

MOHAMMED, Bakshi Ghulam (See under Bakshi Ghulam Mohammed).

MOHAN, Yadava, C.E. (Hons.), Secretary-General of the International Commission for Irrigation and Drainage, since May 1957; Member, Planning, Central Water & Power Commission, New Delhi, since July 1958. *b.* July 20, 1908; *Educ. :* Meerut Coll., Meerut; C.E. (Hons.) from Thomason Coll. of Civil Engineering, Roorkee, 1928. Civil Engineer in various capacities (Asstt. Executive, Executive and Superintending Engineer) in the Irrigation Dept. of Uttar Pradesh; on deputation in U.S.A. on U.S. Bureau of Reclamation, Army Corps of Engineers, TVA, etc. Chief of the Natural Resources Development Division, Planning Commission, New Delhi, 1953-58; Secretary of the Advisory Committee for Irrigation and Power Projects for the Second Plan, 1953-58; member of the Cttee. since July 1958. *Publications :* A number of articles of engineering interest and humanities in engineering magazines and daily newspapers. *Recreations :* Photography. *Address :* 45, Lodi Estate, New Delhi.

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MOHANTY, Gopi Nath, O.A.S., Oriya Novelist; Member, Indian P.E.N., Orissa Sahitya Akademi, Oriya Advisory Board of the Bharat Sahitya Akademi. *b.* April 20, 1914; *Educ.:* Maharaja H.E. School, Sonepur; Patna High School, Patna; Ravenshaw Coll., Cuttack. Made a thorough study of the Adivasi tribes during seven years in Koraput Dist.; collected their languages and songs; awarded Rs. 500 by Orissa Govt. for passing Kondh test; awarded Rs. 5,000 by the Govt. of India in 1955 for his novel *Amrutara Santana*, as the best original production in Oriya since independence. *Publications:* Novels: *Harijana; Amrutara Santana; Danapani; Siba Bhai, Paraja*, etc.; Stories: *Ghasara Fula; Chhai Alua*, etc.; Dramas: *Mahapurusha*, etc.; Essays: *Premara Niyati*, etc.; For little children: *Bhougolika Kahani;* Adivasi researches: *Kuvi Kondh Bhasa Tattwa; Kondh Paraja Stotra O Sangita;* Poems in Kondh: *Kuvi Lokuti Nehi Punbu. Address:* Planning and Co-ordination (Grama Panchayat) Deptt., Bhubaneswar.

MOHIUDDIN, Ahmed, B.A. (Cantab.), Deputy Minister for Civil Aviation, Govt. of India, since April 1958. *b.* Oct. 10, 1898; *Educ.:* Aligarh and Cambridge Universities. Retired Govt. servant, Hyderabad State; member, Indian Institute of Economics, Hyderabad; served in The Nation Building Deptt., Hyderabad State; Professor of Economics, Nizam's Coll., Hyderabad, 1927-30; Member-Secy.: Hyderabad Banking Inquiry Cttee., 1929; Hyderabad Co-operative Finance Inquiry Cttee.; Director, Commerce and Industry, Hyderabad, 1938-43; represented Hyderabad on The National Planning Cttee. appointed by Congress, 1939; served in Hyderabad State Bank; Secy., Labour Deptt., Hyderabad State, 1949-50; member, First Lok Sabha, 1952-57; again elected to the Lok Sabha, 1957. *Recreations:* Tennis and Light Games. *Club:* Secunderabad Club, Secunderabad. *Address:* New Delhi.

MONDOL, Shot Kumar, B.A., S.T.D., D.D., LL.D., Bishop, Methodist Church in Southern Asia, since Jan. 1941.

b. Oct. 11, 1896; *Educ.:* Scottish Church Coll. and St. Paul's Coll., Calcutta. Principal, Collins Institute, Calcutta; Pastor, Dist. Supdt., Railway Chaplain, Calcutta and Asansol; Acting Pres., National Christian Council of India, 1947-50; Pres., 1950-56; Pres.: National Missionary Society of India, 1943-58; India Sunday School Union, since 1948; World Council of Christian Education and Sunday School Assoc., since 1958; United Mission to Nepal since 1958; North West India Christian Council since 1958; Bible Society of India and Ceylon (N.-W. India Auxiliary) since 1959; Young Men's Christian Assocn., Delhi since 1960. *Address:* Bishop's House, 12, Boulevard Road, Delhi 6.

MONTGOMERY, Alexander Thomson, Chartered Accountant (Glasgow), Chairman and Managing Director, Balmer Lawrie & Co. Ltd., since Jan. 1, 1959. *b.* April 28, 1910; *Educ.:* Highgate School. Joined Balmer Lawrie & Co. Ltd., as Junior Accountant, 1934; appointed to the Board, Jan. 1, 1946; Bengal Chamber of Commerce & Industry Cttee., 1957-58 and 1958-59. *Recreations:* Golf, Gardening, Collecting Old Glass. *Clubs:* Bengal, Tollygunge, Oriental and Huntercombe. *Address:* 21, Netaji Subhas Road, Calcutta.

MOOKERJEE, Sir Biren, M.A. (Cantab.), M.I.E. (Ind.), Kt. (1942), Governing Director, Martin Burn Ltd., Calcutta. *b.* Feb. 14, 1899; *Educ.:* Hastings House and Sibpur Engineering Coll., Calcutta; Trinity Coll., Cambridge. Joined Martin & Co. as an Assistant, 1924; made partner, Burn & Co., 1931 and Martin & Co., 1934; was closely assocated with the negotiations which led to the formation of The Steel Corporation of Bengal Ltd., 1937 and the subsequent construction of the steel works at Napuria alongside the Hirapur Works of The Indian Iron & Steel Co. Ltd.; during World War II, appointed to the Munitions Board and the Defence Council; elected Sheriff of Calcutta, 1940; was Chairman: Calcutta Board former Imperial Bank of India, Governing Body, Sibpur Engineering Coll.; Fellow, Faculty of Engineering of the Calcutta Univ.; was member, Indian Mission which negotiated Rs. 15 crore loan from the World Bank to the Indian Iron & Steel Co. Ltd. *Address:* 7, Harrington Street, Calcutta 16.

MOOKERJEE, Kalipada, Minister for Home, Police and Defence, West Bengal. Joined the Non-co-operation movement, 1921; courted imprisonment in almost all the freedom movements; was member, A.I.C.C. for 15 years; was an office-bearer of the Bengal Congress for a long time; was General Secy., Bengal Prov. Congress; was one of its Vice-Presidents; was a close associate of Netaji Subbas Chandra Bose; conducted relief organisation during the North Bengal flood; was actively associated with the relief organisation during the Dacca and Noakhali communal riots; elected M.L.A., Bengal, June, 1947; appointed Minister in the first Congress Cabinet, 1947; appointed Chairman, West Bengal Minority Commission, under the Indo-Pakistan Agreement; led the Indian delegation to the second session of the Industrial Cttee. on cotton textiles at Geneva, Oct.-Nov. 1948. *Address:* Calcutta.

MOOKERJI, Dr. Radha Kumud, M.A., Ph.D., D.Litt., Padma Bhushan, Emeritus Professor of History, Lucknow Univ. *b.* Jan. 25, 1884; *Educ.:* Presidency Coll., Calcutta. First Prof. of History, Bengal National Coll., Calcutta; First Prof. of History, Mysore Univ., 1917-21; Prof. and Head of the Deptt. of History, Lucknow Univ., 1921-45; M.L.C., Bengal on Congress ticket, 1937-43; Member: Bengal Govt.'s Land Revenue (Flood) Commission 1939-40; Indian Delegation to the F.A.O. Preparatory Commission at Washington, 1946-47; awarded Hon. Degree of D.Litt. by Lucknow Univ. at its Silver Jubilee Convocation; Lectureship instituted in his name at Lucknow Univ. by his friends of the value of over Rs. one lakh; nominated by the President as member, Rajya Sabha, 1952-58. *Publications: A History of Indian Shipping; Nationalism in Hindu Culture; Men and Thought in Ancient India; Ancient Indian Education; Early Indian Art; India's Land System; Ancient India* and several others; *Address:* 39, Ekdalia Road, Calcutta 19; Goode Road, Darjeeling; Marine Drive, Puri.

MOOLGAOKAR, Sumant, B.Sc. (Hons.) (Lond.), Business Executive. *b.* March 5, 1906; *Educ.:* St. Xavier's High School and St. Xavier's Coll., Bombay; Imperial Coll., London. Started career with the A.C.C. Ltd.; served the cement industry in various technical and managerial capacities, 1930-48; became Managing Director, TELCO Ltd., Jamshedpur, 1949; Chairman, Tata-Johnson Pvt. Ltd.; Director: Tata Industries Pvt. Ltd.; Tata Locomotive & Engineering Co. Ltd.; Tata Hydro-Electric Agencies Ltd.; Tata Aircraft Pvt. Ltd.; A. C. C. Ltd.; ACC-Vickers-Babcock Ltd.; Industrial Credit & Investment Corporation of India Ltd.; Voltas Ltd.; Cement Agencies Pvt. Ltd.; Cement Marketing Co. of India Pvt. Ltd.; Investa Industrial Corporation Ltd.; Indian Standard Metal Co. Ltd.; Associated Building Co. Pvt. Ltd.; Indian Cement Co. (1937) Ltd. *Address:* Bombay House, Fort, Bombay.

MOON, Edward Penderel, M.A. (Oxford), O.B.E. (1941), Adviser, Planning Commission since Sept. 1952. *b.* November 13, 1905; *Educ.:* Winchester and New College, Oxford. Fellow of All Souls College, Oxford, 1927; entered I.C.S. (Punjab Commission), 1929; Under-Secretary, Punjab Government; Deputy Commissioner, Multan; Secretary to the Governor, Punjab; Deputy Commissioner, Amritsar; resigned from I.C.S. in January 1944; served in the Yugoslav Commission, of U.N.R.R.A., 1944-45; Secretary, Development Board (Government of India), 1946; Revenue & Public Works Minister, Bahawalpur State, 1947; Deputy Chief Commissioner, Himachal Pradesh, 1948-49; Chief Commr., Himachal Pradesh, 1950-51; Chief Commr., Manipur, 1951-1952. *Publications: Strangers in India; The Future of India; Warren Hastings and British India. Recreations:* Riding, Shooting and Singing. *Club:* Athenaeum. *Address:* C/o Planning Commission, New Delhi.

MORAES, Dom, B.A. (Oxon.), Writer. *b.* July 19, 1938; *Educ.:* St. Mary's High School, Bombay; B.A. from Jesus Coll., Oxford, 1959. Travelled in Australia, New Zealand, and throughout South-East Asia, also in France, Italy, Greece, Yugoslavia, Hungary, Germany and Austria; lived in London; published the first book of poems, 1957, which was awarded the Hawthornden Prize for the best work of the imagination in 1958; second book of poems and travel book on recent visit to India, 1960; has been translated into French, German and Swedish. *Publications: A Beginning, Another Summer* (poems); *Gone Away* (travel). *Recreations:* Walking Tours, Going to Theatre. *Clubs:* Author's Club (London); Alder Society (Oxford). *Address:* C/o Curtis Brown Ltd. (Literary Agents), 13, King St., London W.C. 1; Mafatlal Park, B. Desai Road, Bombay 26.

MORAES, Frank Robert, M.A. (Oxon.), B.A. (Bombay), Bar-at-Law, Editor-in-Chief, *The Indian Express*, Bombay, Delhi and Madurai since Dec. 9, 1957 and Vijayawada, since Jan. 1960 and Chittoor. Ex-Editor, *The Times of India*, Bombay. *b.* Nov. 12, 1907; *Educ.:* Bombay and Oxford Universities; member of Lincoln's Inn, London. Assistant Editor, *The Times of India*, 1938-46; Editor of *The Times of Ceylon*, 1946-48; War Correspondent, Burma-China, 1942-45; Acting Editor, *The Times of India*, April 11-Aug. 14, 1949; Deputy Editor, *The Times of India* till March 1950; Editor, *The National Standard*, March-Nov. 1950; was member, Indian Cultural Delegation to China, April-June 1952; Editor, *The Times of India*, Bombay, 1950-57. *Publications: Introduction to India* (with Robert Stimson); *Story of India: Report on Mao's China* (Macmillans, New York, 1953); *Jawaharlal Nehru* (Macmillans, New York, 1956); *Yonder Our World* (Macmillans, New York, 1957); *Sir Purshothamdas Thakurdas* (Asia Publishing House, 1957); *The Revolt in Tibet* (Macmillans, New York, 1960); *India Today* (Macmillans, New York, 1960). *Clubs:* Willingdon; Rotary; C.C.I. *Address:* D-3, Mafatlal Park, Bhulabhai Desai Road, Bombay 26.

MORARKA, Radheshyam Ramkumar, B.Com., M.P. (Lok Sabha). *b.* March 26, 1923; *Educ.:* Sydenham Coll. of Commerce and Economics, Bombay; was gold Medalist of the Bombay Univ. in Advanced Banking and Banking Law; was Fellow, Sydenham Coll. of Commerce, Bombay. Is keenly interested in economics, planning, company management, public undertakings, etc.; visited Europe several times; was elected member, First Lok Sabha; member, Estimates Cttee., 1955-56 and 1956-57; member of various Select Cttees. and other Parliamentary Cttees. since 1952. *Recreations:* Bridge, motor driving, horse riding and touring. *Clubs:* Cricket Club of India, Bombay; Hindu Gymkhana, Bombay; Mafatlal Swimming & Boating Club, Bombay; Golf Club, Chembur, Bombay; Delhi Gymkhana, New Delhi; National Sports Club, Delhi. *Address:* 25, Feroz Shah Road, New Delhi; 24B, Carmichael Road Bombay.

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MOSES, Angelo, M.A., F.R.A.C., B.P.E., Professor of Philosophy, Khalsa College, Bombay and Captain in the National Cadet Corps. *b.* 1914; *Educ.:* Andhra University where he was a student of Sir S. Radhakrishnan; was First in Univ. in Philosophy; won two Gold Medals, two Silver Medals and three First Prizes in Essay-writing Competitions; participated in the All-India Physical Education Conference at Amraoti, 1946; has won 97 trophies in Tennis, Hockey and Badminton tournaments; Secy.: Baroda Y.M.C.A.; to Major Shrimant Sardar C. S. Angre Saheb Bahadur of Gwalior; to Rai Saheb Chaudhry Pratap Singh of Multan; Professor, C. & S. Coll., Shikarpur, Sind; Special Juror, Bombay High Court, 1957 and 1961. *Publications:* four books on Logic and nearly 400 articles in leading English journals and Newspapers; has contributed papers to the Indian Philosophical Congress, since 1940. *Address:* Khalsa College, Bombay 19.

MOSQUERA EASTMAN, H.E. Mr. Ricardo, Lawyer, Ambassador of the Republic of Argentina to India, since Jan. 1961. *b.* Oct. 18, 1918, in Buenos Aires; *Educ.:* Manuel Belgrano School and Saint John La Salle School, Buenos Aires; Univ. of Buenos Aires. Journalist: "El Mundo", Buenos Aires, 1935-44; "Provincias Unidas" Buenos Aires, 1948; "Tribuna Popular", "Radio Carve", Montevideo, Uruguay, 1953-55; Director: "Democracia" Buenos, 1955-56; "Telam" News Agency, Buenos Aires, 1957-58; practised as lawyer at Buenos Aires and San Nicolas, since 1943; Adviser, Argentine Confederation for Textile Industries, 1950-53; member: Radical Party, 1943-57; Convention of the Radical Party 1948-52; Representative of the Radical Party in Latin America, 1953-55; Delegation of the Argentine Federation of Bar Associations at the International Meetings of San Paulo, Brazil 1954 and Buenos Aires, 1958; Prof. of History of the Theatre, Univ. of La Plata, 1956. Legal Adviser, Federation of Independent Theatres, 1957-58; Ambassador of Argentina to Indonesia, 1958-61. *Publications: Yrigoyen y el mundo nuevo*—essay—1951. *Prevaleceran las aguas*—poetry 1958, *Poema de Montevideo*—1958. *Address:* Ashoka Hotel, New Delhi.

MUDALIAR, Sir A. Lakshamanaswami, M.D., LL.D., D.C.L., D.Sc., Padma Bhushan (1954), M.L.C., Madras, Vice-Chancellor, University of Madras, since Aug. 1942. *b.* Oct. 14, 1887; *Educ.:* Christian and Medical Colleges, Madras. Joined Madras Medical Service; Prof. of Obstetrics and Gynæcology, Medical Coll., 1934-42; Supdt., Govt. Hospital for Women and Children, Egmore and Principal, Medical Coll., 1939-42; Member, Syndicate, Madras Univ., since 1925; acted as Vice-Chancellor, 1936 and 1940; Chairman: Inter-Univ. Board, 1948-49; its Standing Cttee., 1949-51; member, Indian Medical Council, since its inception; All-India Council of Technical Education; All-India Council of Scientific and Industrial Research; and of its Governing Body; Chief Commissioner, Madras Prov. Boy Scouts Assoc.; Chairman: Secondary Education Enquiry Commission, 1952-53; Exec. Board, W.H.O.; Exec. Board, UNESCO, 1955; term as Vice-Chancellor extended for the 7th time, 1960; President, 14th World Health Assembly, 1961; Chairman, Health Survey & Planning Commission. *Publications: Clinical Obstetrics: Ante-Natal and Neo-Natal Mortality of Infants; Case-book for Midwives. Clubs:* Cosmopolitan, Madras; Kodalikanal Boat Club. *Address:* 'Kensington,' Kilpauk, Madras.

MUDALIAR, Sir A. Ramaswami, Diwan Bahadur, Kt., K.C.S.I. (1942), Member (Rajya Sabha), Ex-Vice-Chancellor, Travancore University. *b.* October 14, 1887; *Educ.:* Christian, and Law Colleges, Madras. Advocate, Madras; member: Leg. Council, Madras, 1920-26; Pres., Municipal Council, Madras, 1928-30; member: Council of State, 1930; Indian Leg. Assembly, 1931-34; R.T.C. Federal Structure Cttee.; and Indian Franchise Cttee.; Indian Reserve Bank Committee; leader, Indian Delegation to British Commonwealth Relations Conference, Toronto; member: Special Textile Tariff Board; India Council; Hon. Editor, *Justice*, 1927-35; delivered the Rt. Hon'ble V. S. Srinivasa Sastri foundation lectures, Madras Univ., 1933; Member, Viceroy's Executive Council for Commerce Dept., 1939-42; Supply Member, 1943; Leader, Indian Delegation, San Francisco, 1945; was also Chairman of Economic Cttee. of the Conference; India's representative on the Preparatory Commission to the U.N.O., Nov. 1945; elected Pres. of the Economic and Social Council of the U.N.O., 1946; Leader, Indian Food Delegation to U.K. and U.S.A., 1946; re-elected President, Economic and Social Committee, U.N.O., 1947; Hon. D.C.L. of the Oxford Univ., 1946; Hon. D.C.L. (Durham), 1953; Senior Vice-Pres., Economic and Social Council, 1950, 1951; Chairman: U.N. Cttee. on Forced Labour; International Civil Service Board of U.N.O.; Dewan, Mysore State, Aug. 1946-Aug. 1949; Member, I.L.O. Conventions Cttee.; Chairman: India Steamship Co. Ltd.; Tube Investments of India Ltd. *Address:* Kensington, Kilpauk, Madras.

MUDHOLKAR, Mr. Justice Janardan Rangnath, B.A., LL.B. (Cantab.), Bar-at-Law, Judge, Supreme Court of India, since Oct. 1960. *b.* May 9, 1902; *Educ.:* Elphinstone High School, Bombay; Elphinstone College, Bombay; Sidney Sussex College, Cambridge; Lincoln's Inn, London. Practised at the Bar at Amraoti, 1925-29 and at Nagpur, 1930-41; District & Sessions Judge, Sept. 1941-June 1948; Judge, Nagpur High Court, June 1948-Oct. 1956; acted as Chief Justice, Bombay High Court, Aug.-Sept. 1960. *Recreation:* Golf. *Clubs:* Delhi Gymkhana, Delhi; C.P. Club, Nagpur. *Address:* Supreme Court, New Delhi.

MUDIE, Lawrence David, General Manager, Burmah-Shell Oil Storage and Distributing Co. of India Ltd.: Vice-President, Bombay Chamber of Commerce 1958-59; Chairman, Burmah-Shell Refineries Ltd. *b.* April 29, 1915; *Educ.:* Trinity Coll., Glenalmond. *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana. *Address:* Baroda Lodge, Nepean Road, Bombay.

MUJEEB, Muhammad, Vice-Chancellor, Jamia Millia. *b.* Oct. 30, 1902; *Educ.:* Oxford Univ., England. Joined the Jamia Millia, 1926; has fulfilled a pledge of 20 years' service. *Publications: History of Russian Literature, History of European Political Thought, Story of the World* (in Urdu), *World History—Our Heritage, Hamari Azadi* (Translation of Azad's India Wins Freedom), *Kimiyagar* (Urdu Short Stories), *History of the World, A Glimpse of New China, Ordeal* and other plays in Urdu. *Address:* Jamia Millia, Jamianagar, New Delhi.

MUKERJEE, The Most Rev. Arabindo Nath, B.A., B.T., D.D. (*Honoris Causa*), Trinity College, Tor. (1954), D.D. (*Honoris Causa*), Lambeth (1958), Bishop of Calcutta & Metropolitan of India, Pakistan, Burma and Ceylon, since 1950. *b.* May 23, 1892; *Educ.:* St. Paul's Coll., Calcutta; Bishop's Coll., Calcutta; B.A., 1914 and B.T., 1917. Deacon, 1923; Priest, Lahore, 1924; Supdt., Boy's School, Delhi, 1923–26; Prin., United Christian High Sch., Delhi, 1926-34 & 1935–36; Actg. Head, Cambridge Mission, Delhi, 1934–35; Head of C.U.M., Delhi, Dio. Lah. & Hon. Can. of Lah., 1940–44; Archdeacon of Delhi, 1944; Cons. Asstt. Bp. of Lah., Oct. 10, 1944; Trldc; to Delhi, 1947; Episc. Can. of St. Geo. College; Ch. Jer. fr., 1948. *Address:* 51, Chowringhee Road, Calcutta 16.

MUKERJEE, Hirendra Nath, M.A. (Calcutta et Oxon.), B.Litt. (Oxon.), Barrister-at-Law, M.P., Communist leader and Educationist. *b.* Nov. 23, 1907; *Educ.:* Calcutta and Oxford. Head of the Dept. of History, Surendranath Coll., Calcutta, since 1936; member: A.I.C.C., 1938; Jt. Secy., Congress Socialist Party, Bengal, 1938; Bengal Provincial Cttee., C.P.I., 1947-49; Vice-Pres., Bengal Provincial Trade Union Congress, 1948; detained without trial (1948-49); elected M.P. from Calcutta North-East, Jan. 1952, Calcutta Central, 1957; Deputy Leader, Communist Parliamentary group; member, National Council, C.P.I.; elected Member of Calcutta Univ. Senate, 1953 and 1957; Member, Central Advisory Board of Archaeology, 1952-55 and since 1957; Member, Panel on Education, Planning Commission. *Publications: An Introduction to Socialism* (1939); *China Calling* (1942); *Under Marx's Banner* (1944); *India Struggles for Freedom* (1946); *Gandhiji: A Study* (1958); and other volumes in English and in Bengali. *Address:* 14, Indian Mirror Street, Calcutta 13.

MUKERJEE, Sailajananda, Bengali Novelist, Dramatist, Film Director, Scenario-Writer; Producer of plays, All India Radio, Calcutta. *b.* March 5, 1901; *Educ.:* Raniganj—coal district. *Publications:* "Collection of Best Stories"; *Gram-ke-Gram; Bodhu Baran; Atasi; Homanal Anath-ashram; Thik-Thikana; Aj Aubhadin*, etc. *Recreations:* Photography. *Address:* 137, Indra Biswas Road, Calcutta.

MUKERJI, Dr. Bishnupada, D.Sc. (Michigan), M.B. Hons. (Cal.), F.P.S., F.I.C., F.N.I., F.A. Ph.S., F.A.A.A.S. (America), M.S.Ph.S. (Switzerland), Director, Central Drug Research Institute, Lucknow. *b.* June 1, 1903; *Educ.:* Calcutta; Michigan (U.S.A.); awarded Fellowship under the Rockefeller Foundation, Sigma XI Award, Michigan Chapter, 1933-36; visited extensively the laboratories in several foreign countries; Director, Central Drugs Laboratory and Pharmacognosy Laboratory, 1947-51; member: Expert Cttee. on Biological Standards; Cttee. on addiction producing drugs, W.H.O., Geneva; Expert Panel, Humid Tropics Research, UNESCO, Paris; Vice-Pres. & Secy., Nat. Ins. Sci. India; General Pres., Ind. Sci. Congr. Assn.; Awards: Coates Medal, 1952; Barclay Memorial Medal, Asiatic Society, Bengal and Nilmoney Brahmachari Gold Medal, 1956. *Publications:* four books, *Tropical Therapeutics, Pharmacognosy of Indian Root Drugs, Pharmacognosy of Indian Leaf Drugs, Indian Pharmaceutical Codex;* more than 300 papers in Scientific Journals of India and abroad. *Address:* Central Drug Research Institute, Chattar Manzil Palace, Lucknow.

MUKERJI, Sashadhar, M.Sc., a leading Film Producer; Chairman, Filmalaya Private Ltd. *b.* Sept. 29, 1909; *Educ.:* Allahabad. Joined Bombay Talkies, 1935; produced "Kangan", "Bandhan", "Jhoola", "Naya Sansar" and "Kismet"; founded Filmistan, 1943; and produced "Shikari", "Sindoor", "Shahnai", 'Sargam", "Actress", "Anand Math", "Samadhi", "Sajan", "Do Bhai", "Shaheed", "Anarkali", 'Nagin", "Nastik", "Shabnam", "Jagriti", "Munimji", "Paying Guest", and "Tum Sa Nahin Dekha"; severed his connection with Filmistan, May 1958; inaugurated Filmalaya Private Ltd.; Produced "Dil Deke Dekho", "Love in Simla" and "Hum Hindustani" in colour. *Recreations:* Travelling, reading, motoring. *Clubs:* Cricket Club of India, Radio Club, International Club, Bandra Gymkhana. *Address:* "Grotto Villa", 2nd Husnabad Lane, Santa Cruz West, Bombay 54.

MUKHERJI, Balai Chand, M.B., B.S. Bengali Writer and Pathologist. *b.* 1899; *Educ.:* Patna and Calcutta; passed matriculation, 1918, I.Sc. 1920; M.B.B.S., 1927. Took up literary career from 1918 and wrote

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under the pen-name 'Bonophul'; started as a pathologist in Bhagalpur, 1920. *Publications:* 60 books: Poems, dramas, short stories, novels, satires and essays. *Recreations:* Gardening, Bird Watching, Star-Gazing, Cooking. *Clubs:* Bangiya Sahitya Parishad, Bhagalpur. *Address:* Gole Kuthi, Adampur, Bhagalpur (Bihar).

MUKHERJI, Binode Behari, Diploma in Fine Art—(Vishwa Bharati); Professor, Vishwa Bharati, Santiniketan. *b.* 1904; *Educ.:* Vishwa Bharati; studied art under Mr. Nandalal Bose; the chief educative influences in his career have been Chinese art and calligraphy besides the classic art of India; visited Japan, 1937-38; worked in Kala Bhavan, Santiniketan as Adhyapaka for the best part of his life; did two major murals in Santiniketan popularly known as ceiling mural and Hindi Bhavan mural; served occasionally as Curator of Kathmandu Museum (1948) and as Professor of Art in Patna Art College; underwent an eye operation in March 1957; since then virtually without vision; is now working as Special Instructor in Applied Aesthetics in Santiniketan. *Publications:* Bibliography of Abanindranath Tagore's works: several articles. *Recreations:* Chess, Chinese tea. *Address:* P.O. Santiniketan, West Bengal.

MUKTIBODH, Sharadchandra Madhav, M.A., LL.B., Marathi Poet, Critic and Novelist; Lecturer, Nagpur Mahavidyalaya, Nagpur. *b.* Jan. 21, 1921; *Educ.:* Holkar Coll., Indore (M.P.). Commenced writing verse while at school; has been accorded an important place in contemporary Marathi poetry. *Publications: Navi Malwat* (Poetry); *Yatrik* (Poetry); *Kshipra* (Novel); has contributed many articles on modern literary criticism. *Recreation:* Reading. *Address:* Shankar Nagar, Nagpur.

MUNDASSERY, Joseph, M.A., Politician and Malayalam Writer; Principal, Co-op. Coll., Trichur. *b.* 1902. Thirty years in teaching; recipient of titles from H.H. The Maharaja of Cochin for literary work —Sahithyakusala and Sahithyanipuna; has travelled widely; visited China, Soviet Union and European countries; entered active politics, 1946; member, World Peace Council; has been associated with educational activities for several years; has been in the forefront of the Progressive movement in Literature; was M.L.C. for about 10 years; Minister for Education, Kerala, 1957-60; was Editor of various literary journals and also a daily. *Publications:* Has produced more than thirty volumes including fiction, travel, biography, literary criticism and general essays; Some Books: *Professor, Konthayilninnukurisilekku, China Forward, Mattoli, Manadandam, Vayanasalayil, Manushyakathanugayikal,* etc. *Address:* Trichur.

MUNIKANNIAH, Mr. Justice Davaloor, B.A., B.L., Judge, High Court of Andhra Pradesh, Hyderabad, since June 1958. *b.* March 11, 1903; *Educ.:* Hindu High School and Muthyalpet High School, Madras; Mrs. A.V.N. Coll., Visakhapatnam; Presidency Coll., Madras; Law Coll., Madras. Apprenticed under Sir Alladi Krishnaswami Iyer; enrolled as Advocate, Madras High Court, 1934; set up practice at Chittoor; practised in the Madras High Court, 1939; enrolled as Senior Advocate, Supreme Court, 1947; Addl. Judge, Andhra Pradesh High Court, 1958-60; keenly interested in cultural and scout organisations; one of the founders, Madras Chamber of Agriculture. *Publicaitons: Krishivaludu*—A Weekly (1931 and 1932); *Vyavasay*—A Fortnightly (1944 to 1946). *Recreations:* Rural Reconstruction; Library Movement. *Club:* Cosmopolitan Club, Madras. *Address:* "Pushkala," Shantinagar, Hyderabad 4.

MUNSHI, Kanialal Maneklal, B.A., LL.B., D.Litt., Ex-Governor of U.P.; *b.* 30th Dec. 1887; *Educ.:* Baroda College. Advocate, Bombay High Court, 1913; Joint Editor, *Young India,* 1915; Fellow of the Universities of Bombay and of Baroda; M.L.A., Bombay, representing the Bombay Univ., 1927-46; member, Working Cttee., Indian National Congress, 1930; member, A.I.C.C., 1930-36 and 1947; Secy., Congress Parliamentary Board, 1934; Home Minister, Government of Bombay, 1937-39; President, Bhartiya Vidya Bhavan, since 1938; member, Constituent Assembly of India and of its Drafting Cttee. and of Parliament, 1947-52; Chairman Institute of Agriculture, Anand, since 1951. Trustee: Birla Education Trust and other trusts, since 1948; Food and Agriculture Minister, Govt. of India, 1950-52; Chairman, Sanskrit Vishwa Parishad, since 1951; Governor of U.P., 1952-57; Exec. Chairman, Indian Law Institute, 1957-60; courted jail several times in the freedom movement. *Publications:* (Gujarati): Novels, Plays, Essays, Memoirs, (English): *Kulapati's Letters,* Vol. I, II & III; *Gujarat and its Literature: Imperial Gurjaras; Bhagwad Gita and Modern Life; Creative Art of Life; To Bhadrinath; Saga of Indian Sculpture; End of an Era—Hyderabad Memories; Warnings of History.* *Address:* Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MUNSHI, Srimati Lilawati, M.P., Rajya Sabha, 1952-58; Vice-Pres., Bharatiya Vidya Bhavan, Bombay, Delhi and Kanpur, since inception; President: Bharatiya Sangit Shiksha Pith (Academy of Indian Classical Music), since its inception; Bharatiya Kala Kendra of Bharatiya Vidya Bhavan (Academy of Indian Fine Arts), since its inception; Indian Conference of Social Work, New Delhi, 1950-51; Bharatiya Stree Seva Sangh, 1948-60; Vice-Pres.: National Council of Women in India, 1953-58; member: Bombay Leg. Assembly (Congress), 1936-46; P.E.N.; M.P.C.C., 1933-34; A.I.C.C., 1931-34; B.P.C.C., 1935-37; organised College of Catering and Institutional Management, Bombay, 1954-58; Dy. Leader, Municipal Congress Party, 1942-43; Whip, Municipal Congress Party, 1943; organised Swadeshi Market and was elected its Pres.; courted jail three times in the freedom movement. *Publications: Rekha Chitro Ane Bija Lekho; Kumaradevi; Jeevanmathi Jadeli; Rekha Chitro—Juna Ane Nava;* miscellaneous articles. *Address:* Bharatiya Vidya Bhavan, Chowpatty, Bombay.

MURANJAN, Sumant Khanderao, B.A. (Bom., 1st Class), M.A. (Bom., 1st Class), B.Sc. (Lond.), D.Sc. (Lond.), Member, Tariff Commission. *b.* April 22, 1900; *Educ.:* Wilson Coll. & St. Xavier's Coll. (Bombay Univ.); London School of Economics (London Univ.); Bombay Educational Service (1925-55); Principal and Professor of Banking, Sydenham Coll., Bombay (1948-55); Visiting Professor, U.S.A., 1953-54; Chairman, Bombay State Forward Markets Cttee.; Member: Small Car Cttee.; Indian Textile Inquiry Cttee.; Pres., Indian Economic Conference (1956). *Publications: Currency and Prices; Modern Banking in India; Economics of Post-war India; Foreign Central and Commercial Banking; Tatvachintan,* etc. *Clubs:* Rotary Club, Bombay. *Address:* 8, Ashley House, 167-A, Colaba Road, Bombay 5.

MURTHY, B. S., B.A., B.Ed., Deputy Minister, Community Development and Co-operation, Govt. of India. *b.* Oct. 29, 1907; *Educ.:* Govt. Arts Coll., Rajhahmundry; Training Coll., Rajahmundry; Madras Christian Coll. and Madras Law Coll. Journalist; M.L.A., Madras 1937; Parliamentary Secy. for Labour and Industry, Madras, 1937-39 and 1946-47; Chief Whip, Madras Leg. Congress Party, 1946-47; Pres.: Andhra Provincial Agricultural Labour Congress since 1946; Andhra Provincial Harijan Sewak Sangh, 1940-49; toured Europe and U.K., 1949; Vice-Pres.: Andhra Provincial Journalists' Assoc.; Chairman, Congress Tribunal, Andhra P.C.C., 1940-41; courted jail, 1940-42; Editor, the *NAVJIWAN*—a Telugu weekly; elected member, Lok Sabha, 1952 & 1957; visited China as a member, Parliamentary Delegation, 1956; elected Pres., All-India Depressed Classes League, 1959. *Publications: Revolt of Six Crores; Agony; Andhra Virakumar.* *Address:* No. 5, Ashoka Road, New Delhi.

MURTHY, Ramnathpur Venkatesa, M.A., Editor, *Records & Statistics. b.* Nov. 12, 1906; *Educ.:* Mysore and Bombay. After working for a short period in the Mysore Education Service joined the editorial staff of *Commerce,* March 1936; became its first Indian editor; resigned from *Commerce,* end of 1951; took over as Chief Editor, *The Bharat,* 1951; after a few months, appointed Special Representative, *Eastern Economist;* immediately after the Second World War, proceeded to the U.K. to make an on the spot study of post-war industrial conditions and prospects of Indo-British economic relations; edits Daily Cotton and Textile Market Review; broadcasts often from the All India Radio on economic subjects; is connected with a number of educational and cultural institutions and is a keen co-operator; as Chairman, Press Guild of India, takes very active interest in the work of this organisation. *Publications:* Has edited and published a number of specialised publications, including *The History of Technical Education in India* and *Industrial India;* is a frequent contributor to leading journals, both in India and abroad. *Address:* 5, Ratan Lodge, Bombay 19.

MURTI, Pandit A. S. N. *b.* Nov. 29, 1894. Ex-Member, Liberal Federation Working Cttee.; was President of the Ganjam Harijan Sevak Sangh; took part in Non-Party Leaders Conferences; original member of the Indian Council of World Affairs; was a member of the Andhra Univ. Senate; is member, Royal Institute of International Affairs, London; was President, Orissa Mill-owners' Assoc. and Chamber of Commerce, Berhampur; was an Hon. Magistrate; constructed a Maternity Ward; conducted Local Boards Administration in the District; member, Congress for Cultural Freedom; was Visitor to Coimbatore Agricultural Coll.; member, Indian Economic Association; P.E.N., etc.; is a prominent landowner in Orissa. *Publications: Free State for India* and other books. *Address:* Sarvodaya Bhavan, Chatrapur (Ganjam).

MUSAFIR, Giani Gurmukh Singh, M.P.; Ex-Pres., Punjab Pradesh Congress Cttee. *b.* Jan. 1899; *Educ.:* Rawalpindi and Training Coll., Lahore. Took active part in Akali movement, Jathedar Akal Takhat; Gen. Secy., S.G.P.C. and Shiromani Akali Dal; devoted to poetry and journalism; joined Congress, 1923; courted jail in almost every movement; member, A.I.C.C. since 1930; Constituent Assembly, 1947; Working Committee since 1952; Chairman, Jallianwala Bag Trust Managing Cttee.; Chairman, Reception Cttee., 61st Session of the Indian National Congress; member, Delegation to Stockholm Peace Conference, 1954; visited Russia and continental countries. *Publications:* Poetry, short stories, etc. in Punjabi. *Recreations:* Politics, Travel and Hiking. *Address:* 21, Feroze Shah Road, New Delhi.

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MUTHIAH, Chettiar of Chettinad, Rajah Sir Muthiah Annamalai, B.A., M.L.A., Kt. (1941), Pro-Chancellor, Annamalai University. *b.* 1905; *Educ.:* Presidency Coll., Madras. Member: Madras Leg. Council, 1930-37; Madras Franchise Cttee., 1931; Madras Leg. Assembly, 1936-46, 1946-52, 1952-57 and since 1957; Syndicate, Madras Univ., 1940-46; Indian Constituent Assembly, 1946-50; Chief Whip and Chairman, Justice Party; Mayor of Madras, 1932-33; again Mayor of Madras 1934-35; Education and Public Health Minister, Madras and Pro-Chancellor, Madras Univ., 1936-37; Local Self-Govt. Minister, Madras, 1937; Pres.: Southern India Chamber of Commerce, 1941; Federation of Indian Chambers of Commerce and Industry, 1943-44; Local Board, former Imperial Bank, Madras; Trustee, Pachaiyappa's Coll. Board, since 1928; its Pres., 1942; Director: former Imperial Bank; A. & F. Harvey Ltd., Madura; Madura Mills Co., Ltd., Madura; Pandyan Insurance Co., Ltd., Madura. *Clubs:* Rotary Club of Madras; Madras Gymkhana Club; Madras Boat Club; Madras Race Club; Madras Cricket Club; Cosmopolitan Club; Bangalore Race Club, Bangalore. *Address:* Chettinad House, Rajah Annamalaipuram, Madras 28.

MYSORE, His Highness Maharaja Sri Jaya Chamaraja Wadiyar Bahadur, G.C.B. (1946), G.C.S.I. (1945), LL.D. (1942), D.Litt. (1955), Governor, Mysore State. *b.* July 18, 1919; *Educ.:* Maharaja's College, Mysore; passed B.A. from the Mysore University, 1938. Has travelled extensively in the Far East, Europe and East Africa; went on lecture tour of U.S.A., 1959 and 1960. *Recreations:* Music, Riding, Tennis, Racquets and Big game shooting. *Address:* The Palace, Mysore.

NAG, Balwant Singh, I.S.E., C.E. (Hons.) (Roorkee), M.I.E., M.I.A.H.R., Padma Shri (1959), Adviser, Irrigation & Power, Planning Commission, Govt. of India. *b.* May 1, 1906; *Educ.:* Khalsa Coll., Amritsar; and Thomason Coll. of Civil Engineering, Roorkee; passed out with Honours, 1929, winning the Harcourt Butler Cup for "the best student at work and play". Selected for the Indian Service of Engineers, 1930; served in the U.P. Irrigation Development till 1941; deputed to the Army during the War; was the first Indian to be a Commander, Royal Engineers; was Project Officer, Central Water and Power Commission; Director, Designs, and Director, Technical Examination; Chief Engineer and Secy. to Govt., Assam, 1954-57; member, High Level Cttee. on Floods, 1957-58; has toured Japan and Europe. *Recreations:* Shooting, Golf. *Address:* No. 1, Kotla Lane, New Delhi-1.

NAG, Kalidas, M.A. (Cal.), D. Litt. (Paris). Officer d'Académie Francaise, Pres., Iran Society, Calcutta; Member, Tagore Centenary Committee; ex-Member, Rajya Sabha and Leader, Democratic Party. *b.* Jan. 15, 1892; *Educ.:* Tagore's Rural Univ., Santiniketan; Calcutta Univ.; Univ. of Paris (1920-23). Guest Prof., Nepal Univ., Khatmandu, 1960; Gen. Secy., Royal Asiatic Society of Bengal, 1942-46; edited its Bi-centenary Volume; nominated member, Rajya Sabha, 1952. *Publications:* Translated Tagore into French; collaborated with the French Nobel Laureate Romain Rolland in his studies on Mahatma Gandhi, Ramakrishna and Vivekananda; *Edited: Bi-Centenary of Sir W. Jones* and *China and Gandhian India* by Dr. Carsum Chang; *Art and Archaeology Abroad; India and the Pacific World; New Asia; India and the Middle East; Discovery of Asia* (1958); *Art and Culture of the Orient* (in Press); *Tolstoy and Gandhi; Greater India* (1959), etc. etc. *Clubs:* Tagore Societies. *Address:* 108, Raja Basanta Roy Road, Calcutta 29.

NAGENDRA, M.A. (English), M.A. (Hindi), D. Litt., Professor & Head of the Deptt. of Hindi, Delhi Univ., since Sept. 1955; *b.* March 1915 (Chaitrakrishna 9, Samvat 1971 Vikrami); *Educ.:* St. John's College, Agra. Reader and Head of the Deptt. of Hindi, Univ. of Delhi, Delhi (1952-55); Dean, Faculty of Arts, Univ. of Delhi, 1958-60. *Publications:* *Original:— Sumitranandan Pant; Adhunik Hindi Natak; Vichar aur Vishleshan; Adhunik Hindi Kavita ki Mukhya Pravritiyan; Bhartiya Kavyashastra ki Bhumika* (Part II); *Aristoo ka Kavya Shashtra* (Translation and interpretation of Aristotle's Poetics); *Kavya men Udatta Tatva* (Hindi Translation of the Sublime), etc.; *Edited: Hindi Dhvanyaloka; Bhartiya Kavyashastra ki Parampara; Bhartiya Natya-Sahitya; Hindi Sahitya ka Brihat Itihas; Indian Literature* (English); Hindi etc. *Address:* Professor and Head of the Department of Hindi, University of Delhi, Delhi.

NAGPUR, John William Sadiq, M.A., B.D., (Hons.), Bishop of. *b.* July 18, 1910; *Educ.:* St. John's Coll., Agra with First Class M.A. in Persian; passed B.D. and B.D. (Hons.) examinations of the Serampore Coll. as an external student. Teacher in St. John's School, Agra, 1933-34; Secy., Student Christian Movement, 1934-35; Lecturer and later Prof. of Persian, Wilson Coll., Bombay, 1935-46; Secy., National Christian Council, 1946-57; William Paton Lecturer, Selly Oak Colleges, Birmingham, England, 1950-51; Secy., Bible Society, May-Sept. 1957; Consecrated Bishop at Poona, Sept. 15, 1957; Enthroned as Bishop of Nagpur, Oct. 6, 1957. *Publications:* Pamphlets dealing with Devotional Life and on Youth and Family Life. *Address:* Cathedral House, Nagpur 1.

NAGRI, Rasiklal Chimanlal, Business man, Managing Agent, The Nagri Mills Co. Ltd., Ahmedabad. *b.* Nov. 22, 1908; Director of several textile mills; member, Managing Cttee., Ahmedabad Millowners' Assoc. for several years; elected its Pres. for 1959-60; member, Local Advisory Cttee., Punjab National Bank Ltd., Ahmedabad; visited Japan to study different aspects of the textile industry, 1952; has created a charitable trust in the name of his father Sheth Chimanlal Harilal from his family funds; the Trust has donated Rs. 2 lakhs to the Ahmedabad Municipal Corporation for establishing in Ahmedabad an Ophthalmic Hospital for public benefit. *Recreations:* Literature on textile industry. *Clubs:* Rotary Club, Ahmedabad. *Address:* Near Law College, Ellis Bridge, Ahmedabad-6.

NAIDU, M. A. Venkataramana, M.A., B.L., Member, Union Public Service Commission, New Delhi, since March 11, 1960. *b.* Jan. 15, 1900; *Educ.:* Madras Univ. Advocate, and Partner, Short Bewes & Co., Solicitors and Advocates, 1926-42; Legal Adviser to the Corporation of Madras, 1942-43; Judge, Small Causes Court and City Civil Court, Madras, 1943-48; Administrator-General and Official Trustee, Madras, 1948-50; Dist. & Sessions Judge and Chief Presidency Magistrate, Madras, 1950-53; Law Secy., Govt. of Andhra Pradesh, 1953; Member, Andhra Pradesh Public Service Commission, 1954-58; Chairman, Andhra Pradesh Public Service Commission, 1958-60. *Recreations:* Gardening. *Clubs:* Madras Gymkhana Club, Madras; Cosmopolitan Club; Secunderabad Club. *Address:* 8-A, Lodhi Estate, New Delhi 3.

NAIDU, Sangitha Kalanidhi, Sangitha Ratnakara Prof. Dwaram Venkataswamy, 'Padma Shri' (Jan. 1956), leading musician, *b.* Nov. 1893 in Bangalore Cantt.; *Educ.:* Mrs. A. V. N. Coll.; studied violin under his brother. Prof. of Violin, Maharaja's Music College, Vizianagaram, 1919-36; appointed Principal, 1936; awarded gold medals, prizes and titles by prominent personalities and associations in India; presided over the annual session of the Madras Music Academy and was awarded the title of Sangitha Kalanidhi, 1941; awarded honorary Doctorate degree of Kala Prapurna by the Andhra Univ. at its convocation, Dec. 9, 1950; has been on the Board of Studies and Board of Examiners in Music, Madras and Andhra Univs. for several years; recipient of President's award for distinction in Carnatic Music (instrumental) for 1953; Vice-Pres., A. P. Sangeeta Nataka Akademi. *Address:* Dwaram House, 8, B. V. Naidu Street, Triplicane, Madras 5.

NAIDU, Gopalaswami Doraiswamy, M.I.S.E., A.S.M.E., M.S.A.E., Industrial Scientist. *b.* March 23, 1893. Founder, U.M.S. Transport Co.; inventor of several mechanical devices; travelled round the world several times; member: State Aid to Industries Board (Madras), State Industries Development Cttee., Board of Industries (Andhra), American Society of Mechanical Engineers, New York, Society of Automotive Engineers, New York, Board of Technological Education (Madras), All-India manufacturers' Organization; Adviser, Carbonink-Products, Podanur; U.M.S. Radio Factory; U.M.S. Blade Factory; U.M.S. Works; Cbe. Armature Winding Works, Coimbatore; Partner, Universal Radiators; Pres., South India Centre of the India Society of Engineers (M.I.S.E.); Director of several Transport Companies in Coimbatore. *Address:* "Gopal Bagh", Avanashi Road, Coimbatore.

NAIK, Vasantrao Phulsing, B.A., L.L.B., Minister for Revenue, Maharashtra State, since May 1, 1960. *b.* July 1, 1913, at Gahuli, Yeotmal Dist.; *Educ.:* Neil City High School, Nagpur; B.A. from Morris Coll; LL.B. from Univ. Coll. of Law, Nagpur. Was recipient of Social Education Commemoration Certificate; was Pres.: Pusad Municipal Cttee.; Pusad Agricultural Assoc., 1943-47; Pusad Harijan Free Boarding; Dy. Minister in the old M.P. Govt.; has been member, Vidarbha Pradesh Congress; Director, M.P. Co-operative Central Bank, 1951-52; elected M.L.A., M.P. in 1952 General Elections; was Deputy Minister for Revenue, M.P. Ministry; Chairman, former M.P. Housing Board; was also Dy. Chairman, M.P. Land Reforms Committee; was Chairman, Matric Cttee. appointed by the M.P. Govt.; Minister for Co-operation, Bombay, Nov. 1956-April 1957. Member, A.I.C.C.; Delegate to the International Rice Commission and F.A.O. meetings at Tokyo (Japan), 1958; Min. for Agriculture and Aarey Milk Colony, Bombay State, April 1957-May 1960. *Address:* "Varsha", Mount Pleasant Road, Malabar Hill, Bombay.

NAIR, Chingoran Keloth Govindan, B.A., B.L. President, Kerala Pradesh Congress Cttee. *b.* 1897; *Educ.:* Govt. Brennen Coll., Tellicherry; Pachaiyappa's Coll., Madras; Law Coll., Trivandrum. Was practising as a lawyer, 1932; was arrested and convicted for participation in freedom struggle; removed from the roll of lawyers for refusing to give an undertaking to the Madras High Court after release that he would no longer take part in the C.D. movement; an active congressman ever since; organized relief work in Malabar after the 1940 cyclone; was Secy., Prov. Cong. Cttee. for about seven years; M.L.A., Madras, from 1937 till resignation of the Congress ministries; detained in 1942 for three years; again M.L.A., Madras till 1951; was Pres., Malayala Regional Congress Cttee.; is member, Cong. Working Cttee. *Address:* Trivandrum.

NAIR, N. Sreekantan, M.A., Politician and Trade Union Worker; Member, Central Secretariat of the R.S.P.; Secy., Central Cttee. of the Party; Pres., All-India United Trades Union Congress. *b.* July 15, 1915; *Educ.:* Arts Coll., Trivandrum. Joined Travancore State Congress (1938); first arrest and conviction, 1938; detained in 1939 for 19 months; Working Cttee. Member, Trav. State

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Congress, 1942-46; resigned and joined Congress Socialist Party, 1946; resigned from C.S.P. and started the Kerala Socialist Party, Sept. 1947; merged into the R. S. P., 1950; M.P. (Lok Sabha), 1952-57; General Secy., R. S. P., 1953-57. *Publications: The Chinese Puzzle*—English; several literary and political treatises in Malyalam. *Address:* Chiraparambu Veedu, Ambalapuzha, Kerala State; *Office:* Revolutionary Socialist Party, Kerala Committee Office, Quilon, Kerala.

NAIR, H. E. Vallillath Madhathil Madhavan, B.A. (Hons.) (Madras), B.A. (Hons.) (Oxford), M.A. (Cantab.), Bar-at-Law, I.C.S., Indian Ambassador in Norway, since Oct. 1960. *b.* Oct. 8, 1919; *Educ.:* The Christian College School, Madras; Board High School, Cherpalcherri; Wardlaw High School, Bellary; Presidency Coll., Madras; Brasenose Coll., Oxford; Gonville and Caius Coll., Cambridge; called to the Bar, Inner Temple, London, 1950. Joined the I.C.S., 1942; Asstt. Collector, Arrah, Bihar; Sub-Divisional Officer, Sitamarhi, Bihar; Under-Secretary, Ministry of External Affairs, New Delhi; First Secy., Embassy of India, Cairo; Deputy Secretary, Ministry of External Affairs, New Delhi; Deputy High Commissioner for India and later Acting High Commissioner for India in Ceylon; Commissioner for India in Singapore; High Commissioner for India in Malaya; Indian Ambassador in Cambodia, 1958–60. *Recreations:* Tennis; Photography. *Club:* Gymkhana Club, New Delhi. *Address:* C/o Ministry of External Affairs, New Delhi.

NAIR, Thekkath Amayangot Kuttysankaran, B.Sc. Engg. (Banaras), Social Worker. *b.* July 15, 1911; *Educ.:* Cherpalcherry, Dist. Palghat; B.Sc. Engg. from Banaras Hindu Univ., March 1934. Joined the Tata Oil Mills Co. Ltd. as the Chief Mechanical Engineer, 1944; became Asstt. Manager (Technical); promoted Manager of the Company, Nov. 1, 1957; has associated himself with many social activities in Kerala; pioneered the Chottanikkara Medical Relief Society which has to its credit a small hospital mostly financed by Sir Dorabji Tata Trust; is mainly responsible for the establishment of a branch of the Family Planning Assoc. at Ernakulam; is on the Managing Cttee., Kerala Productivity Council and the Kerala Institute of Management; was Pres., Cochin Chamber of Commerce; is member on its Exec. Cttee.; is member, Managing Cttee., Industrial Training Institute at Chalakudi; takes active interest as member, Mg. Cttee. in the affairs of the West Coast Employers' Federation; is a Rotarian attached to the Rotary Club of Cochin; has been in the Board of Directors for quite some time. *Address:* Manager, The Tata Oil Mills Co. Ltd., Tatapuram, Ernakulam 4, Kerala.

NAMBIAR, K. Kunhiraman, B.E., C.E. (Hons.), M.I.E. (Ind.), F.Inst.H.E., M.I.Mun.E., F.Am.Soc.C.E., Chief Engineer, The Concrete Association of India, Bombay, since 1958. *b.* Dec. 14, 1902; *Educ.:* Madras. Was Superintending Engineer (Highways), Madras; and Chief Engineer (Highways), Madras, till 1957; Council Member: Indian Roads Congress (Past Pres.); Institution of Engineers (India); Indian Roads and Transport Development Assoc.; Indian Standards Institution and on its various technical Cttees.; Building Divisional Council; Central Road Research Institute; Bridges Panel of the Cttee. on Plan Projects of the Planning Commission; Selection Cttee., Madras Institute of Technology and the Alagappa Chettiar Coll. of Engineering and Technology; Local Qualifications Cttee., American Society of Civil Engineers; Editor: "The Indian Concrete Journal". *Clubs:* Rotary and C.C.I. *Address:* Flat No. 4, C.C.I. Chambers, Dinshaw Vatchha Road, Backbay Reclamation, Bombay 1.

NAMBOODIRIPAD, E. M. S., Ex-Chief Minister, Kerala State; Ex-General Secretary, Central Executive Cttee., C.P.I. *b.* June 14, 1909; *Educ.:* St. Thomas's Coll., Trichur. Left College while in B.A. Class to join 1932 Civil Disobedience; formed along with others Congress Socialist Party in Kerala, 1934; joined C.P.I. later; Secy., Kerala Provincial Congress, 1938–40; Congress M.L.A., Madras, 1939–40; Member, Central Committee, C.P.I. from 1943; Member, Politbureau, from 1950; Acting General Secy., June–Dec. 1953, July–Dec. 1954 and 1955-56; elected M.L.A., Kerala in the General Elections, 1957; Chief Minister, Kerala, 1957-59; elected to Kerala Leg., 1960. *Publications:* Many books in Malayalam and in English; *Short History of Peasant Movement in Kerala; Peasant Question in Kerala; National Question of Kerala; On Agrarian Question; Food, Achilles Heel; Peasant in National Reconstruction; Two Policies on Agrarian Question; Social Democracy and Communism; On Organisation; The Mahatma and Theism* (in English). *Address:* Nanthencode, Trivandrum, Kerala State.

NANDA, Air Vice-Marshal Diwan Atma Ram, Deputy Chief of the Air Staff, Indian Air Force, since May 1958. *b.* July 27, 1914. Commissioned in the Indian Army, 1936 and posted to the 1st Punjab Regiment. Seconded to the I.A.F., Sept. 1938 and served with No. 1 I.A.F. Squadron, 1939–40; saw active service on the N.W.F. and successfully carried out operations in Sind against the Hurs; had his Staff Coll. training at Quetta; appointed Director of Organisation and Establishment at Air H.Q.; promoted Air Commodore and appointed one of the three Principal Staff Officers at the re-organised Air H.Q. as head of the Personnel and Organisation Branch, 1948; Air Officer Commanding, Operational Command, controlling all front-line units in the I.A.F., 1952–55; completed a course at the Imperial Defence Coll., Dec. 1956; Air Officer on Special Duty at Air H.Q. till April 1958. *Address:* Air Headquarters, New Delhi.

NANDA, Gulzari Lal, M.A., LL.B., Minister for Labour, Employment & Planning, Govt. of India, since April 1957. Deputy Chairman, National Planning Commission since July 1960. *b.* July 4, 1898. Joined the non-co-operation movement, 1921; Professor of Economics, National Coll., Bombay; Parl. Secy., Govt. of Bombay (Labour & Excise), 1937–39; Labour & Housing Minister, Govt. of Bombay, 1946–50; Secy., Textile Labour As ociation, Ahmedabad, 1922 to 1946; member, National Planning Cttee.; Imprisoned for Satyagraha, 1932, 1942–44; Trustee, Kasturba Memorial Trust; Secy., Hindustan Mazdoor Sevak Sangh; Chairman, Bombay Housing Board, 1946–48; Chairman, Standing Cttee. of the Ahmedabad Municipality, 1940–42; went to Geneva as a Govt. delegate to the 30th Session of the International Labour Conference in June-July 1947; visited Sweden, France, Switzerland, Belgium and England and studied the labour and housing conditions there; largely instrumental in organising Indian National Trade Union Congress in May 1947; elected member, Economic Programme Cttee. of the All-India Congress Cttee.; Leader, Indian Delegation to the Colombo Plan Consultative Cttee., Singapore, 1955; led the Indian Delegation to the I.L.C. held at Geneva, 1959; Chairman: Bharat Sevak Samaj; Advisory Cttee., Bharat Sadhu Samaj; Minister for Planning, 1951; Minister for Planning, Irrigation and Power, 1952–57; Dy. Chairman, Planning Commission, 1951–52. *Publications: Some Aspects of Khadi; History of Wage Adjustment in the Ahmedabad Textile Industry; Approach to the Second Five Year Plan: Some Basic Considerations* (Aug. 1955). *Address:* No. 6, Hastings Road, New Delhi.

NANJAPPA, Venkata Subramani Iyer, Capt. A.I.R.O., B.Sc. (Hons.) (Mysore), I.C.S., Director-General, Posts & Telegraphs and Chairman, P. & T. since Dec. 1960. *b.* Jan. 26, 1911; *Educ.:* Central Coll., Bangalore; Univ. Coll., London; Jesus Coll., Oxford. Entered I.C.S., 1934; posted as Asstt. Collector, Jalgaon, East Khandesh; joined the Army during World War II, 1940-43; Collector and Dist. Magistrate, Nasik and North Kanara districts; appointed Administrator, Kolhapur State, 1948; Chief Commissioner, Cooch-Behar State, 1949-50; Special Commissioner, Telangana, Hyderabad State, 1950-51; Chief Commissioner, Tripura, 1951-55; Textile Commsnr., 1955-58; Jt. Secy., Atomic Energy Deptt., 1958-60. *Recreations:* Riding, Tennis, Swimming, etc. *Address:* New Delhi.

NANJI, Dr. Homi Ruttonji, B.Sc. (Bom.), Ph.D. (Lond.), B. Pharm. (Lond.), F.R.I.C., F.R.S.A., Managing Director, Italab Pvt. Ltd. *b.* Dec. 2, 1909; *Educ.:* Institute of Science, Bombay; Imperial Coll. of Science and Technology, London. Technical Director, Pharmed Pvt. Ltd. Public analyst and consultant in manufacturing and processing of pharmaceuticals and foods. *Chairman,* Development Council (Drugs & Pharmaceuticals); Member: All India Board of Technical Education; Society of Public Analysts, London. *Publications:* Several Publications in Chemistry & Biochemistry. *Recreations:* Hockey, Cricket. *Clubs:* W.I.A.A., Willingdon Club, Radio Club, Ripon Club. *Address:* "Sea View", 13, Pali Hill, Bandra, Bombay 50.

NARAIN, Govind, B.Sc. (Hons.), M.Sc., Chief Secretary, U.P. Govt., since March 3, 1958. *b.* May 5, 1917; *Educ.:* A.P. Mission High School, Mainpuri; Govt. Intermediate Coll., Etawah; Allahabad Univ.; Balliol Coll., Oxford. Dist. Magistrate, Farrukhabad, Sub-Divl. Officer, Lalitpur, Dist. Magistrate, Aligarh, Dist. Magistrate, Hamirpur, Dy. Commissioner, Food and Civil Supplies, 1945-47; Dist. Magistrate, Aligarh, Aug. 1947; Home Secy., U.P. Govt., Feb. 1948-March 1951; Adviser-cum-Secy. to H.M. the King of Nepal, March 1951-April 1954; Secy. to U.P. Govt., P.W.D., Power and Information Deptts., July 1954-Sept. 1955; Devpt. Commissioner and Secy. to Govt., U.P. Planning; Economic & Statistics and Information Dept., Sept. 1955-Feb. 1958; *Publications:* Series of 8 talks on Community Development and Five Year Plans. *Clubs:* Boat House Club, Naini Tal, Mohammed Bagh Club, Lucknow. *Address:* 8/1, Vikramaditya Marg, Lucknow.

NARASIMHAM, Mr. Justice Ramaswamy Lakshmi, M.A. (Madras), B.A. (Hons.) (Oxford), Diploma in Economics (Madras). I.C.S., Chief Justice, Orissa High Court since March 21, 1956. *b.* Sept. 27, 1906; *Educ.:* Presidency College, Madras and New College, Oxford. Joined the Indian Civil Service, Bihar & Orissa, 1931; after holding various administrative posts, joined the Judiciary, March 1939; officiated as Deputy Secretary, Legislative Department, Govt. of India, May-Sept. 1945; Law Secy. to the Govt. of Orissa, Oct. 1945-June 1948; Judge, Orissa High Court, 1948-56. *Recreations:* Tennis and Bridge. *Club:* Cuttack Club. *Address:* Cuttack.

NARAVANE, Dr. Trimbak Ramchandra, B.A. A.V.V. (Tilak), L.M. (Rotunda), Z.G.S. (Vienna), Minister for Prohibition and Social Welfare, Maharashtra, since May 1, 1960. *b.* May 19, 1900, at Bedag, Sangli Dist.; *Educ.:* Primary education at Bedag, Budhgaon and Miraj; Sangli High School, Sangli; Fergusson Coll., Poona; National Medical Coll. & Grant Medical Coll., Bombay; Tilak Vidyapeeth; also Dublin and Vienna. Joined N.C. movement, 1921; Devoted himself to physical culture activities, volunteer organisation and youth movement along with Congress work till 1930; started the Om Samarth Bharat Vyayam Mandir at Dadar, 1928 is connected with most institutions in Bombay that conduct classes for the spread of Hindi; established an

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Ayurvedic Hospital and College at Sion, Bombay; joined the Dandi March batch for a week, 1930; courted arrest several times in the freedom movement; was member, A.I.C.C. for some years; was Gen. Secy., B.P.C.C.; was Municipal Councillor continuously, 1938-52; Dy. Leader, Congress Party; Chairman, Medical Improvements and School Cttees. and member of Standing and Improvement Cttees.; elected M.L.A., Bombay, 1952; was Dy. Minister for Prohibition, Bombay State, 1952-56; resigned on the Samyukta Maharashtra issue, Dec. 1955; was one of the Gen. Secretaries, Samyukta Maharashtra Parishad and later Vice-Pres., Samiti; founded a new independent Party of Congressmen for achieving Samyukta Maharashtra *viz.* Congress Jana Parishad; again elected M.L.A., 1957. *Address:* 250/A, L. J. Road, Dadar, Bombay 28.

NARAYAN, Jayaprakash, Sarvodaya leader. *b.* Oct. 11, 1902; *Educ.:* Bihar and U.S.A. Founder Secy., Socialist Party (India); Head of Labour Dept., Indian National Congress, 1931; imprisoned on several occasions; was member, Congress Working Cttee.; resigned membership due to difference of opinion with the Congress; Ex-Pres., All-India Railwaymen's Federation; made a statement in Oct. 1957 that he had finally renounced politics. *Address:* Kadam Kuan, Patna 3, Bihar.

NARAYAN, Rasipuram Krishnaswamy, B.A. (Mysore), Author. *b.* Oct. 10, 1906; *Educ.:* Christian Coll., Madras; Maharaja's High School and Maharaja's Coll., Mysore; *Publications:* Novels in English:—*Swami and Friends, The Bachelor of Arts, The Dark Room, The English Teacher, An Astrologer's Day, Mr. Sampath, The Financial Expert, Waiting for the Mahatma, The Guide;* all the above novels have been republished in the United States and translated into French, German and other European languages; *The Man-Eater of Malgudi;* collections of short stories contributed to important Indian and foreign journals. *Recreations:* Reading, Music, Walking, Travel. *Address:* Yadavagiri, Mysore 2.

NARAYAN, Shriman, M.A. (English), M.A. (Econ.), Member, Planning Commission, since July 1958. *b.* June 15, 1912; *Educ.:* A. P. Mission High School, Mainpuri; Agra Coll., Agra; Univ. of Allahabad. Member: Exec. Cttee., All India Hindustani Talimi Sangh, Sevagram (1950-59); All India Khadi & Village Industries Commission (1956-59); Trustee, Hindustani Prachar Sabha, Wardha; Chairman: Planning Commission's Prohibition Enquiry Cttee. (1954–55); Standing Cttee. on Basic Education; Gen. Secy., Indian National Congress (1952–58); is a staunch advocate of the establishment of a casteless society; undertook a world tour to propagate Gandhian ideology, 1949; Pres., All-India Educational Conference, Jaipur, 1956. *Publications: Fountain of Life* (Poems); *Gandhian Plan of Economic Development of India; Gandhian Constitution for Free India; Medium of Instruction; The Two Worlds; One Week With Vinoba; Gandhian Plan reaffirmed; England through Indian Eyes; Constructive Programme for Students; Towards a Socialistic Economy; Socialist Pattern of Society; India and China; India's Current Problems; Principles of Gandhian Planning; Amar Asha; Manav; Roti Ka Raag* (Collection of Hindi Poems); *Jugnoo* (Hindi Essays). *Recreations:* Gardening. *Address:* 9, York Road, New Delhi.

NARAYANAN, K. P., M.A. (Madras), Editor, *Madhya Pradesh Chronicle,* English Daily, Bhopal; Representative of the *Hindu* (Madras), at Bhopal. *b.* June 14, 1909; *Educ.:* St. Thomas' Coll., Trichur; Presidency Coll., Madras. Asstt. Editor, 'Insurance Review', Lahore, 1933; Asstt. Editor, 'Daily News', Nagpur, 1935; member, Standing Cttee. of A.I.N.E.C. and of Prov. Press Advisory Cttee., for number of years; former Editor, *Nagpur Times* and *Jwala;* Pres.: Working Journalists Union, M.P., 1952; M.P. Branch of Editors Conference, 1953; member, Railway Users Consultative Cttee. (Divisional), 1953-56. *Club:* Rotary Club, Bhopal (Pres.). *Address:* "Gitanjali", S.N. 6, Civil Lines, Bhopal.

NARENDRA, Kumar, M.A. (Punjab), Editor, *Daily Pratap,* New Delhi and *Vir Arjun,* New Delhi. *b.* April 24, 1914; *Educ.:* Govt. Coll., Forman Christian Coll., and Law Coll., Lahore, Joined the *Pratap,* 1939; Hon. Treasurer, Indian and Eastern Newspaper Society. *Recreations:* Music, Tennis. *Address:* 6, Keeling Road, New Delhi.

NAROLA, Dr. Kailas Narain, M.B.B.S., Deputy Minister for Co-operation, Govt. of Maharashtra, since May 1, 1960. *b.* Dec. 12, 1910, at Sirohi, Rajasthan; *Educ.:* Maharaja's Coll., Jaipur; Grant Medical Coll., Bombay. Belonged to the Revolutionary Party of late Bhagat Singh and Gurudutt; jailed for revolutionary activities, 1942; joined Congress 1944; active Congress worker since 1946; M.L.A., Bombay since 1952; ex-member: Bombay Univ. Senate and Medical Faculty, Bombay Univ.; Bombay Municipal Corporation, 1948-52; Chairman, Sur Singar Samsad; was a keen sportsman; organized the exhibition "Bombay Show the Way" published Weekly in Hindi and English, *Azad Hind,* 1946. *Recreations:* Football, swimming. *Clubs:* N.S.C.I. *Address:* A/10, Foreshore Road, Bombay 1.

NASKAR, Purnendu Sekhar, M.A. (History), Deputy Minister for Rehabilitation, Govt. of India. *b.* March, 1921; *Educ.:* Calcutta Univ. Elected to the Lok Sabha from W. Bengal (Diamond Harbour Constituency), 1952 and again in 1957; Member, Indian Delegation to U.N. General Assembly, 1954 and 1955; Parliamentary Secy. in the Works, Housing and Supply Ministry, Govt. of India; later Parliamentary Secy. in Rehabilitation Ministry. *Address:* 72, Beleghata Main Road, Calcutta 10; New Delhi.

NATEKAR, Nandkumar Mahadeo, B.A. (Econ.), Leading Badminton Player. *b.* May 12, 1933; *Educ.:* Sangli; Ruia College. India's No. 1 Badminton player for 1953 and 1954; toured England and America and played in all championships, 1954; represented India in Thomas Cup series, 1954-55; Triple Crown holder again in the Western India, C.C.I. and the Intercollegiate championships, 1956; holder of the Men's Singles in the Selangor Open Badminton championships at Kuala Lumpur in Malaya, 1956; ranked No. 2 in Singles for 1956; during 1957 participated in the 'Meredeka' Championships at Kuala Lumpur; represented India against Thailand at Bangkok; runner-up to Eddy Choong in Singles in the Western India and the C.C.I. Championships and in Mixed Doubles in partnership with Miss Shashi Bhat; Western India Championship, 5th year in succession; Men's Doubles with Bopardikar, 1958; W.I.A.A. Bombay State Triple Crown winner; won C.C.I. singles title and Triple Crown in Bombay State Championships, 1959. Capt. Indian Badminton team—Thomas Cup, 1960; All India Winner—Singles & doubles, 1960; Winner Single—King's Cup at Bangkok, 1961. *Address:* 21A, Sitaram Buildings, Dadabhai Naoroji Road, Bombay 1.

NATH, Baleshwar, B.Sc., C.E. (Hons.), M.I.E. (India), Engineer, educationist and author; Member, M.I.T., COPP., Planning Commission, Govt. of India. *b.* March 1, 1911; *Educ.:* St. John's School, Agra; Agra Coll., Agra Univ. & Thomason Coll. of Civil Engineering, Roorkee; awarded Thomason Memorial Gold Medal for Best Engg. Designs. Has been responsible for the construction of many important Engg. Works including the Sarda Hydro-electric Project in Uttar Pradesh; represented India as a delegate in numerous International Conferences particularly the International Conference on Irrigation and Drainage at San Francisco, 1957 and International Conference on High Dams at New York, 1958; member, International Sub-Cttee. for Concrete on Large Dams; attended ECAFE Conferences on Low Cost Roads and Earth work operations; organised First International (Regional) Conference on Soil Mechanics and Foundation Engineering at New Delhi, 1960; was member, All India Council of Technical Education and served on many Cttees. and Engg. Faculties of various Univs.; organized a Research Session of C.B.I.P. at Colombo (Ceylon); sponsored and steered the scheme for Fundamental and Basic Research in Hydraulic Engg.; member, Engg. Research Cttee., C.S.I.R.; edited the Journal *Irrigation & Power* and other technical publications issued by the Central Board of Irrigation and Power; awarded the President of India prize 1960-61 for his paper on 'River Control' (Hindi). *Publications: In California* and numerous technical papers in various Indian and International publications, as also in *Hindi Vishwakosh. Club:* Rotary Club. *Address:* Member, M.I.T., COPP., Planning Commission, Govt. of India, New Delhi.

NATH, Prof. Dr. Madhab Chandra, D.Sc., F.N.I., F.R.I.C., F.I.C., Chitnavis Professor & Head of the Department of Biochemistry, Nagpur University, Nagpur, since 1946. *b.* Oct. 1905 at Hashara, Dacca; *Educ.:* Jagannath Intermediate Coll., Dacca; Univ. of Dacca; Lady Tata Memorial Scholar, 1934-37. Awarded Elliot Prize for Chemistry for 1941 by the Royal Asiatic Society of Bengal; elected member of the American Association for the Advancement of Science, Washington, 1948; elected member, Soc. Expt. Biol. and Med., New York, 1950; is connected with several Scientific Societies, Learned Bodies, etc. *Publications:* 131 original papers on various problems of Bio-chemical importance published in India and outside; *Carbohydrate metabolism with special reference to the cause, theory, prevention and treatment of diabetes; Biosynthesis of Vitamins; Steroids, Enzymes, Nutrition, Lipid Metabolism with Special reference to experimental atherosclerosis* etc., etc. *Address:* Nagpur University, Nagpur.

NATH, Capt. Surendra, Cricketer. *b.* Jan. 4, 1937, at Meerut; *Educ.:* Modern School, New Delhi. Became the Junior Athletic Champion in the school, 1948; played for his school in hockey, football, cricket and basket ball matches; obtained football and cricket blues, 1951; captained Cricket Team, 1951; played for Delhi schools in the Cooch Behar Trophy, 1952; joined J.S.W. of the N.D.A., Aug. 1952; Capt., J.S.W. in cricket, 1954; played for N.D.A. in Rohinton Baria, 1953-54, and 1955-56; Capt., 1955-56; played for Services, 1955-56; has been playing for them since then; commissioned in the Army as an Officer, 1956 and was posted to 16 Light Cavalry; played for India against the West Indies in the 3rd and 4th Tests, 1958-59; played 1st and 2nd Tests against Australia, 1959-60; toured with the Indian Cricket Team in U.K. played in all five Tests, 1959; took 16 wickets in all in the Test Series, heading the test average for the tour. *Address:* 16, Light Cavalry, C/o 56, A.P.O.

NATU, Waman Ramchandra, B.A. (Benaras), B.Sc. (Econ.) (Lond.), Textile Commissioner and Ex-Officio Joint Secy., Govt. of India, since May 1960. *b.* Sept. 16, 1910; *Educ.:* B.A. First Class from Banares Univ., 1932; B.Sc. (Econ.) First Class Honours and Banking Prizeman, London School of Economics, Univ. of London, 1937. Economic and Statistical Adviser to the Govt. of India, Ministry of Food and Agriculture, 1944-51; Joint Secy. to the Govt. of India, Ministry of Food and Agriculture, 1951; Executive Director for India, International Monetary Fund, Washington, U.S.A., 1951-54

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Chairman, Forward Markets Commission, 1954-60. *Publications : Burden of the Indian Tariff* (in collaboration with Sir Theodore Gregory), published by the Govt. of India; *Public Administration & Economic Development*, published by the Gokhale Institute of Politics & Economics, Poona; *Fukat Foujdar*, a Marathi play in three acts. *Recreations :* Dramatics and Literature. *Address :* 'Zaveri Mahal', 100, Marine Drive, Bombay 2.

NAWANAGAR : Lieut.-General His Highness Maharaja Jam Shree Digvijaysinghji Ranjitsinghji Jadeja, G.C.S.I. (1947), G.C.I.E. (1939), K.C.S.I. (1935), the Maharaja Jamsaheb Bahadur of, was Rajpramukh of Saurashtra till that State's merger in Bombay on 1st Nov. 1956. *b.* Sept. 1, 1895; *Educ.:* Rajkumar Coll., Rajkot; Malvern Coll. and Univ. Coll., London. Succeeded to the *Gadi*, April 1933; Chancellor, Chamber of Princes, 1937-44; Capt., late 5th/6th Rajputana (Napier's) Rifles; Major, 1936; Colonel, 1942; Lieut.-General, 1948; Indian delegate at the Annual Sessions of the General Assembly of the U.N. at Paris in Sept.-Dec. 1948 and at the 4th Session, Flushing Meadows, Lake Success in Sept.-Dec. 1949; again at the 5th Session, 1950; elected member and then Chairman, U.N. Administrative Tribunal at Lake Success, 1950, July-Aug. 1951; at Paris, Dec. 1951; Chairman, Budgetary Cttee., 1950; elected Chairman, U.N. Negotiating Committee for Korean Rehabilitation. *Address :* Palace, Jamnagar.

NAYAR, Dr. Sushila, M.B.B.S., M.D., Dr. P.H., M.P. (Lok Sabha) from Jhansi; Minister and Speaker, former Delhi State; now in practice of medicine and pediatrics. *Educ. :* Lahore Coll. for Women, Lahore; Lady Hardinge Medical Coll., Delhi; M.B.B.S. and M.D. Punjab Univ.; M.P.H. and Dr. P. H. Johns Hopkins Univ. (Baltimore Md., U.S.A.). Medical attendant to Mahatma Gandhi and his Ashram; rural medical work at Sevagram and in Noakhali; work for communal harmony and social service in Noakhali, East-West Punjab and Delhi; Pres., Assoc. for Moral and Social Hygiene in India from 1957; Chairman: National Savings Central Advisory Board; Women's International League for Peace and Freedom, Indian Section; Vice-Pres., Bharatiya Grameen Mahila Sangh; Pres., S.P.C.A., Delhi; U.N. Assoc., Delhi; Delhi State Council for Child Welfare; Gandhi Smarak Harijan Shiksha; member: Governing Body and Scientific Advisory Board of Indian Council of Medical Research; Board of Directors, National Small Scale Industries Corporation; Board of Governors, Lawrance School, Sanawat. *Publications : Kasturba, Karavas Ki Kahani. Address :* 1, Curzon Lane, New Delhi.

NAYUDAMMA, Dr. Yelavarthy, B.Sc. (Industrial Chemistry) (Banaras), M.S., Ph.D. (Chem.) (Lehigh), A.R.I.C. (Eng.), F.I.C. (India), Director, Central Leather Research Institute. *b.* Sept. 10, 1922; *Educ. :* Banaras Hindu Univ.; Lehigh Univ., U.S. Actively participated in the conference of the International Society of Leather Trade's Chemists held at Rome, 1957, Munich, 1959; Hony. Prof., Leather Technology, Madras Univ.; member: Academic Council, Senate and Univ. Cttees. connected with technological education; Board of Visitors, Coll. of Technology, Calcutta; Assoc. of Principals of Technical Institutions; Export Promotion Council (Southern Region), Development Council for Leather, Leather Goods & Pickers; Heavy Industries Plan Cttee., Govt. of U.P.; Society of Leather Trade's Chemists, England, etc.; Chairman: High Power Cttee. on Leather Industry, Andhra; Leather Sectional Cttee., Indian Standards Institution; Editor, *C.L.R.I.*, Monthly Bulletin; Rotarian. *Publications :* Over 100 publications. *Clubs :* Rotary Club, Madras Gymkhana Club. *Address :* Director, Central Leather Research Institute, Adyar, Madras.

NAYUDU, Mr. Justice Canakapalli Sanjeeva Row, B.A., B.L., Rao Sahib (1941). Judge, Andhra Pradesh High Court, Hyderabad, since March 13, 1958. *b.* March 8, 1906; *Educ. :* Pachaiyappas High School, Madras, Presidency Coll., Madras, Law Coll., Madras. Advocate, Madras High Court, since 1929; Senior Advocate, Supreme Court of India; practised in the Supreme Court, 1950-58. Served as a King's Commissioned Officer during the last war on the Assam Burma front, 1943-45; recipient of Burma Star, 1939-45 Star War Medal and Independence Medal; served in the Judge Advocate General's Deptt., 1945-50; Judge-Advocate, Indian Navy, New Delhi, 1950-1958. *Publications : Handbook of Military Law;* One Act play: *What is in a Name. Recreations :* Tennis, golf and gardening. *Clubs :* Delhi Gymkhana Club; Defence Services Club, New Delhi. *Address :* 'Akash', Road 12, Banjara Hills, Hyderabad.

NAYUDU, Narayanasami Varadarajulu, M.A., B.L., F.I.A., National Savings Commissioner for India, since 1957. *b.* March 10, 1912; *Educ. :* Presidency Coll., Madras; Law Coll., Madras; Institute of Actuaries, London. Worked in Atlas Assurance Co., London, 1936-38; Asstt. Supdt. of Insurance, Govt. of India, 1939-44; Actuary and Manager, United India Life Assurance Co., Madras, 1944-56; Actuary, Life Insurance Corporation of India, 1956-57; studied the working of Life Insurance business in Metropolitan Insurance Co., New York and Sun Life Assurance Co. of Canada, Montreal, 1948; attened the centenary of the Institute of Actuaries, London, and various professional bodies; Pres., Indian Life Officers Assoc., 1950-51; Actuarial Society of India, 1956-57. *Publications :* Several papers on Life Insurance. *Recreations :* Music, Tamil Literature. *Clubs :* Cosmopolitan, Madras. *Address :* Post Box 96, Nagpur; 'Shanti', 'South Avenue', Madras 18.

NEHRA, Major-General Rajendra Nath, Deputy Quartermaster-General, Army Headquarters, since Sept. 1959. *b.* Oct. 14, 1913; *Educ. :* Prince of Wales Royal Indian Military Coll., Dehra Dun; Royal Military Coll., Sandhurst, England. Commissioned into Indian Army, 1934. Saw active Service in Mohmand operations, 1935 and Waziristan operations, 1937; appointed Instructor Class B in IMA, Dehra Dun, 1940; transferred to Indian Army Ordnance Corps, 1940; appointed Deputy Chief Ordnance Officer, 1942; promoted Lt.-Col. as Chief Ordnance Officer, Indian Advance Ordnance Depot in operational area, Oct. 1943; promoted Colonel and appointed Commandant, Central Ordnance Depot, Sept. 1947; promoted Brigadier and took over as B.I.A.O.C., Western Command, 1947; Brigadier incharge Administration, in the same H.Q., Dec., 1949; Dir., Ord. Services, Army Hqrs., Nov. 1952 Aug. 1959. Promoted Major General, Nov. 1956; appointed Col. Commandant, Army Ordnance Corps, Dec. 1956. *Address :* 7, Kushak Road, New Delhi.

NEHRU, H.E. Mr. Braj Kumar, B.Sc. (Allahabad), B.Sc. (Econ.) (London), I.C.S., Ambassador in U.S.A. *b.* Sept. 4, 1909; *Educ. :* Allahabad University; London School of Economics; Balliol College, Oxford; Inner Temple. Joined the I.C.S., 1934; Assistant Commissioner, Punjab, 1934-39; Under-Secretary to the Govt. of India, Dept. of Education, Health and Lands, 1939; Officer on Special Duty, Reserve Bank of India and Under-Secy., Finance Dept., 1940; Dy. Secy., 1944; Joint Secy., 1947; member, U.N. Advisory Cttee. on Administrative and Budgetary Questions, 1951-53; Executive Director, International Bank for Reconstruction & Development, and Minister, Indian Embassy, Washington, 1949-54; Jt. Secy., Dept. of Economic Affairs, 1954-57; Secy., 1957-58; represented India at the Reparations Conference, 1945, Commonwealth Finance Ministers' Conference, 1949-50, 1955-56, 1958; United Nations General Assembly, 1949-52; Food & Agricultural Organisation, 1949-50; Sterling Balance Conferences, 1947-48-49 and at the Bandung Conference, 1955; deputed to enquire into Australian Federal Finance, 1946; and to advise the Govt. of the Sudan, 1955; Commr. Gen. for Economic Affairs, Washington, 1958-61; Representative, Indian Delegation to the U.N. General Assembly, 1960. *Recreations :* Bridge, Reading and Conversation. *Club :* Delhi Gymkhana. *Address :* Washington.

NEHRU, Jawaharlal, M.A. (Cantab.), Bar-at Law, Bharat Ratna (1954), Prime Minister of India and Minister for External Affairs since 1947; in charge of Department of Atomic Energy; Defence Minister, 1953, 1954 and 1957; Finance Minister, February to March 1958. *b.* Nov. 14, 1889, at Allahabad; *Educ.:* Harrow School; Trinity Coll., Cambridge (M.A.); Barrister-at-Law, Inner Temple, 1912. Advocate, Allahabad High Court;

attended Bankipore Congress as delegate, beginning of his political career, 1912; organized first kisan march in Pratapgarh, 1920; served with order of externment, later revoked for connection with Afghan delegation, 1920, first clash with authorities; General Secy., A.I.C.C., Sept. 1923; toured Italy, Switzerland, England, Belgium, Germany, Russia, 1926; attended Congress of Oppressed Nationalities in Brussels as official delegate of Congress from India, Feb. 1926; attended tenth anniversary celebrations of the Revolution in Moscow, Nov. 1927; was instrumental in committing the Congress to the goal of independence at the Madras Congress, 1926; was lathi-charged while leading a procession against the Simon Commission in Lucknow, 1928; attended All Party Congress, Aug. 29, 1928 and is signatory to Nehru Report on Indian constitutional reform; founded Independence for India League, 1928, which advocated complete severance of the British connection and was its General Secy., 1928; Pres.: Lahore session of Congress, Dec. 29, 1929, creed changed to complete independence; Lucknow session, 1936; Faizpur session, 1936; Delhi session, 1951; Hyderabad session, 1953; Kalyani session, 1954; arrested and sentenced to six months in salt laws Civil Disobedience, Apr. 14-Oct. 11, 1930; completes *Autobiography* in Almora District Jail, Feb. 14, 1935; flew to Switzerland to see ailing wife, visited London-Rome, Feb.-Mar. 1936; visited Spain in the Republican cause, 1938; visited China, 1939; arrested and sentenced in Individual Satyagraha, Oct. 31, 1940 and sentenced to four years; released with other leaders, Dec. 1941; had prolonged talks with Chiang Kai-shek in India, 1942; moves Quit India resolution at A.I.C.C. session in Bombay, Aug. 7, 1942; arrested and taken to Ahmednagar Fort, Aug. 8, 1942; last and longest detention; nine detentions in all; released, Jan. 1945; opposed partition of India; toured south-east Asia, March 1946; elected Congress President fourth time, July 6, 1946; forms Interim Government, and sworn in as Vice-President and Member in charge, External Affairs, Sept. 2, 1946; First Prime Minister of free India, Aug. 15, 1947; attended Commonwealth Prime Ministers' Conference in London, Oct. 6, 1948; Apr. 1949; Jan. 1955; June 1956; June 1957; addressed special session of the General Assembly of the U.N. in Paris, Nov. 3, 1948; visited U.S.A. at the invitation of President Truman, Oct. 1949; addressed: U.S. Congress, Oct. 13, 1949; Canadian Parliament, Oct. 24, 1949; signed Nehru-Liaqat Ali Agreement on Minorities, Apr. 2, 1950; visited Karachi, Apr. 26, 1950; visited Nepal, June 1951;

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attended coronation of Queen Elizabeth II in London, May 1953; visited Karachi, July 1953; held talks with Chinese Premier Chou En-lai, June 1954; issued joint statement on Panchshil, June 25, 1954; visited China, Oct. 1954; visited Burma, Thailand, Indonesia, Malay, Dec. 1954; attended Afro-Asian Conference at Bandung, Apr. 1955 and formulated Ten Principles in elaboration of Panchshil; visited Russia, Yugoslavia, Poland, Czechoslovakia, Austria, Italy, Egypt, June 11-July 11, 1955; in Rome saw the Pope about Goa, July 8, 1955; signed joint statement with Prime Minister Bulganin about co-existence, Dec. 13, 1855; visited Ireland, West Germany, France, Yugoslavia, Greece, Egypt, Syria, Lebanon, June-July 1956; urges swift action against Anglo-French-Israeli aggression against Egypt in message to U.N. Secretary-General, Oct. 31, 1956; welcomed Chinese Premier Chou En-lai in Delhi, Nov. 30, 1956; visited U.S.A., Canada, Europe, Dec. 1956; conferred with President Eisenhower at Gettysburg, Dec. 17, and again at White House, Dec. 19, 1956; addressed informal meeting of U.N. General Assembly, Dec. 20, 1956; held conversations with Mr. Chou En-lai during latter's third visit, Dec. 30, 1956-Jan. 2, 1957; welcomed Marshal Zhukov, the Soviet Defence Minister in Delhi, Jan. 25, 1957; elected to the Lok Sabha on Congress ticket from Phulpur Constituency, U.P., 1957; went on goodwill visit to Syria, Denmark, Finland, Norway, Sweden, June 1957; visited Holland, Egypt, Sudan, July 1957; visited Japan, Oct. 3-14, 1957; welcomed Mr. Harold Macmillan and held discussions with him, Jan. 8-10, 1958; visited Bhutan, Sept. 16-Oct. 2, 1958; reported Chinese action in Tibet to Parliament, March 23, 1959; met Dalai Lama in Mussorie, Apr. 24, 1959; visited Nepal, June 11 to 14, 1959; complained of Chinese silence on Indian notes about Chinese maps of Indo-China frontier at press conference, Aug. 7, 1959; met Field Marshal Ayub Khan at Palam airport, Sept. 1, 1959; made statements in Parliament on India's position about the MacMahon line, Sept. 1959, that it is final; visited Afghanistan and Iran, Sept. 14-22, 1959; held talks with the Burmese Prime Minister Ne Win in Delhi, Oct. 8, 1959; issued joint statement with President Eisenhower on need to settle disputes by peaceful means, Dec. 11, 1959; declined Chou En-lai's invitation to a conference in Rangoon, Dec. 21, 1959; attended the Commonwealth Prime Ministers' Conference at London, May 1960; visited Paris, U.A.R., Turkey and Lebanon, May 1960; awarded Hon. degree of Doctor of Literature by Poona Univ., May 1961; visited Pakistan, Sept. 19-23, 1960; signed the Indus Water Treaty, Sept. 19, 1960; attended the U.N. "Summit" General Assembly Session as leader of the Indian delegation, Sept.-Oct. 1960; moved a resolution in the Assembly urging Mr. Eisenhower and Mr. Khruschev to renew their contacts, Oct 1, 1960; addressed the U.N. Gen. Assembly stressing the need for world peace, Oct. 3, 1960; attended the Commonwealth Prime Ministers' Conference, March 1961; attended the summit meeting of the non-aligned nations at Belgrade, Sept. 1961. *Publications: India and the World; The Unity of India; Soviet Russia; Eighteen Months in India*, 1936; *Autobiography*, 1936; *Glimpses of World History*, 1939; *Discovery of India*, 1946; *Independence and After; Jawaharlal Nehru's Speeches*, 1949-53; *A Bunch of Letters*, 1958. *Address:* Prime Minister's House, New Delhi; *Permanent Address:* "Anand Bhavan," Allahabad.

NEHRU, Shrimati Rameshwari, Padma Bhushan (1955), President, Afro-Asian Solidarity Committee of India; Hony. Adviser and President, Central Advisory Board for Rehabilitation, Central Ministry of Rehabilitation. *b.* 1886; *Educ.:* Privately. Edited Women's Magazine *Stridharpan* from 1909; President, All-India Women's Conference, 1940; Vice-President, Kasturba Gandhi National Memorial Trust; Pres., The Assoc. for Moral & Social Hygiene in India; presided over a non-official African-Asian Conference held in New Delhi; led a non-official delegation to the World Conference, against A. & H. Bombs and for disarmament at Tokyo, August 1957; toured China as the leader of a delegation sent by the Afro-Asian Solidarity Committee; Leader, Indian delegation to the Conference at Cairo for the ban of A. & H. Bomb tests, Jan. 1958; Disarmament Congress at Stockholm, July, 1958 and representative of the Disarmament Congress to the Secretary General of the U.N. Assembly at New York in Aug. 1958; awarded Lenin Peace prize, 1961. *Publications: Gandhi is my Star*—Collection of speeches and writings, edited by Prof. Somnath Dhar. *Recreation:* Work. *Address:* 8, Lodi Road Estate, Cornwallis Road, New Delhi.

NEHRU, Ratan Kumar, B.A. (Oxon.), Secy. Gen., Ministry of External Affairs. *b.* Oct. 10, 1902; *Educ.:* Allahabad and Oxford. Joined I.C.S., 1925; Dy. Commsr., M.P.; Deputy Secretary to Govt. of India; Collr. of Customs, Bombay (1936); Commissioner, Central Excises, Northern India (1939-42); Joint Secretary, Supply and Commerce (1942-46); Leader, Indian Delegation to International Trade Conference, London (1946); Representative on U.N. Commissions (1947); Additional Secy., Finance (1947); Chairman, C.B.R. (1947); Secretary, Communications Ministry (1947); Minister in Washington (1948); Ambassador of India, Envoy Extraordinary and Minister Plenipotentiary of India in Sweden, Finland and Denmark till Sept. 1951; was Foreign Secretary, Govt. of India; Ambassador to China, Oct. 1955-May 1958; Indian Ambassador to the U.A.R. and Ambassador Extraordinary & Minister Plenipotentiary to Libya, 1958-60. *Recreations:* Hiking, Tennis. *Clubs:* International Club, Stockholm and Peking, and Gymkhana Club, Delhi; Gezirah Club, Cairo. *Address:* External Affairs Ministry, New Delhi.

NEOG, Dr. Maheswar, B.A. Hons. (English) (Calcutta), M.A. First Class First (Calcutta), D. Phil. (Gauhati), Poet, essayist, art and literary critic; Reader in Postgraduate Deptt. of Assamese Language and Literature, Gauhati Univ., since July 1957. *b.* 1918; *Educ.:* Sibsagar, North Lakhimpur and Jorhat Govt. High English Schools; Gauhati Cotton Coll. Govt. of Assam's nominee on the General Council of the Central Sangeet Natak Akademi; member, the Central Sahitya Akademi; Expert Advisory Cttee. on dances, Central Sangeet Natak Akademi; Secy., Univ. Journal Editorial Board; Music and Dance Research Cttees. of the Assam Academy; Gen. Secy., Assam Sahitya Sabha; Leader, Gauhati Univ. Contingent to all the 1st four Inter-Univ. Youth Festival, New Delhi, 1954-57; Editor and compiler of anthologies of Assamese poetry and folk songs. *Publications: Sankaradeva* (literary biography); *Dawarar Sipare Dhuniya Desh* (stories of Greece & Rome for Children); *Sankaradeva and His Predecessors* (in English); critical editions of old Assamese texts, *Bhaktipradipa, Kirtana-ghosha*, etc.; *Samaj Aru Sanskriti; Asamiya Gitisahitya; The Art of Painting in Assam*; contributes to leading research journals. *Address:* "Vaijayanti," Saraniya, Gauhati (Assam).

NIGAM, Mr. Justice Bishan Narain, M.A., LL.B., Judge, High Court, Allahabad (Lucknow Bench), Lucknow, since 1958. *b.* April 4. 1906; *Educ.:* Govt. High School, Kanpur (1914-22); Christ Church Coll., Kanpur (1922-24); Allahabad Univ. (1924-29); M.A., 1928 and LL.B., 1929; School of Oriental Studies, London (1929-31). Passed the I.C.S. exam. in India with 6th rank, 1929; Asstt. Magistrate, Banaras and Nainital (1931-33); Joint Magistrate, Bahraich, Gonda and Barabanki (1933-37); Dy. Commissioner, Barabanki, 1937; Civil and Sessions Judge, Bareilly, 1937-39; Dist. and Sessions Judge, Farrukhabad, Sitapur, Banaras and Meerut, 1939-49; member: Election Tribunal, 1946-47; U.P., Administrative Tribunal, 1949-50; Dist. and Sessions Judge, Bareilly (1950); Registrar, High Court of Judicature and Member, U.P. Administrative Tribunal, 1951-52; Judicial Commissioner, State of Ajmer (1952-56); Dist. and Sessions Judge, Agra, Lucknow (1956-57); Addl. Judge, High Court (Nov. 1957); Chairman, Mohri Railway Accident Enquiry Commission (1958). *Address:* 39, Butlerganj, Lucknow.

NIJALINGAPPA, Siddavvanahalli, B.A., LL.B., Ex-Chief Minister, Mysore; President, Mysore Pradesh Congress Committee. *b.* Dec. 10, 1902; *Educ.:* Davangere, Chitradurga, Bangalore and Poona. Enrolled as Advocate of the Mysore High Court, 1926; convicted for political offence, 1939; debarred from practice, 1940; political detenu, 1942-44 and 1947; member, Mysore Congress Working Cttee., 1939-51; Pres.: Mysore Pradesh Congress Cttee., 1945-46; K.P.C.C., 1946-54; member, Working Cttee. of Parliamentary Board, Indian National Congress, and also of Working Cttee., I.N.C., 1948-53; Constituent Assembly, and provisional parliament, 1946-52; member: Parliament, 1952-56; Mysore Constituent Assembly, 1948-50; elected Leader, the Vishala Mysore Legislature Congress Party, Oct. 21, 1956; Chief Minister, Mysore State, Nov. 1, 1956–May 8, 1958; Chairman, Working Group on Co-operative Farming, appointed by the Union Govt.; Hon. Chairman, Indian Oil Co., Ltd.; member, Congress Working Cttee., 1960. *Recreations:* Tennis. *Address:* Venkateshpura, Chitradurga.

NIJHAWAN, Bal Raj, B.Sc. (Met.) (Banaras), Ph.D. (Met.) (Sheffield), F.I.M. (Lond.), F.N.I., Padma Shri (Jan. 26, 1958), Director, National Metallurgical Laboratory, Jamshedpur, since March 8, 1957; Ag. Dir., Feb. 1956-March 1957. *b.* Sept. 22, 1915; *Educ.:* Punjab, Banaras and Sheffield (England). Asstt. Director, National Metallurgical Laboratory, Jamshedpur, 1948–53; Dy. Dir., 1953-56; Chairman, Cttee. on 'Indigenous Foundry Moulding Sands' of the Indian Institute of Foundrymen; Vice-Pres., S.M.D.C. of Indian Standards Institution; member: Indian Scientists' delegation to the U.S.S.R., 1958; Steel delegation of the Govt. of India to China and Japan, 1959; on deputation to Europe and the U.K., 1959. *Publications:* About 100 research and technical review papers on metallurgical research and industrial subjects either singly or jointly; author of several patents on metallurgical subjects including nickel-free austenitic chromium-manganese and nitrogen stainless steels. *Address:* National Metallurgical Laboratory, Jamshedpur.

NIMBKAR, Mrs. Kamala Vishnu, B.A. (Columbia), F.T.C. (Froebel Union—London), O.T.R. (American Occupational Therapy Association), J.P., and Hon. Presidency Magistrate, Social Worker in the field of Occupational Therapy and Rehabilitation of the Handicapped. *b.* Jan. 5, 1900; *Educ.:* George School (Quaker Prep. School), Drexel Institute (Phila.); Barnard Coll. of Columbia Univ.; Selly Oak Coll. (Birmingham, Eng.); Phila. School of Occupational Therapy. Member: National Advisory Council for the Education of the Handicapped, Ministry of Education, Govt. of India, since 1955; Standing Cttee., Cttee. for Orthopaedically Handicapped and Cttee. for Mentally defective, since 1955; Advisor to the Govt. of Bombay, Local Self Govt. and Health Deptt. for Occupational Therapy and Rehabilitation; also Social Welfare Directorate since 1958; Editor: *Indian Journal of Occupational Therapy*, 1955-59; Chairman, The Society for the Welfare of the Physically Handicapped, Poona, 1958-60; Chairman, Library Cttee., Khar Residents' Assoc.—Kamalabai V. Nimbkar Pustakalaya, Khar, since 1947; Representative and delegate of the Govt. of India, Ministry of Health, to Seminar on

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Rehabilitation for Asia and the Far East, Solo, Indonesia, Aug.-Sept. 1957. *Publications: Service for the Disabled and Handicapped; Occupational Therapy for Medical Conditions* and *What the Doctor should expect of an Occupational Therapist. Address:* The Amerind, 15th Road, Khar, Bombay 52.

NIMBKAR, Vishnu, B.Sc., M.E. (N. Y. Univ.), M.A.S.M.E. (U.S.A.), A.M.I.Mech.E. (London), A.I.Loco.E. (London). *b.* June 25, 1900; *Educ.:* Deccan Coll., Poona, New York Univ., N.Y., U.S.A. and Columbia Univ., N.Y., U.S.A. Employed in Foreign Trade Department, Chicago Pneumatic Tool Co., New York, 1927-29; Asstt. Engineer, Consolidated Pneumatic Tool Co. Ltd., Fraseburgh, Scotland, 1929; Service Engineer, Consolidated Pneumatic Tool Co. Ltd., Bombay, 1929-32; Manager for Bombay, 1932-34; Acting General Manager for India, 1939-42 and apptd. Resident General Manager, 1943; General Manager, 1945; General Manager, India & Pakistan, 1948-57; retired, Oct. 1, 1957; Managing Director, Consolidated Pneumatic Tools Co. (India) Pvt. Ltd., 1957-58; Justice of the Peace and Hon. Presidency Magistrate, 1958; Director: Mineral Mining Co. Pvt. Ltd., Madras; Bombay Potteries and Tiles Co., Ltd., Bombay; Korula Rubber Co., Pvt. Ltd., Bombay; Ogale Glass Works Ltd., Ogalewadi; Fuel Injections Ltd., Bombay; Kirloskar Oil Engines Ltd., Poona; Southern Standards Ltd., Madras; Commercial Credit Corp. (1943) Pvt. Ltd.; Mysore Machinery Manufactures Ltd., Bangalore; New Standard Engineering Co. Ltd.; Standard Batteries Ltd.; Pulco Foundaries Pvt. Ltd., Belgaum; Acme Pig Iron & Centrifugal Pipe Works Ltd.; Sardesai Bros. Ltd.; Kaveri Engineers Pvt. Ltd.; Northern Mineral Pvt. Ltd., Gurgeon; Managing Director, Hindustan Mineral Products Pvt. Ltd., Bombay; Chairman, Machine Tool Development Council, Ministry of Commerce & Industry. *Clubs:* C.C.I., Willingdon and National Sports, Bombay; Roshanara, New Delhi; Mysore Sports Club, Mysore; Century Club, Bangalore; Calcutta Club, Calcutta. *Hobbies:* Gardening, small-scale industries, educational, medical and social work. *Address:* 'Amerind', 15th Road, Khar, Bombay 52.

NOEL-TOD, Geoffrey Noel, M.A. (Cantab.), O.B.E. (Mily), Chairman: The Travancore Sugars and Chemicals Ltd. *b.* Sept. 8, 1908; *Educ.:* Uppingham School; Cambridge Univ., England. United Africa Co., Ltd., Nigeria, 1930-31; Metropolitan Police, London, 1932; Parry & Co., Ltd., Madras, 1933-60; Chairman: 1955-60; served in Indian Army, First Punjab Regiment, 1940-45, reaching rank of Lt.-Col.; awarded the O.B.E. for services in Burma; Vice-Chairman and Managing Director, East India Distilleries & Sugar Factories Ltd. since 1956; Director: The Deccan Sugar & Abkhari Co., Ltd.; Cauvery Sugars & Chemicals Ltd.; Parrys Confectionery Ltd. and several other companies. *Recreations:* Golf, Fishing, Bridge, Philately. *Clubs:* Madras Club; East India and Sports Club, London. *Address:* c/o Parry & Co., Ltd., "Dare House", Madras 1.

NORGAY, Sherpa Tenzing, Padma Bhushan (1959), Mountaineer, Director, Himalayan Institute of Mountaineering, Darjeeling. *b.* 1914, in Solo Khumboo village, Eastern Nepal. Participated in expeditions; has taken part in more Everest expeditions than any other person; first visited Everest as a youth of 21 when he accompanied Shipton's Reconnaissance Party, 1935; participated in the expedition under Ruttledge, 1936; reached a height of 28,210 ft. with Raymond Lambert, May 28, 1952; conquered the summit of Mount Everest with the New Zealand mountaineer Sir Edmund Hillary under the leadership of Sir John Hunt of the British Expedition, May 29, 1953; presented by the King of Nepal with the Star of Nepal 1st Class, June 1953; awarded George Medal by Queen Elizabeth; awarded Iran's highest sports medal by the Shah of Iran; presented with a special gold medal by Dr. Rajendra Prasad, President of India for extraordinary courage and heroism in the Everest Expedition; awarded the U. S. Hubbard Medal, the medal of the National Geographical Society of America, March 16, 1954. *Address:* Darjeeling, West Bengal.

OAK, Mr. Justice Vidyadhar Govind, B.Sc. (Hons.), I.C.S., Judge, High Court, Allahabad, since March 1955. *b.* May 18, 1909; *Educ.:* Jaipur, Indore, Allahabad; passed B.Sc. (Hons.), 1929. Joined Indian Civil Service, 1931; served in U.P. as Joint Magistrate and as District Judge. *Recreations:* Music, Bridge. *Address:* High Court, Allahabad.

ODEDRA, Maldevji Mandlikji, B.A., LL.B., Deputy Minister for Finance, since May 1, 1960 and also Labour, since April 1961, Gujarat State. *b.* 1918; *Educ.:* Porbandar, Bhavnagar and Ahmedabad. Practised as an advocate at Porbandar, Bombay and Rajkot; active social worker; elected M.L.A., Saurashtra, 1951-52 general elections from Porbandar; was member, Estimates Cttee., Public Accounts Cttee. and various other Cttees. for a long time; member, Indian Delegation to the Agricultural Conference of the U.N.O., Lahore; was member, Divisional Development Council, Rajkot Division; takes keen interest in economic development and planning; was Chairman, Planning Cttee., Junagadh Dist. *Address:* Sachivalaya, Ahmedabad 15.

OJHA, Jayantilal Manishanker, Chairman, Jayantilal Ojha & Co. Private Ltd. *b.* May 3, 1907, at Anjar, Kutch; *Educ.:* High School education, Ahmedabad; while a student, took part in Congress movement and worked at Sabarmati Ashram. Served on E.I. Rly. Advisory Cttee., Coal Wagon Supply Cttee., Soft Coke Cess Cttee., Indian Colliery Owners Assoc., Jt. Working Cttee. of Coal Assoc., Indian Mining Federation, Bharat Chamber of Commerce, Traffic Advisory Cttee., Indian Council of Foreign Affairs, Indian School of Mines and Applied Geology; Mg. Director, Indian Crucibles Private Ltd.; Director: Gourangdi Collieries Ltd., Bhurangya Coal Co. Ltd., Khas Shampore Coal Co. Ltd., New Joyrampur Coal Co. Ltd., Sarpi Kajora Coal Mines Private Ltd., Jayantilal & Sons Private Ltd., Jatashanker & Co. Private Ltd.; Trustee: Shri Bhowanipur Gujrati Balmandir, Shri Mahaluxmi Asrit Shrimali Brahman Kelavani Mandal, Ahmedabad, Tarakeswar Estate Managing Cttee., The New Education Trust, Ahmedabad; Life Member: Cricket Assoc. of Bengal. *Clubs:* South Calcutta Club Ltd., Calcutta Club Ltd., Rotary Club of Howrah. *Address:* 81, Stephen House, Dalhousie Square East, Calcutta 1.

OLAV, His Excellency Hans, Grand Cross Finland's Lion Order (1958), Comdr., Sweden's North Star (1952), Denmark's Dannebrog (1951), Knight of St. Olav (1939), medal of St. Olav (1939), Norwegian Ambassador in India, since 1958; also accredited as Norway's Envoy to Ceylon and Burma. *b.* May 12, 1903; *Educ.:* Stavanger Junior Coll. and Oslo Univ. Journalist, 1926-40; Roving Correspondent, foreign countries; Editor, *Nordisk Tidende*, New York; Press Attache with King Olav, 1939; Chief of Norway's Information Service, Washington, D.C., 1940; Counsellor of Embassy in Washington, 1942-49; Director of Deptt. of Public Affairs, Foreign Ministry, Oslo, 1949-53; Minister to Finland, 1953; Ambassador to Finland, 1954-58. *Publications: With the Crown Prince in America*, 1939; several documentary books on Norway during the war, 1940-45. *Recreations:* Painting, Reading, Idling, Mountaineering. *Clubs:* Delhi Golf Club. *Address:* Royal Norwegian Embassy, New Delhi.

OZA, Keshavlal Karsanji, B.A. (Hons.), LL.B., Ex-Deputy Collector (Gharkhed), Zalawad District. *b.* December 9, 1895; *Educ.:* Wankaner High School; Bahauddin College, Junagadh; and Government Law School, Bombay. Practised as a Pleader in Junagadh State, 1921-22; Sarnyayadhish, Lakhtar State, 1922-27; Treasury Officer, Wankaner State, 1927-31 and 1941; Dewan, Lathi State, 1931-38; Dewan, Mansa State (Mahikantha), 1938-41; Dewan, Vala State, 1943-48; was elected President, Executive Committee of the 11th "Gujarati Sahitya Parishad" convened at Lathi under the Presidentship of late Dewan Bahadur Jhaveri Krishnalal Mohanlal, retired Chief Judge, Court of Small Causes, Bombay; on integration of Kathiawar States into the United State of Saurashtra, was first appointed as Officer-in-Charge, Muli and Sayla; District Treasury Officer, Zalawad and Dy. Collector (Gharkhed), Zalawad; retired from Govt. service, March 2, 1953. *Address:* Valabhipur, Bhavnagar Dist., Gujarat State.

PAI, Ammembal Vittal, B.A., I.C.S., C.I.E. (1946), O.B.E. (1939), Secretary to the President of India, since Jan. 15, 1958. *b.* Oct. 11, 1901; *Educ.:* Presy. Coll., Madras and Wadham Coll., Oxford. Asstt. Collector, North Arcot Dt., Madras, 1926-27; Sub-Collector, Palghat and Kumbakonam, 1928-30; Under-Secy., Govt. of Madras, Public Works and Labour Depts., 1931-34; Addl. Dt. Mgte., Tanjore, 1936; Agent of the Govt. of India in Ceylon, 1936-40; Dy. Secy. to the Govt. of India, Dept. of Indians Overseas, 1941-44; nominated Official member of the Council of State, 1942, and nominated Official member of the Leg. Assembly, 1943; Joint Secy. to Govt. of India, Commonwealth Relations Dept., and Controller-Genl. of Emigration, 1944-47; Minister-Counsellor, Indian Embassy, Moscow, 1947-48; Principal Private Secy. to the Prime Minister of India, 1948-50; Secy., Ministry of Communications, 1950-53; Secy., Ministry of Home Affairs, March 1953-Jan. 1958. *Address:* Rashtrapati Bhavan, New Delhi.

PAI, Mangalore Govind, Kannada Writer and historical researcher. *b.* March 23, 1883; *Educ.:* Primary School, Manjeshwar; Basel Mission High School and Kanara High School, Mangalore; Govt. Coll., Mangalore; Christian Coll., Madras. Changed the method of writing verses in Kannada by introducing European sonnet and blank verse; coined new words by introducing foreign words in Kannada language; nominated Kannada Poet Laureate, 1948-53. *Publications:* Books: *Gili-rindu*, a collection of verses and lyrics, containing a verse translation of the *Rubaiyat* of Omar Khayyam (1930); *Jina Gommata Stuti* of 35 verses (1928); *Golgotha*, or the last day of Jesus Christ (1936); *Hebberalu* (or the Thumb), a one Act verse drama (1946); *Vaishakhi* or the last day of Buddha (1947). *Address:* Manjeshwar, South India.

PAI, Mangalore Purushotham, B.A. (Madras), B.A. (Hons.) (London), I.C.S., Chief Secretary, Andhra Pradesh Govt., since May 20, 1957. *b.* December 1, 1906; *Educ.:* Madras, London and Oxford. Controller of Coffee, Indian Coffee Board, 1940-42; Provincial Textile Commissioner, Madras, 1942; Controller of Supplies, S. I. Circle, Govt. of India, 1942-45; Joint Secy., Ministry of Industry & Supply, 1946-49; Jt.

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Secy., Ministry of Works and Supply, 1949-52; officiated as Managing Dir., Sindri Fertilisers and Chemicals Ltd., April-July 1952 and Feb.-Sept. 1953; Jt. Secy., Ministry of Production, Govt. of India, 1952-53; Member, Board of Revenue, Andhra, Oct. 1953 to Oct. 1956, and of Andhra Pradesh, 1st Nov. 1956 to May 19, 1957. *Clubs:* Delhi Gymkhana and Secunderabad Club. *Address:* Hyderabad.

PAI, Nath, B.A., Bar-at-Law, M.P. (Lok Sabha), Political worker. *b.* Sept. 1924; *Educ.:* Vengurla, Belgaum, Poona and London. Courted jail in the Freedom Movement; worked in the Congress Youth Movement and the Student Movement: won Inter-collegiate and All India Elocution Competition, 1940 and 1941; arrested for P. & T. strike, 1946; joined the first Goa Freedom Movement, 1946; founded the Indian Socialist Group in London; elected Pres.: London Majlis, 1950 & 1951; Socialist Youth International at Copenhagen, 1954; worked in the 2nd Goa Movement, 1955; elected to the Lok Sabha, 1957; led Central Govt. employees in the 1957 strike; Joined the P.S.P. National Executive, 1957; represented India at Warsaw I.P.U. Conference. *Address:* 29, Shah Nagar, New Delhi; Sir J. J. School of Art Bungalow, Bombay 1.

PAKVASA, Mangaldas Manchharam, Ex-Vice-Chairman, Central Board of Directors, State Bank of India; Acting Governor, Bombay, Dec. 1954-March 1955; Acting Governor of Mysore, April to June 1960-1961. *b.* May 7, 1882; *Educ.:* Elphinstone High School and Elphinstone College, Bombay; some time Dakshina Fellow, Elphinstone College, and won Dhirajlal Mathuradas Scholarship in LL.B. Solicitor for thirty years; imprisoned several times in the freedom movement; went on a world tour and visited Italy, Switzerland, France, Belgium, Germany, Austria, Hungary, England, America, Japan and China, 1935; was the Chairman of Bombay City Adult Education Cttee., Bombay Historical Society; President: Bombay Legislative Council from July 1937 to 14th August 1947; Bharat Scouts & Guides Assoc.; was Governor of M.P., 1947-52; acted as Governor of Mysore, 1959. *Address:* 29, Doongersey Road, Malabar Hill, Bombay 6.

PAL, Benjamin Peary, M.Sc., Ph.D. (Cantab.), F.L.S., F.B.S., F.N.I. (Padma Shri, 1958), Director, Indian Agricultural Research Institute, New Delhi, since 1950. *b.* May 26, 1906; *Educ.:* Rangoon University (1924-29); Cambridge Univ., Downing College (1929-32). President, Botany Section of the Indian Science Congress (1945-46); Pres., Indian Botanical Society, 1950; Vice-President, All-India Fine Arts and Crafts Society; Leader, Indian Delegation to the VIIIth International Congress of Botany in Paris, 1954; Pres., Agricultural Sciences Section, Indian Science Congress, 1954; Official Delegate to the International Genetics Symposia, Japan, 1956; Vice-Pres.: Horticultural Society of India; Delhi Agri-Horticultural Society; Rose Society of India. *Publications:* About 120 papers on plant breeding and genetics of crop plants, *Agricultural Botany* for which he was awarded Rafi Ahmed Kidwai memorial prize, 1960. *Address:* New Delhi.

PAL, Dr. Radhabinod, M.A., LL.D. (Calcutta), Padmavibhushan (1959), Jurist; National Professor of Jurisprudence. *b.* Jan. 1886; *Educ.:* Presidency Coll., Calcutta. Calcutta Univ. Prof. of Mathematics, Anandamohan Coll., Mymensingh, 1911-20; joined Calcutta Bar, 1921; Prof. of Law, Univ. Law Coll., Calcutta, 1923-36; Tagore Prof. of Law, 1925, 1930 and 1938; Legal Adviser to Govt. of India on Income-tax matters in Bengal, 1927-41; Jt. Pres., International Academy of Comparative Law, Hague, 1937; Member, International Law Assoc. (U.K.), since 1937; Judge, High Court, Calcutta, Jan. 1941; Vice-Chancellor, Calcutta Univ., 1944-46; Member, International Military Tribunal for the trial of major war criminals of the Far East (Tokyo), 1946-48; dissentient judgment in the above trial; member, 1953, 2nd Vice-Chairman, 1954, 1st Vice-Chairman, 1957 and Chairman, 1958, International Law Commission, U.N. *Publications: Law of Limitation*, 1931; *Law of Primogeniture with special reference to India*, 1925; *Hindu Philosophy of Law in the Vedic Age*, 1924; *Law of the Income Tax*, 1939; *Crimes in International Relations*, 1955; *History of Hindu Law in the Vedic Age*, 1958. *Address:* P-101, Block F, N. R. Avenue, New Alipore, Calcutta 33.

PALASPAGAR, Dagadu Zangoji, B.A., LL.B. (Nag. Univ.), Minister for Urban Development, Maharashtra, since May 1, 1960. *b.* May 10, 1920, at Bhamod, Dist. Amravati; *Educ.:* Govt. Marathi High School, Amravati, 1935-38; Morris Coll., Nagpur, 1938-42; passed B.A., 1942; Univ. Coll. of Law, Nagpur, 1942-44; passed LL.B., 1944. Practised law at Akola, from 1944; Advocate and member, Nagpur High Court Bar, 1958; member, Janapada Sabha, Akola, 1948-53; elected to C.P. & Berar Legislature in bye-election on Congress ticket, 1949; re-elected to M.P. Legislature, 1952; again elected to Bombay State Legislature, 1956; Pres., Vidarbha Pradesh Depressed Classes League, 1949-60; Chairman, Januji Boarding, Akola, 1954-60; Secy., Dist. Congress Cttee., Akola, 1959-60. *Address:* Sachivalaya, Bombay.

PALLAMRAJU, M., President, Andhra Pradesh P.C.C., since Dec. 1960. *b.* April 25, 1899; *Educ.:* Coimbatore Agriculture Coll., Coimbatore. Pres., East Godavary District Board, 1929; Member, Madras Assembly, 1937-39 and 1946-52; Member of Andhra Assembly from March 1955; Minister for Forests, Andhra Pradesh, Jan.-Dec. 1960. *Address:* Somajiguda, Hyderabad.

PALSIKAR, Shankar Balvant, G.D. Art (Painting), Painter; Lecturer, Deptt. of Fine Art, Sir J. J. School of Art, Bombay. *b.* May 17, 1916; *Educ.:* Sir J. J. School of Art, Bombay; took G.D. Art (Painting), 1947. Awarded gold medal of Bombay Art Society and Academy of Fine Art, Calcutta, 1950; exhibited paintings in all the leading exhibitions in India and abroad, Russia, America, Japan, England. *Address:* B-9, Officers' Quarters, Bldg. No. 13, Haji Ali Park, Bombay 11.

PANDEY, Mr. Justice Kanhaiyalal, B.Sc., LL.B., Judge, High Court of Madhya Pradesh, Jabalpur, since Sept. 26, 1958. *b.* Sept. 20, 1909; *Educ.:* Bilaspur, Nagpur, Jabalpur and Allahabad, B.Sc., 1930, LL.B., 1932, placed 2nd in order of merit in Allahabad Univ. Sub-Judge, Oct. 16, 1934-Nov. 1947; Addl. Dist. & Sessions Judge, Nov. 17, 1947-54; Dist. & Sessions Judge, June 20, 1954-56; Legal Remembrancer and Secy. to the Govt. of Madhya Pradesh in the Law Deptt., Dec. 2, 1957. *Address:* Civil Lines, Jabalpur.

PANDEYA, Gayanacharya Avinash Chandra, M.A. (I), B.Com., J. D., Musicologist and Danceologist. *b.* Aug. 26, 1923; *Educ.:* Univs. of Lucknow, Punjab (old) and Agra; Disciple of the late Ustad Allabande Khan of Alwar (in music) and Guru Shambhu Maharaj, Padma Shri and Guru Gopinath (in dancing). Culture study tour of East Indies, etc., 1938-39; Editor, *Music & Dancing*, 1941-42; Staff and Special Correspondent of *The Hindustan Times, The Amrita Bazar Patrika, U.P.I.*, etc., 1943-46; Delegate, All-India Writers Conference, 1944 and 1954; Delegate, All-India Oriental Conference, 1957; participant delegate to British Public Relations Conference, Brighton, 1960; Extension lecturer, London Univ. Mural Studies, 1960-61; Rapporteur, Second World Congress of Public Relations, Venice, 1961 (at which was awarded "Diploma di Merito"). *Publications: The Art of Kathakali, Rag Darshan (I)* co-edited; *Bharatiya Nrityakala, Dhru(va)pad, The Art of Bharat Nritya (Natwari)*, etc. *Address:* 16E/17, East Patel Nagar, New Delhi 12.

PANDIT, Chintaman Govind, M.B.B.S. (Bombay), Ph.D. (Lond.), D.P.H. (Lond.), D.T.M. (Lond.), Padma Shri (1956), O.B.E. (1943); Director, Indian Council of Medical Research, New Delhi, since 1948. *b.* July 25, 1895; *Educ.:* Bombay & London. Director, Medical Research Institute and Pasteur Institute, Shillong, 1933, 1935 and 1940; Pres., Medical Section of the Indian Science Congress, 1942; Member: WHO/OIHP/Expert Groups, Cholera, Smallpox, Trachoma; W.H.O. Expert Group, Cholera, Rabies; awarded Minto Medal for Medical Research, 1937; Lady Brahmachari Reader in Medicine, Calcutta Univ., 1957; member: Indian Assoc. of Leprologists, Indian Assoc. of Pathologists, Indian Public Health Assoc., Fellow of the National Institute of Sciences, India. *Publications:* Over 70 original publications on: Plague, Cholera, Virus Diseases, Fluorosis, etc. *Clubs:* Delhi Gymkhana Club. *Address:* Indian Council of Medical Research, Medical Enclave, P.O. Box 494, New Delhi.

PANDIT, Srimati Vijaya Lakshmi, Ex-High Commissioner for India in London and concurrently India's Ambassador to Ireland and Spain; Ex-Ambassador of India in U.S.A. and U.S.S.R. *b.* 18th August 1900; *Educ.:* Privately by tutors and governesses. Elected to U.P. Assembly, 1937; appointed Minister of Local Self-Government and Public Health in U.P. Congress Government; Pres., All-India Women's Conference, 1940-42; Vice-Pres., Women's International League for Peace and Freedom; attended Pacific Relations Conference at Hot Springs, Virginia, U.S.A., as leader of Indian delegation appointed by the Indian Council of World Affairs; toured extensively in U.S.A.; presented India's case in the U.N. Conference at San Francisco in an unofficial capacity to the world as spokesman for the India League of America and the National Committee for India's Freedom; Leader of the Indian delegation to the U.N.O., 1947 and 1948 Peace Conference; imprisoned three times in connection with Congress Civil Disobedience Movements; returned unopposed to U.P. Assembly from the old constituency; appointed Minister for second time by Congress Government holding portfolios of Local Self-Government and Public Health; Indian Ambassador in U.S.S.R., 1947-49; Ambassador in U.S.A., 1949-52; President, U.N. General Assembly, 1953-54. Has received ten honorary doctorates from Indian and foreign universities and a number of awards for work in the international fields. *Address:* C/o External Affairs Ministry, New Delhi.

PANIGRAHI, Kalindi Charan, B.A. (Patna). Oriya Novelist; Programme Producer, spoken words, A.I.R., Cuttack. *b.* 1903; *Educ.:* Ravenshaw Coll., Cuttack; B.A., Patna Univ., 1925. Editor, *Mayurbhanj Chronicle* and *Bhanja Pradeep*, English and Oriya journals; Representative, *The Statesman* and P.T.I.; Publicity Officer, Orissa Govt. and Eastern States Union (Orissa); Organiser, the Sabuj (Green) Group of writers; Pres. of several literary and cultural Assocs.; is a poet, playwright, novelist, essayist and short story writer, among the progressive group of modern times; writer of children's literature. *Publications:* Poetry: *Manenahin; Kyanika Satya* etc.; Short Story: *Sesha Rashmi*, etc. Novels: *Matir Manisha; Amara Chita*, etc. Essays: *Sahitya Samachar*, etc. Dramas: *Piyadasi; Padmini*, etc. Biography: *Bhaktakabi Madhusudan*. *Address:* 'Swapnapuri,' Pithapur Road, Cuttack-1, Orissa.

PANIKER, K. C. S., Artist, Principal, Govt. School of Arts & Crafts, Madras. *b.* May 30, 1911; *Educ.:* Madras Christian College; graduate of the Madras School of Arts & Crafts. Joined the staff of the School as teacher, 1941; exhibited widely in India and abroad with distinction; one-man shows held at India House, London and Paris, 1954; represented at The National Art Gallery, New Delhi,

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The National Art Gallery, Madras and various private collections in India & Europe; member: Executive Board of the Lalit Kala Akademi as one of the nine eminent artists, General Council, Lalit Kala Akademi. *Address:* Madras 3.

PANIKKAR, Kavalam Madhava, Vice-Chancellor, Jammu & Kashmir University; Ex-M.P. (Rajya Sabha), Ex-Indian Ambassador in France. *b.* June 3, 1895; *Educ.:* Madras & Oxford, Scholar of Christ Church, Bar-at-Law (Middle Temple). Editor, *The Hindustan Times*; Secretary to the Chancellor, Chamber of Princes; Secretary, Indian States Delegation to the Round Table Conference; member of Indian Delegation to U.N. General Assembly Session, 1947; Vice-President, Royal India Society, London; Pres., Kerala Academy of Letters; Ambassador in China, 1948-52; Ambassador in Egypt, Sept. 1952-Dec. 1953; member, States Reorganisation Commission, 1954-56. *Publications: Indian States and Government of India; Interstatal Law; Portuguese in Malabar; Dutch in Malabar; Caste and Democracy; Hinduism and the Modern World; Kingship in India; Education Reconstruction; India and the Indian Ocean; Future of South East Asia; The Basis of Indo-British Treaty; Survey of Indian History; Asia and Western Dominance; In Two Chinas; Geographical Factors in Indian History, India and China; The Problem of Indian Defence*; etc.; has also contributed to *The Times, The Manchester Guardian*, etc. and published novels, plays and poems in Malayalam. *Address:* Srinagar.

PANJWANI, Ram Partabrai, B.A., Sindhi novelist, dramatist, poet and singer. Chairman, Board of Studies in Sindhi, Urdu and Kannada; Prof. and Head of the Deptt. of Sindhi, Jai Hind Coll., Bombay, since 1948. *b.* Nov. 20, 1911; *Educ.:* D. J. Sind Coll., Karachi; Graduated, 1935. Exponent of folklore of Sind; has written dialogues for Sindhi pictures 'Abana and Rai Dyach'; member: Academic Council (Univ. of Bombay), since 1954; Sindhi Advisory Board, Sahitya Akademi, since 1957. *Publications:* Original Novels: *Qaidi, Sharmila, Latifa*, etc. Plays: *Sindh Ja Sat Natak* (Dramatised version of stories of Shah Latif); *Purab Joti* (Budha) and *Maya Jo Moh*; Translations: *Padma* (Eternal City by Hall Caine); *Dost Kian Kajan and Dilyun Kian Chhikjan*; (How to win Friends and influence People by Carnegie). Essays: *Adabi Ghuncho*. Compilations: *Shirin Shair, Chund Kalam, Sindh Ji Sookhri* and *Sika Ji Soghat*, etc. *Address:* 8, Qureshi Mahal, Bombay 16.

PANT, Apasaheb Balasaheb, B.A. (Bombay), M.A. (Oxon.), Bar-at-Law, Padmashri (Aug. 15, 1954), Political Officer in Sikkim and Bhutan with control over Indian missions in Tibet since Feb. 1955. *b.* Sept. 11, 1912, of the family of the Pratinidhis of Aundh; *Educ.:* Deccan Coll., Poona, Oxford (B.N.C.); Lincoln's Inn. Served as Education Minister, Aundh State; first elected Prime Minister, Aundh State, for six years; was Minister for four years till the State was merged into Bombay State, March 1948; member, A.I.C.C., 1948; an alternate delegate at U.N., 1951 and 1952; Commissioner for the Govt. of India in British East Africa, July 1948-Feb. 1954; apptd. Consul-General for Belgian Congo & Ruanda-Urundi, Nov. 1950 & Commissioner for Central Africa and Nyasaland, Dec. 1950; Officer on Special Duty, External Affairs Ministry, 1954-55. *Address:* Amrai Camp, Deccan Gymkhana, Poona 4; C/o External Affairs Ministry, New Delhi; Residency, Gangtok.

PANT, Sumitranandan, Padma Bhushan (1961), Hindi Poet; Sahitya Salahkar, All India Radio. *b.* 1900 at Kosani in Almora Dist.; *Educ.:* Early education at Almora; Matriculated from Banaras; Allahabad Univ. Made an extensive study of Sanskrit, English, Bengali and Hindi literature; Shelley and Tagore were among the early influences in moulding his poetic career; one of the principal architects of the Chhayavad (romantic) school of poetry in Hindi; gave a new trend to poetic writing in Hindi; became Chief Producer, Hindi (Spoken Word) programmes, A.I.R., 1955. *Publications: Vina; Granthi; Jyotsna; Yugvani; Pallava; Gunjan; Gramya; Swarnadhooli; Swarna Kirana; Yug Path; Uttara; Rajat Shikhar; Atima; Shilpi; Sauvarna; Vani. Address:* 18/B-7, K. G. Marg, Allahabad.

PARANJPYE, Dr. Sir Raghunath Purushottam, M.A. (Cantab.), B.Sc. (Bombay), D.Sc. (Calcutta), D.Litt. (Poona), Ex-Vice-Chancellor, Poona University. *b.* Murdi, 16th Feb. 1876; *Educ.:* Maratha H. S., Bombay; Fergusson Coll., Poona; St. John's Coll., Cambridge (Fell.), 1901-07, and Hon. Fellow, 1945; Paris and Göttingen; Govt. of India Scholar; bracketed Senior Wrangler at Cambridge, 1899. Principal and Prof. of Math., Fergusson Coll., Poona, 1902–24; has taken prominent part in all social, political and educational movments in Bombay State; Vice-Chancellor of Indian Women's Univ., 1916-20; M.L.C., Bombay, 1913-23, 1927; Kaisar-i-Hind Gold Medal in 1916; Knighted, 1942; Minister, Bombay Govt. 1921-23, 1927; member, Indian Taxation Inquiry Cttee., 1924-25; India Council, 1927-32; Vice-Chancellor, Lucknow Univ. 1932-38; President, National Liberal Federation, 1924, 1939; High Commissioner for India in Australia, 1944-47. *Publications: Gokhale, Karve, The Crux of the Indian Problem, Rationalism in Practice. Address:* Poona 4.

PARECATTIL, Most Rev. Dr. Joseph, B.A., D.D., Archbishop of Ernakulam. *b.* April 1, 1912, at Kidangoor, Ankamaly; *Educ.:* Papal Seminary, Kandy, Ceylon. Ordained priest, 1939; worked as Assistant and Vicar in some parishes; Editor, *Satyadeepam* for 6 years; consecrated Titular Bishop of Arethusa and Auxiliary to the Archbishop of Ernakulam by His Eminence Cardinal Tisserant, Nov. 30, 1953. Installed as Archbishop, January 9, 1957; invested with the Sacred Pallium by H. H. Pope Pius XII at Castelgandolfo, Aug. 4, 1959. *Address:* Archbishop's House, Ernakulam-1.

PAREKH, Hasmukh Thakordas, B.A., B.Sc. (Econ.) (London), General Manager, The Industrial Credit and Investment Corporation of India Ltd., since 1956. *b.* March 10, 1911; *Educ.:* Wilson Coll., Bombay; London School of Economics, London. Part-time Lecturer in Economics, St. Xavier's Coll., Bombay, 1937-39; with Messrs. Harkisondass Lukhmidass, Share & Stock Brokers, Bombay, 1936-56; Director: Bombay Potteries & Tiles Ltd., Bombay State Co-operative Bank Ltd., since 1955; member, Investment Committee, Life Insurance Corporation of India, 1956–59. *Publications: The Bombay Money Market* (1953 by Oxford Univ. Press); *The Future of Joint Stock Enterprise in India* (1958, by Jaico Publishing House). *Address:* Kastur Nivas No. 1, French Road, Chowpatty, Bombay-7.

PARIJA, Dr. Pran Krushna, O.B.E., M.A. (Cantab), D.Sc., I.E.S. (Retd.), F.N.I., Padma Bhushan (1955), Vice-Chancellor, Utkal Univ., since 1955. *b.* April 1, 1891; *Educ.:* Ravenshaw Coll., Cuttack; Presidency Coll., Calcutta; Christ's Coll., Cambridge; Cambridge Univ. Professor of Botany, Ravenshaw Coll., 1921; elected Fellow, Patna Univ., 1925-43; member, Syndicate of Patna Univ. for a number of years; nominated to the Bihar & Orissa Leg. Assembly in connection with the Amendment of the Patna Univ. Act; elected Foundation Fellow, National Institute of Sciences of India, 1934; Principal, Ravenshaw Coll., Cuttack, 1938; First Vice-Chancellor, Utkal Univ., 1943; Director of Agriculture, Orissa, 1945; Pro-Vice-Chancellor, Banaras Hindu Univ., 1949; Pro-Chancellor, Utkal Univ., 1951; elected M.L.A., Orissa, 1952; member, Official Language Commission, India, 1955; elected Pres., Indian Science Congress for 1960. *Address:* 10, Cantonment Road, Cuttack-1.

PARIKH, Rasiklal Umedchand, B.Com. (Bom.), B.Com. (Lond.), Minister for Lands, Home, Accommodation Control and Ports, Gujarat State, since May 1, 1960. *b.* May 18, 1910; *Educ.:* Jaswantsinhji High School, Limbdi; Fergusson College, Poona (1926-27); Sydenham College of Commerce and Economics, Bombay; London School of Economics, London. Courted imprisonment thrice during Satyagraha movement, in 1930, 1933 and 1942; was Secretary, Kathiawar Political Conference; Member, Constituent Assembly of India, 1948; joined the first Saurashtra Constituent Assembly, 1949; elected Member, Lok Sabha, Feb. 1952; resigned and elected to Saurashtra Leg. Assembly; Minister, Home, Services, P.W.D., Medical and Health, Information, Printing Press and Stationery and Communications Deptt.; Chief Minister, Saurashtra, Dec. 20, 1954-Oct. 31, 1956; Min. for Revenue, Bombay State, 1957-60. *Address:* Sachivalaya, Ahmedabad 15.

PARISH, Patrick Edward Gladstone Woodbine, O.B.E., Chairman & Managing Director, Gillanders Arbuthnot & Co. Ltd.; Chairman, Indian Copper Corporation Ltd., and other Companies. *b.* March 26, 1913; *Educ.:* Eton and R.M.C., Sandhurst. Joined Ogilvy Gillanders & Co., London, 1933; joined Gillanders Arbuthnot & Co. Ltd., Calcutta, 1934; Managing Director, 1950; served War, Welsh Guards in Europe, 1939-45; member, Bengal Leg. Assembly, 1946-47; Chairman, Calcutta Branch, United Kingdom Citizens Assoc., 1950-54-55; Chairman, East India Charitable Trust; Steward, Royal Calcutta Turf Club, 1958-60. *Recreations:* Racing, Shooting. *Clubs:* Bath (London); Royal Calcutta Turf Club, Bengal Club, Tollygunge (Calcutta). *Address:* 1/1, Old Ballygunge Road, Calcutta.

PARKER, Ernest, O.B.E., C.B.E. (1961), Chartered Accountant, Director, I.C.I. (India) Private Ltd., President: United Kingdom Citizens' Association, 1960; Bombay Chamber of Commerce, 1957-58. *b.* Sept. 27, 1909; *Educ.:* St. Lawrence, Ramsgate. *Clubs:* Royal Bombay Yacht Club; Bombay Gymkhana; Willingdon Sports Club. *Address:* 14, Pali Hill, Bandra.

PARTHASARATHI, G., B.A. (Hons.) (Madras), B.A. (Oxon.), Barrister-at-Law, has been Indian Ambassador to China, since June 1958. *b.* July 7, 1912; *Educ.:* Presidency Coll., Madras; Wadham Coll., Oxford; Lincolns' Inn, London. Assistant Editor, *The Hindu*, 1936-49; Chief Representative of P.T.I. in London, 1949-52; Chief Editor, Press Trust of India, 1951-53; Chairman, International Commission for Cambodia, 1954-55; Chairman, International Supervisory Commission for Viet Nam, 1955-56; Ambassador to Indonesia, Jan. 1957-June 1958. *Recreations:* Cricket, Tennis and Hockey. *Clubs:* Cosmopolitan Club, Madras. *Address:* 'Nanga Parbat', 49, St. Mary's Road, Madras.

PASPATTI, Michael Philip Augustus, Chairman & Managing Director, Rallis India Ltd., since 1955. Director: Ralliwolf Pvt. Ltd.; Rallifan Pvt. Ltd.; Ralli Chemicals Pvt. Ltd.; Teddington Chemical Factory Pvt. Ltd.; W. T. Suren Pvt. Co., Ltd.; Boehringer-Knoll Pvt. Ltd.; Apollo Investments Pvt. Ltd. *b.* July 21, 1899; *Educ.:* Univ. Coll., School, London. Joined Ralli Brothers, London, Oct. 1921; came to India as a covenanted Asstt., 1922; promoted Manager, 1946; became Director, Rallis India Ltd., 1951 and Managing Dir., 1953. *Recreations:* Interested in painting, music and philately. *Clubs:* Royal Bombay Yacht Club, Willingdon Sports Club and Bombay Gymkhana. *Address:* 21, Ravelin Street, Fort, Bombay 1.

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PATASKAR, Hari Vinayak, B.A., LL.B. (Bombay), Governor of Madhya Pradesh since June 1957. *b.* May 15, 1892 ; *Educ. :* Fergusson College, Poona ; Govt. Law Coll., Bombay. Enrolled as an Advocate, Bombay High Court and set up practice in Khandesh, 1917 ; Congressman since 1920 ; member, A.I.C.C., 1929 ; entered Bombay Leg. Council, 1927 ; resigned as a protest against the incarceration of Gandhiji, 1930 ; elected, M.L.A., Bombay, 1937 ; elected again, 1945 ; member, Constituent Assembly of India, 1947 ; returned to the Lok Sabha, 1952. Jailed for taking part in the freedom movement, 1942 ; was elected Pres., Borough Municipality, Chalisgaon, continuously and unanimously for 15 years ; Chairman, Educational Society, Chalisgaon, since 1922 ; has been taking part in all social, educational and political activities of Maharashtra, since 1922 ; Chairman (Local Cttee.), Blind Relief Assoc., Chalisgaon ; Minister for Legal Affairs, Govt. of India, 1954-57 ; Minister for Civil Aviation, Dec. 1956-Apr. 1957. *Address :* Raj Bhavan, Bhopal, M.P.

PATEL, Babubhai Jashbhai, B.A., LL.B., Vice-Chancellor, Sardar Vallabhbhai Vidyapeeth, Vallabh Vidyanagar. *b.* Feb. 9, 1911 ; *Educ. :* Govt. High School, Nadiad ; Baroda, Fergusson, Wilson, St. Xavier's and Govt. Law Colleges, Bombay. Joined Congress movement, 1930 ; was Parliamentary Secretary to Chief Minister, Bombay, till 1952 ; Dy. Minister, Public Works and Transport, Bombay, 1952–Oct. 31, 1956 ; was Minister for Development & Planning etc. ; Secretary, Constructive Work Deptt., All India Congress Cttee. ; Minister for Development, Planning, Electricity & Housing, Bombay. *Address :* 'Shreyas', Nadiad, Dt. Kaira ; Vallabh Vidyanagar, Taluka Anand, Dist. Kaira.

PATEL, Bahadurbhai Kuthabhai, B.Sc., Deputy Minister for Agriculture & Forests, Gujarat State, since May 1, 1960. *b.* Nov. 11, 1913 ; *Educ. :* Pratap High School, Bansda ; Baroda Coll., Baroda. Social worker in Congress since 1947 ; Pres. : Bansda Rajya Praja Mandal ; Taluka Congress Cttee., Bansda ; started Co-op. movement at Bansda ; is associated with the 'Vedchhi Ashram' founded by Mahatma Gandhiji and the Mahadeo Desai Smarak Trust ; Congress Delegate, A.I.C.C. ; nominated M.L.A. ; was member : Bombay State Backward Classes' Board ; Regional Transport Board and Gujarat Univ., Senate ; M.P., 1952-57 ; member : Central Tribes Advisory Council ; Govt. of India Scholarship Board ; Joint Select Cttee. for Representation of People Act ; Deputy Minister, Social Welfare, Govt. of Bombay, April 1957-May 1960. *Recreations :* Spinning ; sports. *Club :* Shri Digvir Club, Bansda. *Address :* Sachivalaya, Ahmedabad 15 ; Bhinar (Bansila), Via Billimora, District Surat.

PATEL, Bhagvatprasad R., M.A., A.I.A., I.C.S., Vice-Chairman and General Manager, Air India International, since Sept. 1955. *Educ. :* Proprietary High School, Ahmedabad and Gujarat College and Baroda College ; M.A., 1933 ; passed I.C.S. Examination, 1935. Became Associate of the Institute of Actuaries, London, 1936. Joined I.C.S., 1936 ; took service in Sind ; served as Asstt. Collector, Asstt. Revenue Officer, Barrage, Collector, Dy. Secy. and Secy., Food & Civil Supplies Department ; was in Ministry of Food, Govt. of India, April 1947 to Aug. 1948 ; was Chairman, Capital Selection Cttee. for Saurashtra and Rajasthan ; Chief Secy., PEPSU, Aug. 1948-March 1950 ; Chief Secretary, Saurashtra, March 1950-May 1954 ; Director-General of Shipping, May 1954-Aug. 1955. *Address :* Air India International, New India Assurance Building, Mahatma Gandhi Road, Bombay 1.

PATEL, Dr. Bhasker Rambhai, M.D., M.R.C.P., T.D.D., Deputy Minister for Prohibition, Maharashtra, since May 1, 1960. *b.* Aug. 3, 1897 ; *Educ. :* Sojitra ; Wilson Coll., Bombay ; Ahmedabad and Baroda ; Grant Medical Coll. ; M.D., Freiburg Univ., Germany, 1927. Joined the national movement, Aug. 1920 ; started consulting practice in Bombay, March 1929 ; courted jail several times in freedom movement ; started practice, 1939 ; appointed member, Prohibition Board, Province of Bombay and Hon. Secy. to Prohibition Medical Board, Bombay State, Aug., 1939 ; Hon. Specialist in T.B., J. J. Hospital and Lecturer in Tuberculosis, Grant Medical Coll., 1940 ; Hon. Special Officer in Tuberculosis, Govt. of Bombay, 1947 ; started B. C. G. campaign against T.B. in Feb. 1949 and organized mass-scale vaccination in Bombay State, 1954 ; Dy. Minister for Prohibition, bilingual Bombay 1956-1960. *Publications :* Many publications in Medical Literature on T.B. Problems & B.C.G. Vaccination. *Address :* Rajab Mahal, Opp. Oval Maidan, Churchgate, Bombay 1.

PATEL, Bhogilal P., B.Sc., Bar-at-Law, I.C.S., Adviser (Programme Administration), Planning Commission and ex-officio Additional Secretary, Govt. of India, New Delhi. *b.* Oct. 16, 1912. *Educ. :* Primary and Secondary : Khanpur, Nar and Baroda ; Baroda College and Royal Institute of Science, Bombay ; London School of Economics and Middle Temple Inn, England, 1933–37. Asstt. Commissioner, Central Division, Poona, in charge of supplies and controls for Maharashtra, 1942 ; Collector of Ahmednagar, Jan. to June 1943 ; Collector of Ratnagiri, 1943-46 ; Registrar of Co-operative Societies and Director of Agricultural Marketing and Rural Finance ; also Registrar General of Moneylenders, Bombay State, 1946–50 ; Commissioner, Ahmedabad Municipal Corporation, 1950–54 ; General Manager, B.E.S.T. Undertaking, Bombay, 1954–56 ; Managing Director, State Bank of India, Bombay, 1956–60. *Recreations :* Swimming, Riding, Bridge. *Clubs :* Rotary ; National Sports Club. *Address :* Planning Commission, Yojana Bhavan, New Delhi.

PATEL, Chhotubhai M., B.A., LL.B., Deputy Minister for Transport, Electricity and Industries, Gujarat State, since May 1, 1960. *b.* March 26, 1905, in Broach Dist. ; *Educ. :* Baroda High School ; Baroda Coll. ; LL.B. from Poona Law Coll. Started legal practice in Jambusar, 1931 ; became an active Congress worker ; courted imprisonment in the freedom movement ; was Pres., Jambusar Taluka Congress Cttee. and Vice-Pres., Broach Dist. Congress Cttee. for several years ; elected Pres., Broach Dist. Local Board, 1947-52 ; takes keen interest in the Co-operative Movement of the Dist. ; elected Director, Managing Cttee. and Pres., Jambusar Taluka Co-operative Purchase and Sale Union Ltd., since its start ; M.L.A., Bombay, 1952-60 ; Dy. Minister for Transport and Jails, Bombay 1957-60. *Address :* Sachivalaya, Ahmedabad 15.

PATEL, Dr. Jashbhai Shankerbhai, B.Sc., M.Sc., Ph.D., Agricultural Commissioner with the Govt. of India, since 1959. *b.* Dec. 11, 1905 ; *Educ. :* Cornell Univ., Ithaca, N.Y., U.S.A. ; Edinburgh Univ. Oil Seeds Specialist, Madras, 1930-38 ; Director, Jute Agricultural Research, 1938-44 ; Principal, Bihar Agricultural Coll., Sabour, 1944-49 ; Director of Agriculture, Bihar, 1949-55 ; Adviser, Agriculture, Ministry of Community Development and Co-operation, 1955-59. *Publications : Coconut—A monograph. Address :* 125-C-Type, Motibagh, New Delhi 3.

PATEL, Mr. Justice Dahyabhai Vallabhbhai, B.Sc., LL.B., Judge, High Court, Bombay. *b.* 1909 ; *Educ. :* Fergusson Coll., Poona ; Law Coll., Poona. Joined the Bar, 1934. *Address :* High Court, Bombay.

PATEL, Surg.-Capt. Jal Ratanji, M.D. (Bom.), (Dist.), F.C.P.S. (Bom.), M.B.B.S., J.P., Fellow of the American Coll. of Chest Physicians ; Hony. Physician to the President, Indian Republic ; Director, Post-graduate & Research Pharmacology, Grant Medical College, Bombay ; Examiner in M.D. and Ph.D., Bombay, Lucknow, Madras. Surgeon (Indian Navy) ; Hon. Cardiologist to the personnel stationed in Bombay of the Naval Hospital ; Hon. Consulting Physician, Telephones, Bombay Dist. and Hon. Consulting Physician and Cardiologist, Central and Western Railways ; Retd. Prof. of Pharmacology, Grant Medical Coll., Bombay ; awarded Hony. rank of Surg.-Capt. in the Indian Navy by the President of India, May 1961. *Publications :* Some observations on the blood pressure of dogs with various official and non-official drugs and preparations with special reference to cortical extract of suprarenal (Jn. Ind. Med. Association, 1938). *Address :* Bombay House, Bruce Street, Bombay 1.

PATEL, Jehangir Pestonji, M.A. (Cantab.), Cotton Merchant. *b.* 1st February 1905 ; *Educ. :* St. Xavier's High School, Bombay and Downing College, Cambridge. Mg. Director of The Patel Cotton Co. Private Ltd. ; Director : Bhopal Sugar Industries Ltd., The New Great Insurance Co. of India Ltd., G. Claridge & Co. Ltd., Indian Schering Ltd. ; The Khatau Makanji Spg. & Wvg. Co. Ltd., Wallace Flour Mills Co. Ltd., Bombay Steam Navigation Co. (1953) Ltd., Scindia Workshop Ltd., The Scindia Steam Navigation Co., Ltd. ; The Assam Match Co., Ltd. ; State Bank of India, Bombay ; Citric India Ltd. ; The Ahmedabad Electricity Co., Ltd. ; The Lakshmi Cotton Mfg. Co. Ltd. ; Baroda Electric Meters Ltd. ; Partner, Messrs. Patel Brothers, Cotton Brokers, Bombay ; Member : New York Cotton Exchange ; New York and Liverpool Cotton Assoc. Ltd., Liverpool ; Pres.: Adivasi Seva Mandal. *Clubs :* Willingdon, Rotary, Cricket Club of India, Radio Club, The Royal Western India Turf Club Ltd., The Western India Automobile Association Club Ltd., The National Sports Club of India and Ootacamund Gymkhana Club. *Address :* "Goolestan", 37, Cuffe Parade, Bombay 5.

PATEL, Kamalaben Maganbhai, G.A., Deputy Ministry for Health and Fisheries, Gujarat State, since May 1, 1960. *b.* Jan. 14, 1914, at Vasad, Anand Taluka, Kaira Dist. ; *Educ. :* Passed vernacular final exam. at Broach, 1925 ; Maharani Girls' High School, Baroda, 1928-30 ; G.A. from S.N.D.T. Women's Univ., 1939. Teacher, D.N. High School, Anand, 1940-41 ; courted arrest in "Quit India" Movement, 1942 ; visited different countries of Europe to study the work done there for farmers' families ; also made a study of the working of Folk High Schools in Denmark ; took active part in the multipurpose schemes of the Institute of Agriculture, Anand ; is intimately connected as Vice-Chairman or Cttee. Member, with the Social Welfare Centre, Anand, Vithal Kanya Vidyalaya, Nadiad, Anand Taluka Village Centre and National Extension Service Block. *Address :* 10, Sahi Baug, Ahmedabad.

PATEL, Pannalal Nanalal, Gujarati Short Story Writer and Novelist. *b.* May 7, 1912 ; *Educ. :* Idar Middle School. Services in various walks of life ; Liquor Godown Manager, Water Pipe Fitter, Farming, Oilman in Electricity Co. & Water Works, Clerk, Small Merchant, Film Story Writer. *Publications :* Novels : *Malela Jiv ; Valamanan ; Bhiru Sathi ; Surabhi ; Yauvan ; Manavini Bhavai ; Pacchale Barane ; Na Chhutake ; Fakiro ; Bhagyanan Bheru ; Navu Lohi ; Padgha Ane Padchhaya ; Mankhaavtar ;* Short Stories : *Sukh Dukhnan Sathi ; Jivo Dand ; Jindagina Khel ; Lakh Chorasi ; Panetarna Rang ; Sachan Shamanan ; Vatrakne*

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Kanthe : Orta : Dilni Vat ; Parevdan ; Manana Morala ; Tilottama ; Play : *Jamairaj ; Malela Jiv ; Chando Shen Shamlo ;* Children Stories : *Visvasnun Vavetar. Address :* Pragna Society, 15, Ahmedabad 9.

PATELL, Jehangir J. K., B.A., A.C.A., F.C.C.S., R.A., F.C.R.A., F.I.C.S., J.P. and Hon. Presidency Magistrate, Secretary, W. I. A. Association, Bombay, since 15th April 1939. *b.* 2nd August 1905; *Educ.:* St. Xavier's School and College; Davar's College of Commerce and School of Accountancy, London; completed articleship for Incorporated Accountancy with Messrs. S. B. Billimoria & Co., Bombay. Assistant Secretary, W.I.A. Association, 1931-39; contributed articles on various subjects, particularly on 'Motoring' and 'Photography'; Secretary of the Asian Zone of the Alliance Internationale de Tourisme; Vice-Patron and Life Member of the Bombay Presidency Olympic Association and the Bombay Symphony Orchestral Society; Life Member of the Western India Automobile Association, The Cricket Club of India Ltd. and the Western India Football Association; Member of the Asiatic Society of Bombay; Member, Government Traffic Advisory Committee; Vice-President of the Society of the Justices of Peace and Hon. Presidency Magistrates; Chairman, Community Safety Committee of the Rotary Club of Bombay; Hon. Grand Scribe N. of the Grant Chapter, U.S., F.I.C.; Past Grand Senior Deacon, Grand Lodge, U.S.F.I.C.; Hon. Secretary, Governor's Hospital Fund Committee; Member, "D" Ward Rifle Club; Flag Day Appeal Fund Cttee; Vice-Pres., Motor Cycle Assoc. Clubs; Willingdon; Rotary Club of Bombay; Royal Western India Turf Club; Royal Western India Golf Club, Nasik; President, W.I.A.A. Staff Recreation Club; Football, Motoring and Photography. *Address :* Lalchand Mansion, Chanda Ramji Estate, Colaba, Bombay 5.

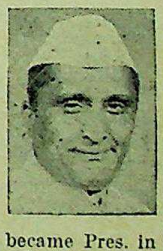
PATHAK, Murlidhar Sadashiv, B.Sc., B.E. (Mech.), B.E. (Electrical), Master, India Security Press and ex-officio Controller of Stamps, since Aug. 6, 1960. *b.* Aug. 21, 1914; *Educ.:* Govt. High School, Nasik City; Furgusson Coll., Poona; Coll. of Engineering, Poona. Served apprenticeship with Killick Nixon & Co. at Sabarmati Power House, Ahmedabad and Volkart Brothers in their Air Conditioning Deptt.; joined the Corps of Indian Engineers at Madras Sappers & Miners, Bangalore, Nov. 2, 1941; commissioned as an Emergency Commissioned Officer, May 2, 1942; services in Iraq, Iran, Palestine and India; rank on release; War Substantive Captain; released under class 'B' scheme to join India Security Press as Asstt. Master; Asstt. Master, June 5, 1946-March 17, 1951; Deputy Master, March 18, 1951-Aug. 5, 1960. *Clubs :* United Services Gymkhana, Nasik Road. *Address :* Caxton House, Nasik Road, (C. Rly.).

PATIALA, Lieutenant-General His Highness the Maharajadhiraj (Raj Rajeshwar Shri Maharaja-i-Rajgan) Sir Yadavindra Singh Mahendra Bahadur, G.C.I.E., G.B.E., LL.D., Maharaja of. *b.* 1913; *Educ.:* Aitchison Coll., Lahore; Hon. LL.D., Benaras Hindu Univ., 1939, Punjab Univ., 1949; was Rajpramukh of Patiala and East Punjab States Union till 1956; Founder and Hon. Life Pres., Asian Games Federation; was Pres., Indian Olympic Assoc. till Jan. 1960; is Chairman, All India Council of Sports; Patron and Pres. of many other organisations; was Pro-Chancellor and Chancellor of the Chamber of Princes; Delegate of India to the XI Session of the U. N., New York 1956-57; UNESCO Conference in Paris, 1958 and the Food & Agriculture Organization Conference in Rome, 1959. *Address :* Motibagh Palace, Patiala, Punjab (Winter); Rajgarh, Chail (Simla Hills) (Summer).

PATIL, Gundu Dashrath, B.A., Bar-at-Law, Deputy Minister for Planning, Labour and Industries, Maharashtra State, since May 1, 1960. *b.* 1921; *Educ.:* Lingraj Coll., Belgaum; Willingdon Coll., Sangli; during College days, was a wrestling champion for the Univ. of Bombay and keen sportsman. After working underground for about two years in the Quit India Movement, was arrested, 1944; returned to the Bombay Leg. Assembly from Tasgaon East-Kavthemahankal Constituency in S. Satara Dist., 1952; again elected to the Assembly from Miraj-Kavthemahankal Constituency, 1957; Dy. Minister for Planning and Development, Bombay State, 1957-1960. *Address :* A-7, Foreshore Road, Bombay 1.

PATIL, Kallangouda Fakirgouda, B.A., Minister for Transport, Mysore, since May 1959. *b.* at Kakol, Dharwar Dist.; *Educ.:* Kakol, Motebennur, Byadgi and Hubli; Lamington High School, Hubli; Karnatak Coll., Dharwar; Rajaram Coll., Kolhapur. Took active part in the freedom movement; courted jail; Secy., Karnatak Harijan Sevak Sangh, 1934-36; elected Pres., Byadgi Munipality, 1940; elected M.L.A., Bombay, 1946 as a Congress candidate from the Dharwar South Constituency; Parliamentary Secy. to the Minister for Revenue, 1946; elected in the General Elections of 1952; Dy. Minister for agriculture and Forest, Bombay, 1952-56; again M.L.A., Mysore, 1957; was Gen. Secy., M.P.C.C.; member, A.I.C.C.; was Chairman, Estimates Cttee.; Minister for Food and Agriculture, Mysore, May 1958-May 1959. *Address :* Bangalore.

PATIL, S. K., Minister for Food and Agriculture, Govt. of India, since Sept. 1959. *b.* Aug. 14, 1900 in Ratnagiri Dist.; *Educ.:* St. Xavier's Coll., Bombay and London Univ. Joined non-co-operation movement, 1920 and conducted National School, till 1924; studied journalism at the London School of Economics and London Univ. Took part in C.D. movements and was sentenced 8 times; member: A.I.C.C. for last 28 years; Congress Working Cttee., Sept. 1947-51; Bombay Municipal Corporation for 17 years; was General Secy., Bombay P.C.C. for 17 years until he became Pres. in 1946; was M.L.A., Bombay for 10 years; was member: Central Board of Film Censors; Chairman, Govt. of India's Film Enquiry Cttee. and Cantonment Cttee.; member, C.C.I., Central Council, N.S.C.I., W.I.A.A., etc.; Pres.: Local Self-Govt. Institute of India; All-India Motor Unions Congress; Marathi Granth Sangrahalaya, Bombay; International Club and Indo-German Cultural Society; closely connected with various social organisations and educational institutions in the City of Bombay; toured important cities of Europe, America and Pacific coast several times to study City Administration and Motion Picture industry and met important personalities; had the unique honour of being elected Mayor of Bombay for three consecutive terms, 1949-52; Fellow of the Royal Geographical Society for four years; Pres., Brihad Bharatiya Samaj since its Inception; toured African and Middle East countries many times in connection with the work of the Samaj; organized the Congress campaign in the Andhra General Elections of 1955; was Pres., I.M.P.P.A. for a year; was nominated member, Congress Working Cttee. in Oct. 1956; member, Congress Working Cttee., 1960; was Pres., Bombay Pradesh Congress Cttee., 1946-57; Minister for Irrigation and Power, Govt. of India, April 1957-March 1958; Union Minister for Transport and Communications, April '58-Aug. '59. *Address :* Shanti Kutir, Marine Drive, Bombay 1; 5, Dr. Rajendra Prasad Road, New Delhi.



PATIL, Shamrao Ramchandra, Deputy Minister for Sarvodaya, Forest Labourers' Societies and Khar Land Development, Maharashtra State, since May 1, 1960. *b.* Aug. 15, 1902; *Educ.:* Bordi (Thana Dist.). Joined N.C. movement, 1920 and C.D. movement, 1932; courted jail in freedom movement; Secy., Thana Dist. Congress Cttee., 1935-46; its Pres., 1946-April 1952; member A.I.C.C., since 1953; was General Secy., Maharashtra-P.C.C.; elected M.L.A., Bombay from Dahanu-Umbergaon constituency, 1952 and 1957; Dy. Min. for Sarvodaya, Bombay State, 1957-60. *Publications : Gandhiji's life for Children*, in Marathi; contributed articles to various magazines. *Recreations :* Agriculture. *Address :* Sachivalaya, Bombay 1.

PATIL, Uttamrao Laxmanrao, M.A., LL.B., M.P. (Lok Sabha), Politician. *b.* Feb. 12, 1921; *Educ.:* East and West Khandesh; higher education at Baroda, Poona and Kolhapur. Enrolled as Advocate, Bombay, 1947; set up practice at Dhulia, 1948; has been associated with several co-operative and other public bodies as legal adviser; took keen interest in rural problems; nominated Director, West Khandesh Central Co-operative Bank, since 1958; elected M.L.C., Bombay, from Graduates' Constituency, Central Division, 1954; resigned on Samyukta Maharashtra issue, 1956; became member, Bharatiya Jana Sangh, 1953; elected Pres., Maharashtra Pradesh, 1954-59; member, working Cttee., Jana Sangh, since 1956; nominated Vice-Pres., 1960; Editor, *Prabodha*, Weekly, 1954-56; Editor and owner, *Sudarshan*, Marathi Weekly. *Publications : Sahakari Shetila Virodh Va Paryaya*, in Marathi. *Address :* 5th Lane, Dhulia, West Khandesh.

PATNAIK, Banawali, B.A. (Pat.), President, Utkal Provincial Congress Cttee. (1960). *b.* April 4, 1920; *Educ.:* Matriculation—Zila School, Puri; B.A.—Ravenshaw Coll., Cuttack; Law—Ravenshaw Coll., Cuttack; Pres., Ravenshaw Coll. Union, 1940; imprisoned in the student movement, 1940. Courted jail in the Quit India movement; Secy., Dist. Congress Cttee., Puri; M.L.A., Orissa from Khurdha Constituency, 1946-51; General Secy., Utkal P.C.C., 1949-52 and 1956-57; Pres., P.C.C., Orissa, 1952-54 and since 1960; Pres.: Orissa State Co-operative Marketing Society; Orissa State Co-op. Housing Corpn.; Orissa Co-op. Insurance Society; Director: State Co-op. Bank, Orissa and Co-op. Union; Prajatantra Prachar Samiti; Founder, Science Coll. at Nirakarpur in a rural area, 1959; Trustee of several cultural institutions. *Recreations :* Gardening. *Address :* P.O. Khurda, Dist. Puri; Swaraj Ashram, Cuttack 2.

PATNAIK, Bijoyananda, Chief Minister, Orissa, since June 23, 1961. *b.* March 5, 1916; *Educ.:* Ravenshaw Coll., Cuttack. Joined the Indian National Airways and became its ace pilot; took active part in the "Quit India" movement; courted jail for his activities in the freedom struggle; flew the Indonesian Premier Mr. Sutan Sjharir to New Delhi during the Indonesian freedom fight against the Dutch; landed the first Indian plane in Kashmir when Pakistan attacked her; took to industries after returning to Orissa; among his concerns is the Kalinga Airways; elected to Orissa Assembly from Choudwar during the mid-term election, 1961. *Address :* Bhubaneswar.

PATNAIK, Kali Charan, Kavichandra (1942), Natyacharya (1944), Oriya poet and dramatist; writer of Children's Literature. *b.* Dec. 23, 1900; *Educ.:* Ravenshaw Coll., Cuttack. Editor, *Puribasi* & *Sangita Prabha*, 1924-28; Founder-Director, Sakhigopal Natya Sangh (1926-39); Orissa Theatres (1939-50);

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Founder: Suralekha Record Productions; Odissi Music & Dance institute; Founder-Pres.: Utkal Natya Sangh; Vice-Pres.: Bharatiya Natya Sangh (1958); Chairman, Board of Studies in Music, Utkal Univ. (1949-57); member, Orissa Sangeet Natak Academy, since 1954. *Publications:* 57 Oriya and 2 Hindi Dramas; a Book of Short Stories; three Books on Songs; two Books on Music; four Books on Dance; seven Dance-Dramas; thirteen One-Act Plays; is Director of the Full Length Oriya Film "Lalita" (1948) and 3 Documentary Films in early forties; Lyric composer of three films, 1949-58. *Address:* "Kavi Nivas", Jagannath Ballav, Cuttack-1 (Orissa).

PATTABHI RAMAN, C. R., B.A., LL.B. (Lond.), Barrister-at-Law, Senior Advocate, Supreme Court; M.P. (Lok Sabha). *b.* Nov. 11, 1906; *Educ.:* B.A., Presidency Coll., Madras; LL.B., London School of Economics and Political Science; Barrister-at-Law, Middle Temple. Accompanied as Private Secy. his father who was Chief Delegate to the League of Nations, Geneva, 1927; Pres. for eight years, now Patron: Madras Cricket Assoc.; Pres., South Madras Bharat Scouts and Guides; member: Trust Boards and Governing Bodies of the P.S. High School, Mylapore, Madras; The National Girls' High School, Triplicane, Madras and Sri Somasundara Kanya Vidyalaya, Kancheepuram; Pres., Madrasi Edu. Assoc. of Schools, New Delhi; Foundation member, Indian Law Institute; Hon. Secy., Madras State Bar Federation and Bar Assoc. of India; Legal Adviser, Indian Delegation to the tenth Session of the Assembly of the United Nations, 1955; returned to the Lok Sabha as Congress candidate from Aduthurai Kumbakonam-Papanasam-Thiruvaiyar Constituency, March 1957; Member, Rules Cttee.; Chairman: Joine Select Cttee. of both Houses, Mines and Minerals Bill; Select Cttee., Gift Tax and Estate Duty Amending Bills; office of Profit & Members' Disqualification Cttee.; Jt. Select Cttee., Legal Practitioners' Bill; *Chairman*, Public Accounts Cttee., Lok Sabha; member, All-India Sports Council; toured U.S.S.R. and Poland as member, Indian Lawyers' delegation, Nov. 1958; Delegate, International Parliamentary Union Conference, Warsaw, 1959. *Publications:* "Periyar Water Rights Arbitration" proceedings as Counsel with a foreword by the late Sir Maurice Gwyer, former Chief Justice of India; collaborated with Justice N. Chandrasekhara Aiyar in the XI Edition of Mayne's Hindu Law; Speeches & Writings (foreword by M. C. Setalvad); articles to various legal and other journals on various subjects. *Address:* "The Grove", Teynampet, Madras 18; "De Lisle", Ootacamund; 22, Janpath, New Delhi 1.

PATWARDHAN, Dr. Vinayak Narayan, M.Sc. (Bom.), Ph.D. (Lond.), A.I.I.Sc. (Bangalore), F.N.I., Director, Nutrition Research, Indian Council of Medical Research, Hyderabad, since 1946. *b.* 10th Jan. 1905; *Educ.:* Ewing Christian Coll., Allahabad, Fergusson Coll., Poona, Indian Institute of Science, Bangalore. Research Asstt., Biochemistry Dept. of the Indian Institute of Science, Bangalore, 1927-32; Grocers' Company Research Scholar, Lister Institute of Preventive Medicine, London, 1933-34; Asstt. Prof. of Biochemistry, Seth G. S. Medical Coll., Bombay, 1935-46; member, Nutrition Advisory Cttee., I.R.F.A., 1939-59; F.A.O./W.H.O. Expert Cttee. on Nutrition. *Publications:* Papers on (1) Cheap balanced diets, (2) Basal metabolism, (3) Metabolism of Calcium, phosphorus fats and proteins, (4) Vitamin action and requirements, etc. *Address:* Director, Nutrition Research, Hyderabad-Dn. 7.

PAVATE, Dadasaheb Chintamani, B.A. (Hons.) (Bombay), M.A. (Cantab.), Vice-Chancellor, Karnatak University, since July 1954. *b.* Aug. 2, 1899; *Educ.:* Karnatak Coll., Dharwar; B.A. (Hons.), first class, Bombay Univ., 1923; Sidney Sussex Coll., Cambridge; obtained a double first class in Mathematics Tripos exams. of the Cambridge Univ. and became a Wrangler, 1927. Professor of Mathematics, Benaras Hindu Univ., 1928-30; was admitted to the Bombay Education Service Class I in the Administrative Branch, June 1930; Director of Public Instruction, Bombay State, Jan. 1947—July 1954; appointed by the Govt. of India as a member of the official Language Commission, 1955-56; deputed as Leader of the Indian Delegation to the 19th International Educational Conference, Geneva, July 1956; visited 25 Universities in France, England, America and Japan in the summer of 1957 with a view to studying their administrative structure, courses of studies and the system of examinations. *Publications:* *Elements of Calculus* and some other books in Mathematics. *Address:* Vice-Chancellor, Karnataka University, Dharwar.

PAVRY, Dasturzada Dr. Jal, M.A., Ph.D., Spiritual Head of the Liberal Zoroastrian Church of Europe and America; Orientalist and Author. Received highest academic honours at Bombay Univ., 1916-20, and at Columbia Univ., New York, 1921-25. First scholar from India to be elected a Fellow and appointed a member of Columbia Faculty; awarded the Univ.'s most coveted Alumni Medal on his 50th birthday, 1950; represented Columbia Univ. at Univs. of Calcutta, Madras and Bombay Centennial Celebrations, 1957; Author of several important works on history and religions of Israel and Iran; delivered lectures upon aspects of Indian and Iranian civilizations at several leading Universities of Europe and America; President Emeritus, Columbia University Alumni Association of India; Director, Pan Asian Union; Vice-Pres., World Alliance for International Peace through Religion, of World Fellowship of Faiths and of All-Inclusive Spiritual Centre of Geneva; Edited, *Dastur Pavry Centenary Volume* in English, French and German, prepared by 70 savants from 17 countries and published by Oxford Univ. Press in England (1961). *Address:* Malabar Hill, Bombay.

PENDSE, Shripad Narayan, B.Sc. (Bombay), Marathi Writer. Rockefeller Fellow, 1955-56. *b.* Jan. 5, 1913; *Educ.:* Bombay. Wrote his first novel *Elqar*! 1949; awarded a travelling fellowshlp by the Rockefeller Foundation and toured the Continent, U.K., U.S.A., Japan, Philippines, Indonesia, Burma, Ceylon and Pakistan, 1955; critics hold *Elqar* as a turning point in Marathi fiction. *Publications:* Two collections of short stories; Novels: *Elqar*, for which he was awarded a prize as the best book of the year; *Haddapar* which was awarded Govt. prize for the best novel of the year, and of which "The Sky is the Limit" is a translation; *Garambeecha Bapoo*; *Hatya*, awarded Govt. prize for the best novel of the year (Oct. 1954); *Kalandar* (1959); awarded Govt. Prize for the best novel of the year, 1959. *Recreations:* Music, Reading. *Address:* Gokhale Wadi, B. S. Road, Bombay 28.

PHILIP, Modeil Mani, B.A. (Madras), Secy. to the Govt. of India, Ministry of Transport & Communications (Deptts. of Communications & Civil Aviation), since Jan. 1958. *b.* Feb. 13, 1904; *Educ.:* Christian Coll., Madras; Selwyn Coll., Cambridge. Joined the Indian Civil Service, 1928; served in various executive capacities in Bihar, as an Asstt. Collector, Joint Magistrate, Collector and District Magistrate, Commissioner, Revenue Division and Member, Board of Revenue; Director General, Posts & Telegraphs, 1954-58; *Clubs:* Delhi Gymkhana Club. *Address:* 12, Akbar Road, New Delhi.

PILLAI, J. Shivashunmugam, M.A., Member' Union Public Service Commission, since Aug. 16, 1955. *b.* Feb. 24, 1901; *Educ.:* Loyola College, Madras. Mayor of Madras, 1937-38; Speaker, Madras Legislative Assembly, 1945-55. *Address:* Mayor Sivashunmugam Pillai Street, Nungumbakkam, Madras 4; Robert's Road, New Delhi.

PILLAI, Namakkal Kavignar Ramalingam, Poet Laureate (1948), M.L.C. (Madras), Tamil Writer. *b.* Oct. 19, 1888; *Educ.:* B. H. School, Namakkal; Arts Coll., Coimbatore. Professional Artist and portrait painter, 1909-20; attended the Coronation Durbar of King George V at Delhi as an artist at the instance of the Madras Govt., 1912; joined the N. C. Movement, 1921; composed songs for the Movement; courted jail in the movement; gave up the artist's profession and continued composing songs for the Gandhian cult; was popularly called the Gandhian poet; nominated M.L.C., Madras. *Publications:* Five books of poetry, four novels, five research books and six treatises; new commentary of *Thirukkural*. *Recreations:* Football, Cricket, Tennis. *Club:* Literary Institute and Tennis Club, Namakkal. *Address:* Namakkal, Dt. Salem, Madras State.

PILLAI, Sir Narayana Raghavan, K.C.I.E. (1946), B.A. (Madras), 1918, B.A., LL.B. (Cantab.), 1922, Hon. D. Litt. (Travancore), 1953, C.I.E., C.B.E., I.C.S., Padma Vibhushan (1960); Ex-Secy.-General, Ministry of External Affairs, Govt. of India and Ex-Chairman, Board of Directors, Hindustan Machine Tools. *b.* July 24, 1898; *Educ.:* Christian Coll., Madras and Trinity Hall, Cambridge. Entered I.C.S. in 1922 and served till 1927 in Madhya Pradesh; Assistant Collector of Customs, 1927; Deputy Director of Commercial Intelligence, 1929; Deputy Secretary to the Government of India, Commerce Department, 1931; Collector of Customs, 1936; Joint Secretary to the Government of India, 1938; Additional Secretary to the Govt. of India, 1941; Secretary to the Govt. of India, 1942; Commissioner General for Economic and Commercial Affairs in Europe, Paris, 1948; Secy. to the Cabinet till 1952; Chairman, Hindustan Shipyard, 1952–58. *Address:* C/o Ministry of External Affairs, New Delhi.

PILLAI, Mr. Justice Subramaniam Ganapatia, B.A., B.L., Judge, Madras High Court, since Aug. 10, 1959. *b.* Feb. 5, 1903; *Educ.:* Caldwell High School, Tuticorin; Pachaiyappa's Coll., Madras; Univ. Law Coll., Calcutta; passed B.L. in first Class, 1926. Practised law, 1927-35; entered Madras State Judicial Service as District Munsiff, July 1935; Subordinate Judge, June 1949; District Magistrate, June 1953; Dist. and Sessions Judge, Oct. 1954; Addl. Judge, Madras High Court, 1957-59. *Recreations:* Tennis, Card games. *Clubs:* The Cosmopolitan Club, Madras. *Address:* 25, Santhome High Road, Madras-4.

PILLAI, T. M. Narayanaswamy, M.A., B.L., Dewan Bahadur (Jan. 1, 1937), Member, Univ. Grants Commission, since Feb. 1961. *b.* Aug. 31, 1891; *Educ.:* St. Joseph's Coll., Tiruchirapalli; Presidency College and Law College, Madras. Was Pres., Dist. Board for eight years and Chairman, Municipal Council, Tiruchirapalli, for a year; elected member, former Madras Leg. Council, 1924-32; represented Madras Presidency at the All-India Co-operative Conference, 1936; Chairman, Cttee. on Co-operation appointed by the Govt. of Madras; appointed Pres., H.R.E. Board by the Govt., 1940; Member, Madras Public Service Commission, 1941-48; Chairman, 1948-53; retired, 1953; elected to the Madras Leg. Council, 1953; was member, Senate of Madras Univ. from 1942; also Chairman, Board of Studies in Tamil; nominated to the Senate of the Annamalai Univ., 1954; Vice-Chancellor, Annamalai Univ., till Feb. 1961. *Publications:* A pamphlet on *Thirumoolar*. *Club:* Madras Cosmopolitan Club. *Address:* New Delhi.

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PILLAI, Thakazhi Sivasankara, Malayalam Writer; Lawyer. *b.* April 14, 1914; *Educ.:* Home Village; High School, Karuvatta; Law course, Trivandrum. Began writing at the age of 15; one of the pioneers of realism in Malayalam literature and the progressive movement in Kerala; won the Sahitya Akademi award for the novel *Chemmeen*, 1957; *Chemmeen* which has been translated into Russian and Czech, has been taken up by UNESCO for translation into English; his novel *Rantidangazhi* is being translated into all the major languages in India under the auspices of the Sahitya Akademi; member, Kerala Sahitya Akademi. *Publications:* More than 500 short stories and 15 novels. *Address:* Thakazhi, Ambalapuzhai, Kerala.

PITAMBER DASS, B.A., LL.B., Politician; Pres., Bharatiya Jana Sangh, since Jan. 23, 1960. *b.* Jan. 30, 1905, at Hastinapur, U.P.; *Educ.:* Devanagri High School, Meerut; Meerut Coll., Meerut. Actively participated in boycott of the Simon Commission and established Khadi League in College; set up legal practice, 1932; Congressman till 1943; Sanghchalak of R.S.S. for Mawana, U.P., 1946-54; was under detention for six months when ban was imposed on R.S.S., 1948; joined Jana Sangh at its inception, 1951; was in jail for four months for offering satyagrah during Jana Sangh Kashmir Satyagrah, 1953; elected Pres. for Meerut Dist., Jana Sangh, 1956; Provincial Secy., U.P., 1955; Pres., Jana Sangh, U.P., continuously for three years, 1956, '57 & '58; arrested at Gorakhpur in connection with the 1958 U.P. Food Agitation; became All-India Vice-Pres., Jana Sangh, 1959; elected to the U.P. Leg. Council, 1956; gave up legal practice, 1958. *Address:* Mawana, Meerut Dist., U.P.

PODAR, Ramnath Anandilal, Industrialist and business man; Chairman, Millowners' Assoc., Bombay, 1960. *b.* Jan. 21, 1910; *Educ.:* Marwari Vidyalaya High School. Joined father's business, 1927; Chairman: Podar Group of Concerns; Rajasthan Chamber of Commerce & Industry; The Rajasthan Financial Corporation; Millowners' Assoc., Bombay; Cotton Advisory Board; Director, State Bank of India; J.P.; Member: Parliament of India (1952-54); Bombay Leg. Assembly (1946-52); Bombay Municipal Corporation (1943-52); Constitutional Reforms Advisory Cttee., Jaipur State (1943); Vice-Chairman, Bombay Textile Research Assoc.; member, Indian Central Cotton Cttee. Member, Cttee. of: Indian Cotton Mills' Federation; Federation of Indian Chambers of Commerce & Industry; Indian Merchants' Chamber; All India Organisation of Industrial Employers; Swadeshi League; Senate, Univ. of Rajputana; numerous Institutions having activities connected with research, medical relief, social welfare and imparting of education; Dir., many commercial and industrial enterprises. *Address:* Podar Chambers, Fort, Bombay 1.

PODUVAL, Raghava Neelacanda, B.A. (Hons.) (Madras), M.Sc. (Lond.), Ph.D. (Lond.), Economic & Statistical Adviser, Ministry of Food & Agriculture, Govt. of India, since Jan. 1959. *b.* Sept. 29, 1914; *Educ.:* Madras Univ. and London School of Economics, London. Deputy Economic & Statistical Adviser, Ministry of Food and Agriculture 1953-58; Govt. of India's Delegate to the FAO Working Party on Stabilisation of International Trade in Rice, Rome, 1956; Member, Indian Delegation to: Sixth Session of the International Rice Commission and the Fourth Session of the FAO Regional Conference for Asia and the Far East, at Tokyo, Oct. 1958; 31st Session and 32nd Session of the FAO Cttee., on Commodity Problems, June and Oct. 1959 respectively; 10th Session of the FAO Conference, Nov. 1959; elected Vice-Chairman, Technical Cttee. on Economics and Statistics of the Conference. *Publications: Recent Trends in India's Foreign Trade; Finance of the Government of India since* 1935. *Recreation:* Tennis. *Address:* Economic & Statistical Adviser, Ministry of Food and Agriculture, Government of India, New Delhi.

POTDAR, Datto Vaman, Mahamahopadhyaya (1946), B.A. (Bombay), Vice-Chancellor, Poona University. Member, State Board for Archives & Monuments (Bombay). *b.* Aug. 5, 1890; *Educ.:* Poona. Orator, Educationist; researches in the field of Mahratta History and Literature; founded the Indian History Congress in Poona, 1935; presided over its Delhi session, 1948 and the Ahmednagar session of the Maharashtra Sahitya Sammelan, 1939; nominated to the Court and Academic Council of the Poona Univ.; Chairman, Shikshana Prasaraka Mandali, Poona; member, Indian Council of Cultural Relations and the Indian Historical Records Commission, Govt. of India; Advisory Board, A.I.R., Poona; Kul-Guru of the Tilak Vidyapeeth, Poona; Pres., Maharashtra Rashtra Bhasha Sabha; represented the Govt. of Bombay at the 3rd International Congress on Archives at Florence, 1956. *Potdar Commemoration Volume:* presented on Oct. 28, 1950. *Publications: A History of Marathi Prose Literature,* etc. *Address:* 77, Shanwar Peth, Poona 2.

POTTI, D. Damodaran, B.A., B.L., Minister for Public Works, Kerala State, since Feb. 22, 1960. *b.* 1922; *Educ.:* Passed B.A. and B.L. from Trivandrum. Joined the Students' Congress, 1937; was in the Central Secretariat Service for some time; resigned and joined Socialist Party; elected to the Assembly, 1954. *Address:* Trivandrum.

POULOSE, E. P., B.A., B.L., Minister for Food & Agriculture, Kerala State, since Feb. 22, 1960. *b.* 1909; *Educ.:* Graduated from St. Berchman's Coll., Changanacherry; B.L. from Law Coll., Trivandrum. Advocate; participated in the freedom movement, 1935 and joined the Congress; imprisoned for a short period; elected to the Travancore Leg. Assembly, 1947 and to the Kerala Assembly, 1957. *Special interests:* Co-operative Movement. *Address:* Muvattupuzha; Trivandrum.

POWLES, H.E. Mr. Guy Richardson, LL.B. (N.Z.), K.B.E. (1961), C.M.G. (1954), E.D. (1943), High Commissioner for New Zealand in India, since July 1960. *b.* April 5, 1905; *Educ.:* Wellington Coll., Victoria Univ. Practised as barrister, Wellington, 1928-40; Brigade Major, 2nd Battalion Group (N.Z.), 1940-42; Member, Directing Staff, New Zealand Staff Coll., 1942-43; active service with New Zealand 3rd Division in Pacific, 1943-44; Director of Personal Services (Colonel), Army Hqrs., Wellington, 1944-45; member, Allied Mission to Japan, Dec. 1945; Counsellor, New Zealand Legation, Washington D.C. and New Zealand Representative on Far Eastern Commission, 1946-48; High Commission of Western Samoa, Feb. 1949-April 1960; Secy., 1929-44 and Pres., 1945, New Zealand Institute of International Affairs. *Publications: Contemporary New Zealand* (1938); *Western Samoa-Mandate of German Colony. Recreations:* Golf; Reading. *Clubs:* Wellington, New Zealand; Delhi Gymkhana. *Address:* 10, Janpath, New Delhi.

PRADHAN, Pabitra Mohan, B.A. (Hons.) (Econ.), Dip. in-Edn., Minister for Education, Agriculture & Tribal and Rural Welfare, Orissa, since June 1961. *b.* Feb. 8, 1910; *Educ.:* Primary and secondary education at village Poipal and Talcher High School respectively; Ravenshaw Coll. and Radhanath Training Coll., Cuttack. Pres., Prajamandal, 1938; imprisoned, 1940; escaped from jail and launched guerilla war against State's Force, 1942; acted as liaison suicide-squad of I.N.A. of Netajee Subhas Chandra Bose in Assam-Burma border, 1943-44; organised States people for final overthrow of rulers of Princely States, 1947; Exec. Councillor for administration of Orissa States, 1948-49; nominated, M.L.A., Orissa, 1950; Minister, Govt. of Orissa, in charge of Labour, Commerce & Public Relations Deptts., 1950-52; elected M.L.A., Orissa, 1957; Minister, Commerce and Tribal and Rural Welfare, 1957-59; elected again M.L.A., Orissa, 1961. *Publications: Muktipathe Sainik* (Soldier on path of freedom). *Address:* Bhubaneswar.

PRAKASA, Sri, B.A. (Allahabad), B.A., LL.B. (Cantab.), Bar-at-Law, Padma Vibhushan (Jan. 26, 1957), Governor of Maharashtra since May 1, 1960. *b.* August 3, 1890; *Educ.* B.A., Allahabad, 1911; B.A., LL.B. (Cantab.), 1914; called to the Bar, 1914. Educationist, Journalist and Politician; connected with the Benares Hindu Univ. (1914–17); *Leader,* Allahabad (1917–18); *Independent,* Allahabad (1919); *Aj,* Benares (1920–43); *National Herald,* Lucknow, since 1938; member, A.I.C.C. (1918–45); Founder member, Kashi Vidyapith (1921); member, Benares Municipal Board (1921–25); General Secretary, U. P. C. C. (1928–34), and Indian National Congress (1929–31); President, U.P. Political Conference (1934) and President, U.P.C.C. (1934-35); M.L.A. (Central), 1934; re-elected, 1945; Pres., Karnatak Provincial Conference, 1935; Chairman, Reception Cttee., Indian National Congress, 1936; imprisoned for Congress activities in 1930, 1932, 1941 and 1942; elected member, Indian Constituent Assembly from U.P., 1946; High Commissioner for India in Pakistan, Aug. 1947-Feb. 1949; Governor of Assam, Feb. 1949-May 1950; Minister of Commerce, Govt. of India, May 1950-Feb. 1951; Minister for Natural Resources & Scientific Research, Govt. of India, Feb. 1951-March 1952; elected M.P. in the 1st general elections, Feb. 1952; subsequently resigned; Governor of Madras, March 1952–Dec. 1956; Governor of Bombay, 1956-60. *Club:* Rotary Club, Banaras. *Publications: Annie Besant, as Woman and as Leader* (in English) and *Grihasta Gita; Sphut Vichar, Nagarik Shastra* and *Hamari Antarik Gatha* (in Hindi). *Address:* Sevashrama, Banaras; Raj Bhavan, Bombay 6.

PRASAD, Mr. Justice Raj Kishore, M.A., B.L., Judge, Patna High Court, since May 12, 1955. *b.* March 30, 1902 at Isapore, Dist. Patna; *Educ.:* Matriculated in the first division from Palamau Zila School at Daltonganj, 1916; joined Patna College, same year; took M.A. degree in English language and literature, 1922; joined Patna Law Coll., 1920 and took B.L. degree, Jan. 1924, having been placed high in the first class at both the Intermediate and Final law Examinations; Freemason E.C.; formerly Junior Warden, Patna Lodge; Secy., Patna Coll. Chanakya Society, Debating Society, and Prefect, Minto Hindu Hostel, 1919-20. Enrolled as pleader and joined Dist. Court, Gaya, 1924; enrolled as Advocate, Patna High Court and set up practice at Patna, 1933; enrolled as Advocate, Federal Court of India, 1939; enrolled as Senior Advocate, Supreme Court of India, 1950; argued cases before Federal Court and Supreme Court of India; Asstt. Public Prosecutor at Gaya; on Advocate-General's Panel in the High Court, and part-time lecturer at the Patna Law Coll., 1939-43; ex-Member: Bihar Univ. Senate and Syndicate, 1952-55; Patna High Court Bar Council, 1945-55; Council of All India Federation of Educational Assocs., Governing Bodies of Deoghar Coll., and B.N.R. Trg. Coll.; Executive Cttee. of Patna High Court Advocates' Assoc.; Life Member, Bharat Scouts and Guides State Council, Bihar State;

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Ex-Pres. Rotary Club of Patna; Kishore Dal, Central Hqrs., Bihar State; Governor, Dist. 325, Rotary International, 1957-58; Rotary Information and Extension Counsellor, Districts 310 and 325 R.I., 1958-59; Co-Chairman, 1958 Asia Regional Conference Cttee., Rotary International President's Personal Representative for conference of District 305 at Bhopal, 1961; ex-member: Executive Cttees.: Bihar Young Men's Institute; S.P.C.A., State of Bihar; Patna Deaf and Dumb School; Ex-Asstt. State Commr. for Scouts, Bharat Scouts and Guides, Bihar State; Ex-Member: Governing Bodies of Patna Law Coll., Sachchidananda Sinha Coll., Aurangabad and H. D. Jain Coll., Arrah; Exec. Cttees. of Patna Law Coll. and Patna Coll. Old Boys' Assocs.; Working Cttee. of Lawyers' Assoc., Bihar State; Board of Secondary Education, Bihar State and Patna Univ. Secondary Examination Delegacy; Ex-Founder Vice-Pres., Bihar Physical Educational Assoc., Bihar State and Sahishnu, Patna; Member, Old Patna Univ. Senate, 1943-52 and Syndicate, 1948-52; Member, Faculties of Arts and Law, Bihar Univ. and Old Patna Univ. and Examiner in Law (B.L. Exam.) and Member, Board of Examiners in Law, Old Patna Univ.; Examiner in Law (LL.B. Exam.) and Member, Faculty of Law, Univ. of Rajputana; Pres., Netrabihin Kalyan Sangh and Nissahai Balak Griha (Home for Blinds, Destitutes and Orphans), Patna, State of Bihar; Chairman, Executive and Vice-Pres., Patna Law Coll. Jubilee Celebration Council; Pres., Patna Law Coll. Old Boys' Assoc.; Foundation Member, Indian Law Institute; Founder President, The English-speaking Union of the Commonwealth, Bihar Branch, Patna; visited U.S.A., Canada, U.K., France, Switzerland, Burma including Shan States and East Pakistan, 1957; Singapore, Malaya, and Thailand, 1958 and West Pakistan, and Nepal, 1959; visited also many towns in India during 1957-59. *Publications:* *Law of Torts*, 1947, prescribed for B.L. Exam. by the Old Patna Univ. *Hobbies:* Walking, reading and writing; Public and Social work. *Address:* Shashi Sadan, Patna-3, Bihar.

PRASAD, Dr. Rajendra, M.A., M.L., LL.D., President, Indian Republic, since Jan. 26, 1950. *b.* Dec. 3, 1884; *Educ.:* Presidency Coll., Calcutta. Prof. of English, G.B.B. Coll., Muzaffarpore, 1908; practised as lawyer, Calcutta High Court, 1911-16; Patna High Court, 1916-20; joined Mahatma Gandhi in Champaran agrarian movement; suspended practice as lawyer and joined non-co-operation movement, 1920; General Secretary, Indian National Congress; member, Congress Working Committee; President, Indian National Congress, 1934, 1939, 1947-48; imprisoned several times for taking part in Civil Disobedience Movement; for last time, Aug. 1942; released, 1945; Minister for Food and Agriculture, Govt. of India, 1946-48; Pres., Indian Constituent Assembly, 1946-50; other activities include propagation of Hindi, journalism, and social, humanitarian and relief work in general; one of the founders of the Patna English daily newspaper, *Searchlight* and the Hindi Weekly, *Desh*; paid State visits to Japan, Sept. 1958, Malay and Indonesia, Dec. 1958, Indo-China States, March 1959, Soviet Union, June-July 1960. *Publications: India Divided; Atma Katha* (autobiography), *Mahatma Gandhi in Champaran* and *At the Feet of Mahatma Gandhi. Address:* Rashtrapati Bhavan, New Delhi.

PRASADA, Krishna, I.C.S. (retd.), Secretary, Bharat Sewak Samaj. *b.* Aug. 4, 1894; *Educ.:* Bareilly College, Bareilly, and New College, Oxford. Started service in 1921 in U.P. where he was Collector & District Magistrate till 1934, when he was appointed P.M.G. Led the Indian Delegations to the International Tele-communications Conferences, Cairo, in 1938, Buenos Aires, 1952, and to the International Postal Congress, Paris, in 1947; Oxford Tennis Blue (1921); played for India in the Davis Cup in 1927 and 1932; Pres., Indian Lawn Tennis Assoc., 1951; Director-General, Posts and Telegraphs, 1945-53. *Address:* 2, Lodi Estate, New Delhi 3.

PRASADA, Shankar, M.Sc., I.C.S., Secy., Kashmir Affairs, since Aug. 1958 and Secy. for Frontier Areas, since Feb. 1960, Ministry of Home Affairs; Chairman, Mining & Mineral Products Corpn., Jammu and Kashmir, since Jan. 1960. *b.* March 11, 1905; *Educ.:* Al'ahabad Univ., Al'ahabad; Magdalene College, Cambridge. Joint Magistrate, 1930-36; Magistrate & Collector, Shahjehanpur, 1937-38; Dy. Secy., Govt. of U.P., Education & Industries Dept., 1938-41; Settlement Officer, 1941-42; Excise Commissioner, Uttar Pradesh, 1942-46; Magistrate & Collector, Meerut, 1946-47; Chief Commissioner, Ajmer, 1947-48; Chief Commissioner, Delhi, 1948-54; Chairman: Joint Water and Sewage Board, Delhi, 1948-54; Delhi Road Transport Authority, 1951-54; Chairman, Indian Airlines Corporation, March 1954-Jan. 1958; member, Air India International Corporation, till Jan. 1958. Dir.-General, Posts and Telegraphs, Jan.-Aug. 1958. *Club:* Delhi Gymkhana Club. *Address:* Delhi.

PREMJI, Mahomed Husein Hasham, B.A., J.P., Business man and Industrialist. *b.* May 31, 1915; *Educ.:* Deccan Coll., Poona, Elphinstone Coll., Bombay. Sole Proprietor, Hasham Premji; Managing Agents, Western India Vegetable Products Ltd.; managing the New Pratap Spg., Wvg. & Mfg. Co., Ltd.; ex-Pres., Indian Merchants' Chamber; Pres., All-India Federation of Foodgrain Dealers' Associations; ex-Chairman: Vanaspati Manufacturers' Assoc., Rice Merchants Assoc.; Dir.: State Bank of India; Anil Hardboards India Ltd.; The Great Eastern Shipping Co. Ltd.; Bhopal Sugar Industries Ltd., etc.; member: L.I.C. of India, etc.; led an unofficial trade delegation to Iraq, May 1959; a rotarian of 21 years; Past Governor and Past Information and Extension Counsellor for Districts 315, 317 & 320; served on various Cttees. appointed by the Govts. of India and Maharashtra. *Recreations:* Horse Riding, Tennis, Swimming. *Address: Residence:* 54, Byramjee Hill Road, Bombay 50; *Office:* Hasham Premji House, 5, Ghoga Street, Bombay 1.

PURANIK, G. V., alias Nanasaheb, Registered Medical Practitioner, Panvel, Maharashtra. *b.* March 1, 1907; *Educ.:* V. K. High School, Panvel; Fergusson Coll., Poona; Grant Medical Coll., Bombay. *Chairman:* All India Manufacturers' Organization, Bombay; Sathe Biscuit & Chocolate Co. Ltd., Poona; Indian Pharmacists' Assoc., Bombay; *Vice-Pres.:* Mumbai Marathi Sahitya Sangh, Bombay; *Ex-Pres.:* Maharashtra Chamber of Commerce, Bombay; Konkan Education Society, Roha, Dist. Kolaba; *Ex-Working Pres.:* Bombay Physical Culture Assoc., Bombay; Chief Editor: *Arogya Mandir*, Monthly Magazine, devoted to Health, Physical Culture and Indigenous System of Medicine, Amaraoti; presided over: the All Maharashtra Physical Culture Conference, Poona, 1944; The Maharashtra Provincial Ayurvedists' Conference, Kolhapur, 1949; member: Central Customs & Excise Advisory Cttee., Govt. of India; Employees State Insurance Scheme, Regional Advisory Cttee., Bombay; 'Workers Participation in Management' Cttee., Govt. of India; Joint Standing Cttee. for Scientific Research and Industry, Govt. of India; State Advisory Council of Industries, Maharashtra; Sales Tax Advisory Cttee., Maharashtra; All India Manufacturers' Organization Delegation which visited U.K., Europe and U.S.A., 1946-47; Indian Delegation to the World Economic Conference, held in Moscow, 1952; Deputy Leader: Delegation of the All India Manufacturers' Organization, Bombay, which visited Japan and South-East Asian Countries; ex-member: Sales Tax Enquiry Cttee., Govt. of Bombay; Cttee. for Standard Ayurvedic Herbs and Drugs, Maharashtra, Bombay; Managing Director: Dhootapapeshwar Industries Ltd., Panvel, Maharashtra; Dhootapapeshwar Sales Corporation Pvt. Ltd., Panvel, Maharashtra; Director: The Bombay Sales & Agencies Pvt. Ltd., Bombay; Dhootapapeshwar Prakashan Pvt. Ltd., Panvel, Maharashtra; The Swastik Textile Mills Ltd., Bombay; The Panvel Taluka Electric Supply and Development Co. Ltd., Panvel, Dist. Kolaba; member: Local Board, Western Area, Reserve Bank of India; member of the Exec. Cttee.: Indian Merchants' Chamber, Bombay; Indian Council of Foreign Trade, Bombay; Assoc. of Indian Industries, Bombay; Maharashtra Chamber of Commerce, Bombay; Maharatta Chamber of Commerce & Industries, Poona; Indo-American Society, Indo-Japanese Assoc., Bombay; Bombay Physical Culture Assoc., Bombay. *Recreations:* Tennis, Photography. *Clubs:* Rotary Club of Bombay; National Sports Club of India, Bombay; Western India Automobile Association Club, Bombay; Cricket Club of India, Bombay; P. J. Hindu Gymkhana, Club of Maharashtra Ltd. (Poona) (Vice-Pres.). *Address:* 'Dhootapapeshwar Prasad', Girgaon, Bombay 4.

PURI, Som Prakash, B.A. (Hons.), C.A.I.B. (London), Managing Director, State Bank of India, Bombay, since 1958. *b.* July 25, 1909; *Educ.:* Central Model School, Lahore; D.A.V. Coll., Lahore; Govt. Coll., Lahore; London School of Economics, London. Joined the service of the Imperial Bank of India in London, 1930; transferred to India as a Probationary Officer, 1932; after confirmation as a Staff Officer, served at various branches of the Bank; appointed Supdt., Advances Deptt., Calcutta, 1949; appointed Dist. Manager, Kanpur, 1951, Deputy Secy. & Treasurer (Bengal Circle), Calcutta, 1952, Deputy Secy. & Treasurer (Bombay Circle), Bombay, 1954, Secy. & Treasurer (Bengal Circle), Calcutta, 1957. *Recreations:* Golf, Tennis. *Clubs:* Calcutta Club Ltd., Calcutta; Willingdon Sports Club, Bombay; Royal Calcutta Golf Club, Calcutta. *Address:* "Kinellan", Nepean Sea Road, Malabar Hill, Bombay.

PURI, H.E. Yogendra Krishna, I.C.S., High Commissioner for India in Ma'aya, since Sept. 1960. *b.* July 25, 1916; *Educ.:* Govt. Coll., Lahore; Univ. Coll., London. Appointed to the I.C.S., Sept. 24, 1938; served in Assam successively as Asstt. Commr., Under-Secy. (Pol.) and Secy., Supply Deptt. till Oct. 1946; appointed to the Finance & Commerce Pool, Govt. of India, 1946; Dy. Secy.: Finance Ministry, July 1947; Ministry without Portfolio, Oct. 1947; Dir-Gen., Rehabilitation Ministry, 1948; Dy. High Commr. for India in Pakistan, Lahore, 1948-51; Dy. Secy., Min. of External Affairs, 1951-53; Counsellor, Indian High Commission, London, Sept. to Dec. 1955; Jt. Secy., Min. of External Affairs, 1955-60. *Address:* C/o Ministry of External Affairs, New Delhi.

PURUSHOTTAM, Jatavallabha, M.A. (Madras) in Sanskrit and Telugu, Sanskrit Writer; Lecturer in Sanskrit, S.R.R. and C.V.R. Govt. College, since June 1948. *b.* Aug. 2, 1906; *Educ.:* Taylor High School, Narsapur; Maharajah's College, Vizianagaram. Principal, S.V.J.V. Sanskrit College, Kovvur, West Godavari Dist., 1932-48; Congress Detenu, 1943. *Publications:* *Vedic Women; Women in the Smritis; Hinduism; Introduction to Bhagavat Gita, Chitra Satakam*, a century of slokas in Sanskrit, *Bharatiya Vaibhava, Dharma Manjari*, etc. *Address:* Vijayawada (Bezwada).

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PUVVADA Seshagiri Rao, 'Kavipadusha', poet, scholar and writer of Andhra. *b.* in Movva, birth place of Kshetrayya Kavi and Puvvada Sree Rama Kavi. Is an educationist of repute; addressed and presided over numerous literary and cultural meetings in Andhra State; also a broadcaster; participated in the National Symposium of Poets inaugurated by President Rajendra Prasad on the Republic Day, 1958; strives for communal harmony. *Publications :* Kavyas, novels, plays and essays. Poems: *Satapatram ; Gobatsam ; Taj Mahal ; Dara ; Palavelli ;* prescribed as text books of Modern Poetry for degree examinations in Andhra, Madras and Utkal Univs. Prose: *Eruvaka ; Aura ; Evaru ; Andhra Tejam ;* Plays: *Durga Das ; Delhi Durbar ; Tissa Parishkaram* and *Prithvi Putri. Address :* Professor of Telugu, National College, Masulipatam.

RACHIAH, N., B.A., B.L., Minister for Agriculture, Social Welfare, Prohibition, Mysore, since May 1959. *b.* May 8, 1920 in Nagarle Village, Mysore Dist.; *Educ. :* B.A. from Maharaja's Coll., Mysore; B.L. from Law Coll., Bangalore. Was member of Parliament, 1951-57; was elected member, Cttee. of the Congress Party in Parliament; member, Estimates Cttee. of Lok Sabha; associated with many social, educational and other cultural activities; elected M.L.A., Mysore, 1957; Minister for Social Welfare, Excise and Prohibition, May 1958–May 1959. *Address :* Bangalore.

RADHAKRISHNAN, Sir S., Kt. (1931), F.R.S.L., M.A., D.Litt. (Hon.), LL.D., D.C.L., Litt.D., F.B.A., Bharat Ratna (1954), German pour la merite (1955), Master of Wisdom (Mongolia, 1957), Goethe Plaquette (1959), Vice-Pres., Indian Republic; discharged duties of the President while Dr. Rajendra Prasad was away, June-July 1960. *b.* 5th Sept. 1888; *Educ. :* Madras Christian College. For some time Prof. of Philosophy, Presy. Coll., Madras and in Mysore Univ.; Upton Lecturer in Comparative Religion, Manchester Coll., Oxford; Hibbert Lecturer, 1929-30; Vice-Chancellor, Benares Hindu Univ., 1939-48; Spalding Professor of Eastern Religions and Ethics, Oxford, 1936-52; George V Professor of Philosophy, Calcutta, 1921-39; member, International Cttee. on Intellectual Co-operation, 1931-39; member and leader, Indian Delegation, U.N.E.S.C.O., 1946, 1947, 1948, 1949, 1950; Pres., 1952; elected Chairman of the Executive Board, U.N.E.S.C.O., 1948; Chairman, Univ. Commsn., Govt. of India, 1948; Indian Ambassador Extraordinary and Minister Plenipotentiary to Soviet Russia, 1949-52: Chancellor, Delhi Univ., 1953: Chairman, Indian P.E.N.; Vice-Pres., International P.E.N. Elected Vice-President, Indian Republic, 1952 and again 1957; went on a two-month goodwill tour of European countries namely Belgium, Poland, Czechoslovakia, the Soviet Union, Hungary and Bulgaria, and African countries namely East and Central Africa, June-July 1956; received the Hony. Professorship of Moscow Univ., June 18, 1956; visited Singapore, Indonesia, Japan and China on a goodwill tour, Sept.-Oct. 1956; went on a three-week tour of the Indo-China States, China, Mongolia and Hong-Kong, Sept. 1957. Attended East-West Philosophers' Conference in Honolulu, visited U.S.A., attended the P.E.N. Congress in Germany, July 1959; went on a goodwill tour of England and Scandinavia, Jan.-Feb. 1960; attended the UNESCO conference at Paris, Nov. 1960; visited also the U.S.A.; acted as President of India, Aug.-Sept. 1961 during Dr. Rajendra Prasad's illness. *Publications : Philosophy of Rabindranath Tagore, Reign of Religion in Contemporary Philosophy, Indian Philosophy,* 2 Vols., *The Hindu View of Life, An Idealist View of Life, East and West in Religion, Kalki or the Future of Civilisation, The Religion We Need, Gautama the Buddha, Eastern Religions and Western Thought, India and China, Religion and Society, Education, Politics and War, Bhagavadgita, Dhammapada, The Principal Upanishads, Recovery of Faith, East and West, Some Reflections, Brahma Sutra.* Articles on Indian Philosophy and others in Encyclopædia Britannica. *Address :* 30, Edward Elliot Road, Madras; 2, King Edward Road, New Delhi.

RAGHAVAN, Venkatarama, M.A., Ph.D. Kavi-Kokila and Kane Gold Medal, 1954, Hony. Corresponding Member, Ecole Francaise d' Extreme-Orient, 1947 and Austrian Academy of Sciences, 1958; Sanskrit scholar; Professor of Sanskrit, Madras University. *b.* Aug. 22, 1908; *Educ. :* Tiruvarur (School); Presidency Coll., Madras. Research Scholar, Research Assistant, Lecturer, Reader and Professor, Madras Univ., 1935-58; Pres., All India Oriental Conference; member: Sanskrit Commission & Central Sanskrit Board, Govt. of India; Sahitya, Sangita Nataka & Lalit Kala Academies, Delhi; Secy. & Editor, Music Academy & its Journal, Madras; Correspondent, *Journal of Oriental Research ;* Editor, *Sanskrita Pratibha,* Sahitya Akademi; visited Europe (1953-54), U.S.S.R., 1958. *Publications : New Catalogues Catalogorum ; Indian Heritage ; Sanskrit and Allied Studies in Europe ; Bhoja's Sringara Prakasa ; The Number of Rasas ; Some Concepts of Alankara Sastra ; Varalakshmi vratam* (Tamil short stories); *Prayers, Praises and Psalms ; Yantras or Mechanical Contrivances in Ancient India ; The Social Play in Sanskrit ; Nrttaratnavali of Jayasenapati ; Love in the Poems and Plays of Kalidasa ; Sarvadevavilasa. Address :* Madras University, Madras 5.

RAGHU RAMAIAH, Kotha, M.A., LL.B., Barat-Law, Deputy Minister for Defence, Govt. of India, since May 1957. *b.* Aug. 6, 1912; *Educ. :* Andhra Christian Coll., Guntur; Lucknow Univ.; Middle Temple, London. Practised in Madras High Court, 1937-41; held various posts in the Madras Govt. and Govt. of India; resigned from Govt. service, 1951; enrolled as Advocate, Supreme Court; member: Estimates Cttee., Lok Sabha, 1954; Exec. Cttee., Congress Party in Parliament, 1954; Exec. Cttee., Indian Institute of Public Administration, 1954; Indian Central Tobacco Cttee., since 1953; General Purposes Cttee. of Lok Sabha, since 1955; Rules Cttee. of the Lok Sabha, since 1955; Legal Advisory Cttee., A.I.C.C., since 1956; Secy., Congress Party in Parliament, 1955; Alternate delegate to the Trusteeship Cttee. of the U.N., 1956; Alternate delegate to the General Assembly of the U.N., 1956; Alternate delegate to the Conference on the "Law of the Sea" held at Geneva, March 1960; Delegate to the Inter-Parliamentary Union Meeting at Nice (France), 1957; Chairman, Petitions Cttee. of the Lok Sabha, 1955. *Address :* 14, Asoka Road, New Delhi.

RAGHUBIR SINH, Maharaj Kumar Dr., M.A., D.Litt., LL.B., M.P. (Rajya Sabha), Heir-Apparent of Sitamau (Malwa). *b.* Feb. 23, 1908; *Educ. :* At home and the Holkar Coll., Indore; took B.A. (1928), LL.B. (1930) and M.A. (1933) from the Agra Univ.; awarded D.Litt. on the thesis *Malwa in Transition,* 1936. Closely associated with the Sitamau State Administration, 1934-38; High Court Judge, Sitamau State, 1932-40; Pres., Sitamau State Shasan Samiti (Executive), 1939-41, 1945-48; Pres., Sitamau State Rajya Parishad (Legislature), 1939-41 and 1945-46; actively participated in the Chamber of Princes affairs; took a leading part in bringing about the formation of the Madhya Bharat Union, 1948; member of Parliament (Rajya Sabha) since Apr. 1952; attended the XIth Session of the United Nations General Assembly as the Parliamentary Adviser to the Indian Delegation to U.N.; served in the Indian Army as an Emergency Commissioned Officer, 1941-45; Capt. (1941), Major (1942); an eminent writer of Hindi prose and a historian of great repute; awarded the Mangala Prasad Prize for the year 1945 for his Hindi book *Malwa Men Yugantar* by the Hindi Sahitya Sammelan, Allahabad; awarded a prize by the U.P. Govt. for his Hindi book *Purva-Adhunik Rajasthan,* Feb. 1954; Corresponding member, Ind. Hist. Rec. Comm., 1937-42 and since 1952; presided over Local Hist. Section (Dec. 1952) and Mughal Hist. Section (Dec. 1953) of Ind. Hist. Cong. at Gwalior and Waltair Sessions respectively; owns a library, Shri Raghubir Library, at Sitamau, having a large collection of important historical manuscripts and rare printed books on the Muslim and Maratha periods of Indian History. *Publications :* (Hindi) *Purva-Madhyakalin Bharat, Bikhare Phool, Sapta Deep, Malwa Men Yugantar, Shesha Smritiyan, Jeevan Dhuli, Jeevan Kan, Ratlam ka Pratham Rajya, Purva-Adhunik Rajasthan ;* (English) *Malwa in Transition, Indian States and the New Regime, A Hand-List of Important Historical Manuscripts in Shri Raghubir Library.* Edited, (Hindi) *Kahani : Nai-Purani ; Ram-Charitra* by Raghunath *'Rasal' ; Vachanika Rathore Ratan Singh ri Maheshdasot ri* by Khadiya Jaga; (English) Poona Residency Correspondence Series, (Vol. IX) *Daulat Rao Sindhia and Northern Indian Affairs* (1800-1803); (Vol. X) *Treaty of Bassein and the Anglo-Maratha War in the Deccan* (1803-04); (Vol. Extra) *Selections from Sir C. W. Malet's Letter-Book :* 1780-1784. Translated into Hindi Dr. Jadunath Sarkar's *A Short History of Aurangzib* under the title *Aurangzib. Address :* "Raghubir Niwas", Sitamau.

RAHA, Kshetra Mohan, B.A. (Cantab.), D.I.C., A.F.R.Ae.S., M.Ae.S.I., Director General of Civil Aviation, Govt. of India. *b.* Nov. 7, 1905; *Educ. :* Hastings House School, Calcutta; Perse School, Cambridge; Trinity Coll., Cambridge; Imperial Coll. of Science & Technology, London. Appointed Aerodrome Officer, Civil Aviation Directorate, Govt. of India, 1931; Representative of India on the Council of the International Civil Aviation Organization, Montreal, 1946-47; Dy. Director General of Civil Aviation, 1947-58. *Recreations :* Indoor hobbies (Electronics). *Clubs :* Delhi Gymkhana Club, National Sports Club. *Address :* 12, Asoka Road, New Delhi.

RAHMAN, Habib, B.E. (Cal.), M. Arch. (M.I.T.), Padma Shree (1955), Senior Architect to the Govt. of India, since 1953. *b.* March 1916; *Educ. :* Calcutta Univ. and Massachusetts Institute of Technology (U.S.A.). Worked in leading Architectural Firms of Boston and New York, 1944-46; Senior Architect, West Bengal Govt., 1947-53; first Indian to receive Architectural Training in U.S.A.; first Indian Architect to be awarded 'Padma Shree'; member, Lalitkala Akadami, 1956; Fellow of Indian Institute of Architects, 1957; designed and constructed over hundred buildings all over India; important among them being West Bengal's 13 storeyed Secretariat, Gandhi Ghat, Calcutta, D. G. P & T. Building, New Delhi, Auditor General's Bldg., New Delhi, W.H.O. Bldg., New Delhi, Rabindra Bhawan (National Akadamies), New Delhi, Maulana Azad's Tomb and New Delhi Zoo. *Recreations :* Photography. *Clubs :* Delhi Gymkhana. *Address :* 29C, Sujan Singh Park, New Delhi 3.

RAINA, Jagat Mohan Nath, M.A. (History), I.A.S., Chief Commissioner, Manipur, since April 26, 1958. *b.* Jan. 1, 1911; *Educ. :* C. A. V. High School, Allahabad; High School, Bijnor; K. P. Inter. Coll., Allahabad; Univ. of Allahabad; came first in the M.A. Exam in History, Allahabad Univ., 1935. Selected for U.P. Civil Service, 1933; Deputy Collector, Banda, March 23, 1934; remained on Dist.

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Staff in Banda, Mirzapur and Ghazipur Districts, 1934-41; Civil Defence Staff Officer, Rohilkhand Division, Bareilly, Aug. 1941-May 1943; Dist. Supply Officer, Bareilly, May 1943-July 1946; City Magistrate, Aligarh, Jan. 1947-May 1948; Adm., Agra, May 1948-March 1949; Magistrate and Collector: Aligarh, March 1949-May 1951; Agra, May 1951-March 1955; Allahabad, March 1955-April 22, 1958. *Recreations:* Cricket, Hockey, Tennis and Shooting. *Clubs:* Agra Club, Agra; Cosmopolitan Club, Allahabad. *Address:* Chief Commissioner's House, Imphal, Manipur.

RAIZADA, Man Mohan Lal, Rais, Landlord. *Educ.:* Privately and at the Hindu Coll., Delhi. Entered business at an early age; takes active part in social and commercial activities; Life member, Hardinge Library, Delhi; Director, Raizada Bros. (Private) Ltd., Delhi; Prop., Raizada Motors, New Delhi; Director: Delite Theatre, New Delhi; Rampur Distillery and Chemical Co., Ltd., Rampur; K. M. (Private) Ltd., New Delhi; is also connected with various other industries; Cttee. member: Lok-Kala-Manch, and Sarda Ukil School of Art, New Delhi; member, Special Cttees. of M.P.A., and also Associate for M. & S.H. in (India). *Recreations:* Music, Cricket, Walking and Driving. *Clubs:* Chelmsford Club, N.S.C.I., New Delhi, Roshanara Club, Delhi, Calcutta Punjab Club, Calcutta. *Address: Office:* Delite Theatre Bldg., New Delhi; *Residence:* "Raibahadur Piyare Lal House", Prem Narain Road, Bazar Sita Ram, Delhi.

RAJA, Chittenjore Kunhan, M.A. (Madras), D. Phil. (Oxon.), Gaveshaka Tilaka (1946), Sanskrit scholar; Professor of Sanskrit, Andhra Univ., since 1954. *b.* Sept. 18, 1895, of the Chittenjore Royal Family in Malabar; *Educ.:* studied Sanskrit in the Palace; Presidency Coll., Madras; went to Europe on Govt. of India scholarship, 1920; Oxford, Heidelberg and Marburg. In-charge, Adyar Library, 1926-53; Prof. of Sanskrit in Teheran on deputation by the Govt. of India, 1950-54; organised and catalogued many oriental libraries in Rajasthan; a linguist; knows Greek, Latin, Avesta, Old Persian, Cuneiform, Assyrian, Hittite and Persian; is a scholar in Pali and Buddhism; awarded Gold Medal and Gold Bracelet by the Maharaja of Cochin in recognition of his research and volume of studies by scholars, 1945. *Publications:* Editions of rare works in Sanskrit mostly from single manuscripts in the Madras Univ. and Adyar Library series, Bikaner series and Poona oriental series; many original publications and translations. *Address:* C/o Mr. V. B. Menon, Deccan Herald, Bangalore 1.

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RAJA, Shantikumar Tribhuvandas, B.A., LL.B., Bar-at-Law, Managing Director, Hindustan Antibiotics Ltd., Poona, since Jan. 1, 1958. *b.* Oct. 2, 1914; *Educ.:* Elphinstone Coll., Bombay; Govt. Law Coll., Bombay; Middle Temple, London. Practising Barrister, 1938-42; Dewan of Jawhar, Janjira & Akalkot States in Maharashtra, 1942-46; Director of Food & Civil Supplies, Deccan States, Kolhapur Residency, 1946-47; Food Adviser to the Indian Embassy in Washington, Sept. 1947-Aug. 1948; Under Secy. to the Government of India, Ministry of Agriculture, 1948-50; Deputy Secy. in the same Ministry, 1950-53; Administrator, Tubewell Projects, Ministry of Agriculture, 1953-56; Joint Secy. for Co-operation and Marketing, 1956-57. *Publications: Self-Sufficiency in Food; Ganga Khadar; Reclamation of Kans Lands*—Published by the Ministry of Agriculture. *Recreations:* Tennis. *Clubs:* Cricket Club of India; *Pres.,* Rotary Club of Poona (North). *Address:* Managing Director, Hindustan Antibiotics Ltd., Pimpri, near Poona.

RAJABHOJ, Pandurang Nathuji, M.P., Journalist and Agriculturist. *b.* March 15, 1905; *Educ.:* Nutan Marathi Vidyalaya and Maharashtra Education Society's High School, Poona. Ex-member, I.N. Congress; Secy., All-India Depressed Classes League, 1935-37; represented the depressed classes on the Franchise Cttee. of the Simon Commission; imprisoned several times in connection with Satyagraha movement of Scheduled Castes; General Secy., A.I.S.C.F., 1942-54; attended the 5th World Buddhist Conference at Thailand, 1958; Pres.: Indian Buddhist Society; Bharat Dalit Sevak Sangh; travelled in Holland, Switzerland, England, France, West Germany, U.S.A., Turkey, Japan, Australia, Ceylon, Hongkong, Singapore, etc.; has now rejoined the Congress; *Publications: Lashkari Pesha* (Marathi); pamphlets in Marathi on Buddhism; translation of Dr. Ambedkar's books. *Address:* 207, Ghorpade Peth, Poona 2.

RAJAGOPALACHARIAR, C., B.A., B.L., Bharat Ratna (1954), Leader, Swatantra Party. *b.* 1879 in a village near Hosur, Salem Dist.; *Educ.:* Central Coll., Bangalore; Presidency Coll. and Law Coll., Madras. Joined Bar in 1900; joined Satyagraha campaign, 1919 and the Non-co-operation Movement in 1920; edited Mahatma Gandhi's paper *Young India* during the latter's imprisonment; General Secretary of the Indian National Congress, 1921-22; member, working Committee of Congress, 1922-42 and again 1946-47; served sentences of imprisonment on five occasions in Congress campaigns. Vice-Pres., Dakshin Bharat Hindi Prachar Sabha; Prime Minister, Madras 1937-39; resigned Prime Ministership of Madras, October 1939 with other Congress Ministers; resigned in April 1942, from Congress on account of difference of opinion; assisted Mahatma Gandhi in the Gandhi-Jinnah talks in Sept. 1944; member of Governor-General's Council, September 1946-August 15, 1947; Governor of West Bengal, Aug. 1947; acted as Governor-General of India, Nov. 1947; Governor-General of India, June 1948-Jan. 26, 1950; Minister, Govt. of India, without portfolio, May-Dec. 1950 and Home Affairs, Jan.-Nov., 1951; Chief Minister, Madras, 1952-54; among first recipients of Indian decoration Bharat Ratna, 1955. *Publications:* Tamil books on Socrates, Marcus Aurelius, Bhagavad-Gita, Mahabharata, Ramayana and Upanishads; *Fatal Cart & other Stories;* (in English) Mahabharata, Ramayana, Baghavad-Gita, Upanishads and Hinduism, Doctrine and Way of Life. *Address:* Bazlullah Road Thyagarajanagar, Madras 17.

RAJAGOPALAN, G., B.A., M.P. (Rajya Sabha), Gen. Secretary, Indian National Congress, since 1960. *b.* Sept. 22, 1921; *Educ.:* Hindu High School, Triplicane; Presidency Coll. and Law Coll., Madras. Is interested in Congress organisational work; member, Indian National Congress since 1939; was convicted and sentenced to four months R.I. during the 1942 movement for offering Satyagraha; Office Secy., Tamil Nad Congress Cttee., 1945; member: Home Guard Recruitment Cttee., 1948; Film Board of Censors, 1949—Dec. 1953; Prohibition Propagandists Selection Cttee.; South Indian Journalists' Federation; Parliamentary Secretary to the Minister of Information and Broadcasting, Govt. of India, 1953-59. *Recreations:* Table Tennis, Football, Hockey. *Address:* 68, T. P. Koil Street, Triplicane, Madras 5; 11, Ferozshah Road, New Delhi.

RAJAGOPAUL, G. R., B.A. (Hons.), B.L., Advocate, M.B.E. (1945), Special Secretary to the Govt. of India, Ministry of Law, Legislative Deptt.; Member, Law Commission, ex-officio. *b.* Aug. 15, 1905; *Educ.:* Univ. Coll., Rangoon; Research Scholar, Rangoon Univ., 1928-37. Reporter and Editor, Rangoon Law Reports, 1931-42; Junior to the Advocate-General, Burma, 1928-42; Deputy Legal Adviser to the Govt. of Burma, Simla, 1942-45; Chief Judge, City Civil Court, Rangoon, 1945-48; Chief Legal Draftsman to the Govt. of India, since 1948. Secy., Legislative Dept., 1958-60. *Publications:* Worked in collaboration with the Advocate-General, Burma, on *The Laws of India and Burma* 4 Vols.; *Burma Code. Recreations:* Badminton, Tennis. *Address:* 15, Safdarjang Rd., New Delhi.

RAJAN, Viswanatha Nata, B.A. (Hons.) (Madras), I.C.S., Director General, Employees' State Ins. Corpn. since 1960. *b.* Oct. 22, 1907; *Educ.:* Presidency Coll., Madras; passed B.A. (Hons.), 1928; London School of Economics; London School of Oriental Studies; passed I.C.S., 1930. Served as Asstt. Collector, Joint Magistrate and Dist. Magistrate in various districts in Bengal, 1931-43; Deputy and later Director of Civil Supplies, 1943-46; Secy., Education Deptt., 1947; Collector and Deputy Commissioner, Civil Supplies, Madras, 1947-52; Chief Secy., Travancore-Cochin Govt., 1952-54; Director General, Supplies & Disposals, Govt. of India, 1954-60; Leader, Teak Purchase Delegation to Burma, 1957 & 1960 and to Burma and Thailand, 1958; Member: International Social Security Assoc., Geneva. *Clubs:* Calcutta Club, Calcutta; Delhi Gymkhana Club, New Delhi. *Address:* Director-General, Employees' State Ins. Corpn. (Ministry of Labour and Employment), New Delhi.

RAJENDRASINHJI, General, Maharaj, D.S.O. (1941), American Legion of Merit, Degree of an Officer (1946), mentioned in despatches, 1941, Ex-Commander-in-Chief and Chief of Army Staff, Indian Army. *b.* June 15, 1899; *Educ.:* Rajkumar College, Rajkot; Malvern College, U.K.; Royal Mil. College, Sandhurst. Joined 60th Rifles in 1921 and 2nd Royal Lancers; Gardner's Horse in 1922; saw service in Egypt and Western desert, 1941, being awarded the D.S.O., and mentioned in despatches in the same year; on special deputation to U.S.A., 1942-43 and as Military Attache, U.S.A., 1945-46; promoted Brig., 1946; Maj.-Gen., 1947 and Lt.-Gen., Jan. 1948 and posted as G.O.C.-in-C., East Comd., G.O.C.-in-C., South. Comd., May 1948-Jan. 1953; promoted General, 1953; C.-in-C. and Chief of Army Staff, Indian Army, Jan. 15,

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1953-May 1, 1955; C.O.A.S., May 1-May 14, 1955; *Recreations:* Rackets, Cricket, Polo, Golf and Shooting. *Address:* Sukh Niwas, Jamnagar.

RAJKUMAR, H. E. Mr. Nagoji Vasudev, B.A. (Hons.), M.A., LL.B., Dr. Phil., Ambassador for India in Senegal, West Africa. *b.* April 7, 1914; *Educ.:* Madras, Santiniketan, Banaras, Lucknow, Heidelberg. Secretary, Foreign Relations Deptt, Indian National Congress (1946-53); Adviser, Indian Delegation to the U.N. (1952-53); Commissioner for India in Fiji (1953-54); Dy. Secy.-Genl., International Supervisory Commission in Viet Nam (1954-55); Consul-General in Laos (1955-57); Commissioner for India in West Indies & British Guiana and Consul-General in Surinam (1957-61). *Publications:* Editor, *Indian Affairs* (A.I.C.C.); *Indian Political Parties* (1948); *One Year of Freedom* (1949); *Development of the Congress Constitution* (1950); *The Problem of French India* (1951); *Indians Outside India* (1951); *Pilgrimage and After* (1952); *Background of India's Foreign Policy* (1952); Articles and short stories. *Recreations:* Music, Photography. *Address:* Embassy of India in Sénégal, P.B. 398—Dakar.

RAJKUMAR, Dip. Ing., Proprietor of Khemchand Rajkumar and Director of several other companies. *b.* Nov. 12, 1916; *Educ.:* Dresden Univ., Germany; Leeds Univ., England; took Dip. Ing., 1938. Has established large industrial and commercial concerns all over India; has travelled widely and has represented India in many trade delegations and industrial and commercial conferences all over the world; has very good connections all over the world. *Recreations:* Reading, Photography, Outdoor sports. *Clubs:* Rotary Club; Calcutta Club and various other clubs throughout India. *Address:* Khemchand Rajkumar, 33, Netaji Subhas Road, Calcutta 1.

RAJU, Alluri Satyanarayana, Hindi Sahitya Visharada, Minister for Irrigation and Power, P.W.D., Andhra Pradesh, since Jan. 11, 1959. *b.* Jan. 25, 1913; *Educ.:* Primary education at Valamarru village and middle School education at Rayakuduru; the rest in jails for 10 years. Joined National movement as a volunteer, Jan. 19, 1930; courted jail; after release became Pres., Andhra Provincial Youth League; was Pres. for four terms; Pres., Dist. Congress, 1937-40; again jailed for 6 years; was M.L.A., Madras upto 1952; became General Secy., A.P.C.C.; elected Pres., A.P.C.C., defeating Prof. Ranga, 1954; elected Pres., Andhra Pradesh Congress Cttee., 1957; appointed Gen. Secy., A.I.C.C. and member, Congress Working Cttee. during the Gauhati Congress session; has a good knowledge of English, Hindi and Urdu. *Publications:* Translation into Telugu of Pandit Rahul Sankrutyana's work "Volga to Ganges"; contributed articles on various subjects to Telugu magazines and dailies. *Recreations:* Horticulture. *Address:* Hyderabad.

RAJU, Mr. Justice Penmetsa Satyanarayana, B.A., B.L., Judge, High Court of Andhra Pradesh, Hyderabad, since Nov. 1, 1956. *b.* Aug. 17, 1908; *Educ.:* Tanuku, Vijianagram and Madras. Enrolled as Advocate, High Court of Madras, Sept. 25, 1930; practised at Madras mostly on the appellate side; appointed Govt. Pleader of composite Madras State, July 15, 1950; appointed State Counsel, Madras, Dec. 21, 1951; Govt. pleader, Andhra State, Nov. 26, 1953-Oct. 1954; Judge, High Court of Andhra, Nov. 1954-Oct. 31, 1956. *Clubs:* Cosmopolitan Club, Madras. *Address:* Somajiguda, Hyderabad.

RAJU, Dr. P. T., B.A. (Allahabad), M.A. (Calcutta), Ph.D. (Calcutta), Sastri (Govt. Sanskrit Coll., Benares), Padma Bhushan (1958), Univ. Professor of Philosophy and Psychology, Univ. of Rajasthan, Jaipur. *b.* Aug. 17, 1903. Some time Reader in Philosophy, Andhra Univ., Waltair; some time Secy., Indian Philosophical Congress; Sectional Pres., Indian Philosophical Congress, 1938; All-India Oriental Conference, 1947; General President, Indian Philosophical Congress, 1960; Tata Visiting Prof. of Philosophy, The Asia Institute, New York, 1949; Delegate, East-West Philosophers' Conference, Hawaii, 1949; Woodward Lecturer, Yale Univ., 1950; Visiting Prof. of Philosophy, Univ. of California, 1950; Visiting Prof. for Comparative Philosophy, Univ. of Illinois, Urbana, 1952-53; Sir Hari Singh Gaur Foundation Lecturer, Saugar Univ., 1955; Visiting Professor for Comparative Philosophy, M.S. Univ., Baroda, 1956; some time joint-editor, *The Philosophical Quarterly*, Amalner; Member, Editorial Board, *Philosophy—East and West*, Univ. of Hawaii; Philosophical views: Vedanta and Critical Humanism; authority on Comparative Philosophy; awarded the order of merit 'Padma Bhushan' by the President of India, 1958. *Publications:* A number of articles in British, Indian and American philosophical journals; *Thought and Reality* (Allen and Unwin Ltd., London); *Comparative Studies in Philosophy* (Allen and Unwin Ltd., London); *Telugu Literature* (International Book House, Bombay); *India's Culture and Her Problems* (Univ. of Rajputana, Jaipur); *Idealistic Thought of India* (Allen and Unwin and Harvard Univ. Press), and chapters in *Essays in East-West Philosophy* (Univ. of Hawaii Press); *Cultural Heritage of India* (The Ramakrishna Mission); *Philosophy: Eastern and Western* (Govt. of India) and *Radhakrishnan* (Library of Living Philosophers). *Recreations:* Light reading and walking. *Address:* Rajasthan University, Jaipur.

RAJU, P. V. G., Raja of Vizianagram, Health Minister, Andhra Pradesh, since Jan. 11, 1960. *b.* May 1, 1924; *Educ.:* Bangalore, Madras and Columbia Univ. (U.S.A.). Joined Congress, 1947; left, 1948; was a prominent Socialist Leader till he joined Congress again in 1959; member, composite Madras Assembly 1952; elected to Lok Sabha from his home constituency as Socialist. 1957 General Elections. *Recreations:* Golf, Swimming and all outdoor sports: Race horse owner. *Clubs:* Secunderabad Club, C.C.I., Willingdon Club; member of several leading sports clubs. *Address:* Jubilee Hills, Hyderabad.

RAJU, Mr. Justice Vadrevu Bhadri, M.A. (First Class), I.C.S. Judge, Gujarat High Court, since May 1960. *b.* Oct. 28, 1907; *Educ.:* Presidency Coll., Madras; London Univ. Selected for the I.C.S. by competition, 1930; joined service in Bombay, 1932; did valuable work in connection with village improvement; worked as Dy. Secy., Finance Deptt., and as Director, Food Supplies, Bombay; worked as Dy. Secy. in charge of General Elections, 1946; served as Dist. and Sessions Judge, Poona, Ahmednagar, Kaira, Surat, Sholapur, Dharwar, Kolhapur and Nagpur; devised a common script for Indian languages, which has been adopted for typewriting. *Publications: Law of Murder; Penal Code; Law of Evidence;* etc. *Recreations:* Tennis; Badminton; Table Tennis; Chess; Bridge; Billiards. *Address:* Ahmedabad 3.

RAJWADE, H. E. Rao Raja Ramchandra Ganpat, Ambassador of India to Ethiopia, since Oct. 1960. *b.* 1910; *Educ.:* Allahabad Univ., Joined the Gwalior Civil Service and held various posts in the State, Jan. 1935-48; was member, Indian delegation to the F.A.O. Conference at Quebec, 1945; joined the Indian Foreign Service, 1948; First Secy.; High Commission of India, Canberra, 1948-49; Embassy of India, Buenos Aires, 1949-51; High Commission of India, Karachi, 1951-53; appointed Counsellor, Embassy of India, Cairo, June 1953; Charge d'Affairs, Embassy of India, Rabat, 1957-58 and concurrently Charge d'Affairs, Embassy of India, Tunis, 1958; Ambassador of India to Sudan, March, 1959—Oct. 1960. *Address:* C/o External Affairs Ministry, New Delhi.

RAKSHIT, Hrishikesh, D.Sc., F. Inst. P. (1937), F.N.I. (1943), Head of the Deptt. of Electronics & Electrical Communication Engg., Indian Institute of Technology, Kharagpur, since Oct. 1955. *b.* Feb. 8, 1906; *Educ.:* Dupleix Coll., Chandernagore; Hooghly Coll., Chinsurah (upto B.Sc.); Univ. Coll. of Science and Technology, Calcutta (M.Sc. & D.Sc.). Lecturer in Applied Physics, Calcutta Univ. (July 1944-Nov. 1948); Asstt. Director, National Physical Laboratory, Delhi, in charge of Electronics Division (Dec. 1948-Oct. 1949); Head of Deptt. of Physics and Electrical Communication, Bengal Engg. Coll., Howrah; Visited U.K. Sweden, Holland and France for Studying the latest development in Electronics & Electrical Communication, 1960. *Publications:* Author of a large number of original papers on radio electronics and allied subjects in noted scientific journals. *Recreations:* Literature, Music, Gardening. *Address:* Indian Institute of Technology, Kharagpur.

RAM, Charat, B.A., Business Executive. *b.* Jan. 1, 1918; *Educ.:* Modern High School and St. Stephen's Coll., Delhi. Director, Managing Agents for the Delhi Cloth & General Mills Co. Ltd., Jay Engineering Works Ltd., Calcutta and Bengal Potteries Ltd., Calcutta; Chairman, Chemicals and Allied Products Export Promotion Council; actively associated with Scientific Management and Productivity Movements in India. *Clubs:* Golf, Gymkhana, Roshanara, Chelmsford (Delhi). *Address:* 15, Kitchener Road, New Delhi.

RAM, Jagjivan, B.Sc., Railways Minister, Govt. of India, since April 1957. *b.* April 1908 at Arrah in Bihar; *Educ.:* Benares Hindu Univ.; Calcutta Univ.; B.Sc., 1930. Took active interest in the uplift of Depressed Classes early in life; Pres., All India Depressed Classes League, 1936-46; was associated with Hindustan Scout Assoc.; was Provincial Dy. Commissioner, Bihar Branch 1939-46; nominated M.L.C., Bihar, 1936; elected M.L.A., Bihar, 1937; Parliamentary Secy., Bihar, 1937-39; Secy., Bihar P.C.C., 1940-46; jailed, 1940; released Oct. 1943 on medical grounds; appeared before the Cabinet Mission as the accredited leader of the Scheduled Castes; leader of Indian Delegation to the I.L.O. Conference, Geneva, June 1947; elected Chairman, Preparatory Asia Regional Conference of the I.L.O. held in New Delhi, Oct.-Nov. 1947; member, Working Cttee., A.I.C.C., since 1948; Leader, Indian Delegation to 33rd Session of I.L.O. Conference, June 1950 and unanimously elected Chairman of the Conference; member: Central Parliamentary Board, A.I.C.C., since 1950; Central Election Cttee., 1951; Congress Economic Planning Cttee., since 1950; Gandhi National Memorial Trust and Sardar Vallabhbhai Patel Memorial Trust; sponsored many bills to better the condition of industrial workers; ordered an inquiry into condition of Agricultural Labour to consider what protective and ameliorative measures should be undertaken to improve their condition; was Pres. of several trade unions; started agricultural labour movement in Bihar; Labour Minister, Govt. of India, Sept. 1946-May 1952; Communications Minister, Govt. of India, May 1952-Dec. 1956; was responsible for the

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nationalisation of air transport in India; Minister for Transport and Railways, 1956–57. *Address:* 3, Queen Victoria Road, New Delhi.

RAM, Lala Bharat, Chairman, Board of Directors, Managing Agents, Delhi Cloth & General Mills Co., Ltd. *b.* Oct. 5, 1914; *Educ.:* Modern High School, New Delhi; St. Stephen's Coll., Delhi. Joined the Delhi Cloth & General Mills Co., Ltd. as an apprentice to his father, July 1935; Asstt. Managing Dir., 1944-48; Joint Managing Dir., 1948-51; Director, Managing Agents, since 1951; nominated Director and elected Chairman, Board of Directors, 1958; Pres., Delhi & Punjab Cotton Textile Millowners' Assoc.; Chairman, Textile Division Council of Indian Standards Institution; Director: National Machinery Manufacturers Ltd.; Baroda Rayon Corporation Ltd.; Central Board of the State Bank of India; member: Indian Central Cotton Cttee.; Cotton Textiles Fund Cttee.; Govt. of India Purchase Advisory Council; Cttee. of the Federation of Indian Chambers of Commerce & Industry, etc. Central Wage Board for Cotton Textile Industry, 1959. *Recreations:* Indoor and outdoor games, music and painting. *Clubs:* Delhi Golf Club (one of the founders); Delhi Gymkhana Club. *Address:* 14/48, Diplomatic Enclave, Kitchener Road, New Delhi.

RAM, Kesho, I.C.S., B.A., LL.B. (Delhi), LL.B. (Lond.), Principal Private Secretary to the Prime Minister, since Oct. 1956. *b.* Dec. 17, 1914; *Educ.:* Delhi and London. Held various executive posts in West Bengal, Oct. 1939 to Sept. 1945; Controller of Food & Cloth Rationing, Calcutta, Sept. 1945 to Oct. 1946; Director of Civil Supplies, Delhi, Oct. 1946 to Feb. 1948; Deputy Secy., Ministry of Industry and Supply, Feb. 1948 to April 1951; Deputy Secy., Joint Secy. and Secy., Economic Cttee. of the Cabinet, April 1951—Feb. 1956; Joint Secy. and Foreign Service Inspector, Ministry of External Affairs, Feb.–Oct. 1956. *Recreations:* Golf, Painting. *Clubs:* Delhi Gymkhana Club & Delhi Golf Club. *Address:* 4, Tughlak Road, New Delhi.

RAM, Sir Shri, Director, Delhi Cloth and General Mills Co., Ltd., Chairman, Jay Engineering Works Ltd., Bengal Potteries Ltd. *b.* 1884. Chairman: Rehabilitation Housing Corpn.; Kirloskar Oil Engines Ltd.; Regional Cttee. for northern India of the All-India Council for Technical Education; Lady Shri Ram Coll. for Women; Sir Shri Ram Inst. of Industrial Research; Director, Central, and Local Boards of the Reserve Bank of India, Delhi; Sindri Fertilisers and Chemicals Ltd.; past President and member, Executive Cttee. of Federation of Indian Chambers of Commerce and Industry and All-India Federation of Industrial Employers; Director: National Research Development Corpn. of India; member, Board of Scientific and Industrial Research and Chairman of its Cttee. Chairman, Governing Bodies and Trusts of the Indraprastha, Ramjas and Hindu Colleges; Chairman, Delhi Polytechnic; Central Advisory Council for industries. *Address:* 22, Curzon Road, New Delhi.

RAMA RAU, Smt. Dhanvanthi, M.A. (Hons.), (Madras), Padma Bhushan (1959), Kaiser-I Hind Gold Medal, 1955, Lasker award of America, 1938. Social Worker; Pres., Family Planning Assocn. of India. *b.* May 10, 1893; *Educ.:* Hubli; Presidency Coll., Madras. Has been interested in social work and questions relating to women's suffrage and women's rights for over 35 years; Lecturer in English, Queen Mary's Coll., Madras, 1917-19; Pres., All India Women's Conference, 1946; member: Family Planning Board, Govt. of India; Central Social Welfare Board, New Delhi; Chairman, Cttee. of the International Family Planning Assoc. *Address:* 10-D, Mafatlal Park, Bombay 26.

RAMACHANDRAN, Dr. Mrs. T. S. Soundram, M.B.B.S., D.G.O. Founder Director, Gandhigram; ex-Member, Working Cttee., A.I.C.C.; M.L.A. (Madras). *b.* Aug. 1905; *Educ.:* Madurai; Lady Hardinge Medical Coll., New Delhi; Vice-Chairman, Madras State Khadi and Village Industries Board; member, Indian National Congress for many years with special interest in Gandhian constructive programme; twice elected M.L.A., Madras on Congress ticket; participated actively in the "Quit India" Movement and was exiled from Travancore; was Agent, Kasturba Gandhi National Memorial Trust, Tamil Nad for seven years; Chairman, Women's Welfare Advisory Board, Madras; founded and conducted Gandhigram for five years as Director, is now Treasurer; Hon. Project Exec. Officer, Periyar Community Project; member, State Social Welfare Board; is member, Family Planning Board (All India), New Delhi. *Recreations:* Gardening, teaching children. *Address:* Gandhigram, Gandhigram P.O., Madurai Dist., Madras State.

RAMADHYANI, Rangaswamy Kalkunte, I.C.S., Officer on Special Duty, Oil and Natural Gas Commission, Min. of Steel, Mines and Fuel. *b.* Feb. 20, 1908; *Educ.:* Mysore Univ., Univ. Coll., London; London School of Oriental Studies. Served in Madhya Pradesh as Asstt. and Deputy Commissioner, 1930-39; Supdt., Census Operations, M.P., 1939-41; Officer on Special Duty, Eastern States Agency, 1941-42; Jail Deptt., Madhya Pradesh, 1943-44; Controller of Rationing & Dir. of Civil Supplies, Delhi, 1944-46; Joint Secy., Constituent Assembly, 1947; Joint Secy., Defence Ministry, 1947-52; Coal Commissioner, 1952-55; Secy., Ministry of Natural Resources and Scientific Research, 1955-May 1957; Secy., Ministry of Information & Broadcasting, 1957-61. *Publications:* "*Gita's Light in every home*". *Recreations:* Books, music. *Address:* New Delhi.

RAMAIAH, V., Minister for Electricity and Transport, Madras, since 1957. *b.* 1920; *Educ.:* B.A. degree from the Loyola Coll., Madras. Participated in the students movement at the Annamalai Univ. where he was a student and was expelled during the 1942 movement; took active part in the Students Congress movement, in the Loyola Coll.; Secy., Indian Students Congress (Madras State), 1944-45; was elected to the Constituent Assembly and the Provisional Parliament; Pres., Pudukottai Dist. Congress, 1952-55; was member, A.I.C.C. and Tamilnad Congress Exec. Cttee. for a term; took active part in the Scout Movement and in the St. John's Ambulance Brigade; elected M.L.A., Madras from the Thirumayam Constituency, Tiruchy District. *Address:* Minister for Electricity and Transport, Madras.

RAMAKRISHNAN, Dr. Simili Ponnuswami Iyer, M.B.B.S. (Madras), D.P.H. (Calcutta), D.Sc. (Calcutta), Director, Malaria Institute of India, Delhi, since Nov. 1958. *b.* Oct. 22, 1913; *Educ.:* Univ. of Madras, 1937; Univ. of Calcutta, 1940; Malaria Institute of India, 1941; Univ. of Calcutta, 1956. Joined the I.M.S., 1940; released from the Army with rank of Lt.-Col., 1946; Asstt. Director, Malaria Institute of India, 1946; awarded a W.H.O. Fellowship, 1949-50 and 1958; worked in some of the research laboratories in the U.S.A. and the London School of Tropical Medicine and Hygiene; Dy. Director, Malaria Institute of India and later National Malaria Control Programme, 1956-58; Editor, *Indian Journal of Malariology;* visited Egypt as a short-term consultant for W.H.O., E.M.R.O., Oct.-Nov., 1960; Secy., Communicable Diseases Advisory Cttee., Indian Council of Medical Research; Chairman: Malaria Advisory Cttee.; Damodar Valley Corporation; member, Pharmaceuticals and Drugs Research Cttee., C.S.I.R.; Director, Hindustan Insecticides (P.) Ltd. *Address:* C. II/10, Hardinge Avenue, New Delhi.

RAMAMURTI, P., M.P., Communist Leader. *b.* Sept. 20, 1909; *Educ.:* Banaras Univ. and Presidency Coll., Madras. Courted Jail in 1930-32 Congress Movement; political worker, ever since; was in the executive of the Tamilnad Congress Socialist Party, 1935-39; member, A.I.C.C. for about 4 years; Working Cttee. member, A.I.T.U.C.; a top ranking Trade Union leader in Madras State; is an orator; went to I.L.O. Conference, 1946. *Publications:* *Kandal Deepavati* (on cloth famine, in Tamilnad); *Open Letter to Kumarasami Raja.* *Address:* 3, Anthony Street, Royappetta, Madras.

RAMAN, Bangalore Venkata, Editor, *Raman Publications,* Bangalore. *b.* August 8, 1913; *Educ.:* Govt. Collegiate High School and Central Coll., Bangalore; underwent training in Astronomy and Astrology under Prof. B. Suryanarain Rao. Started *Raman Publications* for publishing books on Indian Culture and Astrology, 1936; restarted *The Astrological Magazine,* 1936; Fellow of the Royal Astronomical Society, London, 1948; has toured widely all over India, United States and Europe; has written a number of books in English on Astrology, Astronomy, etc., some of which have been translated into German and French; has made several successful predictions in the pages of *The Astrological Magazine* about national and international events; has been conducting research in astrology, especially in reference to weather and political forecasts; Pres.: Jyotishya Sammelana of the Agamatraya Conference, Bangalore, 1950; First Andhra Astrological Conference, Nellore, 1955; inaugurated the All Kerala Astrological Conference, Trichur, 1958; presided over Nakshatra Phaladesh Samsodhan Mandal, Poona, 1959; lectured on Indian culture and astrology all over the United States of America and U.K., 1959. *Publications:* Books in English on Astrology, Astronomy, etc., some of which have been translated into German and French. *Recreations:* Lawn Tennis and Gardening. *Address:* "Sri Rajeswari", 115/1, New Extension, Seshadripuram, Bangalore 20.

RAMAN, Sir Chandrasekhara Venkata, Kt., M.A., Hon. Ph.D. (Freiburg), Hon. LL.D. (Glasgow), Hon. D.Sc. (Paris), and Bordeaux, F.R.S., Bharat Ratna (1954), Nobel Prize for Physics (1930); Franklin Medallist of the Franklin Institute, Philadelphia; International Lenin Prize for 1957; Foreign member, Soviet Academy of Sciences (1957); Foreign Associate, Paris Academy of Sciences (1949); *b.* Nov. 7, 1888; *Educ.:* A.V.N. Coll., Vishakapatnam & Presidency College, Madras; Officer, Indian Finance Dept., 1907-17; British Association Lecturer (Toronto), 1924; Research Associate, California Institute of Technology, 1924; Mateucci Medallist, Rome, 1929; Hughes Medallist of the Royal Society (1930); Hon. Fellow, Zurich Phys. Soc., Royal Hungarian Acad., Royal Irish Acad., Chinese Phys. Soc., Royal Phil. Soc., Glasgow, Optical Society of America, Franklin Institute, Societe Philomathique (Paris); President, Indian Academy of Sciences, 1934; National Research Professor of Physics, 1949; appointed member, Pontifical Academy of Sciences by Pope John, Aug. 14, 1961. *Publications:* *Molecular Diffraction of Light; Music Instruments; The Physiology of Vision;* and numerous scientific papers in Indian, British and American Journals. *Address:* C/o Raman Research Institute, Hebbal, Bangalore.

RAMANATHAN, Kalpathi Ramakrishna, M.A., D.Sc., F.N.I., Scientist; Director, Physical Research Laboratory, Ahmedabad. *b.* 1893; *Educ.:* Victoria Coll., Palghat; Presidency Coll., Madras. Hon. Director, Trivandrum Observatory; Madras Univ. Research Scholar under Prof. C. V. Raman,

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Calcutta, 1921-22; Dy. Director-General of Observatories until 1948; Pres., Indian Science Congress, Mathematics and Physics Section, Lahore, 1939; Pres.: International Assoc. of Meteorology, 1951-54; Chairman: Atmospheric Research Cttee. of Council of Scientific and Industrial Research, India, 1953-56; Central Board of Geophysics, India, 1959; Pres., International Ozone Commission, 1959; Main fields of research: Problems of molecular scattering of light in fluids; anisotropy of molecules, atmospheric and solar radiation, study of the Indian monsoon, general circulation of the atmosphere, atmospheric ozone, physics of the ionosphere and aeronomy. *Publications:* Contributions to Indian and foreign scientific journals. *Address:* Physical Research Laboratory, Navrangpura, Ahmedabad 9.

RAMANATHAN, Kevesseri Narayana, B.A. (Journalism), General Manager, Press Trust of India, since Sept. 1958. *b.* Oct. 6, 1903; *Educ.:* Mahajana High School, Erode; National High School, Tiruchirapalli; National Univ., Adyar, Madras. Started journalism under Dr. Annie Besant as a sub-editor in *New India*; joined A.P.I. and Reuters, 1927; Manager, Reuters and A.P.I., Calcutta, 1942-49; Chief Correspondent, P.T.I. in South-East Asia with Hqrs. in Singapore, 1949-51; Chief Rep. of P.T.I. with Reuter in U.K. 1951-53; seconded by P.T.I. to work with Reuter in London, 1953-58; keenly interested in the work of the Theosophical Society and has participated in its activities in India, U.K. and Malaya. *Address:* C/o Press Trust of India, Bombay.

RAMANATHAN, Venkatarama, B.A. (Hons.), M.A., B.L., I.C.S., Chief Secretary, Orissa, since Sept. 10, 1959. *b.* Sept. 4, 1911; *Educ.:* St. Joseph's Coll., Tiruchirapally; Law Coll., Madras; School of Oriental Studies. Appointed to I.C.S., Sept. 5, 1935; Under Secy., Govt. of Bihar, Finance Deptt., April 1939—May 1940; Addl. Dist. & Sessions Judge, Bhagalpur, March 1940-April 1941; Magistrate and Collector, Cuttack, May-July 1941; Magistrate and Collector, Balasore, July 1941—April 1943; Dy. Secy., Home and Finance Deptts., April 1943—May 1944; Secy., Education, Health & L.S.G., May 1944—Jan. 1945; Dy. Commissioner, Sambalpur, Jan. 1945—July 1946; Magistrate & Collector, Cuttack, July 1946—Aug. 1947; Secy., Development, Commerce & Labour, Aug. 1947—Aug. 1949; Rev. Commsr., Aug. 1949—July 1951; Member, Board of Revenue, Aug. 1951—Sept. 1955; Member, Board of Revenue and Spl. Commsr. for Relief and Ex-Officio Secy. to Govt., Sept. 1955—Jan. 1957; Pres. and later member, Board of Revenue, Jan. 1957—Sept. 1959. *Recreations:* Tennis and Bridge. *Clubs:* Bhubaneswar Club. *Address:* Bhubaneswar.

RAMANNA, Dr. Raja, B.Sc. (Hons.), Ph.D., Head, Nuclear Physics Division, Atomic Energy Establishment, Bombay, since 1953. *b.* 1925, at Bangalore; *Educ.:* Bishop Cotton School, Bangalore; Madras Christian Coll., Madras; Ph.D. degree in fission physics from London, 1948. Reader, Tata Institute of Fundamental Research; transferred to the Atomic Energy Establishment, as Head, Nuclear Physics Division, 1953; collaborated in the design of the Apsara reactor; now in charge of the utilisation of the three research reactors at Trombay for research in nuclear physics and solid state physics; is also in charge of the 5·5 million volt Van de Graaff machine; attended many International Conferences including the conference on the Peaceful Uses of Atomic Energy at Geneva, 1955 & 1958; attended International conference on Pile Neutron & Inelastic scattering of neutrons held in Vienna and was Chairman of two sessions; is Chairman, Managing Cttee., Joint Project "NORA" between Norwar and the International Atomic Energy Agency. *Publications:* Many papers on neutron thermalisation, nuclear reactions and fission physics. *Address:* Atomic Energy Establishment, Bombay 1.

RAMANUJACHARI, R., M.A., Vidyaratna and Tattvasatratna, Professor and Head of the Deptt. of Education and Dean, Faculty of Education, Annamalai Univ., since 1953. *b.* Dec. 6, 1902; *Educ.:* Presidency Coll., Madras. Professor, Annamalai Univ. from 1936; represented the Univ., at the 8th Quinquennial Session of the Congress of Univs. of the British Commonwealth at Montreal, and visited Univs. and cultural institutions in U.S.A. and the U.K. at the invitation of the U.S. Govt. and the British Council respectively. *Publications:* Has published critical editions of Indian philosophical classics with English translations, such as *Nyayakulisa, Nitimala, Siddhitraya* and *Bhavanopanishad;* publications in Tamil on psychology, such as Educational Psychology, *The Children We Teach* and *Learning and Teaching* and a Tamil rendering of "Dr. S. Radhakrishnan's "*Kalki*". *Address:* Annamalai University, Annamalainagar.

RAMANUJAM, G., Vice-President, Indian National Trade Union Congress. *b.* Feb. 2, 1916; *Educ.:* Srirangam, Trichinopoly Dist. Founder Secy., Tamil Nad I.N.T.U.C., 1947-58; elected Pres., I.N.T.U.C., 1958; again, 1959; attended the 2nd I.L.O. Textile Cttee. Conference in Lyons (France), as a workers' delegate, 1950; visited China, 1954; elected Pres., Indian National Textile Workers Federation, 1956; is a member of several Cttees. connected with labour; member: Textile Tripartite Enquiry Cttee. appointed by the Govt. of Madras; Central Wage Board for the Cotton Textile Industry in India; Central Wage Board for Tea Plantation Industry in India; attended the 42nd Session of the I.L.O. as workers' delegate in June 1958 and the British T.U.C. Conference in Blackpool and the Constitutional Convention of the AFL-CIO in San Francisco as a fraternal delegate, Sept. 1959; visited Japan, Sept. 1959. *Address:* "Vengadam", New Scheme Road, Raghunathapuram, Coimbatore.

RAMASUBBAN, S. S., M.A., General Manager, Western Railway, since June 2, 1960. *b.* June 7, 1907; *Educ.:* Presidency Coll., Madras. Joined the Former GIP Rly., 1930; appointed Asstt. Traffic Manager at Jhansi, 1933; promoted to the senior scale, 1938; transferred as Divisional Traffic Manager at Nagpur, 1941; Joint Director of Rail-Road Co-ordination, Railway Board, 1946-47; Secy. Railway Board, Sept. 1947-May 1951; Divisional Transportation Supt., 1951-53; Senior Deputy General Manager, Central Rly., May 1953, and Western Railway, July 1953-58; General Manager, North Eastern Rly., 1958-60. *Address:* 'Bombarci,' Altamount Road, Cumballa Hill, Bombay.

RAMASWAMI, Periar, E. V. *b.* 1878. Was President, Tamil Nad Congress Cttee.; successfully led Vaikkam Satyagraha as a result of which untouchability and unapproachability came to be abolished in Travancore State; jailed about 19 times for political and social reasons; left the Congress, 1925; fights for eradication of all social evils in general through his Self-Respect Movement and his Tamil papers *Kudi Arasu* and *Viduthalai* and *Revolt* (English); toured Malaya in 1929; toured the Continent, England and Russia in 1931 particularly to study Communism; led anti-Hindi agitation, 1938; started Rational Books Publishing Co. and has published more than 200 books of criticism on God, Religion and Superstition including 10 volumes under the title 'Vulgarities in Ramayana'; founded Dravidian Federation and its ally Black Shirt Volunteer Corps; toured Burma & Malaya, 1954; attended the World Buddhist Conference, Burma; *Address:* Erode; Tiruchirapalli.

RAMASWAMI, Mr. Justice Vaidyanathier, M.A., M.Sc., Barrister-at-Law, Chief Justice, Patna High Court, since April 30, 1956. *b.* Oct. 30, 1904; *Educ.:* Madras, Allahabad and Oxford Univ., called to the Bar from the Inner Temple. Entered Indian Civil Service, Oct. 1929; Addl. Judge, Patna High Court, on the 1st Nov. 1947-Oct. 1948; Puisne Judge, Patna High Court, Oct. 28, 1948-April 1956. *Publications:* Articles on legal topics in various periodicals. *Recreations:* Golf; Tennis; Legal Research; Research in old Sanskrit literature. *Clubs:* Bankipore Club, Patna. *Address:* Chhajjubagh, Patna.

RAMASWAMI AIYAR, Dr. Sir C. P., K.C.S.I. (1941), K.C.I.E. (1925), C.I.E. (1923), ex-Dewan of Travancore, Fellow of Madras University. *b.* Nov. 12, 1879; *Educ.:* Wesleyan High School, Presidency College, and Law College, Madras. Joined the Madras Bar, 1903, and led the original side soon afterwards; enrolled specially as an Advocate, 1923; Fellow of University, 1912; member of Madras Corporation, 1911, served on many committees; member, Indian National Congress and was its All-India Secretary, 1917-18; Madras Delegate to Delhi War Conference; Trustee, Pachayappa's College Trusts, 1914-19; gave evidence before the Southborough Commission on Indian Reforms and the Meston Committee on Finance, also before Mr. Montague and Lord Chelmsford; gave evidence in London before the Joint Parliamentary Committee on Indian Reforms, 1919; University Member of Legislative Council, Madras, 1919; member of Committee to frame Rules under Reforms Act, 1919; member of Legislative Council under Reformed Constitution for Madras, 1920; Advocate-General for the Presidency, 1920; one of the Indian representatives at the Assembly of the League of Nations at Geneva, 1926 and 1927; Rapporteur to the League of Nations Committee on Public Health, 1927; Law Member of Madras Government, 1923-28; Vice-President, Executive Council, 1924; resigned membership of Madras Government, March 1928 and rejoined the Bar, April 1928; delivered the Sri Krishna Rajendra University Lecture at Mysore, 1928; represented the State of Cochin before the Butler Inquiry Committee, 1928; member of the Sub-Committee to draft constitution for uniting British India and the Indian States in a Federation, 1930; Delegate to the Indian Round Table Conference and member of the Federal Structure Committee of the R.T.C., 1931; Acting Law Member, Government of India, 1931; Legal and Constitutional Adviser to the Government of Travancore; member, Consultative Committee of the R.T.C.; delivered the Convocation Address of the Delhi University, 1932; Tagore Law Lecturer, Calcutta University, 1932; Acting Commerce Member of the Government of India, 1932; Chairman of the Committee appointed by the Chamber of Princes to consider the White Paper, 1933; member, Joint Select Committee of Parliament on Indian Reforms, 1933; Delegate to World Economic Conference, 1933; drafted a new constitution for Kashmir, 1934; member, Government of India Committee on Secretariat Procedure, 1935; Dewan of Travancore, 1936-47; conferred the title of "Sachivothama" by His Highness the Maharaja of Travancore; was instrumental in implementing the Temple Entry Proclamation of His Highness, 1936; Chief Commissioner, Travancore Boy Scouts Association, 1937; Vice-Chancellor, Travancore University, 1937; was elected a Fellow of the Royal Society of Arts, London, 1937; was conferred the Degree of Doctor of Laws by the Travancore University, 1939; delivered the convocation address of the Osmania University, Hyderabad, 1942; appointed Member for Information in the Governor-General's Executive Council, Aug. 3, 1942,

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resigned on Aug. 20, 1942; re-appointed as Dewan of Travancore, Aug. 28, 1942; Chairman, Indian Rubber Production Board, Nov. 1942; Chairman, Travancore Steam Navigation Co., 1944; Member of the Govt. of India Post-war Reconstruction Cttee. and of the Central Board of Education, 1944; President, 1st South India Brahmana Conference, 1946; represented the Indian States before the British Parliamentary Delegation and the Cabinet Mission, 1946; member, Negotiating Committee on behalf of the States under the Cabinet Scheme; was invested with the rank and title of Lieutenant-General of the Travancore State Forces by His Highness; relinquished Dewanship of Travancore, August 1947; visited the U.S.A. on a lecturing tour and later travelled in South America, Australia and New Zealand in 1948. Delegate, East & West Philosophy Conference, Honolulu, 1949 (May & June); India America Conference, Delhi, 1949; Pres., Nilgiri Rotary Club, 1948; President, Nilgiri Rotary Club, 1949; delegate to the International P.E.N. Congress at Edinburgh, 1950; visited Industrial and Univ. Centres in Great Britain under the auspices of the British Council, Aug.-Oct. 1950 and thereafter toured Europe; Indian delegate to the P. E. N. Congress at Lausanne, June 1951; Professor, American Academy of Asian Studies in California; lectured in Yale, Stanford and other Universities in U.S.A.; elected Rotary Governor, 1952; member, Press Commission, 1952; Vice-Chancellor, Annamalai Univ., 1953; attended the Commonwealth Universities Conference at Durham and Cambridge; delivered Convocation Addresses of the universities of Poona, Annamalai and Agra; Vice-Chancellor, Banaras Hindu Univ., 1954-56; delivered the Convocation Address of the Gujarat Univ. and the Women's Univ., Bombay, 1954; member, Press Commission, 1953-54; was conferred Hon. Degree of D.Litt. by Annamalai Univ., 1955; Leader of the Indian Universities Delegation to China, 1955; member, Public Services Recruitment Cttee., 1955; member, Univ. Grants Commission, 1955; delivered Convocation Address, Lucknow Univ., 1956; Maharaja Sayajirao Lecturer, Baroda Univ., 1956. Resigned Vice-Chancellorship of Banaras Hindu Univ., 1956; Delegate to the British Commonwealth Univ. Conference and to the P.E.N. International Conference, 1956; delivered Convocation Address of B.H.U. and was conferred the Hon. Degree of LL.D. of that Univ., 1956; conferred the Hon. Degree of D.Litt. by the Madras Univ. at the special convocation in connection with its centenary celebrations, 1957; delivered the Sir M. Visvesvarayya lectures on Long Range Planning under the auspices of the Indian Institute of Economics, Hyderabad, 1959; a library named "Dr. C. P. Ramaswami Aiyar Library" was inaugurated at the Annamalai Univ., 1959; Chairman, Hindu Religious Endowments Commission appointed by the Govt. of India, 1960. *Publications:* Articles to various periodicals on political, philosophical, financial and literary topics; a selection of his speeches and writings in two volumes; a volume of essays, broadcasts and other addresses entitled *Pen-Portraits* published in 1948. A second volume of essays on Religious & Cultural topics published in 1949; third volume under the title "*Mysticism*" and other essays published in 1950; published *Cultural Freedom and other Essays*, 1950; *Hinduism and Jainism* being contribution to the *Gazetteer of India*. *Recreations:* lawn tennis, riding and walking. *Clubs:* National Liberal, Royal Automobile, Madras Cosmopolitan, Ootacamund Club. *Address:* The Grove, Teynampet, Madras; 18, Delisle, Ootacamund.

RAMASWAMY (CHETTIAR), S. V., M.A., Bar-at-Law, F. R. Econ. S. (Lond.), Deputy Minister for Railways, Govt. of India, since April 1958. *b.* Jan. 16, 1906 at Salem: *Educ.:* Madras Christian Coll.; London School of Economics; Middle Temple. Senior Advocate, Supreme Court; Hon. Secy., Tuberculosis Assocn. of India, Salem Branch; member: Advisory Cttee. for Government Hospitals, since 1950; Rotary Club, since 1950; Lok Sabha, 1952–57; Public Accounts Cttee., 1954–56; Indian Parliamentary Delegation to Turkey, 1954; Chairman: Sub-Cttee. of the P.A.C. on Delhi Road Transport Authority, 1956; erected in 1949 a replica of Sarnath Stupa in memory of those who lost their lives in the freedom struggle; Parliamentary Adviser, Indian delegation to the 11th General Assembly Session of U.N., Nov. 1956–Jan. 1957; Gen. Secy., Congress Party in Parliament, 1957–58; elected to the Lok Sabha from Salem Constituency on Congress ticket, 1957; visited Turkey, Japan, U.S.A., U.K., France, Switzerland, Italy and Egypt. *Publications: The Constituent Assembly of India. Address:* New Delhi.

RAMCHANDRA, Chaudhary, B.A., LL.B., Minister for Excise, Taxation, Bhakra and Rajasthan Canal Projects, Rajasthan, since Jan. 1960. *b.* July 21, 1912; *Educ.:* Benaras Hindu Univ.; passed final Law examination, 1934. Appointed Munsiff and 1st Class Magistrate, Bikaner, Sept. 1934; retired as Asstt. Dist. and Sessions Judge, 1948 to join politics; Pres., State Congress, Bikaner, 1948-50; elected M.L.A., Rajasthan, 1952; appointed P.W.D. Minister, Rajasthan, Feb. 1956; again elected M.L.A., Rajasthan, 1958. *Address:* Jaipur.

RAMDAS, Dr. Lakshminarayanapuram Ananthakrishna, M.A., Ph.D., M.B.E. (1946), "Padma Shri" (1958), F.N.I., F.N.A.Sc., F.R. Met. Soc., Head of the Heat and Power Division, National Physical Laboratory, New Delhi, since Dec. 1956. *b.* June 3, 1900; *Educ.:* Sircar High School, Trichur; Maharajah's Coll., Ernakulam; Presidency Coll., Madras; Univ. Coll., Calcutta; Indian Assoc. for the Cultivation of Science, Calcutta. Palit Research Scholar under Sir C. V. Raman, 1923-26; discovered phenomenon of "Scattering of Light by pure liquid and solid surfaces", 1923; Doctorate for thesis on above subject and allied topics, 1927; recorded "Raman Effect" for the first time in a Vapour (Ether), 1928; Dy. D.G. of Observatories, 1953; Offg. Dir.-Gen., 1955; Pres., Physics Section, Indian Science Congress, 1948; Leader, Indian Delegation to the 9th Gen. Assembly of the UGGI, Brussels, 1951; participated in UNESCO'S Arid Zone Research Cttee. Sessions in Delhi, 1954, in Teheran, 1958 and in Madrid, 1959. *Publications:* Numerous original papers in Physics, Meteorology, etc. in various Indian and foreign Scientific Journals. *Address:* National Physical Laboratory, New Delhi 12.

RAMPURIA, Ratanlal, Industrialist. *b.* June 20, 1926. Is a partner of Messrs. Hazarimul Heeralal, Calcutta, managing agents of the Rampuria Cotton Mills Ltd.; Director of many industrial concerns; Chairman: Board of Directors, The Bank of Bikaner Ltd., 1950 & 1958; Hoare Miller & Co., Ltd.; Director: Singell Tea Co., Ltd.; Scott & Pickstock Private Ltd.; The Great India Trading Co. (Private) Ltd.; Rampuria Bros. (Private) Ltd.; Rampuria Cotton Mills Ltd.; National Insurance Co., Ltd.; East Coast Export-Import Ltd.; The Calcutta Steam Navigation Co., Ltd.; Asian Refractories Ltd.; Insulation Materials Mfg. Co. Pvt. Ltd.; Commercial Union Assurance Co. Ltd.; member, Managing Cttee., Bengal Textile Institute; takes keen interest in socio-economic and educational affairs; founded the 'Vidya Niketan' in Bikaner, Rajasthan; created charity trust and appointed trustee of various charity trusts; Chairman, Refugee Relief Cttee., Bikaner, 1949; patron, life member and member of various industrial, commercial and educational associations, chambers and societies of India; Pres., Jain Sabha, 1959-60 & 1960-61; Bengal Millowners' Assoc. *Hobbies:* Literary debates, Coin collection and Photography. *Clubs:* Calcutta Club Ltd.; The Bengal Rowing Club; Royal Calcutta Turf Club; Calcutta Polo Club. *Address:* Rampooria House, 3, Woodburn Road, Calcutta.

RANADIVE, Bhalchandra Trimbak, M.A. (Bom.), Communist Leader; Editor, *New Age*, Monthly Magazine of the Communist Party of India. *b.* Dec. 1904; *Educ.:* M.A. from Wilson Coll., Bombay, 1927. Joined the Communist Party, 1929; jailed 1929, 1934, 1940; elected member, Central Cttee., 1943; elected member, Secretariat of the National Council at the Amritsar Congress of the Party, 1958. *Publications: Crisis of Indian Economy* (1952); *First Five Year Plan* (1954); *Sarvodaya* (1958), etc. *Address:* 7/4, Asaf Ali Road, New Delhi.

RANAWAT, Mr. Justice Jawan Singh, M.A. (Economics), LL.B. (Allahabad Univ.), Judge, Rajasthan High Court, since 1949. *b.* Dec. 4, 1902; *Educ.:* Univ. of Allahabad. City Magistrate, Udaipur State, 1926-27; City Munsif, 1927; District and Sessions Judge, Bharatpur and Bhilwara upto 1932; Judge, Mahad Raj Sabha, Udaipur, 1936-38; Puisne Judge, Chief Court, Udaipur, 1938-40; Puisne Judge, High Court, Udaipur, 1940-47; Chief Justice, Udaipur High Court, 1947-48; Puisne Judge, High Court, United State of Rajasthan, 1948. *Address:* Jodhpur.

RANDHAWA, Mohinder Singh, B.Sc. (Hons.), M.Sc., D.Sc., F.N.I., I.C.S., Adviser, Natural Resources and Scientific Research, Planning Commission, New Delhi, since March, 1961. *b.* Feb. 2, 1909; *Educ.:* Govt. Coll., and Punjab Univ., Lahore. District Officer, 1934-45 and 1946-49; Secy., Indian Council of Agricultural Research, 1945-46; Addl. Director General, then Director General, Rehabilitation, Punjab, 1949-51; Commissioner, Punjab, 1951-53; Development Commissioner, Punjab, 1953-55; Vice-Pres., I.C.A.R., 1955-61. *Publications:* English: *Out of the Ashes; Beautifying India; Flowering Trees in India; Kangra Valley Paintings; Basohli Paintings; Kangra Paintings of the Bhagawata Purana; Beautiful Trees and Gardens; Farmers of India;* Punjabi: *Folk Songs;* Hindi: *Folk Songs;* Other Publications: 40 research papers on algae. *Address:* 7, Tinmurti Lane, New Delhi.

RANGA, Prof. N. G., M.P.; Chairman, Swatantra Party; Principal, Indian Peasants Institute, Nidubrolu. *b.* Nov. 7, 1900; *Educ.:* Oxford; Member, Congress Working Cttee., 1947-51; Ex-Pres., A.P.C.C.; Founder, Indian Peasant Movement; participated in I.L.O. Conferences (San Francisco), Commonwealth Parliamentary Conference (Ottawa), Delhi, F.A.O. Conference (Copenhagen), etc.; toured extensively in Europe and America spreading Gandhian philosophy and ideals; resigned from Congress, April, 1951; formed the Bharat Krishikar Lok Party, 1951; rejoined Congress, 1955; elected Gen. Secy., Congress Parliamentary Party; resigned on Co-operative Farming issue, 1959; became the leader of the Swatantra Party, June 1959, founded by Rajajee; presided over its first covention, Aug. 1, 1959; also second convention in Patna, 1960; Propagated Gandhian Plan. *Publications:* 20 books including *Economic Organisation of Indian Villages, Colonial and Coloured Peoples, World Role of National Revolution, Outlines of National Revolution, Peasants and Communists, Revolutionary Peasant, Towards World Peace, Credo of World Peasantry, Peasant and Cooperative Farming, Panchayat Landlordism Vs. Peasant Economy. Address:* Nidubrolu (Post).

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RANGANATHAN*, **Saurirajan,** M.A. (Madras), I.C.S., Secretary, Ministry of Commerce and Industry, Govt. of India. *b.* Nov. 12, 1908; *Educ.:* P. S. High School, Madras; and Presidency Coll., Madras; passed M.A., 1929. Indian Civil Service: U.P. Cadre; has now been permanently deputed to the Govt. of India. *Recreation:* Tennis. *Clubs:* Delhi Gymkhana Club, New Delhi; Cosmopolitan Club, Madras. *Address:* 11, Clive Road, New Delhi.

RAO, Dr. Aragula Nagaraja, B.Sc. (Mysore), M.Sc. (Calcutta), Dr. Ing. (Berlin), Padma Shri (Jan. 1958), Scientist; Chairman, Heavy Engineering Corporation Ltd., Ranchi, since May 1, 1959. *b.* Nov. 15, 1906; *Educ.:* Bangalore, Calcutta and Berlin. Chemical Adviser, then General Manager and Managing Dir., Eastern Chemical Co., 1944-50; Chief of Division, Industry (Trade and Transport), Planning Commission, 1950; selected for the I.A.S., 1948; Industrial Adviser (Chemicals), Min. of Commerce & Industry, June 1951; Chief (Industrial) Adviser and ex-officio Jt. Secy., Ministry of Commerce and Industry, Sept. 1954; Jt. Secy., Min. of Commerce & Industry, July 1958. *Publications:* A number of papers dealing with both pure and applied physico-chemical problems and diverse aspects of sugar and other industries. *Recreations:* Tennis; Bridge. *Clubs:* Cricket Club of India; Delhi Gymkhana Club; Ranchi Club. *Address:* Chairman, Heavy Engineering Corporation, Nepal Kothi, Doranda, Hinoo, Ranchi.

RAO, Ayyadevara Kaleswara, B.A., B.L., Speaker, Andhra Pradesh Legislative Assembly, Hyderabad, since Dec. 4, 1956, Padmabhushan (1960). *b.* Jan. 22, 1881; *Educ.:* Noble Coll., Masulipatam, Madras Law Coll. Joined the Indian National Congress, 1905; General Secy., Andhra P.C.C., 1923-34; its Vice-Pres. for 4 years; member, A.I.C.C., from 1917; joined legal profession, 1906; was in jail several times in the freedom movements; Municipal Chairman, Vijayawada, 1925-30; M.L.A., Madras, 1937-39 & 1946-51; was Chief Parliamentary Secy., under Rajaji and Chief Whip of Congress Party; elected M.L.A., Andhra, 1955; took active part in Harijan Uplift, Women's Welfare and Rural Library Movements; was member, Senate and Syndicate of the Andhra Univ. for many years; introduced the Andhra Dowry Prohibition Bill in the Andhra Pradesh Leg. Assembly, 1956, which was passed in 1957; is Chairman, Telugu and Urdu Academy of Science & History, awarded D.Litt. by the Andhra Univ., 1960. *Publications:* Telugu: *French Revolution; United States of America; Turkish Republic; Middle East; Revolution in China; Youth Movement in China; History of Egypt and Arab Nationalism; Lessons from the Upanishads; Autobiography* and *Navyandhra.* *Address:* 'Nagarjuna Vihar', Himayatnagar, Hyderabad.

RAO, B. Ramakrishna, B.A., LL.B., Governor, Uttar Pradesh, since July 1, 1960. *b.* March 13, 1899, at Padakal village, Mahbubnagar Dist.; *Educ.:* Graduated from Fergusson Coll., Poona, 1921; took his LL.B., 1923. Set up practice at the Hyderabad Bar, 1924; was one of the Secretaries of the Hyderabad Social Conference; prepared a scheme for the expansion of the State Legislative Council as member, Hyderabad Reforms Assoc.; one of the founder members: Andhra Central Cttee.; Hyderabad Political Conference, Akola; also Executive member, State Congress, 1938; Secy.: People's Convention, 1937; Hyderabad Subjects League; was Pres., Andhra Congress for 3 years; imprisoned in connection with the 'Quit India' movement; member, Working Cttee., State Congress; Minister for Revenue and Education, Hyderabad, June 1950-March 1952; elected to the State Assembly from Shadnagar Constituency during the general elections; Chief Minister, Hyderabad State, March 1952-Oct. 1956; Governor, Kerala State, Nov. 1956-June 1960. *Address:* Governor's Camp, Lucknow (U.P.).

RAO, B. Shiva, M.A. (Allahabad) in English Literature. *b.* Feb. 26, 1891; *Educ.:* Madras and Allahabad. Was on the Indian Workers' delegation, I.L.O. Conference, Geneva, 1929-30; a delegate to the Round Table Conference in London, 1930-31; A member of the Indian delegation to the U.N. General Assembly in 1947, '48, '49, '50, '52. *Publications: India's Constitution in the Making*—A collection of Papers by the late Sri B. N. Rao (Orient Longmans); *The Industrial Worker in India* (Allen & Unwin, London, 1939). *Address:* 85, Lodi Estate, New Delhi 3.

RAO, Chandra Rajeswar, Public Worker; Secretary, Andhra Communist Party. *b.* June 6, 1914 at Mangalapuram, Kistna Dt., Andhra Pradesh; *Educ.:* Hindu High School, Masulipatam; Banaras Hindu Univ.; passed I.Sc. and studied up to B.Sc.; joined Vizagapatam Medical Coll., 1936; discontinued, 1937; joined the Communist Party, 1931 at Banaras; worked in Andhra in youth and peasant movements from 1936; member of Central Cttee., C.P.I., from 1948; General Secy., C.P.I., 1950-51. *Address:* Himayatnagar, Hyderabad.

RAO, Devulapalli Ramanuja, B.A. (Madras), LL.B. (Nagpur), Author. *b.* Aug. 24, 1917; *Educ.:* Nizam Coll., Madras; Law Coll., Nagpur. Literature, Education, Journalism and Politics; Pres., Andhra Saraswatha Parishath, Hyderabad (1952-53); member, Osmania Univ. Senate (1954-56); Central Advisory Board for Education, Hyderabad Govt. (1952-55); Central Text Book Cttee. (1952-56); Selection Cttee. for Teachers of Hyderabad Govt. (1952-56); one of the judges for the short-story competitions conducted by A.I.R., Hyderabad, 1956; Secy., Andhra-Pradesh Sahitya Akademi, Hyderabad; member: Glossary Cttee., Andhra Legislature (1957-60); Selection Cttee., Programme Asstt. & Announcer, A.I.R. (1959). Member, Rajya Sabha, since 1960; Secy., State Cttee. for Tagore Centenary Celebrations, Andhra Pradesh (1960). *Publications:* Literary criticism; *Navya Kavitha Neerajanamu* (1946); *Saraswatha Navaneethamu* (1955); *Vyasa Manjoosha* (1956); Children's Literature: *Mana Desamu* (1954); *Adima Nivasulu* (1956); contemporary politics: *Visalandhra Vachindi* (1956); Literary Essays: *Navaneethamu* (1951); Poetry: *Pacha Thoranamu* (1951), etc. *Recreations:* Bridge; Gardening. *Address:* Andhra Saraswatha Parishath, Tilak Road, Hyderabad 1.

RAO, Kanuru Lakshman, B.E., M.Sc., Ph.D. (Birm.), M.I.C.E. (Lond.), M.I. Struct. E. (Lond.), M.I.E. (India), Member (Designs & Research), Central Water and Power Commission, Govt. of India; Pres., Central Board of Irrigation & Power. *b.* July 15, 1902; *Educ.:* Madras & Birmingham. Chief Engineer, Floods, Central Govt.; was engaged in the designs of most of the major River Valley Projects in the country; has visited most of the dams in Egypt, Europe, U.S.A. and China; is Pres., National Cttee. of the International Conference on Soil Mechanics & Foundation Engineering; awarded the President's Gold Medal thrice for the best contributions to the Journal of Institution of Indian Engineers, and Hon. D.Sc. degree by Andhra Univ., Vice-Pres., International Conference on Soil Mechanics and Foundation Engineering; Pres., Institution of Engineers for 1959-60, and 1960-61. *Publications: Calculations, Designs & Testing of Reinforced Concrete;* contributed various articles for various Technical Institutions. *Address:* Central Water & Power Commission, Bikaner House, New Delhi.

RAO, Madapati Hanumantha, D.Litt. (Osmania Univ., 1956), Padma Bhushan (1955), Chairman, Andhra Pradesh Legislative Council, since July 7, 1958. *b.* Jan. 28, 1885; *Educ.:* Warangal. After his education, served under the then Nizam's Govt. for 14 years. Enrolled and practised as an Advocate of the former Hyderabad High Court for 24 years; was elected Mayor of Hyderabad consecutively for three terms, April 1951-April 1954; is popularly called "Andhra Pitamaha" for services rendered to Andhra public in Hyderabad State. *Publications:* Telugu: *History of Andhra Movement in Telangana;* Two collections of short stories named *Mallika Gucham* and *Malathi Gucham.* *Address* "Anand Nivas", Barkatpura, Hyderabad.

RAO, Mandumula Narasinga, B.A., B.L., Minister for Fisheries, Animal Husbandry & Municipal Administration, Andhra Pradesh. *b.* March 17, 1896; Founded Urdu daily *Rayyat,* 1927; Pres., Andhra Mahasabha, 1936; member, Hyderabad Legislative Council, 1938-42; Pres. Hyderabad Journalists Assoc., 1941; Chairman, Hyderabad Land Commission; Convener, Hyderabad State Branch of Bharat Sevak Samaj; Minister in Sanjiva Reddy cabinet. *Address:* Hyderguda, Hyderabad.

RAO, Mr. Justice Koka Subba, B.A., B.L. Judge, Supreme Court of India, since Jan. 31, 1958. *b.* July 15, 1902; *Educ.:* Govt. Arts Coll., Rajahmundry (A.P.); Law Coll., Madras. Practised as Advocate, Madras High Court, 1926-48; Judge, Madras High Court, March 1948-July 1954; Chief Justice, Andhra High Court, July 5, 1954 to Oct. 31, 1956; Chancellor, Sri Venkateswara Univ., 1954-55; Chief Justice, Andhra Pradesh High Court, Nov. 1, 1956-Jan. 30, 1958. *Clubs:* Cosmopolitan Club, Madras; Gymkhana Club, New Delhi. *Address:* No. 2, York Road, New Delhi 11.

RAO, Mysore Subba, B.A. (Mysore), I.C.S., Chief Secretary to the Govt. of Bihar, since 31st Aug. 1956. *b.* Oct. 25, 1907; *Educ.:* Bangalore. Joined the I.C.S., 1931; Magistrate and Collector, Puri, 1937-39; Cuttack, 1939-41; Shahabad, 1942; Deputy Secy., Political and Appointment Deptt., Bihar, 1944; Joint Secy., Political and Appointment Deptt. and Provincial Press Adviser, 1945; Registrar of Co-operative Societies, Bihar, 1946-47; Cane Commissioner, Bihar, 1947; Special Officer, Development and Employment Deptt., July 1947; Secy., Development and Employment Deptt., Aug. 1947; Secy., Finance Deptt., Aug. to Sept. 1947; Commissioner, Tirhut Division, Sept. 1947—April 1948; Commissioner, Chota Nagpur Division, 1948-52; Addl. Member, Board of Revenue and Land Reforms Commissioner, 1952-55, Chief Secy., 1st Aug.-4th Oct. 1955; Additional member, Board of Revenue and Land Reform Commission, 1955-56. *Recreations:* Tennis, Riding, Swimming and Photography. *Address:* 8, Circular Road, Patna.

RAO, Pandurangi Kodanda, M.A. (Madras), has been Member, Servants of India Society, 1921-58. *b.* Dec. 25, 1889; *Educ.:* Presidency Coll., Madras. Private Sec. to Rt. Hon. V. S. Srinivasa Sastri in India, England and South Africa, 1922-32; Editor, *Servant of India,* Poona, 1930-33; Carnegie Scholar, Yale Univ., U.S., 1934-35; World Study Tour, 1934-37; Senate, Academic Council and Executive Council, Nagpur Univ., 1939-42 and 1948; Adviser to India's Delegate to the Permanent Migration Cttee. of the I.L.O., Montreal, Canada, 1946; Vice-President, Indian Council of World Affairs, New Delhi, 1954-57; Pres.

* Is due to take over as Chairman, State Bank of India from March 1, 1962.

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of its Bangalore Branch; Member, Mysore Educational Reforms Cttee., 1952-53; member, Prohibition Enquiry Cttee., Govt. of India, 1955. *Publications: Malabar Tenancy Problem; East* Versus *West: Denial of Contrast; Culture Conflicts: Cause and Cure; Technical Education and Industrial Development in America: Some Aspects. Address:* "Aloha," Basavangudi, Bangalore 4.

RAO, R. Krishna, Diploma in Fine Arts—Painting, Instructor in Commercial Arts, Govt. School of Arts and Crafts, Madras, since 1948. *b.* Nov. 4, 1915; *Educ.:* Union Christian High School, Mathurai. Worked as Layout Expert in the Deptt. of War Publicity, 1945; Textile Designer, 1946-48; his painting 'Street Scene' is in the National Art Gallery, Madras; also represented at Tanjore Art Gallery; three of his works have been acquired by Mysore State and one at Bharatiya Kala Bhavan, Benares; Six of his works have been acquired by Madras Govt.; is commissioned to do a panel for the murals of Lok Sabha; has been influenced in his paintings of subjects of South Indian interest by the murals found in South Indian temples; has participated in the All-India Art Exhibition; Secy., Progressive Painters' Assoc., Madras. *Address:* 22, Trustpuram Major, Madras 24.

RAO, S. B. P. Pattabhirama, B.A., B.L., Education Minister, Andhra Pradesh, since Jan. 11, 1960. *b.* Dec. 30, 1911; *Education:* Madras. Member, Andhra Univ. Senate and Syndicate; Member, Andhra Assembly, 1952; Minister for Commercial Taxes, Madras, April 1952 to Oct. 1953; Education Minister, Andhra Cabinet of T. Prakasam, Oct. 1953 to Nov. 1954; member, Andhra Assembly, from March 1955; was Minister for Education in Sanjiva Reddy Cabinet. *Address:* Somajiguda, Hyderabad.

RAO, S. V. Krishnamoorthy, B.Sc., LL.B., Deputy Chairman, Rajya Sabha. *b.* Nov. 15, 1902; *Educ.:* Collegiate High Schools in Shimoga and Tumkur; Central Coll., Bangalore; Fergusson Coll. and Law Coll., Poona. Suffered imprisonment in the Quit India Movement, 1947; member: Mysore Representative Assembly, 1945-49; Constituent Assembly of India, 1947-50; Commonwealth Parliamentary Delegation, 1948; Deputy Chairman: Council of States, 1952-54; Rajya Sabha, 1954-56; re-elected, April 1956; Leader, Parl. Delegation to U.S.S.R. and Yugoslavia, May-June 1955; Deputy Leader, Parl. Delegation to China and Hongkong, Oct. 1956; visited U.K., West Indies, U.S.A., Canada and Japan on a study tour of Parliamentary Institutions, Jan. & Feb. 1959, and Ceylon, Singapore, Indonesia, Australia, Malaya and Burma, Sept.-Nov., 1959, Kenya and Uganda, Sept. 1960. *Publications:* (In Kannada); *Satyagraha in South Africa, To the Women* by Gandhiji; *Discovery of India,* by Pandit Nehru; *Letters from Delhi; Life of Louis Pasteur;* (In English): *The Leftist Experiment. Recreations:* Gardening; Spinning. *Club:* Constitution Club, New Delhi. *Address:* No. 10, Akbar Road, New Delhi.

RAO, Vijayendra Kasturi Ranga Varadaraja, M.A. (Bombay), B.A., Ph.D. (Cambridge), D.Litt. (Delhi), Director, Institute of Economic Growth, since July 16, 1960 and ex-Vice-Chancellor, Delhi University. *b.* July 7, 1908; *Educ.:* Wilson Coll., Bombay; Gonville and Caius Coll., Cambridge. Director of Statistics and subsequently Planning Adviser, Food Dept., Govt. of India (1944-46); Chairman, U.N. Sub-Commission on Economic Development (1947, 1948, 1949, 1950); Corresponding Member, Institute de Science Economique Appliquee, Paris, since 1948; member, Governing Council, International Assoc. for Research in Income and Wealth (1947-51); Pres., Indian Economic Association (1949); member, Univ. Professor and Founder Director, Delhi School of Economics, Univ. of Delhi, 1942-57. *Publications: Taxation of Income in India; An Essay on India's National Income,* 1925-29; *The National Income of British India,* 1931-32; *War and Indian Economy; Post-war Rupee. Recreation:* Walking. *Club:* University Club, Delhi. *Address:* 5, Cavalry Lines, Delhi 8.

RAREWALA, Sardar Gian Singh, Minister for Irrigation & Power, Govt. of Punjab. *b.* Dec. 1901; *Educ.:* Mahendra College, Patiala. Started his career as a First Class Magistrate in Patiala, 1928; was attached to the Foreign Office, worked with Mr. K. M. Panikkar; had secretarial training; appointed Excise Commissioner; became Sessions Judge and then District Magistrate; was Pres., Shri Guru Singh Sabha, Patiala for nine years; founder, Rotary Club, Patiala; was promoted as Revenue Commissioner, 1942; later appointed as Judge, High Court of Judicature, Patiala; Revenue Minister 1947; nominated by His Highness as member of the Constituent Assembly; Premier, PEPSU, 1949-52; elected member, PEPSU Legislative Assembly and Leader of National Front; Chief Minister, PEPSU, April 1952-March 1953; Leader of the Opposition, 1954-56; Minister for Irrigation, Power & Community Development, Punjab, 1957-59; Minister for Agriculture & Forests, Punjab, 1959-61. *Address:* Chandigarh.

RATH, Radhanath, Ex-Minister for Development, Government of Orissa. *b.* 1897; *Educ.:* Cuttack. Entered journalism, 1918; member: A.I.N.E.C.; Servants of the People Society; was a detenue in the 1942 movement; took active part in the Indian States People's Movement; Convener, Provincial Press Advisory Board; has been Editor, *Samaj,* Oriya nationalist daily; was Minister for Finance and Education, Orissa; Minister for Development, Orissa, till May 1959. *Publications:* Book on the life of Mahatma Gandhi and other important personages. *Recreation:* Study. *Address:* C/o Secretariat, Bhubaneshwar, Orissa.

RATNAM, His Excellency Mr. Perala, M.A. (Madras), M.A. (Toronto), M.Sc. (Cantab.), Ambassador of India in Laos, since July 9, 1959. *b.* July 1, 1911; *Educ.:* Univs. of Andhra, Madras, Toronto and Cambridge (England). Appointed in the Senior Scale of I.F.S., April 1948; First Secy., Tokyo, April 1948 to April 1950; Deputy Secy., E. A. Ministry, April 1950 to May 1951; Trade Commissioner, Egypt, June 1951 to May 1953; First Secy., Canberra, June 1953 to August 1955; Counsellor, Moscow, Oct. 1955 to Dec. 1957; Joint Secy., E. A. Ministry, Jan. 1958 to June 1959. *Address:* Embassy of India, Vientiane (Laos).

RAU, Sir Benegal Rama, Kt. (1939), C.I.E. (1930), M.A. (Cantab.), Ex-Governor, Reserve Bank of India. *b.* Jan. 10, 1889; *Educ.:* Presidency Coll., Madras, and King's Coll., Cambridge. Entered I.C.S., Nov. 1913; Under-Secy. and Dy. Secy., Govt. of Madras, 1919-24; Secy., Indian Taxation Cttee., 1925-26; Dy. Secy., Finance Dept., Govt. of India, 1926-28; Financial Adviser, Simon Commission, 1928-30; Jt. Secy., Industries Dept., Govt. of India, 1930-31; Secy., Round Table Conferences and Jt. Select Cttee. of Parliament on India Bill, 1931-34; Deputy High Commissioner for India in London, 1934-38; Agent-General and High Commissioner for India in the Union of South Africa, 1938-41; Chairman, Bombay Port Trust, 1941-46; Indian Ambassador in Tokyo, 1947-48; Leader of Indian Delegation, Commonwealth Conference at Canberra, 1947; Indian Ambassador in United States, 1948-49; Governor, Reserve Bank, 1949-57. *Address:* Mafatlal Park, Bombay 26.

RAU, M. Chalapathi, M.A., B.L., Editor, *National Herald,* Lucknow, since 1946. *Educ.:* Presidency Coll. and Law Coll., Madras. Advocate, Madras High Court, 1934; contributor to the Press; entered journalism, 1936; Asstt. Editor, *National Herald,* 1938-42; Asstt. Editor, *Hindustan Times,* 1943-45; Member, UNESCO Press Experts' Commission, Paris, 1950; Co-Founder, International Press Institute, New York, 1950; Pres.: All India Convention of Working Journalists, New Delhi, 1950; Federation of Working Journalists, 1950-55; member: Press Commission, 1952-54; Official Goodwill Mission to China, 1952; UNESCO Experts' Conference on Journalism Education, Paris, 1956; Delegate, UNESCO General Conference, New Delhi, 1956; Representative, U.N. General Assembly, 1958; Delegate, UNESCO General Conference, Paris, 1960. *Publications:* Co-Editor, *Gandhiji,* Seventy-fifth Birthday volume. *Club:* Mahomed Bagh Club, Lucknow. *Address: National Herald,* Lucknow.

RAU, Mr. Justice Nittoor Sreenivasa, B.Sc., B.L., Ag. Chief Justice, High Court of Mysore, since Aug. 14, 1961. *b.* Aug. 24, 1903; *Educ.:* A. V. School, Challakere; Govt. High School, Shimoga; Govt. Collegiate High School, Bangalore; Central Coll., Bangalore; Govt. Law Coll., Madras. Honorary Teacher, National High School, Bangalore, 1925-26 and 1927-28; Advocate, High Court, Bangalore, 1928-55; Advocate General, Mysore State, 1953-55; Judge, High Court of Mysore, Bangalore, 1955-61. *Publications:* Co-translator into Kannada of Gandhiji's "Experiments with Truth" and commentary on the Gita (*Anasaktiyoga*). *Recreations:* Indoor Games and Touring. *Club:* The City Institute, Bangalore. *Address:* 21, South End Road, Basavangudi P.O., Bangalore 4.

RAUF, H. E. Mr. Mohamed Abdul, B.A. (Hons. in Jurisprudence), 1924, B.C.L. (Oxon.), 1925, called to the Bar, Middle Temple, Jan. 1924, LL.D. (Dublin), Indian Ambassador in Belgium, since Oct. 1958; concurrently Minister to Luxembourg. *b.* November 15, 1901; *Educ.:* St. Paul's High School, Rangoon, and Worcester College, Oxford. Practised at the Bar in the Rangoon High Court until end of 1941; practised at the Bar at Allahabad High Court, 1942 to 1945; appointed Judicial member of Income-tax Appellate Tribunal; Representative of the Govt. of India in Burma, Nov. 1946-Aug. 15, 1947; Indian High Commissioner in Burma, Aug. 1947-Jan. 1948; Ambassador in Burma, 1948-52; Ambassador in Japan, 1952-54; High Commissioner in Canada, 1954-58. *Address:* C/o External Affairs Ministry, New Delhi.

RAUT ROY, Satchidananda, Poet and Writer. *b.* 1915. in Orissa; *Educ.:* Graduated, 1939. First to introduce modern prose-verse in Oriya literature and ushered in a new era in the literature of Orissa; has written many treatises on subjects of Industrial Relations, Social Welfare and Labour legislation in India; participated in the Harvard Univ. International Seminar of Arts and Science at the Invitation of Harvard Univ., 1955; visited on study and lecture tour the South-East Asian Countries, 1952, and Britain, France, Italy, Switzerland, 1955; Regional Adviser in Calcutta to the Central Board of Film Censors, 1956. *Publications:* English: *The Boatman Boy and Forty Poems;* Poems and books on Industrial relations, etc.; Reference: *Sochi Raut Roy—A Poet of the People* written by 22 eminent persons of India; other works: *Baji Raut; Avignyan; Avijan; Bhanumatir Desa; Pallisri; Pandulipi;* short stories, novels, etc. *Address:* Executive Officer, Kesoram Cotton Mills Ltd., 42, Garden Reach Road, Calcutta 24.

RAY, Smt. Renuka, B.Sc. (Econ.) (London), M.P. *b.* Jan. 1904; *Educ.:* Loretohouse School and Dioscesan Coll., Calcutta; London School of Economics, London University (1922-25). Member and Social Secy., All India Women's Conference, since 1931; member: Central Leg. Assembly, 1943-46; Central Board of Education, Govt. of India, 1941-47, Governing Body of Visva-Bharati Univ.; Santiniketan, 1941-48 and since 1 May 1958; Constituent Assembly and provisional Parliament, 1948-52; Indian Delegate, U.N. General

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Assembly, 1949; Pres., All-India Women's Conference, 1952-54; Minister of Rehabilitation, Govt. of West Bengal, 1952-57; Member of Parliament (Lok Sabha), since 1957: Member of Estimates Cttee., Lok Sabha, 1957-59; Leader, Plan Projects Team on Social Welfare (Planning Commission), 1958; Chairman, Cttee. on School Health (Ministry of Health). *Address:* 24/1, Ballygunge Circular Road, Calcutta-19.

RAY, Satyajit, B.A., Padmashri (1958), Film Producer and Director. *b.* May 2, 1922; *Educ.:* Presidency Coll., Calcutta; Ka'abhavan, Santiniketan; studied under Nandalal Bose for three years at Viswa-Bharati Univ., Santiniketan. Entered publicity business in Calcutta, 1942; worked as a Senior Art Director in an advertising concern; was the force behind the Calcutta Film Society; started work on *Pather Panchali*, Oct. 27, 1952 and finished in March 1955; won the maximum number of awards in foreign festivals in Europe and America for the picture *Pather Panchali*; won the 1959 Selznick award and the gold laurel trophy for his films *Pather Panchali* and *Aparajita*; his other films are *Aparajita*, *Apur Sansar*, *Paras Pathar*, *Jalsaghar* and *Devi*; a festival of his films was organised at Bombay by Virarts, June, 1960; his films have won appreciation in places where they are shown; often wrote on films in leading Western European film journals. *Address:* 3, Lake Temple Road, Calcutta 27.

REDDI, Dinnapati Sadasiva, M.A. (Hons.) (Madras), M.A. (Hons.) (Oxford), Diploma in Anthropology (Oxon.), Vice-Chancellor, Osmania Univ., Hyderabad. *b.* April 28, 1897; *Educ.:* Madras Christian Coll., Madras; M.A. (Hons.), 1918; St. John's Coll., Oxford; M.A. (Hons.), 1921; Diploma in Anthropology, 1922. Joined the education service of Madras State, 1923; served in various capacities in the teaching and administrative branches; Director of Public Instruction, Madras, 1948-52; in Liberia as Head of the UNESCO Technical Assistance Mission, June 1952-May 1954; again Director of Public Instruction, Andhra, 1954-57; Awarded the M.B.E. in 1940; Grand Commander of the Order of Star of Africa, 1954 (Liberia); Dr. of Litt. (Hon.) Andhra Univ., Dec. 1960. *Clubs:* Presidency & Gymkhana Clubs, Madras; Golf Club, Bangalore; Secunderabad Club. *Address:* Vice-Chancellor's Lodge, Hyderabad 7.

REDDI, Dr. (Smt.) S. Muthulakshmi, M.B. C.M., Padma Bhushan (1956), Politician and social worker. *b.* 1886; *Educ.:* Madras Univ.; first woman medical graduate of the Univ.; won five gold medals and honours for distinction in medicine, surgery and midwifery. Gave up practice and devoted whole-heartedly to the emancipation of women and for the care and protection of children; Indian delegate to the International Conference of Women, Paris and America; associated with the Women's Indian Assoc. since its inception, 1917; is now its Pres.; was Pres. and Chairman, A.I.W.C.; presided over the Congress Contructive Workers' Conference during the last visit of Mahatma Gandhi, 1946; Founder and Dir., Avvai Home for Destitute Children and Women; Founder and Chairman, Cancer Institute, Madras; Vice-Pres., Madras Leg. Council, 1926-30. *Publications: Stri Dharma; Mrs. Margaret Cousins and her work in India; Maternity and Child Welfare; Women's Work in Madras; My experience as a Legislator. Recreations:* Writing, Social Work. *Address:* "Shanti", 15, Besant Avenue, Adyar, Madras.

REDDY, B. V. Narayana, B.A. (Hons.), Treasurer, Swatantra Party; Chairman, B.M.S. Coll. of Engineering, Bangalore. *b.* Jan. 4, 1900; *Educ.:* Madras Christian Coll.; B.A. (Hons.), 1922. Appeared for the Mysore Civil Service Exam., 1925 and appointed Probationer; confirmed as Asstt. Comptroller, State Financial Service; services lent to the Bank of Mysore Ltd. as Deputy General Manager of the Bank, 1942; General Manager, 1943-58. *Publications:* Articles on financial and political affairs. *Recreations:* Gardening, walking, music and reading. *Address:* 8, Grant Road, Bangalore 1

REDDY, Dr. Bezwada Gopala, D.Litt., Minister of State for Works, Housing and Supply, Govt. of India since April 1961. *b.* Aug. 5, 1907; *Educ.:* Viswa Bharati, Santiniketan. Pres.: Dakshina Bharat Hindi Prachar Sabha (A.P.); Telugu Bhasha Samiti, since 1947; Andhra Pradesh Sahitya Academy, since 1957; Sangraha Andhra Vijnana Kesh Samiti, Hyderabad; All India Chess Federation, since 1959; Indian Conference of Social Work; Hindi Assoc. of Parliament; Treasurer, Rabindranath Tagore Centenary Cttee., 1961; member: Finance Cttee., Central Sahitya Academi; A.I.C.C., since 1931; Jt. Secy., Andhra P.C.C.; elected M.L.A., Madras, 1937, 1946; Pres., Andhra P.C.C., 1953; Pro-Chancellor, Andhra Univ., 1951-57; Chief Minister, Andhra, 1955-56; Finance Minister, Madras, 1947; Home Minister, Andhra Pradesh, 1956; Finance Minister, A.P., 1957; elected to the Rajya Sabha, 1958-60; Minister of Revenue & Civil Expenditure, Govt. of India, 1958-61. *Hobbies:* Indian music, both Karnatic and Hindustani and other fine arts. *Publications: Chitranguda;* has translated some books of Tagore into Telugu from original Bengali. *Clubs:* Gymkhana Club, Madras; Cosmopoliton Club, Madras. *Address:* Buckireddipalen, Nellore Dt., Andhra Pradesh.

REDDY, Mr. Justice Jaganmohan Pingle, B.Com. (Leeds), B.A. (Law Tripos), LL.B. (Cantab.), Barrister-at-Law, Judge, High Court of Andhra Pradesh. *b.* Jan. 23, 1910; *Educ.:* St. George's Grammar School, Hyderabad; City of Leeds School, Leeds; Univ. of Leeds; Trinity Hall, Cambridge; called to the Bar by Gray's Inn; Practised in the High Courts of Bombay, Madras and Hyderabad (1937-46); Legal Adviser to the Govt.-sponsored commercial undertakings (*viz.*, State Bank of Hyderabad, Deccan Airways Ltd., and the Hyderabad Commercial Corporation); Expert Member, Leg. Council for Income-tax and Company law; Addl. Judge, Hyderabad High Court (1948); Dist. & Sessions Judge, Secunderabad (1950-52); Puisne Judge, Hyderabad High Court (1952-Nov. 1956); Judge, Court of Enquiry into Non-Mulki Riots (1952); Offg. Vice-Chancellor, Osmania Univ. (1959). *Publications:* The Hyderabad Excess Profits Tax. *Recreations:* Tennis; Badminton. *Club:* Secunderabad Club. *Address:* Saifabad, Hyderabad.

REDDY, Kasu Brahmananda, B.A., B.L., Finance Minister, Andhra Pradesh, since Jan. 11, 1960. *b.* July 28, 1909. Member, A.I.C.C., Andhra Univ. Senate; imprisoned, 1941 and detained, 1942; Pres., Guntur Dist. Board, 1936; Member, Madras Assembly, 1946-52; General Secy., Andhra Pradesh Congress Cttee. from March 1955; Finance and Planning Minister in Sanjiva Reddy cabinet. *Address:* Somajiguda, Hyderabad.

REDDY, Konda Venkat Ranga, Dy. Chief Minister (Revenue, Land Reforms), Govt. of Andhra Pradesh, since Jan. 1960. Advocate. *b.* Dec. 10, 1891; *Educ.:* Private Schools; Normal School, Hyderabad; passed the Law Exam. conducted by the High Court. Practised law, 1909-46; one of the founders of Andhra Movement started in the State, 1923; Pres., Andhra Mahasabha, 1937-42; M.L.C., Hyderabad, 1937-39; initiated a number of important measures including the abolition of Jagirs, removal of untouchability, etc.; joined freedom movement as a wholetime worker, 1946; courted jail in connection with the freedom struggle launched by the Hyderabad State Congress, 1948; Pres., Telangana P.C.C., 1950-52; member, A.I.C.C.; is on the Executive Cttee. of the Pradesh Congress; M.P., Aug. 1950-Feb. 1952; elected M.L.A., Hyderabad from the Shahabad Constituency; was Founder, Vemana Andhra Bhasha Nilayam; was its Pres. for a number of years; was Pres., Hyderabad State Biyaya-e-Jagir Assoc.; Pres., Hyderabad P.C.C., Jan.-June 1954; Minister for Revenue, Excise and Forests, Hyderabad, March 1952-Oct. 1956; Minister for Revenue, Andhra Pradesh, Nov. 1956—March 1957; Minister for Home (Police, Prohibition), Andhra Pradesh, 1957-60. *Publications: Principles of Jurisprudence* and *Criminal Digest of Hyderabad. Recreations:* Gardening. *Address:* Begumpet, Hyderabad. *Permanent Address:* "Sree Sadan", Feelkhana, Hyderabad.

REDDY, Kyasambally Chengalaraya, B.A., B.L., LL.D. (Honoris Causa); Minister for Commerce & Industry, Govt. of India, since Apr. 1961. *b.* May 4, 1902; *Educ.:* Pachaiyappa's Coll., and Law College, Madras. Pres., Mysore Peoples' Federation, 1935-37; Pres., Kolar Dist. Board, 1933-37; was for some time Editor of *Janavani*; effected a coalition of the Peoples' Federation with Mysore Congress, Oct. 1937; Pres., Mysore Congress, 1937-38 and 1946-47; was incarcerated four times; went to England and the Continent as representative of the All-India States Peoples' Conference and Miners' Conference to attend the International Miners' Conference, 1946; elected Pres., Mysore Congress and successfully launched Satyagraha for the establishment of Responsible Govt. in Mysore; elected Leader of the Assembly thrice since 1947 and was Chief Minister, 1947-52; was member, Indian Constituent Assembly, 1947-50; elected again to the State Legislative Assembly in 1952; member: Rajya Sabha; visited U.S.S.R. & Europe, on Soviet Govt.s' invitation, Oct.-Nov. 1956; elected member, Lok Sabha, March 1957; member, Exec.-Cttee., All-India States Peoples' Conference, 1944-45; Working Cttee., Mysore Congress, since 1937; Pres., Rashtrabhasha Prachar Samiti of Wardha, Delhi Centre, since 1952; Founder Member, Delhi School of Economics; Minister for Production, Govt. of India till April 1957; Minister for Works, Housing & Supply, 1957-61. *Address:* Kysambally Village P.O., K.G.F., Mysore State; 9, Janpath, New Delhi.

REDDY, N. Ramachandra, B.A., Minister for Agriculture, Andhra Pradesh, since Jan. 11, 1960. *b.* Jan. 11, 1919; *Educ.:* Nagpur; was expelled from Osmania Univ., for participating in Vandematram movement; held offices in District Congress Organisations; General Secy., Andhra Pradesh Congress Cttee., 1956-57. *Recreations:* Sports, Cooperation, Harijan and Social Welfare. *Address:* Hyderguda, Hyderabad.

REDDY, Neelam Sanjiva, President, Indian National Congress, since January 1960. *b.* May 19, 1913; *Educ.:* Adyar; Arts College, Anantapur. Secretary, Andhra P.C.C., 1936-46; courted jail several times for participation in Satyagraha movement; elected M.L.A., Madras, on Congress ticket from Anantapur General Constituency, 1946; was Secy., Madras Congress Legislature; member, Indian Constituent Assembly, 1947; Minister for Prohibition, Housing and Forests, Madras, April 1949-April 1951; resigned and elected Pres., Andhra P.C.C.; was Exec. Cttee. member and Parliamentary Board member of A.I.C.C. till the Avadi Congress Session; elected member, Rajya Sabha in bye-election, 1952-53; elected member, Leg. Assembly from Kalahasthi Constituency, 1953; unanimously elected Leader, Andhra Congress Legislature Party; became the first Dy. Chief Minister of Andhra State, Oct. 1, 1953; again elected member, Andhra Leg. Assembly from Kalahasthi, Feb. 1955; Dy. Chief Minister, Andhra, 1955-56; Leader, Andhra Pradesh Congress Legislature Party, Oct. 21, 1956; Chief Minister, Andhra Pradesh, 1956-60. *Address:* 7, Juntar Mantar Road, New Delhi.

REDDY, Mr. Justice P. Chandra, B.A., B.L., Chief Justice, High Court, Andhra Pradesh, since Jan. 31, 1958. *b.* July 1, 1904; *Educ.:* V. R. High School, Nellore; Pachaiyappa's Coll., Madras; Law Coll., Madras. Enrolled as

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an Advocate, Madras High Court, Aug. 1928; worked in the Chambers of Shri P. Venkataramanarao; acted as Crown Prosecutor, 1946; Pres., Republican Art Theatres till 1954; Judge High Court, Madras, 1949-54; Chairman, Society for the Protection of Children, 1953-54; Judge, Andhra High Court, July 1954-Oct. 31, 1956; Judge, Andhra Pradesh High Court, Nov. 1, 1956-Jan. 30, 1958; Offg. Ch. Justice from Jan. 31, 1958 to June 15, 1958; Permanent Ch. Justice since June 16, 1958. *Publications:* Commentary on the Madras Hindu Religious Endowment Act and the Madras Estates Land Act in the early years of the Professional career. *Recreation:* Gardening. *Clubs:* Madras Cosmopolitan Club, Gandhinagar Club. *Address:* Chief Justice, Andhra Pradesh High Court, Hyderabad.

REDDY, Pidatala Ranga, Minister for Planning and Information, Andhra Pradesh, since Jan 11, 1960. *b.* Sept. 10, 1917. Entered politics while a student and participated in many student movements; member, A.I.C.C., 1938; imprisoned, 1940; detained, 1942-Dec. 1945; elected to Parliament from Madras Assembly, 1950; member, Madras Assembly, 1952; Chief Whip, Andhra Congress Leg. Party and later Chief Whip, Andhra Pradesh Congress Leg. Party; Pres., Andhra Pradesh Congress Cttee. till Jan. 1960. *Address:* Jubilee Hills, Hyderabad.

REDDY, Ravi Narayan, M.L.A., Communist Leader; Deputy Leader of the Opposition, Andhra Pradesh Assembly. *b.* June 4, 1908; *Educ.:* Nizam Coll., Hyderabad. Discontinued college studies and joined the C. D. movement, 1930; worked as Secy. and Pres., Hyderabad State Harijan Sevak Sangh, 1932-38; one of the founders of the State Congress; joined Andhra Mahasabha, 1933; elected Pres. and presided over three open annual sessions, 1941, 1944, 1945; joined Communist Party, 1939; jailed twice, once as a Congressman, 1938 and as a Communist, 1951; was underground for five years; elected to Parliament, polling the highest number of votes in the country; elected to the State Legislature, 1957. *Address:* C/o Andhra Pradesh Legislative Assembly, Hyderabad.

REGE, Purushottama Shivarama, B.A. (Bombay), B.Sc. (Econ.) (Lond.), Marathi poet, story-writer and dramatist; Principal and Professor of Economics, Ismail Yusuf Coll., Bombay, since 1958. *b.* Aug. 2, 1910; *Educ.:* Bombay and London; B.A. from Bombay, 1931; B.Sc. (Econ.) from London, 1934. In Bombay Educational Service since 1938; Prof. of Economics of Transport, Sydenham Coll. of Commerce, Bombay, until March 1958. *Publications:* Books on Scientific Method and Civics; Poems, Short Stories and Dramas. *Recreations:* Reading; Writing. *Address:* Chandrayan, Jogeshwari, Bombay 60.

REU, Bisheshwar Nath, Sahityacharya (1909), Mahamahopadhyaya (1942), Sanskrit Writer and Historian. *b.* July 2, 1890; *Educ.:* Jodhpur & Jaipur. Supdt., Archaeology & Sumer Public Library, Jodhpur; Examiner for M.A., Banaras Hindu Univ., 1942; Co-opted, as an expert for Ph.D. to the Research Degree Cttee. by Agra Univ., 1945; Corresponding Member to Historical Records Commission, 1938; its Associate member later; member, Cttee. to advise the Govt. of India about the management of the Archives of Indian States, 1947; Board of Advisors, Govt. of Rajasthan, to prepare an authentic history of Rajasthan. Chairman, Mg. Cttee., Sumer Public Library, Jodhpur, Feb. 1951–May 1957. *Publications:* *Bharat-ke-Prachin Rajvansh* (Three vols.); *Raja Bhoj; Marwar-ka-Itihas* (Two vols.); *Rashtrakuton-ka-Itihas; History of Rastrakutas; Glories of Marwar and Glorious Rathors; Coins of Marwar; Rathod-Durgadas; Aryavidhanam* (Hindu Law); *Vishveshvar Smriti;* translated *Shaiv Sudhakar.* *Address:* Chandpol, Jodhpur.

ROGERS, Thomas, Managing Director, Best & Co., Private Ltd. *b.* Oct. 10, 1905; *Educ.:* Bootham School, York, England. Chairman and Managing Director, Best & Co. Private Ltd.; Chairman: The Crompton Engineering Co. (Madras) Private Ltd.; The Anglo-French Textiles Ltd.; Best & Co. (Pondicherry) Private Ltd. *Clubs:* Madras Club, Adyar Club, Gymkhana Club, Madras Boat Club, Madras, East India & Sports Club, London. *Address:* P.O. Box 63, Madras.

RONNING, His Excellency Chester Alvin, B.Sc., M.A., High Commissioner for Canada in India, since May 1957. *b.* Dec. 13, 1894; *Educ.:* Univ. of Minnesota; North China Language School, Peking; Univs. of British Columbia and Alberta; B.Sc. in 1922 and M.A. in 1939. Royal Canadian Air Force, 1942–45; Deptt. of External Affairs, 1945; Charge d'Affaires, a.i., Nanking, 1946–47, 1949–51; Minister to Norway, April 1954 and subsequently accredited concurrently as Minister to Iceland, July 1954; Ambassador to Norway, Aug. 1955–1957. *Address:* Canadian High Commission, 4, Aurangzeb Road, New Delhi-11.

ROONGTA, Jagmohanlal Bilasrai, Managing Director, "Cine-India." Managing Agents of: Famous Cine Laboratories & Studios Ltd. since Aug. 1960. *b.* June 18, 1919; *Educ.:* Shri Marwari Vidyalaya, Sandhurst Road, Bombay. Joined business, 1937; elected Pres., Indian Motion Picture Producers' Assoc., Bombay for the years 1958-59-60; appointed to the Central Advisory Raw Film Cttee. by the Govt. of India, 1958. *Clubs:* National Sports Club. *Address:* 18, Samudra Villa, Darabshaw Road, off Nepean Sea Road, Bombay 26.

ROONWAL, Dr. M. L., M.Sc. (Hons.), Ph.D. (Cantab.), F.N.I., Director, Zoological Survey of India, Calcutta, since 1956. *Educ.:* Jodhpur, Lucknow and Cambridge (England). Officer-in-Charge, Locust Field Research Station, Pasni, Baluchistan (1935-39); Zoological Survey of India (1939-49); Major, 15th Punjab Regiment, Indian Army, 1945-46; Chief Research Officer, Forest Research Institute, Dehra Dun (1949-56). *Publications:* Over 130 research papers in pure and applied zoology. *Address:* Director, Zoological Survey of India, 34, Chittaranjan Avenue, Calcutta 12.

ROY, Dr. Bhabesh Chandra, B.Sc. (Hons.) (Cal.), A.I.S.M., D.I.C., M.Sc. (Lond.), Dr.-Ing. (Freiberg), Director, Geological Survey of India, since 1958. *b.* Aug. 1, 1907; *Educ.:* Calcutta Univ., Indian School of Mines, Imperial Coll. of Science and Technology, London Univ., Institute of Applied Geology, Nancy Univ. (France) and Freiberg Univ. (Germany). Joined the Geological Survey of India, 1937; Official Delegate: ECAFE Mineral Conferences in Tokyo (1955) and Kuala Lumpur (1958); member, ECAFE Team of Geologists in the U.S.S.R., U.K., France, West Germany and East Germany (1955); studied Mineral Development in U.S.A. and Canada as a U.N. Fellow, 1957; Fellow, National Institute of Sciences of India; Pres.: Geology & Geography section of the Indian Science Congress (1957); Geological, Mining & Metallurgical Institute of India (1958-59). *Publications:* Author of about 45 scientific publications on Mineral Resources, etc. *Address:* Geological Survey of India, 27, Chowringhee, Calcutta 13.

ROY, Dr. Bidhan Chandra, M.D. (Cal.), M.R.C.P. (London), F.R.C.S. (Eng.), D.Sc. (Cal. & Allahabad), Bharat Ratna (1961), Chief Minister, West Bengal, since Jan. 23. 1948. *b.* July 1, 1882; *Educ.:* Patna, Calcutta, England, Calcutta Medical Coll., Calcutta, and St. Barts Hospital, London. Pres., R. G. Kar Medical Coll., Belgachia; Professor of Medicine, R. G. Kar Coll.; Founder of medical and educational Institutions; Vice-Chancellor, Calcutta Univ., 1942-44; Pres. All-India Medical Council, 1939-45; Mayor, Corporation of Calcutta, 1931-33; member, Congress Working Cttee.; Pres., National Council of Education and Jadavpur Technical Coll.; Calcutta Medical Club and also Indian Medical Assoc.; Chairman, Higher Institute of Technology, Govt. of India; member: Council of Scientific and Industrial Research; National Development Council, India; Chairman, All-India Board of Biophysics; Pres., Jadavpur Univ., Calcutta. *Address:* 36, Nirmal Chunder Street, Calcutta.

ROY, Sir Bijoy Prosad Singh, Kt. (1933), K.C.I.E. (1943), M.A., LL.B., Ex-President, Federation of Indian Chambers of Commerce and Industry; ex-President, Bengal Legislative Council; Ex-Minister, Bengal, Sheriff of Calcutta, 1952. *b.* 12th January 1894; *Educ.:* Chakdighi S. P. Institution; Hindu School, Calcutta; Presy. Coll., Calcutta; Univ. Law Coll., Calcutta. Member, Bengal Leg. Council, 1921–36 and 1940; Bengal Leg. Assembly, 1936-40; is Director: Managing Agency of India Steamship Co., Ltd.; former Imperial Bank of India; Alkali & Chemical Corporation of India, Ltd.; Belvedere Jute Mills Ltd.; India Reinsurance Corporation Ltd., etc.; Chairman, Board of Directors: Basanti Cotton Mills Ltd.; National Rolling and Steel Ropes Ltd., etc.; Pres.: Indian Chamber of Commerce, 1952 & 1957; Indian National Steamship Owners' Assoc.; Kshatriya Mahasabha; is Trustee: Victoria Memorial Hall, Calcutta; Bharatiya Vidya Bhavan; is Trustee and Vice-Pres., British India Assoc., Calcutta. *Address:* Chakdighi, Dist., Burdwan, W. Bengal; 15, Landsdowne Road, Calcutta 20.

ROY, Bimal, prominent producer and director of films. *b.* July 12, 1909, in Dacca, East Bengal; *Educ.:* Dacca University. Joined New Theatres Ltd., Calcutta; emerged as a leading Cameraman in his first assignment 'Devdas' directed by P. C. Barua; became Director, 1943; his classic 'UDAYER PATHE' acclaimed as one of the best ever made; re-made it in Hindi as 'HAMRAHI'; among his other most successful pictures are 'Anjangarh'; 'Pahela Admi', 'Maa', 'Do Bigha Zamin', 'Parineeta', 'Biraj Bahu', 'Devdas'; his recent pictures are 'Madhumati', which received nine Clare Awards; 'Sujata' which received four Clare Awards and which was exempted from Ent. Tax by the Maharashtra Govt. for its passionate plea on behalf of India's untouchables, and 'Kabuliwalla'; 'Usne Kaha Tha' and 'Parakh' acclaimed as best directed film of 1960; has made 3 documentary films 'Gotama the Buddha' which received President's Gold Medal; 'Immortal Stupa' and 'Kumbha Mela' are yet to be released; pictures under production and scheduled for early release are 'Prem Patra', and 'Bandini'. *Address:* 5, Mount Mary Road, Bandra, Bombay 50.

ROY, Ram Nath, Fire Engineer; Managing Proprietor, Royson & Company, Calcutta. *b.* Aug. 10, 1907, at Jullundur (Punjab); *Educ.:* D.A.V. Coll., Jullundur and later in England. Specialist in Fire Fighting Equipment; established business at Lahore, 1932; equipped most of the Fire Stations throughout Punjab, N.W. F.P. and parts of Sind; after partition, shifted to Simla; helped the Himachal Pradesh Govt. to establish Fire Fighting Centres in the remote areas of the State; shifted to Calcutta in connection with business

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in the various project areas, 1956. *Recreations*: Reading; outdoor sports. *Clubs*: International Institute of Fire Fighters, London. *Address*: 55, Gariahat Road, Calcutta 19.

ROY, Miss Sudha, B.A. (Calcutta), Trade Unionist; General Secy., United Trades Union Congress. *b.* Feb. 16, 1913; *Educ.*: Eden High School & Eden Intermediate Coll., Dacca; Ashutosh Coll., Calcutta; B.A., 1934. Became connected with trade union movement and also women's movement from 1933; attended the 3rd Congress of the W.E.T. at Vienna as a fraternal delegate from the Dock Mazdoor Union, Calcutta and the 3rd Congress of the Women's International Democratic Federation at Copenhagen as a fraternal delegate from Mahila Sanskritik Sammelan, 1953; visited different parts of U.S.S.R., Czechoslovakia & Hungary; Pres., Dock Mazdoor Union, Calcutta; Vice-Pres., National Federation of Indian Women; General Secy., Loka Shiksha Parishad; Exec. Cttee. member, Water Front Workers' Educational Assoc. & Save the Children's Cttee. (India); a leading member of the Bolshevik Party of India; Editor, *Awaz* (Hindi & Bengali) for 2/3 years. *Address*: 8/1-D, Hazra Lane, 153-A, Motilal Nehru Road, Calcutta-29.

RUDRAPPA, H. S., B.Sc., LL.B., Minister for Forests, Mysore, since Feb. 27, 1961. *b.* 1909; *Educ.*: B.Sc. degree in Statistical Mathematics, Maharaja's College, Mysore; LL.B. degree, Law Coll., Poona. Entered the Bar, 1935; Pres.: Dist. Board, Shimoga (1942–45); Town Congress Cttee., Shimoga (1947–50); member: Dist. Board, Shimoga (1937–47), Mysore Leg. Council (1941–50); Indian Parliament (1950-52); A.I.C.C. (1950–52); Working Cttee., Mysore State Congress (1940–41) and (1952–54); Vice-Pres., former Mysore State Congress; was the Speaker, Mysore State Leg. Assembly; Minister for Agriculture, Mysore, Nov. 1, 1956–April 16, 1958. *Address*: Bangalore.

RUIA, Madanmohan Ramnarain, B.A., Merchant, Banker and Millowner. *b.* Aug. 24, 1914; *Educ.*: Marwari Vidyalaya and St. Xavier's College, Bombay. Director: Ramnarain Sons Private Ltd., Phœnix Mills Ltd., Vinaya Trading Co. Private Ltd., United Commercial Bank Ltd., United Agencies Private Ltd., Bombay Oxygen Corpn. Ltd., Citric India Ltd., Bajaj Auto Ltd., Permanent Magnets Ltd., Baroda Rayon Corporation Ltd., Ramnarain Sons (Pakistan) Ltd., The Great Eastern Shipping Co. Ltd., Bradbury Mills Ltd., Dawn Mills Co. Ltd., Century Spg. and Mfg. Co. Ltd., The Indian Electro Chemicals Ltd., Mukund Iron & Steel Works Ltd., Ruia Industries Private Ltd., Poysha Industrial Co., Private Ltd., Shamun Private Ltd. and M. Ramnarain Private Ltd.; Pres., Federation of Indian Chambers of Commerce & Industry, 1959-60; President, East India Cotton Assoc. Ltd.; Vice-Pres., Indian Central Cotton Cttee.; Pres., Cotton Buyers' Assoc.; Trustee, Bombay Port Trust; member: Cotton Imports Advisory Cttee., Bombay, Customs Advisory Cttee., Cotton Advisory Board Cttee., Import Advisory Council, Export Promotion Advisory Council, Cotton Textiles Consultative Board, Cttee. of the Indian Merchants' Chamber, Cttee., Indian Banks' Assoc.; member, Indian Industrial delegation to Europe and U.S.A., 1957; Leader, Indian delegation to Afro-Asian Economic Conference, 1958; Goodwill-cum-Trade Mission to Europe and U.S.A., 1959; International Businessmen's Conference, Karachi, 1960. *Clubs*: C.C.I.; Willingdon Sports Club; National Sports Club of India; R.W.I.T.C. Ltd.; Bombay Gymkhana. *Address*: State Bank Building, Bank Street, Fort, Bombay.

RUIA, Radhakrishna Ramnarain, B.A., Merchant and Millowner. *b.* 14th January, 1916; *Educ.*: Marwari Vidyalaya and St. Xavier's College, Bombay. Director: Ramnarain Sons Private Ltd.; Phoenix Mills Ltd.; Bradbury Mills Ltd.; Dawn Mills Co. Ltd.; Vinaya Trading Co. Private Ltd.; The New Great Eastern Spg. & Wvg. Co. Ltd.; Malabar Steamship Co. Ltd.; Trafford Cotton Co. Ltd., England; Ruia Industries Pvt. Ltd.; Radhakrishna Ramnarain Pvt. Ltd.; United Agencies Pvt. Ltd., Kolhapur Sugar Mills Ltd.; Kolhapur; Ramnarain Sons (Pakistan) Ltd., Karachi; Noble Steel Products Pvt. Ltd.; Ashok Apparels Pvt. Ltd.; Paper Mill Plant & Machinery Manufacturers Ltd.; Member, Indian Cotton Mills Federation; Chairman, Bombay Regional Committee on Maintenance of Machinery; Member of the Governing Council of Bombay Textile Research Association and on the Board of Management of V.J.T.I.; Cttee. member, The Millowners' Assen., Bombay. *Clubs*: Willingdon, C.C.I., R.W.I.T.C., Radio, etc. *Address*: State Bank Building, Bank Street, Fort, Bombay 1.

RUIA, Ramniwas Ramnarain, Merchant, Banker and Millowner; Senior Director, Ramnarain Sons Private Ltd., Bombay. *Educ.*: Marwari Vidyalaya, Bombay and privately. Entered business at an early age; Director: Ramnarain Sons Private Ltd., Phœnix Mills Ltd., Finlay Mills Ltd., Gold Mohur Mills Ltd., Bank of India Ltd., Andhra Valley Power Supply Co. Ltd., Bachhraj & Co., Ltd., Bachhraj Factories Private Ltd., Hindustan Sugar Mills Ltd., New India Assurance Co. Ltd., Mining Management Syndicate Private Ltd., Trafford Cotton Co. Ltd., England, United Agencies Private Ltd., Dawn Mills Co. Ltd., Kolhapur Sugar Mills Ltd., Indokem Ltd., New Consolidated Construction Co. Ltd., J. K. Chemicals Ltd., Polychem Ltd., Bradbury Mills Ltd., International Computers & Tabulators (India) Pvt. Ltd., Chase Bright Steel Ltd., R. A. Cole Pvt. Ltd., Fashion Prints Private Ltd., Carona Sahu Co. Ltd., Synthetics & Chemicals Ltd., Chemicolour Private Ltd., Colour Chem Ltd., Chairman of Royal Western India Turf Club Ltd. Member, Assoc. of Indian Trade and Industry. *Clubs*: C.C.I.; Willingdon; Orient; New Club, Poona. *Address*: State Bank Building, Bank Street, Fort, Bombay.

RUKMINI Devi, M.P., Padma Bhushan, 1956, recipient of the Sangeeth Natak Akademi's award for Bharatanatyam, President, Kalakshetra International Arts Centre, Adyar, Madras. *b.* 1904, Madura. Started dancing under the personal guidance of Anna Pavlova; conducted research in dance, music, drama; has specialised in Bharata Natya, Music drama, painting and crafts. Dramatic productions include *The Light of Asia*; *Incidents from the Life of Bhishma*; *Rukmini Swayamvaram* (Kathakali); *Kutrala Kuravanji* (Temple drama); *Kumara Sambhavam*; *Ramayana*; *Usha Parinayam* (Bhagvata Mela Natakam) (Dance drama); *Gita Govindam* (Dance-Poem); Pres., World Federation, Young Theosophists; Director: The Besant Theosophical School, Adyar; the Dr. V. Swaminatha Iyer Tamil Library; Pres., The Bharata Samaj; Head of the International Theosophical Centre, Huizen, Netherlands; Director, The Arundale Training Centre for Teachers, Adyar; Member, Exec. Board: Indian National Commission for Co-operation with UNESCO; Indian Council for Cultural Relations; Central Sangeet Natak Akademi; Madras State Sangita Nataka Sangam; Vice-Pres., International Vegetarian Union; Pres., India Vegetarian Congress; member, Rajya Sabha, representing Art. *Address*: Adyar, Madras 20.

RUSTOMJI, Nari Kaikhosru, M.A. (Cantab.), I.C.S., Classical Scholar, Christ's College, Cambridge; Adviser to the Governor of Assam, since July 12, 1959. *b.* May 16, 1919; *Educ.*: Bedford School, Christ's Coll., Cambridge. Asstt. Commissioner, Nov. 10, 1942; Sub-Divisional Officer, Aug. 3, 1944; Under-Secy., Home etc. Deptt., Oct. 22, 1945; Dy. Commissioner, March 29, 1947; Adviser to the Governor for Tribal Areas, April 1, 1948; Officer on Special Duty, N.E.F.A., Shillong, Ministry of External Affairs, since Jan. 22, 1954; on deputation to Govt. of India, since April 9, 1954; Dewan of Sikkim April. 9, 1954. *Address*: Adviser to the Governor of Assam, Shillong.

SACHAR, Bhim Sen, B.A., LL.B., Governor of Andhra Pradesh, since Aug. 1, 1957. *b* 1st Dec. 1893; *Educ.*: Punjab University. Joined the Bar in 1918; joined N. C. Movement, 1921; Secretary, Punjab P.C.C., 1921; Registrar, National University, Lahore; Municipal Commissioner, Gujranwala, 1924-33; founded the Sunlight of India Insurance Co. Ltd. in 1932; Director, Gujranwala Electric Supply Co. Ltd. and Local Director, Punjab National Bank, Ltd.; elected M.L.A., Punjab on Congress ticket, 1936–45; elected leader, Congress Party, Punjab Legislative Assembly, 1940; re-elected M.L.A., Punjab, 1945; elected member, Constituent Assembly of Pakistan from West Punjab in 1947 and Deputy Leader of the Congress Party in the Pakistan Constituent Assembly; Finance Minister, Punjab Government, 11th March 1946 to 3rd March 1947; elected leader, Congress Legislature Party, Punjab, India, April 1949; Chief Minister, Punjab, India, 1949 and 1952-56; Governor of Orissa, Sept. 1956-July 1957. *Address*: Raj Bhavan, Hyderabad (Andhra).

SACHDEV, Mulk Raj, B.A. (Hons.) (Punjab), M.A. (Cantab.), I.C.S., Secy., Ministry of Irrigation & Power, Govt. of India, since May 1960. *b.* Oct. 12, 1903; *Educ.*: Quetta, Lahore and Cambridge. Asstt. Commissioner, D.C., Controller of Supplies, Bombay; Deputy Director-General, Supply Deptt.; Director-General, Civil Supplies, Punjab; Excise and Taxation Commissioner; Secy. to Govt., Punjab; Partition Commissioner; Chief Secretary, Govt. of East Punjab upto June 1953; Director-General, Supplies and Disposals, June 1953-April 1954. Secy., Ministry of Works, Housing & Supply, Govt. of India, May 1954-April 60. *Clubs*: Willingdon Club, Bombay; Delhi Gymkhana Club, Golf Club, New Delhi. *Address*: New Delhi 2.

SAHAI, Mr. Justice Kamla, M.A., B.L., Barrister-at-Law, Judge, High Court, Patna, since July 1953. *b.* Dec. 1, 1904; *Educ.*: Nalanda Collegiate School at Bihar Sharif, Banaras Hindu Univ., Patna Coll. and Patna Law Coll.; Passed M.A., 1927 and B.L., 1928 from Patna Univ. Enrolled as an Advocate, July 2, 1928; called to the Bar from the Middle Temple, London, Nov. 1929. Started practice at the Patna High Court, Feb. 1930; part-time Lecturer, Patna Law Coll., 1936–43; Addl. Dist. & Sessions Judge, 1943–44; Dist. & Sessions Judge, 1944–53; Legal Remembrancer & Secy. to the Govt. of Bihar in the Law Department, May-July 1953. *Recreations*: Bridge; Billiards. *Clubs*: Bankipore Club, Patna. *Address*: Off Fraser Road, Patna-1.

SAHAY, Bhagwan, B.Sc. (Allahabad), I.C.S., Padma Bhushan (1961), Chief Commissioner, Delhi, since Dec. 16, 1959. *b.* Feb. 15, 1905;

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Educ.: Univ. of Allahabad; School of Oriental Studies, London. Jt. Magistrate, U.P., 1929; Dy. Secy. to Govt., U.P., 1936–39; Supdt., Census operations, 1939–41; Secy., Indian Council of Agricultural Research, 1941–43; Joint Secy., Govt. of India, 1944–45; Commissioner, Food & Civil Supplies, 1946–49; Chief Secy., U.P. Govt., 1949–51; Chief Commissioner, Himachal Pradesh, 1951–52; Chief Commissioner, Bhopal, 1952–54; Indian Ambassador to Nepal, 1954–59. *Address:* Delhi.

SAHAY, Vishnu, B.Sc. (Allahabad), I.C.S., Secretary, Cabinet, Govt. of India, and of Planning Commission, since 1958. *b.* November 22, 1901; *Educ.:* Allahabad and Oxford. Acting Governor, Assam, 1960; Deputy Commissioner; Registrar, Co-operative Societies; Director of Agriculture, Uttar Pradesh; Director-General, Food; Secy., Ministry of Food, 1947–49; Secy. for Kashmir Affairs; Secretary, Govt. of India, Ministry of Food and Agriculture, 1951–53; Secretary for Kashmir Affairs and Labour Secy., 1953–57; Acting Governor of Assam, Nov. 1960–Jan. 11, 1961. *Recreation:* Golf. *Address:* New Delhi.

SAHNI, Krishna Kumar, B.Sc. (Delhi), B.A. (Cantab.), Officer on Special Duty and Jt. Secy., Ministry of Steel, Mines and Fuel, Govt. of India. *b.* March 23, 1916; *Educ.:* St. Stephen's Coll., Delhi; passed B.Sc., 1935; Emmanuel Coll., Cambridge; took B.A. degree, 1938. Joined Burmah-Shell Company, 1939; served in Branch and General Manager's Office; resigned to join the Govt. of India, May 1956; Advisor on Oil Affairs, Planning Commission, Govt. of India, 1956-57. *Recreations:* Riding, Tennis, Squash, Racquets and Reading. *Clubs:* Overseas Club, London; Willingdon Sports Club, Bombay; Royal Western India Turf, Bombay; Bombay Gymkhana; Delhi Gymkhana and Delhi Golf Club. *Address:* Ministry of Steel, Mines and Fuel, New Delhi.

SAHUKAR, Nariman Dinsha, B.A., Manager, Godrej & Boyce Mfg. Co., Pvt. Ltd. *b.* Feb. 2, 1902; *Educ.:* St. Xavier's College, Bombay. President, Engineering Association of India, Bombay Br., 1947; President, Assoc. of Indian Industries, 1948; Vice-President, All-India Manufacturers' Organization, 1949; Chairman, All India Manufacturers' Organization, 1958-59, 1959-60; member, Central Advisory Council of Industries and its Standing Cttee. and its Reviewing Sub-Cttee.; Central Import Advisory Council, and its Iron & Steel Imports and Distribution Sub-Cttee.; Central Customs and Excise Revenue Advisory Council; Housing and Regional Planning Panel of the Planning Commission. *Clubs:* Willingdon Sports Club; W.I.A.A. Club Ltd. *Address:* 39-F, Hill Road, Bandra, Bombay 50.

SAIYEDNA, Dr. Taher Saifuddin Saheb, His Holiness (Mullaji Saheb), Head of Dawoodi Bohra Shia Muslim Community. Chancellor, Aligarh Muslim University. *b.* Aug. 5, 1885, at Surat; succeeded to his office, 1915; is the 51st incumbent of the office of Dai-ul-Mutlaq; derives his succession from Prophet Mohammed (peace be upon him) through his decendants the Fatemid Caliphs of Egypt; is an eminent Arabic Scholar and one of the greatest exponents of Islamic culture and literature; received the Honorary Degree of Doctor of Theology from the Muslim Univ. of Aligarh at a special convocation in 1946; widely travelled in India and the Middle Eastern countries; a liberal patron of education, arts and industries; has made suitable arrangements to conduct about 350 Madrasas or schools including High Schools with attached hostels; maintains at Surat an Arabic College the El-Jamea-tus-Saifiyah, where more than 300 students are given free education and are provided with free boarding and lodging; instances of his munificence are, preparation of Kiswat, *i.e.* an artistic carpet of silver brocade for the covering of the inner walls of the Holy Kaaba at Mecca, the presentation of gold and silver Zarih to the Mausoleas (sepulchres) of the saints of Najaf and Kerbala in Iraq and substantial donations to several institutions in India including Aligarh Univ. and the Shia Technological Institute of Lucknow; a patron of the Assoc. of Muslim Education, Mombasa (Kenya); unanimously elected Chancellor of Aligarh Univ., by the Univ. Court, in 1953, 56 and 59; received the Degree of Doctor of Laws, Karachi Univ., 1955; received the Freedom of the City of Karachi, 1955. *Address:* Saify Mahal, Pawai Road, Malabar Hill, Bombay 6.

SAIYIDAIN, Khwaja Ghulam, B.A., M.Ed., has been Secretary and Education Adviser to the Govt. of India, Ministry of Education. *b.* Feb. 14, 1904; *Educ.:* Univ. of Aligarh and Leeds (England). Professor of Education. Aligarh Muslim Univ., 1926-39; Director of Education, Jammu and Kahmir State, 1939-46; Educational Adviser to Rampur Govt., 1946-47; Educational Adviser to Bombay Govt., 1947-50; Joint Educational Adviser to Govt. of India, 1951-54; Addl. Secy., Ministry of Education, 1954-55; Pres., International New Education Fellowship, London, since 1956; Visiting Professor and Sachs Memorial Lecturer at Columbia University. *Publications:* (English and Urdu) *The School of the Future; Principles of Education; Iqbal's Educational Philosophy; Problems of Educational Reconstruction; Education for International Understanding; Education, Culture and the Social Order; Aligarh Movement in Education; The Education of the National Character; Activity School; The Spirit of Culture.* *Recreations:* Reading, Writing. *Address:* New Delhi.

SAMPURNANAND, Dr., B.Sc. (Alld.), L.T. (Allahabad), Ex-Chief Minister, U.P. *b.* Jan. 1, 1891; *Educ.:* Queen's College, Benares; Training College, Allahabad. After graduating, worked as a teacher in the Prem Mahavidyalaya, Brindaban and the Harishchandra High School, Benares; worked at the Daly (Rajkumar) Coll., Indore, 1915–18; Headmaster, Dungar College, Bikaner, 1918–21; was Editor, *Today* (Eng. Daily now defunct) and *Maryada* (Hindi monthly); Professor, Kashi Vidyapith, 1922; Member, A.I.C.C., since 1922; thrice Secy., U.P. Provincial Congress Committee; President, second All-India Socialist Conference, Bombay; President, 29th Hindi Sahitya Sammelan, Poona Session, 1940; Minister for Education, U.P. Govt., 1938-39; Minister for Education, Finance and Labour, U.P., 1946–51; Home and Labour Minister, U.P., 1951–54; Chief Minister, U.P., Jan. 1955–Dec. 1960; resigned, Dec. 1960. *Publications:* Thirty-five books in Hindi and Sanskrit on political, historical and philosophical subjects, and in English on Politics and Philosophy; received Mangala Prasad prize of Rs. 1,200 for his book 'Samajavada' (Socialism). *Hobby:* Gardening and Astronomy. *Address:* Jalipa Devi, Benares; Lucknow.

SANGHI, Seth Motilal Ghanshyamdass, Chairman, Western Indian States Motors (Private) Ltd., Jodhpur, Sanghi Bros. (Indore) (Private) Ltd., Indore, India Motors (Private) Ltd., Ajmer, Supreme Motors (Private) Ltd., New Delhi, Sanghi Motors (Bombay) (Private) Ltd., Bombay. *b.* Dec. 7, 1899 of the Sanghi family of Jodhpur. Founder of Firm Sanghi Brothers in Jodhpur with offices and cinemas in Rajasthan and Madhya-Pradesh; toured extensively round the world. *Address:* Jodhpur.

SANJIVAYYA, D., B.A., B.L., Chief Minister, Govt. of Andhra Pradesh, since Jan. 1960. *b.* Feb. 14, 1921; *Educ.:* B.A. from Govt. Arts Coll., Anantapur; B.L. from Madras Law Coll. Enrolled as an Advocate, 1950; joined the Congress and was elected to Parliament from the Madras Legislature as a Congress nominee; elected M.L.A. (Madras) from Kurnool Reserved Constituency as a Congress candidate in the general elections, 1952; Minister for Co-operation and Housing, Govt. of Madras, 1952–54; Minister for Local Administration and Labour, Andhra Pradesh, till Jan. 1960. *Address:* Secretariat, Hyderabad.

SANKALIA, Dr. Hasmukh Dhirajlal, M.A., LL.B., Ph.D. (London), Professor and Head of the Dept. of History and Joint Director, Deccan Coll. Post Graduate and Research Institute, Poona. *b.* Dec. 11, 1908; *Educ.:* Elphinstone High School; St. Xavier's Coll. and Law Coll., Bombay; Univ. Coll., London; Bhagwanlal Indraji Prizeman (1933), Silver Jubilee Medal, Bombay Branch, Royal Asiatic Society (1944). Conducted excavations and explorations in prehistory and early history relating to Gujarat, 1941–42, 1944, 1945, 1947–49, Maharashtra, 1945–46, 1950–51, 1953–54, 1954–60, Karnatak, 1949, 1956, Madhya Bharat, 1952–53, Andhra, 1960. *Publications: The University of Nalanda; Archæology of Gujarat; Investigations into the Pre-historic Archæology of Gujarat; Historical Geography & Cultural Ethnography of Gujarat; The Godavari Palæolithic Industry; Excavations at Brahmapuri* (Kolhapur); *Excavations at Nasik and Jorwe; Excavations at Maheshwar and Navdatoli; From History to Pre-history at Nevasa* and over 100 papers on Indian History, Epigraphy, Iconography and Prehistory. *Address:* Deccan College Research Institute, Poona 6.

SANKAR, R., B.A., B.L., Deputy Chief Minister and Minister for Finance, Kerala State, since Feb. 22, 1960. *b.* April 1908; *Educ.:* Graduated from Science College, Trivandrum; law degree from Law Coll., Trivandrum. Started practice at Quilon Dist. Court; joined the State Congress struggle, 1939; was imprisoned; General Secy., State Congress, 1940-44; was Secy. and Pres., S.N.D.P. Yogam; elected to the Travancore Leg. Assembly, 1948 and to the Indian Constituent Assembly, 1949; was member, Travancore Devaswam Board; was Pres., K.P.C.C. *Address:* Trivandrum.

SANKRITYAYANA, Rahula, Mahapandita (Banaras), Tripitakacharya (Ceylon), Hindi Writer; Dean and Head of the Philosophy Deptt., Vidyalankar Univ., Ceylon. *b.* April 9, 1893; *Educ.:* Banaras, Lahore, Madras, Ceylon. Started on a career of travel in 1909: travelled four times in Tibet and thrice in Russia; was Professor of Sanskrit in Ceylon and Leningrad University. *Publications:* Over 125 books in Hindi, Sanskrit, Tibetan. *Recreations:* Travelling. *Address:* Green Ridges, Kutcheri Road, Darjeeling.

SANYAL, B. C., Painter, Sculptor; Professor and Head of the Art Deptt., Delhi Polytechnic, since 1952. *b.* April 22, 1904; *Educ.:* Calcutta Univ.; Govt. School of Art, Calcutta. Free lance painter and sculptor, 1947-52; member: Exec. Board, Lalit Kala Akademi; Advisory Cttee. for Decoration of Important Buildings, Min. of Works, Housing & Supply; travelled extensively in Russia, Poland, Hungary etc. as leader of the Artists' delegation, 1955-56; visited important art galleries, museums and institutes in U.S.A. under the leaders and specialists exchange programme of U.S.A. Govt., 1959; visited Canada on a lecture tour under the auspices of the Canadian Council for

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Co-operation with UNESCO, 1959; Netherlands to study Dutch painting and culture, 1959 and Nepal under the Colombo Plan to advise on art education; Secy., Lalitkala Akademi. *Publications:* Articles on Art in journals, newspapers and for radio broadcast. *Address:* B-15, Nizamuddin East, New Delhi.

SANYAL, Probodh Kumar, Bengali Author, Playwright and Journalist. *b.* July 7, 1905; *Educ.:* Scottish Churches School & City Coll., Calcutta. Imprisoned during N.C., 1922; Editor, Weeklies & Monthlies, 1931-36; Associate Editor, *Jugantar*, 1937-41; travelled extensively in India, Burma, Tibet, Pakistan and Soviet Union; his *Himalayan Life* was filmed as "Yatrik" by the New Theatres Ltd., 1952; awarded first prize as the best scenario-writer, 1942-52; represented Bengali writers in the first film seminar at Delhi, 1955; Delegate, Afro-Asian Writers' Conference at Tashkent, 1958; member, Indian Cultural Delegation to Pakistan, 1957; Nepal, 1960; again visited U.S.S.R. on invitation by the Soviet Writers' Union Board, 1959. *Publications:* 80 books comprising fiction, travels, dramas, anecdotes, etc.; *Mahaprasthaner Pathe* and *Devaiatma Himalaya* (forewords by Tagore and Jawaharlal Nehru). *Recreations:* Travel. *Address:* 28/2, Dhakuria Station Road, Calcutta 31.

SARABHAI, Smt. Bharatidevi, B.A. (Hons.) (Bom.) and (Oxon.), English and Gujarati Poet and Playwright and Theatre Organiser. *b.* July 31, 1912; *Educ.:* Home School. Professor of Indian Research and Culture, Post-Graduate Institute (B. J. Institute of Learning & Research, Ahmedabad); Principal, Shreyas Coll., Gujarat Univ. since 1955-56; Pres., Theatre Centre, India, affiliated to the I.T.I. of UNESCO, 1960; Hon. Secy., Gujarat Univ. Commission (at first unofficial and then appointed by the Govt.), 1945-47. *Publications: The Well of the People* (a poetic drama); *Two Women; Be Nari* and *Ghar Lakhoti* (in Gujarati). *Recreations:* Reading, Education, Hiking, Travel, Theatre Production. *Address:* Shahibag, Ahmedabad 4.

SARABHAI, Vikram Ambalal, M.A., Ph.D. (Cantab.), Physicist; Professor of Cosmic Ray Physics, Physical Research Laboratory, Ahmedabad. *b.* Aug. 12, 1919; *Educ.:* Gujarat Coll., Ahmedabad; St. John's Coll., Cambridge; took Ph.D. (Cantab.), 1946. Did research for five years on cosmic radiation under Sir C. V. Raman, N. L., at the Indian Institute of Science, Bangalore; research on nuclear physics at the Cavendish Laboratory (1946); conducts research on cosmic radiation at the Physical Research Laboratory, Ahmedabad; member: Scientists' Panel of the Planning Commission; Exec. Cttee. for the National Physical Laboratory; Cosmic Ray Research Cttee. of the Atomic Energy Commission; Court of Governors of the Adm. Staff Coll. of India; Court of the Indian Institute of Science; Chairman: Swastik Oil Mills Ltd., Bombay; Standard Pharmaceutical Works Ltd., Calcutta; Sarabhai Merck Pvt. Ltd., Baroda, etc.; Director of the National Research Development Corporation of India. *Publications:* Several publications in Physical Review, Nature, Physical Society of London, and Proceedings of the Indian Academy of Sciences. *Clubs:* Cricket Club of India Ltd., Bombay; Willingdon Sports Club, Bombay. *Address:* "Chidambaram", Ahmedabad 13.

SARAF, P. Shamlal, Minister for Industry, Commerce & Labour, Jammu and Kashmir State. *b.* July 4, 1904; *Educ.:* Sri Pratap College, Srinagar. Joined business after studies; organised many concerns; was Hon. Secy., Chamber of Commerce for several years; took active part in Kashmir political activities; joined National Conference and courted arrest many times. *Clubs:* Amar Singh Club, Srinagar. *Address:* Rainawari, Srinagar.

SARAIYA, Jayant Varjivandas, B.A. (Hons.), Cotton Merchant. *b.* November 11, 1915; *Educ.:* Elphinstone College, Bombay. After graduation joined a cotton firm in 1938; travelled in Kenya, Uganda, Tanganyika, Ceylon and extensively in India on business; started his own firm of India Cotton Supplies Private Ltd.; became its Managing Director; visited Egypt and Europe for pushing the firm's business in cotton. *Recreations:* Sports and Motoring. *Clubs:* C.C.I. Ltd., W.I.F.A. Ltd.; Orient Club, Hon. Secy.; Lions Club of Bombay (Pres.). *Address:* 132, Queen's Road, Bandstand, Bombay 1.

SARAIYA, Ramlal Gokaldas, B.A., B.Sc., J.P., Cotton Merchant and Vice-Chairman, Narandas Rajaram & Co. Pvt. Ltd., Bombay. *b.* Jan. 16, 1898; *Educ.:* B.A., B.Sc. (Bombay Univ.); took post-graduate course in Chemical Engineering in England and diploma of City and Guilds of London Institute in oils and fats and also in soap manufacturing; elected Fellow of the Chemical Society, London. After return to India joined Narandas Rajaram & Co. in 1922; became its partner in 1926 and Vice-Chairman since its conversion into a limited company in 1944; Chairman of the All-India Co-operative Planning Committee, 1944-45; member: Expert Cttee. on Futures Markets (Regulation) Bill, 1950; Vice-Pres., Indian Central Cotton Cttee., 1947-52; Pres.: All India Co-operative Union, 1952-55; Indian Merchants' Chamber, 1950; Federation of Indian Chambers of Commerce and Industry, 1953-54; Leader of the Indian Delegation to the International Cotton Advisory Cttee., 1948, 1949, 1950 and 1960, at Cairo, Brussels, Washington and Mexico City, respectively; Hon. Advisor to the Govt. of India on Export Promotion, Bombay; Chairman, Bombay State Road Transport Corporation, Cotton Textile Fund Cttee., New Standard Engg. Co. Ltd.; Director: Central Board of the Reserve Bank of India, Hind Cycles Ltd., The United Salt Works and Industries Ltd., Shivrajpur Syndicate Ltd., Sutlej Cotton Mills Ltd., Bagalkot Cement Co. Ltd., Adoni Spg. and Wvg. Co. Ltd., Tata Chemicals Ltd., Narandas Rajaram & Co. (Africa) Ltd.; member: Cotton Advisory Board, Export Promotion Advisory Council, Council of the Indian Institute of Bankers, Cttee. of the Indian Merchants' Chamber; Cttee. of the Federation of Indian Chambers of Commerce and Industry, Indian Central Cotton Cttee., Central Cttee. for Co-operative Training, Reserve Bank's Standing Advisory Cttee. on Agricultural Credit; Textile Commissioner's Advisory Cttee.; National Co-operative Development and Warehousing Board; Fellow, Baroda Univ. *Clubs:* Orient, Willingdon, Cricket Club, Radio Club and Rotary Club, Bombay. *Address:* Vasant Vihar, 85, Nepean Sea Road, Bombay 6.

SARANGAPANY, Srinivasa, B.E., Managing Director, Heavy Electricals Ltd., Bhopal, since Feb. 10, 1958. *b.* Aug. 4, 1903; *Educ.:* B.E. from Coll. of Engineering, Madras, 1925. Indian Railway Service of Engineers, June 1929; Executive Engineer, Aug. 1941-Dec. 1947; Dy. Chief Engineer, Jan. 1948-April 1949; Divisional Supdt., May 1949-Aug. 1953, after which posted as Project Officer, Calcutta Electrification Survey, 1953-54; Engineer-in-Chief, Calcutta Electrification Project, 1954-55; visited Europe to study the post-war developments in railway electrification, 1954; sent on deputation to Japan to assess the capacity of the electrical rolling stock industry in that country, March 1955; Gen. Manager, Eastern Rly., Aug. 1955-Feb. 1958; visited U.K. in connection with manufacturing electrical goods and new factory construction methods, etc., Sept./Oct. 1958. *Address:* Post Box No. 46, Heavy Electricals Ltd., Bhopal.

SARAWGI, Dharam Chand, Proprietor, Jokhiram Baijnath; Director, Steel Syndicate Ltd. and Hindusthan Lace Manufacturing Corporation Private Ltd. *b.* in 1905 at Ranchi in a philanthropic Jain family; *Educ.:* privately by guardian tutors; efficiency in English, Hindi & Bengali, besides working knowledge of Mahajani, Gujarati and Rajasthani. Made an extensive tour of Europe including Russia, 1929; first Indian passenger to fly from London to Karachi by Air, had an air-trip round-the-world with his wife, in 1947; went to the Sanitary Health Congress, Hastings (U.K.) as delegate of Calcutta Corporation and also visited several Nature Cure Centres in the Continent, 1953; went on a tour to Russia with his wife and father, 1960; got 'A' Class Pilot Licence, 1930; first Jain to get a Pilot Licence; Pres.: Digambar Jain Navajuvak Samiti and Mahabir Pustakalaya, 1931-44; Calcutta Marwari Sammelan and Juganter Club, 1949-50; Kumar Sabha Pustakalaya (1949-51); Merchants' Chamber of Commerce (1951 & 1952); College Square Swimming Club, since 1956; Cultural Assoc.; Mandal Congress Cttee.; Vice-Pres.: Marwari Relief Society, 1947-50; Merchants' Cttee., 1949-50; Jain Sabha, 1950-52; Burra Bazar Yubak Sabha, 1952; General Secy.: Marwari Relief Society, 1945-47; 15th World Vegetarian Congress, Calcutta session, 1957; All India Prakritik Chikitsa Parishad, since 1956; Secy.: Marwari Relief Society, 1936-37; Rasayan Sa'a; Marwari Traders' Assoc., 1938; Councillor, Calcutta Corporation (uncontested), 1952-57; Treasurer, Bengal Flying Club, since 1957. *Publications: Seven months in Europe* (Europe Men Sat Mas), *Gharelu Prakritik Chikitsa, Nerog Rahne Ke Prakritik Upay*, besides numerous articles of literary value on varied and interesting subjects contributed to and published in Hindi periodicals of repute. *Recreations:* Motoring, Travelling, Flying, Swimming, Photography, Naturopathy. *Clubs:* Bengal Flying Club; College Square Swimming Club; Calcutta Motor Sports Club. *Address:* Office and *Residence:* Jain House, 8/1, Esplanade East, Calcutta. *Tel. Address* "Naturecure."

SARDESAI, Shriniwas Ganesh, B.Com. (Bom.), Politician; Member, Central Cttee. of the Communist Party of India, since 1942. *b.* March 3, 1907; *Educ.:* Baroda, Bombay; stood first in B.Com., 1927. Political Secy. to Sir Tej Bahadur Sapru, 1928-29; secretarial work for the All-Parties Cttee. presided over by Pandit Motilal Nehru, 1928; sentenced to eighteen months R.I. in C. D. movement, 1930; joined Communist Party of India, 1931; Secy., All-India Trade Union Congress, 1931; member: A.I.C.C., 1937-45; Central Executive of the Samyukta Maharashtra Samiti; Secy., Maharashtra Cttee. of the C.P.I.; spent six years in prison as convict and detenu; was four years underground; member, editorial board of various communist journals. *Publications:* A number of publications on the Food Problem; First and Second Five Year Plans; Peasant question in Maharashtra, Goa, etc. *Address:* Banji Niwas, Sardar Patel Road, Bombay 4.

SARKAR, Mr. Justice Amal Kumar, Barrister-at-Law, Judge, Supreme Court of India, since 4th March, 1957. *b.* June 29, 1901; *Educ.:* Scottish Churches and Bangabasi Colleges; Univ. Law College. Practised as an advocate in the High Court, at Calcutta. Judge, Calcutta High Court, Jan. 24, 1949-March 1957. *Club:* Calcutta Club. *Address:* 55, Bagbazar Street, Calcutta 3; New Delhi.

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SASTRI, Ballapinni Nanjunda, M.Sc., A.R.I.C., A.I.I.Sc., F.I.A.Sc., Chief Editor, "Wealth of India", "Journal of Scientific and Industrial Research", "Research and Industry", "CSIR News", "Vignan Pragathi", "Biological Monographs" and other publications of the Council of Scientific & Industrial Research, India. *b.* Dec. 5, 1905; *Educ.:* Central College, Bangalore; B.Sc. (Mysore Univ.). Merit Scholar (Chemistry); Post-graduate research in Bio-chemistry at the Indian Institute of Science, Bangalore. M.Sc. (Bombay Univ.). Lecturer in Biochemistry, Indian Institute of Science, Bangalore (1932-42); Secy. & Publisher, Current Science (1932-42); Lecturer, History of Science & Scientific Method, Delhi Univ. (1946-49); Member, Documentation Cttee., I.S.I., since 1948. *Publications:* Over 40 research papers in enzyme chemistry, Plant Physiology and Plant Products. *Recreation:* Sanskrit classics. *Address:* Publications Directorate, Council of Scientific and Industrial Research, Old Mill Road, New Delhi 1.

SASTRI, K. A. Nilakanta. M.A. (Madras), Padma Bhushan (1957), Historian. *b.* Aug. 12, 1892; *Educ.:* Madras Christian College. Principal and Prof. of History and Economics, Sri Minakshi Coll., Chidambaram, 1920-28; Prof. of Indian History and Archaeology, Univ. of Madras, 1929-47; Pres.: Indian History Congress, Patna, 1946; All India Oriental Conference, Lucknow, 1951; Professor of Indology, Mysore Univ., 1952-56; member: Indian Historical Records Commission; Editorial Board, History of Freedom Movement in India; Director, Institute of Traditional Cultures (UNESCO), Madras, 1957. *Publications: The Pandyan Kingdom; Studies in Chola History and Admn.; The Cholas* (Vol. 1, 1935, Vol. II, 1937, Revised second edition in one volume 1955); *History of Sri Vijaya; Historical Method in Relation to Problems of South Indian History; The Tamil Kingdoms of South India; Further Sources of Vijayanagar History; Foreign Notices of South India; South Indian Influences in the Far East; Concept of a Secular State; History of India; Age of the Nandas and Mauryas, etc.; History of South India;* about 150 articles to learned periodicals. *Address:* 'Nilesvar', Edward Elliot's Road, Mylapore, Madras 4.

SASTRI, Yajnasvami Mahalinga, B.A. (History), M.A. (Sanskrit), B.L., Kavi Sarvabhauma by H. H. Sri Kanchi Kamakoti Peethadhipati (1957), Kavi Sekhara by the Mylapore Sanskrita Academy (1957), Jnana Bhaskara by H. H. Swami Sivananda (Feb. 10, 1958), Sanskrit Writer. *b.* July 31, 1897; *Educ.:* Findlay Coll., Mannargudi; Presidency Coll. and Law Coll., Madras; M.A. privately. Lawyer, 1920-34; Principal, Oriental Coll., Dharamapuram, 1946-55; *Publications:* Sanskrit (Prose, Poetry and Drama): *Bhasakatha Sara; Kinkini Mala; Kaundinya Prahasanam; Dravidarya Subhasitasaptati; Vyajokti Ratnavali* (with English translation); *Desikendra Stavanjali; Bhramara Sandesa; Vana Lata; Kali Pradurbhava Nataka; Srngara Naradiyam* (Prahasanam); *Pratiraja Suyam; Udgatr Dasananam* (Natakams), a set of Sanskrit Readers, etc.; Tamil Novels: *Namonru Ninaikka; Mappillai Thozhan;* short stories: *Mappillai Album;* English Journalist and Reviewer. *Address:* Sahitya Candra Sala, Tiruvalangadu, *Via* Narasingampet, Tanjore Dist., Madras State.

SATARAWALA, Kershasp Tehmurasp, B.A. (Hons.) (Bom.), M.A. (Punjab), I.A.S., Chief Controller of Imports & Exports, since Aug. 1959. *b.* Feb. 15, 1916; *Educ.:* Bilimoria High School, Panchgani; N. Wadia Coll., Poona; Govt. Coll., Lahore. Commissioned into the Land Forces, 1940; served in the Second World War; by the end of the War, was Deputy Asstt. Adjutant General, Waziristan; post-partition disturbances work, Aug./Oct. 1947; Comptroller of the Household (Military Secy.) to the Governor of Bombay, 1948; Sub-Divisional Officer, Gujarat (Ahmedabad and Surat), Collector and Dist. Magistrate, Dangs, 1949-52; Dy. Secy., Ministry of Defence, 1952; Dir. of Military Lands & Cantonments, Ministry of Defence, 1954-56; Khadi and Village Industries Commission, 1956-58; Joint Secy., Ministry of Commerce and Industry, 1958-59; Leader, Indian Delegation, ECAFE Cttees. on Trade and Industry, 1959. *Address:* 4-CI, Pandara Road, New Delhi.

SATHIANATHAIER, R., M.A., L.T., D.F., Professor of History and Politics, Annamalai University. *b.* Feb. 9, 1896. *Educ.:* St. Joseph's Coll., Trichinopoly; Teacher's Coll., Saidapet, Madras. Member: Regional Records Survey Cttee., Madras State; Faculty, Senate and Academic Council, Annamalai Univ.; Chairman, Board of Studies in History and Politics, Annamalai Univ.; Member, Board of Post-Graduate Studies, Kerala Univ.; Dean, Faculty of Arts, Annamalai Univ., 1947-53; Sir William Meyer Lecturer, Univ. of Madras, 1954-55. *Publications: History of the Nayaks of Madura; Studies in the Ancient History of Tondamandalam; A Political and Cultural History of India,* 3 Vols.; *South Indian History, A.D.* 300-1300 (contributed to Vols. III, IV and V of B.V.B.s History and Culture of the Indian People); *Tamilaham in the* 17th *Century* (Meyer Lectures). *Address:* 10, Professors' Quarters, Annamalai University, Annamalainagar.

SATTAR, Abdus Sattar, B.A. (Hons.), (Politics), B.L. (Calcutta), Minister for Labour Deptt., Govt. of West Bengal, since April 1957. *b.* March 3, 1911; *Educ.:* Calcutta Univ. Joined Mahatma Gandhi's C. D. Movement and entered the National Struggle for freedom, 1930; imprisoned, 1932 and 1942; started legal practice at Burdwan; has been member, A.I.C.C., since 1937 and Pres., Burdwan Dist. Congress Cttee. and also member, West Bengal P. C. C.; became Member, Prov. Parliament, 1950; elected M. P. from the Kalna-Katwa Constituency, 1952; is associated with the Trade Union Movement; is Pres. Motor Workers' Union; is connected with the Colliery Mazdoor Assoc., Primary Teachers' Assoc., etc.; He is a good speaker, both in English and Bengali; is an orator and journalist; was Editor, *Bardhamaner Katha. Address:* Calcutta.

SATWALEKAR, Madhav, G.D. Arts, Artist. *b.* Aug. 13, 1916. *Educ.:* Completed Painting course in Sir J. J. School of Arts, Bombay; took G. D. Arts, 1935; later studied in Italy at Florence and at the Slade School, London. Since his return to India has had several exhibitions in Bombay and Delhi; spent a year in East Africa painting that country, 1949: has painted portraits of the Pres. and Vice-Pres. of India and others. *Recreations:* Music, Books, *Address:* "Hasman", 89, Warden Road, Bombay 26.

SAVANT, Parshuram Krishnarao, B.A., LL.B., Minister for Agriculture, Govt. of Maharashtra, since May 1, 1960. *b.* June 8, 1908, at Mirya, Ratnagiri Dist.; *Educ.:* Primary & Secondary at Ratnagiri; Higher at Bombay. Practised as a lawyer in Bombay till 1940; became a full-time Congress worker, 1940; member, Bombay Municipal Corpn., 1939-46; Gen. Secy., Bombay Municipal Congress Party; worked as Chairman of the Markets and Gardens Cttee., was a member, B.P.C.C. and its General Secy., for some time; has been member, Bombay State Road Transport Corpn., Bombay, the Labour Welfare Board, etc.; was Chairman, Irrigation Wells Cttee., Bombay Govt.; was Vice-Chairman, Bombay Divisional Development Council since its inception; elected M.L.A., Bombay, 1946; Parliamentary Secy., Bombay Govt., 1946-48; resigned to enter into the trade union movement; since then had been Pres., Rashtriya Mill Mazdoor Sangh, Bombay; had been Pres., Bombay branch of INTUC, Treasurer, INTUC (Central) and Pres., All India Textile Workers' Federation; Adviser, Workers' Delegation to the I.L.O., Geneva, 1954; is member: Exec. Cttee., Maharashtra Congress Cttee.; A.I.C.C. *Address:* Sachivalaya, Bombay.

SAXENA, Gopal Narain, Socialist Party leader. *b.* Dec. 1897, at Lucknow: *Educ.:* Allahabad Univ. Entered politics, giving up studies during 1921 N.C. movement; has been to jail 10 times during independence movement and under Congress rule; member, A.I.C.C. for 19 years and elected to U.P. Congress Council several times; General Secy., U.P.C.C. for some time; formed the representative assembly of congressmen after his release in 1944; elected to U.P. Assembly, 1946; member, Constituent Assembly; member, fundamental rights sub-committee of Indian Constituent Assembly; one of the prominent founders of K.M.P.P.; later joined P.S.P. when the S.P. and K.M.P.P. were merged; broke away from the P.S.P. to form S.P., 1955-56; Chairman, Parliamentary Board, Socialist Party, 1956; Chairman, Socialist Party, 1957. *Address:* B. N. Verma Road, Lucknow.

SEHGAL, Amarnath, B.Sc., M.A. (Art. Ed.) (U.S.A.), Sculptor; Art Consultant to the Govt. of India, since May 1955. *b.* Feb. 5, 1922; *Educ.:* B.Sc. from Govt. Coll., Lahore, 1941; M.A. (Art. Ed.) from New York Univ., U.S.A., 1950. Held one man shows of sculptures in New York, 1950-51, Paris, 1952 and East Africa and India; organised a pilot work in Art Education in community development, Sept. 1954; surveyed Folk Art activities in northern India for UNESCO, 1955 & 56; won President's award (gold plaque) of Lalit Kala Akademi for his sculpture 'Cries Unheard', 1958; won sculpture award for 1957; his works have been acquired by the National Gallery of Modern Art, New Delhi and also by private collectors abroad; executes sculpture commissions for important public buildings and monuments. *Publications: Arts and Aesthetics; Organising Exhibitions in Rural Areas. Recreations:* Dramatics, tennis. *Address:* C/o Ministry of Community Development, Govt. of India, Krishi Bhavan, New Delhi.

SEKSARIA, KUDILAL, Industrialist and Mill-owner. *b.* 1928, in Bombay, is the Chairman of several commercial and industrial concerns, namely, Govindram Brothers Private Ltd.; The Indore Malwa United Mills Ltd.; The Seksaria Sugar Mills Private Ltd., etc., etc.; is vitally interested in the biggest group of Textile Mills of the country, namely, The India United Mills Ltd.; as a Director on the Board of this Company for several years, has been taking active interest in the Management; liberally donates to several charitable institutions; runs numerous educational institutions like Commerce & Science Colleges, Technical Institutes under Shri Govindram Seksaria Charity Trust, of which he is the Chairman; takes keen interest in philosophy and has been supporting publications and research on Hindu religion and culture. *Address:* 74, Marine Drive, Bombay.

SEN, Dr. A. T., B.Sc., M.Sc., Ph.D. (Lond.), Member, Union Public Service Commission since Sept. 1958. *b.* Nov. 30, 1901; *Educ.:* Univ. of Calcutta (1918-21), Dacca (1921-24) and London (1927-29); and Ind. Agri. Res. Instt. (1924-26); B.Sc. (1922), M.Sc. (1924), Ph.D. (1929); Agricultural Research Chemist and Hd. of Agri. Chem. Section, Dacca Univ. (1930-47); on deputation to Burma to help reorganise Agri. Coll., Mandalay; Agri. Chemist to Burma Govt. (1937-40); Prof., Agri. Chem., Rangoon Univ. (1939-40); visited U.S.A. for study of soil conservation (1947-48); Soil Cons. Officer, Ministry of Agri. (1948-50); Land Dev. Commissioner, Delhi (1950-51); Member, Public Service Commission, West Bengal (1952-54); Chairman (1954-58). *Publications:* More than 50

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scientific papers and articles relating to laterite and red soils of India, nutrition and culture of paddy, soil conservation, etc. *Recreations :* Big game hunting; Fishing; Photography. *Address :* "Pratichi", P.O. Santiniketan, West Bengal; U.P.S.C., Dholpur House, New Delhi 11.

SEN, Asoke Kumar, Minister for Law, Government of India, since April 1957. *b.* Oct. 10, 1913. Joined the revolutionary movement in Bengal at the early age of fourteen ; is

an active member even now of Satirtha Sangha, was under police surveillance, 1931-35 ; passed M.A. with 1st class in Economics, 1935; passed M.Sc. in Economics from London School of Economics, 1939 ; was called to the Bar from Grays Inn, 1941 ; while in England, joined the India League ; participated in the campaign for Indian independence. Enrolled as Advocate, Calcutta High Court, 1941 ; in nine years, became one of the leaders of the bar, simultaneously in commercial, constitutional and criminal matters and tax cases ; appointed Junior Standing Counsel to the Govt. of West Bengal, 1950 ; resigned, 1956 ; one of India's delegates to the 10th Assembly of the U.N., 1955 ; has been Editor, *Calcutta Law Journal ;* elected M.P. from Calcutta North West constituency as a Congress candidate, 1957 ; led the United Nations Conference on the Law of the Sea in Geneva in 1958 and 1960 ; leader, Indian Delegation to the U.N. Seminar on human rights, held in Tokyo in May 1960 ; Author of Handbook of Commercial Law ; is the only Congress M.P. from Calcutta ; has started Samaj Seva Samities all over Calcutta and West Bengal ; is keenly interested in helping the solution of the unemployment problem and refugee problem of West Bengal. *Address :* New Delhi.

SEN, Binay Ranjan, Director-General, Food and Agriculture organization of the United Nations, since Nov. 1956. *b.* Jan. 1, 1898 ; *Educ. :* Calcutta and Oxford Univs. Director of Civil Evacuation, Bengal, 1942-43 ; Relief Commr., 1942-43 ; Director-General, Food, Govt. of India, 1943-46 ; Secy. to the Govt. of India, Dept. of Food, 1946 ; Minister to the Embassy of India in the U.S.A., 1947-50; Indian Ambassador to Italy and Yugoslavia, 1950-51 and 1953-54 ; Indian Ambassador to the U.S.A., 1951-52 ; Member, Indian Delegation to the General Assembly of U.N., 1947 ; Agriculture Secy. to the Govt. of India, 1948 ; Head of Jt. Mission of F.A.O. and E.C.A.F.E. in the Far East to study agricultural development plans ; Head of the Indian Delegation to : E.C.O.S.O.C. (Economic and Social Council of the U.N.), 1949 and 1953 ; Annual Conference of the F.A.O., 1949 and F.A.O. Council, 1950, '51, '53 ; Indian Ambassador to Japan, 1955-56. *Clubs :* Delhi Gymkhana ; Calcutta. *Address :* F.A.O., Rome, Italy.

SEN, Boshi (Basiswar), B. Sc. (Calcutta), Padma Bhushan (1957), Scientist ; Director, Vivekananda Laboratory, Almora. *b.* Nov. 1887 ; *Educ. :* Calcutta Univ.; research with Sir J. C. Bose, Bose Institute, Calcutta ; London Univ. ; Strangeways Laboratory, Cambridge ; Marine Biological Laboratory, Plymouth and New York Univ., New York. Joined J. C. Bose for research, 1911 ; accompanied him in his world lecture tour as a Special Asstt., 1914-15 ; visited Universities in Japan, U.S.A. and England, 1923-24 ; was elected member, Physiological Society of Great Britain and Botanical Society of America ; founded the Vivekananda Laboratory in Calcutta for research in General Physiology ; joined the short course of Peaceful Uses of Atomic Energy at Oak Ridge, U.S.A., 1955 and attended the First International Conference in Geneva. *Publications :* A large number of scientific papers in Indian, British and American Journals. *Address :* Kundan House, Almora, U.P.

SEN, Lieut.-General Lionel Protip, Distinguished Service Order (1944), Mentioned in despatches, Kashmir (1948). G.O.C.-in-C., Eastern Command. *b.* Oct. 20, 1910 ; *Educ. :* Rangoon ; Royal Military Coll., Sandhurst, England. Commissioned, Jan. 1931 ; served in several regiments, 1931-38 ; promoted Lt. Col. and commanded 16th Bn. The Baluch Regt. in the Arakan Operations, 1944-45 and in Malaya, 1945-46; Secy., National Cadet Corps Cttee., 1946; promoted Col. and posted to Army Hq., 1947; promoted Brigadier, Oct. 1947; commanded 161 Infantry Brigade which flew into Srinagar and inflicted a crushing defeat on the Pakistan raiders ; attended the Imperial Defence Coll., London, 1950 ; Military Attache to the Indian Embassy in Japan and Liaison Officer with the U.N. Forces in Korea, 1951 ; commanded 4th Infantry Division, 1954 ; Director of Military Training at Army Hq., 1955-57 ; Master General of the Ordnance, Army Hqr., 1957-58 ; Chief of the General Staff, 1958-61. *Clubs :* Delhi Gymkhana Club ; National Sports Club of India ; Delhi Golf Club. *Address :* C/o National and Grindlay's Bank Ltd., New Delhi.

SEN, Mihir Kumar, B.Sc., LL.B., Barrister-at-Law, Padma Shri, Swimmer. *b.* Nov. 16, 1928, at Purulia (West Bengal) ; *Educ. :* Ravenshaw Collegiate School and Ravenshaw Coll., Cuttack, Orissa ; called to the Bar from Lincoln's Inn, Nov. 1954 ; read in the chambers of Mr. D. N. Pritt, Q. C., London. Set up practice at Calcutta High Court, May 1956 ; as the first Indian ever, made a bid to swim the English Channel ; swam the Channel from England to France on 26th/27th Sept. 1958, as the first Indian and only Asian, with a time of 14 hours 45 minutes, the fourth fastest in this direction on record ; started off from Shakespeare beach, Dover and landed on the French Coast at 2-45 a.m. G.M.T. near Sangatte, but was stranded on the French shore for 4 hours, as the sea was too rough for a rescue boat to be launched ; name entered in the Black Books of Lincoln's Inn—in recognition of his achievement ; founder, Explorers' Club of India, Calcutta. *Hobbies :* Fishing, travelling. *Address :* Bar Library, Calcutta High Court, Calcutta.

SEN, Nikhil Ranjan, D.Sc. (Cal.), Dr. Phil. (Berlin), F.N.I., Scientist. *b.* May 23, 1894 at Dacca ; *Educ. :* Govt. Schools at Dacca, Rajshahi ; M.Sc. from Presidency Coll., Calcutta, 1916 ; Munich and Berlin Univs. Appointed Post-graduate Lecturer in Applied Math., Calcutta, 1917 ; studied in Germany and France, 1921-24 ; Pres., Calcutta Mathematical Society, 1935-57 ; member, National Cttee. for India, International Mathematical Union ; Prof., Applied Maths., Calcutta Univ., 1922-59. *Publications :* Original contributions in Indian and foreign journals on cosmology and theory of turbulence ; *Subjects of Interest :* Theory of Relativity ; Internal Constitution of Stars. *Address :* 58A, Block D, New Alipore, Calcutta 33.

SEN, Mr. Justice Nirmal Kumar, B.A. (Hons. in English), M.A. (English), LL.B., Judge, Calcutta High Court, since March 13, 1957. *b.* Dec. 31, 1902 ; *Educ. :* Presidency Coll., Calcutta ; Univ. Law Coll., Calcutta ; B.A. (Hons. in English), 1921 ; M.A. (English), 1923 ; LL.B., 1924 ; Onanth Nanth Deb Law Research Prize holder and Gold medallist, Calcutta Univ., 1928. Advocate, High Court, Calcutta, May 15, 1925 ; Advocate, Federal Court, New Delhi, April 3, 1945 ; Advocate, Supreme Court of India, Aug. 15, 1947 ; appointed Deputy Legal Remembrancer to the Govt. of West Bengal, Aug. 15, 1947 ; some time member, Board of Studies in Law, Calcutta Univ., and also member, Faculty of Law, Calcutta Univ. *Publications : Torts by Animals ; Procedure in Execution and Miscellaneous matters. Clubs :* Chakrabaithak-Dhakuria Lakes. *Address :* 98/8, Russa Road, Calcutta-26.

SEN, Paritosh, Diploma from Madras School of Art, Painter ; Senior Lecturer for Typography, Design & Layout, School of Printing Technology, Calcutta, since 1956. *b.* Oct. 18, 1918 ; *Educ. :* Madras School of Art ; Paris. Art Master, Daly Coll., Indore, 1940-49 ; practised as a painter in Paris, 1949-54 ; exhibited in London and Brussels ; Senior Art Master, Bihar Govt.'s New Public School in Neterhat, 1954-56. *Recreations :* Music, Literature, Films. *Address :* 162/39, Prince Anwar Sha Road, Calcutta 33.

SEN, Dr. Sachin, M.A., B.L., Ph.D., Editor, *The Indian Nation* (daily), Patna and former President, All-India Newspaper Editors Conference. *b.* Nov. 1902 ; *Educ. :* Dacca and Calcutta. Some time Asstt. Secy., British Indian Assoc., Calcutta, and Lecturer, Vidyasagar Coll., Commerce Deptt. ; acted as Secy. to Sir P. C. Mitter during the 2nd Round Table Conference in London, 1931. *Publications : The Political Thought of Tagore ; An Introduction to Science of Economics ; Studies in the Land Economics of Bengal ; The Birth of Pakistan, The Press and Democracy,* etc. *Address : The Indian Nation* Office, Patna.

SEN, Salil Chandra, B.Sc. (Engg.) (Hons.) (Glasgow), Principal, Delhi Polytechnic, since 1949. *b.* April 12, 1909 ; *Educ. :* Presidency Coll., Calcutta ; B.Sc. (Engg.) (Hons.) from Glasgow Univ., 1932. Asstt. Engr., Calico Mills, Ahmedabad, 1935-39 ; Chief Engineer, Dhakeshwari Cotton Mills, Narayanganj, Dist. Dacca, 1939-41 ; Vice-Principal, Delhi Polytechnic, Delhi, 1941-49. *Address :* Delhi.

SEN, Dr. Samar Ranjan, Ph.D. (Dacca), Ph.D. (London), Joint Secy., Planning Commission. *b.* July 2, 1916 ; *Educ. :* Calcutta Univ., 1935-37 ; Dacca Univ., 1937-39 ; London Univ., 1945-47. Took part in C.D. Movement, 1932 & 1942 ; Member : Research Programmes Cttee. and Panel of Economists, Planning Commission ; Standing Advisory Cttee. of the Reserve Bank of India on Agricultural Credit ; Enquiry Cttee. on Commodity Controls, 1953 ; Leader, Indian Agricultural Delegation to the U.S.S.R. and Poland, Sept.-Oct. 1954 ; Member-Secy., Indian Delegation to China on Agricultural Planning, 1956 ; Chairman, Jute Inquiry Cttee., 1957 ; Pres.-elect, All India Agricultural Economics Conference, 1958-59 ; F.A.O., 1956 ; Director, F.A.O. Farm Management Centre, 1957 ; Chairman ; Jute Inquiry Cttee., 1957 ; ECAFE/FAO Expert Group on Agricultural Planning, 1960 ; Pres., All-India Agricultural Economics Conference, 1958-59 ; Economic & Statistical Adviser, Food & Agricultural Minister, Govt. of India, 1950-58. *Publications : Economics of Restrictinism ; Economics of Sir James Stewart ; Employment and Money ; The Problem of Population and Agricultural Productivity in India,* etc. *Club :* National Sports Club of India. *Address :* 20, Lodi Road, New Delhi 3.

SEN, H.E. Mr. Samarendranath, B.A. (Cal.), B.Sc. (Lond.), I.C.S., Kaiser-i-Hind (1944), Padma Shri (1957) ; High Commissioner for India in Australia and New Zealand, since 1959. *b.* Aug. 10, 1914 ; *Educ. :* Bengal, London and Oxford. Joined I.C.S. in London, 1938 ; Asstt. Magistrate and Collector, Bengal, 1939 ; Sub-Divisional Officer, 1941-44 ; Regional Controller of Procurement, Civil Supplies Deptt., Bengal ; appointed to the Indian Political Service, 1946 ; Under Secy., Dept. of External Affairs, 1946-48 ; Liaison Officer of the Govt. of India to the U.N., New York ; Dy. Secy., Ministry of External Affairs and Commonwealth Relations, New Delhi, 1948 ; Head of Chancerry, High Commission of India, London, 1949-50 ; Dy. Secy., Ministry of External Affairs, New Delhi,

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1951-53; Consul-General of India in Switzerland, 1953-55; Chairman, International Commission for Supervision & Control, Laos, 1955-57; Joint Secy., Ministry of External Affairs, New Delhi, 1957-59. *Address:* Canberra.

SENGUPTA, Monoranjan, B.Sc. (Cal.), B.Sc. (Eng.) First Class (Hons.) Glas., C.P.E. (Glas.), M.I.E.E. (Lond.), M.I. Mech. E. (Lond.), M.I.E. (Ind.), F.I.P.S. (Ind.), M. Brit. I.R.E. (Lond.), F.R.S.A. (Lond.), F.N.I. (Ind.), Professor and Head of the Dept. of Electrical Engineering and Principal of the Engineering College and Provost, Benares Hindu Univ. *b.* June 28, 1903, at Rangpur, Bengal; *Educ.:* Rangpur Zilla School, Bengal; Ananda Mohan College, Mymensingh; Rajshahi College, Bengal; Glasgow University. Member, Development Board, Post-war Reconstruction Scheme, Govt. of Bihar; Development Board, Roorkee Univ.; Council of Scientific and Industrial Research; Standards Institution; member, Education Panel of the Planning Commission, New Delhi. *Publications:* Several scientific papers read and published; *Statistics for Engineering Production in India; Utilisation of Photo Electric Tubes in Industry; Modern Traction System; Training of Post-graduate Engineers; Design and Performance of High-gain-Amplifier; Comparison of British Grid System with other existing Transmission Systems in the World. Address:* Banaras.

SEN GUPTA, Dr. Sudhir Ranjan, B.Sc., Ph.D., Director, Indian Institute of Technology, Kharagpur, West Bengal. *b.* Feb. 27, 1907; *Educ.:* India and England. Lecturer and later Professor, Bengal Engineering Coll., Howrah; Dy. Educational Adviser (Technical) to Govt. of India, Ministry of Education, New Delhi; Principal, Bengal Engineering Coll., Howrah. *Address:* Indian Institute of Technology, Kharagpur.

SESHADRI, Thiruvenkata Rajendra, M.A. (Madras), Ph.D. (Manc.), F.R.I.C., F.A. Sc., F.N.I., F.R.S., Scientist; Professor and Head of the Chemistry Dept., Delhi Univ., since 1949. *b.* Feb. 3, 1900; *Educ.:* High School, Srirangam; National High School, Tiruchirapalli; Presidency Coll., Madras; Univ. of Manchester; Univ. Coll., London; Medical Chemistry Laboratory, Graz, Austria; Deptt. of Medical Chemistry, Univ. of Edinburgh. Soil Chemist, Agricultural Research Institute, Coimbatore, 1930–33; Reader and later Prof. and Head of the Deptt. of Chemistry, Andhra Univ., 1933-49. *Publications:* Over 500 original papers in Chemistry; one book on Chemistry of Vitamins & Hormones. *Address:* 31, Probyn Road, Delhi University, Delhi 8.

SETALVAD, Motilal Chimanlal, B.A., LL.B., Padma Vibhushan (26 January 1957). Attorney-General of India, since 1950. *b.* Nov. 12, 1884; *Educ.:* Elphinstone Coll., Bombay. Enrolled as Advocate, Bombay High Court, 1911; Advocate-General, Bombay, 1937-42; member: Indian Delegation to the U.N. General Assembly, 1947 and 1948; Kashmir Delegation to Security Council, 1948; Leader of the Delegation to U.N. General Assembly, 1949; Acting Advocate-General, 1949; Vice-Pres., Indian Branch of the International Law Assoc.; Principal Representative of India for the Kashmir question at the Security Council, 1952; Chairman, Law Commission, 1955-58; Leader of the Delegation to the first, second and third sessions of the Asian-African Legal Consultative Cttee., 1957-59; presented India's case before the World Court at The Hague regarding dispute with Portugal on the right of passage through Indian territory claimed by that country; Delivered Hamlyn lectures in London, 1960. *Publications: Civil Liberties in India; Common Law in India. Club:* Willingdon Sports Club. *Address:* 1, Race Course Road, New Delhi.

SETHI, Seth Lalchand Balchand, Rai Bahadur, Vanijya Bhushan, Jain Ratna, Tajir-ul-Mulk, Banker and Millowner. *b.* 1893. Head of the firm of Seth Binodiram Balchand, Bankers; Director-in-charge and President, Board of Directors, the Binod Mills Co. Ltd., Ujjain, including Deepchand Mills, Binod Silk and Art Silk Mills, Narendra Chemical Works, Bhupendra Iron and Metal Works & other concerns; President, Managing Board: Model Higher Secondary School, Ujjain; The Central India Cotton Assoc. Ltd., Ujjain; Chairman: The Municipal Board, Ujjain, 1935-1947; Vikram Education Public Trust; Yuvraj General Library; Vice-President, The Hindi Literary Society of Central India, Indore; The Digamber Jain Sabha; Jhalrapatan City; Director: The Hukumchand Mills Ltd.; The Central India Insurance Co. Ltd.; The Kalyanmal Mills Ltd.; The Madhya Pradesh Financial Corporation, Indore; The Vulcan Insurance Co. Ltd., Bombay; Binodiram Balchand Private Ltd.; Indian Electro-Chemicals Ltd., Bombay; New Manekchowk Spinning & Weaving Mills Ltd., Ahmedabad; The Central India Machinery Manufacturing Corporation, Birlanagar, Gwalior; Krishnaram Baldeo Bank (Private) Ltd., Gwalior; Hira Mills Ltd., Ujjain; Hony. Treasurer, Vikram Univ., Ujjain; member: Board of Governors, Scindia School, Gwalior; Board of Secondary Education, Madhya Pradesh; is a regular contributor to charitable institutions. *Recreation:* Reading. *Clubs:* The Cricket Club of India; The Willingdon Sports Club, The Radio Club, Bombay; Jiwaji Club, Gwalior; Shri Yeshwant Club, Indore; Shri Madhav Club, Ujjain; Rotary Club, Ujjain (Hon. member). *Address:* Binod Bhawan, Ujjain (M.P.). Telegraphic Address: *Sethi.*

SETHNA, Dr. Minocher Jehangirji, Ph.D. (Bom.), Philosopher, Jurist, Writer, Professor and Counsel; Founder and Pres., Indian School of Synthetic Jurisprudence. *b.* Nov. 1, 1911; *Educ.:* Master's Tutorial High School, Wilson Coll., The Bombay Univ. and at Middle Temple, London. Is a Professor at Govt. Law Coll., Bombay, a keen writer and a scholar who has dedicated his life to writing and to philosophical and legal research; founded the Indian School of Synthetic Jurisprudence, the first of its kind in India, July 21, 1955. *Publications: Society and the Criminal; A Standard Text Book on Jurisprudence; A Standard Text Book on Indian Company Law; A Standard Text Book on Indian Mercantile Law; Civil Wrongs and Their Legal Remedies;* and some philosophical writings. *Address:* Sethna House, 251, Tardeo Road, Bombay.

SHAH, H.E. Mr. Jayvaden Anupchand, B.Sc. (Hons.) (France), B.Sc. (Econ.) (Lond.), Bar-at-Law, Ambassador of India in Madagascar, since Jan. 1961. *b.* Nov. 20, 1906; *Educ.:* France and London. Practised at Bombay High Court, 1932–49; O.S.D., Min. of Commerce & Industry, April–July, 1949; First Secy. (Com.), Rome, 1949–50; First Secy., Rio-De-Janeiro, 1950–52; First Secy. (Com.), London, 1952–54; First Secy., Tehran, 1954–56; Dy. Secy., Min. of External Affairs, New Delhi, 1956–57; Consul-General, Tananarive, 1958–59; Minister, Charge d'Affaires, Tananarive, July–Dec. 1960. *Address:* Embassy of India, 14, Rue Pére Camboué, Boite Postale No. 1108, Tananarive (Madagascar).

SHAH, Mr. Justice Jayantilal Chhotalal, LL.B., Judge, Supreme Court, since Oct. 12, 1959. *b.* Jan. 22, 1906; *Educ.:* R. C. High School, Ahmedabad; Gujarat Coll., and Elphinstone Coll., Bombay. Practised at Ahmedabad District Court and at Bombay High Court. Advocate (O.S.); Chairman, Food Poisoning Enquiry Commission, appointed by the Govt. of India to investigate the causes of food poisoning in Kerala State; Judge, Bombay High Court till Oct. 1959. *Address:* 11, Tuglak Road, New Delhi.

SHAH, Kastoor Mal, Industrialist, Jaipur. Vice-Pres., The Urban Co-operative Bank Ltd., Jaipur; Chairman, Federation of Association of Small Industries, Rajasthan, Jaipur; member: All India Small Scale Industries and Handicrafts Board; Vice-Pres., Jai Club, Jaipur; Senior Vice-President, Rajasthan Chamber of Commerce and Industry, Jaipur; Director: Jaipur Mineral Development Syndicate Private Ltd., Jaipur; Udaipur Mineral Development Syndicate Private Ltd., Jaipur; The Associated Soapstone Distributing Co. Private Ltd., Jaipur; Shah Engineerings Private Ltd., Jaipur; Rajasthan Small Industries Corpn. Ltd., Jaipur; Partner, Shah & Co., Jaipur; is an active sportsman and a good speaker; extensively travelled in Europe and East Asia. *Address:* Shah Building, Chaura Rasta, Jaipur, Rajasthan.

SHAH, Maneklal Chunilal, B.A., LL.B., Minister for Health and Industries, Gujarat State, since May 1, 1960. *b.* 1896; *Educ.:* Gujarat Coll., Ahmedabad. Headmaster, A. V. School, Dholka, for two years; joined a Solicitor's firm in Bombay as a managing clerk; set up practice at Dholka, Dec. 1920; Chairman, Managing Cttee., Seth Hasanalli High School, Dholka, from 1922; elected member, Dholka Municipality, 1923; was its President for two terms, 1935–39; again elected President, 1942; disqualified owing to his absence for more than three months from the town due to imprisonment; elected member: Dist. School Board, Ahmedabad for two consecutive terms from 1939; Dist. Local Board, 1944 to 1957; elected its President from 1947 to 1957; elected M.L.A., 1947 and continuously for the third time, 1957; was member, Prov. Council and Exec. Cttee. of the Local Self-Govt. Institute, Bombay; Minister for Local Self-Govt., Bombay State, 1957–60. *Address:* Sachivalaya, Ahmedabad 15.

SHAH, Manubhai Mansukhlal, B.Sc. (Hons.), B.Sc. (Tech.), Minister of Industry, Government of India, since May, 1957. *b.* Nov. 1, 1915; *Educ.:* Baroda Coll., Baroda; Institute of Science, Bombay. Served in high technical and administrative posts in the Delhi Cloth & General Mills Co. for over 12 years. Minister for Finance, Govt. of Saurashtra; Minister for Industrial Development, Govt. of India, 30th April 1956-14th June 1956; Minister for Heavy Industries, June 1956-May 1957. *Address:* 12, Tughlak Road, New Delhi.

SHAH, M. L., Prominent business man and industrialist of Calcutta. *b.* August 1894. Partner in the firm of Managing Agents for The Mohini Mills, Ltd. Nos. 1 and 2 and Chimanlal Vadilal & Co.; twice Ex-President, Indian Chamber of Commerce and Bengal Millowners' Assn., Calcutta; is Pres.: Indian Chamber of Commerce; Indian Society of Quality Control and Bengal Millowners' Assoc.; Director of several banking, jute, tea and insurance institutions in Calcutta; Ex-Pres., All-India Organisation of Industrial Employers; Member: Cttee. of the Federation of Indian Chambers of Commerce and

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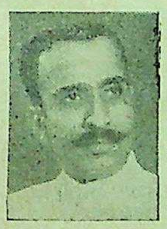
Industry; Indian Companies Law Amendment Cttee.; Cotton Advisory Board; Indian Cotton Mills Federation; Commissioner for the Port of Calcutta; Assessor to the Industry and Trade Panels of the Railway Rates Tribunal, etc.; Pres., All India Textile Assoc. (Calcutta Branch); member, Cotton Textile Consultative Board; Committee Member: Tripartite Cttee. for Assessment of Workload and Rationalisation in Cotton Textile Industry, West Bengal, Indian Chamber of Commerce, Indian National Cttee., International Chamber of Commerce, New Delhi, Regional Cttee., West Bengal (Employees' Provident Fund), Calcutta; member, Cotton Textile Loan Advisory Cttee. of the N. I. D. C. Private Ltd., Bombay; member: Cotton Textile Export Promotion Council, Bombay; All-India Board of Technical Studies in Textile Technology, New Delhi; Finance Committee of the Indian Red Cross Society, West Bengal State Branch: represented the Employers as a Delegate to the I.L.O. Conference at Geneva, 1948; takes great interest in social and cultural activities. *Clubs:* Rotary Club of Calcutta; Calcutta Club. *Address:* 22, Canning Street, Calcutta.

SHAH, Shantilal Harjivan, B.A., LL.B., Minister for Law, Judiciary and Labour, Maharashtra State, since May 1, 1960. Solicitor. *b.* July 30, 1898; *Educ.:* Gujarat Coll., Ahmedabad; Elphinstone Coll., Bombay. Congress worker in the Bombay Suburban District; was convicted and jailed for 18 months, 1932 and for 9 months, 1941; arrested and detained for 33 months, 1942; member, Bombay Legislative Assembly; Partner, Messrs. Bhaishanker Kanga and Girdharlal, Solicitors, Bombay; Minister for Labour and Public Health, Govt. of Bombay, till Oct. 31, 1956; Minister for Education and Law, Govt. of Bombay, Nov. 1956–April 1957; Minister for Labour and Law, Bombay State, April 1957–May 1960. *Address:* Sachivalaya, Bombay.

SHAH, Soomatichandra S., Managing Director, Kooverji Devshi & Co., Ltd. *b.* June 30, 1905. After completing his education, joined his father's business and developed it to its present position; has travelled widely in India; member: Assoc. of Merchants and Manufacturers of Textile Stores and Machinery; Indian Standards Institution; All-India Manufacturers' Assoc. *Clubs:* Hindu Gymkhana; W.I.A.A. Club House Ltd. *Address:* 146, Lohar Street, Bombay 2.



SHAMBHU MAHARAJ, Padma Shri Guru, leading traditional Guru of Kathak Natwari dance of North India; Padma Shri (1958), Sangeet Natak Akadami Award (1955), Natwari Nritya Samrat (1936), Head of Dance Deptt., Bharatiya Kala Kendra, New Delhi. *b.* Kartik Purnima, 1907; *Educ.:* Privately at home; first received training in *thumri* singing from Ustad Rahimuddin Khan Banaraswale at Lucknow and Faizabad (1919-20); trained in Bharat Nritya-Natwari by eldest brother Pandit Jagannath Prasad *alias* Acchan Maharaj, then court-dancer of Rampur (1920-1925). Started propagation of Bharat Nritya-Natwari from Lucknow and Calcutta; first appeared in public performance at Lucknow, 1925; appeared later in various conferences throughout India; awarded Padma Shri, 1958. *Address:* Bhaironji Road, Puljhaulal, Lucknow; *Residence:* 7A/38-WEA, Karol Bagh, New Delhi.

SHANKAR, Vidya, M.A., I.C.S., Special Secretary, Ministry of Food and Agriculture since Nov. 1960. *b.* Nov. 10, 1909 at Partabgarh (Oudh); *Educ.:* Govt. High School, Partabgarh (Oudh); D.A.V. Coll., Kanpur; Univ. School of Arts, Allahabad and St. John's College, Oxford. Appointed to I.C.S. (1933); Asstt. Collector, Dharwar (1933–37); West Khandesh (1937–38); Poona (1938–39); Under-Secy. to the Govt. of Bombay, Rev. Dept. (1939–40); Dy. Secy., Finance Dept. (1940–41); Under-Secy. to the Govt. of India, Home Dept. (1941–43); Dy. Secy. (1943–46); Private Secy. to the Home Member (1946–47); Private Secy. to Hon. the Dy. Prime Minister, Aug. 1947–50; Jt. Secy., Ministry of States, March 1948–Aug. 1952; Jt. Secy., Ministry of Defence, Aug. 1952–Jan. 1954; Collector of Banaskantha, Jan. 1954–Jan. 1955; Secy. to the Govt. of Bombay, Revenue Dept., Jan. 1955–Oct. 1958; Director-General, Post and Telegraphs, 1958–60. *Recreations:* Tennis, Books, Badminton, and other games. *Clubs:* Delhi Gymkhana Club, Cricket Club of India, R.W. I.T.C., National Sports Club of India. *Address:* New Delhi.

SHANTARAM, Rajaram Vankudre, leading Film Producer, Director and Actor. *b.* Nov. 18, 1901; *Educ.:* Kolhapur. Actively associated with film industry from 1920; founder member, Prabhat Film Co., Poona; has so far produced and directed over 60 pictures, the first in 1926; is considered one of the best directors in the world; recipient of National and International Awards for best picture, best direction, best techniques, etc.; was Chief Producer of Government Films Division; was member, Censor Board, Film Advisory Board, etc.; 'Shakuntala' produced and directed by him was the first Indian picture commercially released in the U.S.A.; his 'Jhanak Jhanak Payal Baaje' is the technicolor production made in India without help from foreign technicians; his film "Two Eyes Twelve Hands" won the "Gold Bear" of the International Film Festival, Berlin, The Hollywood Foreign Press' Samuel Goldwyn Award for the "Best Picture" and a plaque by the Catholic Film Bureau, Brussels for the "best human document." *Address:* Rajkamal Kalamandir Ltd., Parel, Bombay 12.

SHANTILAL, Mangaldas, B.A. (Bom.), Managing Director, The Jehangir Vakil Mills Co., Ltd., Ahmedabad. *b.* 1901. Managing Director, New Jehangir Vakil Mills Co., Ltd., Bhavnagar, Navjivan Mills Ltd., Kalol (N.G.); Director of several other concerns; Pres., Federation of Indian Chambers of Commerce and Industry, New Delhi, 1955-56; Pres., Ahmedabad Millowners' Assoc. for 1946; Member, Senate of the Univ. of Bombay, 1928-43; attended the Textile Cttee. meetings of the International Labour Organisation at Brussels, 1946 and at Geneva, 1948 as Employers' delegate; takes interest in social work and education. *Address:* Near Police Lines, Shah-i-bag, Ahmedabad.

SHARMA, Brij Lal, B.A. (Hons.), Officer on Special Duty, Ministry of External Affairs. *b.* April 6, 1906; *Educ.:* Graduated with Honours from F.C. Coll., Lahore, 1927. Was in England including a few years spent in Fleet Street, 1927-33; on the staff of *Hindustan Times* and Correspondent of various newspapers in India, 1934-38; joined Press Information Bureau as Asstt. Information Officer, Sept. 1938; member, Indian Delegation to the Security Council on the Kashmir issue, 1948; appointed Deputy Secretary, Information and Broadcasting Ministry, Oct. 1948; Principal Information Officer, 1949–54; Adviser to the Indian Delegation to the U.N. General Assembly, 1950; Adviser to the Indian Delegation on Kashmir to Geneva, 1952; Colombo Plan Information Officer, Colombo, 1954-56; delegate or observer to Colombo Plan Consultative Cttee. meetings, New Delhi 1953, Ottawa 1954, Singapore 1955; Adviser, Indian Delegation to the Security Council on Kashmir, 1957. *Address:* Ministry of External Affairs, New Delhi.

SHARMA, Narendra, M.A. (Allahabad), Hindi Poet; Programmes Producer, All India Radio, since 1953. *b.* Feb. 28, 1913; *Educ.:* Khurja and Allahabad; M.A. in 1936. Entered journalism as sub-editor in "Abhyudaya", Hindi Weekly, Allahabad, 1934 and "Bharat", Hindi Daily, Allahabad, 1937; In-charge, Hindi Section, A.I.C.C. Secretariat, Swaraj Bhawan, 1938–40; Editor, "Roopabh", Hindi Monthly (Alld.); Lecturer, Kashividyapith; detained without trial, 1941–42; Lyric-Writer, Bombay Talkies, 1943–47; Freelancer. *Publications:* *Shool-Phool; Karn-Phool; Prabhat-Pheri; Pravasi Ke Geet; Mitti Aur Phool; Kamini; Hansmala; Rakt Chandan; Agni-Shasya; Kadali-Van* and *Palash-Van* (collections of verses); *Karavi-Mithi Baaten* and other short stories (collection of stories). *Address:* 19th Road, Khar, Bombay 52.

SHARMA, Ram Bilas, M.A., Ph.D. (Lucknow), Hindi writer; Professor and Head of the Deptt. of English, B. R. Coll., Agra, since 1943. *b.* Jan. 16, 1912, in a peasant family in Unnao Dist., U.P.; *Educ.:* M.A. in English Literature from Lucknow Univ., 1934; Doctorate from Lucknow Univ., 1940. Lecturer in English, Lucknow Univ., 1938-43. *Publications:* English: *Introduction to English Romantic Poetry* (Agra, 1944); Hindi: Several Critical Studies—*Premchand aur unka Yuga; Bharatendu-Yuga; Nirala; San Sattavan Ki Rajyakranti*, etc.; Poems: *Roopa-Taranga.* *Recreation:* Linguistics. *Address:* 12, Ashok Nagar, Agra.

SHARMA, Dr. Shanker Dayal, M.A., LL.M., Bar-at-Law, D.P.A. (Lond.), F.R.A.S. (Lond.), Ph.D. (Cantab.), Minister for Education and Law, Madhya Pradesh. *b.* Aug. 1918; *Educ.:* Allahabad, Lucknow and Cambridge Univs.; Brandeis Fellow of Harvard Law School, U.S.A.; Fellow of the Academy of International Law at Hague, Holland. Lecturer, Law Faculty, Cambridge Univ.; Lecturer and Reader in Law, Lucknow Univ.; Editor-in-Chief, Lucknow Univ. Union Journal; Editor, Lucknow Law Journal; Chief Minister, Bhopal. *Publications:* Published literary and legal articles in Indian and foreign periodicals. *Recreation:* Swimming. *Clubs:* Cambridge Univ. Majlis; Lucknow Univ. Union. *Address:* Bhopal.

SHARMA, Pandit Vichitra Narain, Ex-Minister for Local Self-Govt. U.P. *b.* May 10, 1898; *Educ.:* D. A. V. High School, Dehra Dun; Banaras Hindu Univ., Banaras. Participated in non-co-operation movement, 1920; founded with Acharya Kripalani, Gandhi Ashram, 1920; jailed several times in the freedom movement, 1921, 1932 and 1942; General Secy., Gandhi Ashram, since its foundation till 1958; Secy., Kashmir Charkha Sangh, 1938-43; nominated member, old Leg. Council 1947; elected M.L.A., U.P., at the first general elections, 1952; Minister for Transport, U.P., May 1952-Dec. 1954. Minister for Public Works, U.P., Dec. 1954-March 1957. *Recreations:* Horticulture; Agriculture. *Address:* 34, Mall Avenue, Lucknow.

SHASTRI, Pandit Hiralal, Sahitya Shastri, B.A., Member of Lok Sabha from Sawai Madhopur (Rajasthan). *b.* Nov. 24, 1899; *Educ.:* Maharaja's Coll., Jaipur; Secy., Foreign and Home Dept., Council of State, Jaipur; founded 'Jiwankutir,' Banasthali, Jaipur, for village uplift work; following the sudden death of his only daughter, Shantabai, founded Banasthali Vidyapith, national institution for girls' education; General Secy. and Pres., Jaipur Rajya Prajamandal; General Secy., Rajputana Regional Council of All-India States People's Conference; General Secy., All-India States People's Conference; member, Constituent Assembly of India; member, Provisional Parliament of India; first popular Chief Minister, Jaipur State and then Rajasthan State; Editor, "Jiwan Sandesh," Hindi Weekly; Founded Navajiwan Kutir, Jaipur for general education of the people; Founder-Chairman of "Lokvani," Hindi Daily. *Publications:* *Geet-Pachchisi, Navjiwan Karyakram.* *Address:* Navajiwan Kutir, Pani Park, Jaipur.

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SHASTRI, Lal Bahadur, Minister for Home Affairs, Govt. of India, since April 4, 1961. *b.* 1904, in a village in Banaras Dist. (U.P.); *Educ.:* Kashi Vidyapeeth. Participated in the Non-Co-operation Movement and courted jail, 1921; Life-Member, Servants of the People Society, since 1926; imprisoned for two and a half years during Salt Satyagraha movement, 1930; General Secy., U.P. C.C., 1935-38; returned to the U.P. Leg. Assembly, 1937; re-elected and appointed Parliamentary Secy. to the Chief Minister, U.P., 1946; elected Secy.: U.P. Congress Parliamentary Board, 1945; appointed Minister for Police and Transport, U.P., 1947; resigned and became Gen. Secy., Indian National Congress, 1951; elected member, Rajya Sabha from U.P. Minister for Railways and Transport, Govt. of India till Nov. 1956, when he resigned; took over as Election Chief of Congress Party; after elections in 1957 joined the Cabinet; Minister of Transport and Communications, April 1957-March 1958; Minister for Commerce and Industry, March 1958-April 1961. *Address:* New Delhi.

SHELAT, Mr. Justice J. M., M.A. (Lond.), Bar-at-Law, Judge, High Court, Gujarat State, since May 1, 1960. *b.* July 16, 1908; *Educ.:* Jubilee Institution, Umreth (Dist. Kaira); took B.A. (Hons.) in literature, from Elphinstone Coll., Bombay, 1928; also obtained B.A. degree from the Univ. of London and M.A. degree by writing a thesis on the "Creation of the Senate" in the Constitution of the United States; called to the Bar (Inner Temple, London), Jan. 1933; started practice in Bombay High Court, Oct. 1933; Judge, City Civil Court and Addl. Sessions Judge, Greater Bombay, 1948-54; Principal Judge and Sessions Judge, 1954-57; Addl. Judge, Bombay High Court, Jan. 6, 1957-Nov. 23, 1957; Judge, Bombay High Court, 1957-60. *Publications:* Author of *Akbar;* wrote several articles in journals and magazines; was one of the contributors to *Munshi, His Art and Work. Recreations:* Golf, Tennis. *Club:* Willingdon Sports Club. *Address:* Ahmedabad.

SHIRKE, Shridharrao Shankerrao, B.A., B.Sc. *b.* May 21, 1894; *Educ.:* Elphinstone and St. Xavier's Colleges, Bombay. Agricultural Adviser to the Raja of Sawantwadi, 1925-27; Professor, Rajaram Coll. and Registrar of Co-operative Societies, Kolhapur, 1928-42; Personal Asstt. to Prime Minister, Kolhapur, 1936-42; Commissioner and Chief Excise Officer, Kolhapur, 1942-49; nominated M.L.A., Kolhapur; took keen interest in agricultural and rural development in the State; was Pres., Farmers' Fair and Cattle Show held at Kolhapur in 1939 when Viceroy Linlithgow visited Kolhapur; was awarded Kaiser-I-Hind silver medal for public services, in fostering the Co-operative Movement in Kolhapur State, 1939; Private Secretary to late H.H. Maharani Chimnabaisaheb Gaekwar of Baroda, 1950-58. *Address:* 883, Poona 4.

SHIRWADKAR, V. V. *alias* **Kusumagraja,** B.A. (Bom.), Marathi Author and Editor. *b.* Feb. 27, 1912; *Educ.:* Nasik; B.A. from Bombay, 1934. Worked on the editorial staff of several Marathi journals in Bombay and Poona. *Publications:* Published the first book of poetry, 1933; and collection of poems 'VISHAKHA', 1944; several books of poetry, drama and fiction, noteworthy among them being *Kinara* (poetry), *Samidha* (poetry), *Janhavi* (novel), *Vaishnav* (novel), *Satariche bol* (stories), *Dusara Peshawa, Kounteya, Doorache Dive* (all plays), *Vaijayanti* (Adaptation); has translated Kalidas's *Meghadoot* and Shakespeare's *Macbeth*; edits school text books. *Address:* Shivaji Road, Nasik.

SHIVESHWARKAR, Sadanand Waman, B.Sc. (Bom.), M.A. (Cantab.), M.B.E. (1945), I.C.S., Chief Settlement Commissioner and Custodian General of Evacuee Properties in India; Jt. Secretary, Ministry of Rehabilitation, Govt. of India, since Jan. 1960. *b.* March 1, 1912; *Educ.:* Sawantwadi High School, Sawantwadi; Fergusson Coll., Poona; Sydney Sussex Coll., Cambridge; awarded Pragji Moolji Thackersey scholarship for B.Sc., 1932; Mathematical Tripos at Cambridge Univ. and declared star wrangler, 1932-34; awarded Rayleigh Prize and Sheepshanks Exhibition, Cambridge Univ.; elected Fellow, Royal Astronomical Society of London. Entered I.C.S., 1935; held several posts in the State and Central Governments as Under Secy., Dy. Secy., Textile Commissioner, etc., 1935-47; Administrator, Junagadh State, 1947-49; Chief Secy., Hyderabad Govt., till 1951; Commissioner, Lucknow Dn., 1951-60. *Publications: Stellar Dynamic and Galactic Rotation* (1943). *Clubs:* Mahomed Bagh Club, Lucknow; Boathouse Club, Nainital; Lucknow Golf Club; Delhi Golf Club. *Address:* Ministry of Rehabilitation, New Delhi.

SHRIKANT, L. M., Commissioner for Scheduled Castes and Scheduled Tribes, Govt. of India, since 1950. *b.* June 1897 in Bombay; *Educ.:* Matriculation, 1914; St. Xavier's Coll., Bombay; B.A. from Elphinstone Coll., Bombay, 1918; Law and M.A. course in Sociology upto 1919. Treasurer, Girgaum Congress Cttee., Bombay, 1920-21; joined the Bhil Seva Mandal started by Thakkar Bapa in Panch Mahals, 1923; Pres., Dist. Congress Cttee., 1929; organised Satyagrah in 1930 Swaraj Movement; was member, A.I.C.C. and Exec. Cttee., Gujarat P.C.C. for about 10 years; elected unopposed M.L.A., Bombay, 1937-50; organised many conferences for Scheduled Tribes; was one of the Directors of the Provincial Co-operative Bank, Bombay State; was member, Backward Classes Board, Bombay State; was Secy., Western India Aboriginal Conference; appointed Secy., Bharatiya Adimjati Sevak Sangh, 1949; toured various parts of the country studying problems of Scheduled Tribes from time to time; courted jail several times in freedom movement. *Present Address:* 18, Akbar Road, New Delhi. *Permanent Address:* Shree Bhavan, 289, Sandhurst Road, Bombay 4.

SHRIMALI, Dr. Kalu Lal, M.A. (Philosophy and Psychology), Ph.D., Minister of Education, Govt. of India, since April 10, 1958. *b.* Dec. 30, 1909; *Educ.:* Banaras Hindu Univ.; Calcutta Univ.; Columbia Univ., New York. Headmaster, Vidya Bhawan, 1931-42; Principal, Vidya Bhawan Teachers' Coll. from 1942 to 1954; member, Secondary Education Commission, Govt. of India, 1953; Convener, Rural Higher Education Cttee., 1954; Parliamentary Secy. to the Minister for Education, Govt. of India; Dy. Minister for Education, Govt. of India, May 1955-April 1957 and Min. of State in the Ministry of Education and Scientific Research, Govt. of India from April 18, 1957 to April 9, 1958. *Publications: The Wardha Scheme; Adventures in Education; Buchon Ki Kuch Samasyayen* (Hindi); *Shiksha Aur Bhartiya Loktantra* (Hindi). *Address:* 20, Ashoka Road, New Delhi.

SHRINAGESH, Jayavant Mallannah, C.I.E. (1946), I.C.S., Chairman, Hindustan Steel Ltd., since 1960. *b.* 1905; *Educ.:* W. Buckland School, Devon; Trinity Coll., Cambridge. Entered I.C.S., 1928; Jt. Secy., Ministry of Industry and Supply, Govt. of India, 1945; Commissioner of Jullundur, 1947; Adviser to Nepal Govt., 1950; Managing Dir.: Indian Refineries Ltd., 1958-60; Fellow, Institute of General Managers, London; Vice-Pres., All-India Management Assoc.; Member, American Management Assoc. *Address:* 16, Lodi Estate Road, New Delhi; P.O. Hinoo, Ranchi.

SHRINAGESH, General Satyavant Mallannah, Governor of Assam, since Oct. 1959. *b.* May 11, 1903; *Educ.:* Public School in England; Cambridge Univ. and Sandhurst. Was commissioned in 1923; commanded the 6th Kumaon Regt. and fought in Waziristan, Assam and Burma with the Lushai Brigade, Dec. 1942; officiated as Brigade Commander, 64 Indian Infantry Brigade of the 19th Indian (Dagger) Division in Burma, Aug. 1945; elected to go to Germany as Dy. Chief of the Indian Military Mission, Nov. 1945; worked as Economic Adviser and Counsel, Commandant, Kumaon Regimental Centre, 1946; commanded 268 Indian Infantry Brigade, Japan, Jan. 1947; was promoted Major-General and appointed G.O.C., Madras Area, Sept. 1947; became Adjutant-General, A.H.Q., India, 1948, took over the over-all command of Indian Forces in Jammu and Kashmir, Sept. 1948; G.O.C.-in-C., Western Command, 1949-53; G.O.C.-in-C., Southern Command, 1953-55; awarded the Legion of Merit (Degree of Commander) at Washington, Sept. 2, 1955; Chief of the Army Staff, Indian Army, 1955-57. Principal, Administrative Staff Coll. of India, Hyderabad, 1957-59. *Address:* Shillong.

SHRIVASTAV, Dr. Jag Bhushan, M.D. (Bom.), D.B. (London); Director, Central Research Institute, Kasauli and Editor, Indian Journal of Medical Research. *b.* April 12, 1918; *Educ.:* Coll. of Science, Nagpur; G. S. Medical Coll. & K.E.M. Hospital, Bombay; School of Tropical Medicine & Hygiene, London; Gonville & Caius Coll., Cambridge. Research Fellow, I.C.M.R., 1946-48; Govt. of India Research Fellow in England, 1948-51; member: Advisory Cttee. on Cholera, Pathology and Bacteriology, I.C.M.R.; Indian Pharmacopoeia Cttee., Govt. of India, since 1958; Drugs Technical Advisory Board, Govt. of India, since 1958; Council of Indian Assoc. of Pathologists, since 1957; Animal Diseases & Pests Cttee., I.C.A.R.; W.H.O. Expert Advisory Panel on Biological Standardization; Srinivasan Gold Medal of Ophthalmological Society of India for research on trachoma (Feb. 1958). *Publications:* A large number of research publications on Pathology, Bacteriology, Parasitology, and Virus Diseases in English, American & Indian Medical Journals. *Address:* Director, Central Research Institute, Kasauli, Punjab.

SHROFF, Ardeshir Darabshaw, B.A. (Hons.) (Bom.), B.Sc. (Econ.), London, Ex-Director, Tata Sons Ltd. *b.* June 4, 1899; Prof. of Advance Banking at Sydenham Coll., Bombay; Vice-Pres., Bombay Shareholders' Assoc., 1936-37; Member, Cttee. of Indian Merchants' Chamber, 1930-36; Vice-Pres., Indian Merchants' Chamber, 1936; Trustee of the Port of Bombay, 1933-37; Chairman, Tata Textile Group and New India Assurance Company; member, Profit Sharing Cttee.; an expert witness before the Select Cttee. of Central Legislative Assembly on the Reserve Bank Bill, 1934; Director-in-Charge, Investment Corporation of India Ltd.; The National Ekco Radio & Engineering Co., Ltd.; Non-official Indian Delegate to the World Monetary Conference at Bretton Woods, U.S.A., 1944; Chairman, Railway Stores Enquiry Cttee. (1950-51); Expert Cttee. on Forward Contracts (Regulation) Bill 1950; Sponsor, Forum of Free Enterprise. *Publication:* One of the authors of the Bombay 15-Year Plan. *Address:* "Eddie House," Pedder Road, Bombay.

SHROFF, Kaikhushru Ruttonji P., President, Stock Exchange, Bombay, and Director of several Joint Stock Companies. *b.* July 27, 1878; *Educ.:* Bharda New High School and Byramjee Jeejeebhoy College of Commerce. Has written books on Mathematics; recipient of Silver Jubilee and

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Coronation Medals. *Publications. Elementary Arithmetic and Algebra for P. E. Students. Address :* Sunshine, Churchgate Reclamation, Bombay.

SHUKLA, Shambhunath, B.A., LL.B., Minister for Forests and Natural Resources, Madhya Pradesh, since Nov. 1, 1956. *b.* 1903 ; *Educ. :* Allahabad Univ. Entered politics during the Dandi March, 1932 ; was detained at Madhogarh Fort for two years ; imprisoned for participating in the 'Quit India' movement ; released, 1944 ; Food and Civil Supplies Minister and later Finance Minister, Rewa State, 1947 ; nominated as a member of Parliament by the Governor-General, 1949 ; elected M.L.A., Vindhya Pradesh, 1952 ; Founder Editor, *Bhaskar*, Hindi Weekly of Rewa, 1945 ; was Gen. Secy., V.P.C.C. ; its Pres. ; organised and managed khadi work ; opened a Khadi Bhandar at Rewa ; elected to the State Assembly in the general elections ; unanimously elected leader of the Congress Party in the State Assembly and became Chief Minister ; continued as Chief Minister till Oct. 31, 1956 ; elected to the Legislative Assembly, Madhya Pradesh, 1957. *Address :* Bhopal, Madhya Pradesh.

SIDDIQI, Abdul Qadir, B.A., LL.B., Minister for Food, Civil Supplies & Jail, Madhya Pradesh. *b.* Feb. 1, 1889, at Burhanpur, M.P. ; *Educ. :* Anjuman High School, Jabalpur ; M.A.O Coll., Aligarh ; Morris Coll., Nagpur ; B.A. in 1910 and LL.B. in 1915. Joined Bar at Burhanpur, 1915 ; gave up practice under the mandate of the Indian National Congress, 1920 ; was member, of A.I.C.C. and Khilafat Cttee. and was Vice-Pres. of the P.C.C. and Khilafat Cttee. till 1923 ; has been a member of the Congress since then, was Pres., Municipal Cttee., Burhanpur for one term and Vice-Pres. till 1952 ; elected M.L.A. and appointed Deputy Minister for Education, old M.P., 1952 ; was re-elected M.L.A. in the new M.P. *Address :* Minister for Food, Civil Supplies and Jail, Sultania Infantry, Bhopal.

SIDDIQI, Muhammad Zubayr, H.A. (Punjab), M.A., B.L. (Patna), Ph.D. (Cambridge), Sir Asutosh Professor of Islamic Culture, Calcutta University, since 1929. *b.* 1896 ; *Educ. :* Madrasa Aliya of Rampur (U.P.) ; Oriental Coll., Lahore ; Bihar National Coll., Patna ; King's Coll., Cambridge ; worked under Prof. E. G. Brown (Cambridge). Member, Senate and Syndicate, Calcutta Univ., 15 years ; elected Vice-Pres., Asiatic Society of Calcutta, six years ; Hon. member, Islamic Research Society of Bombay and Fellow of Asiatic Society of Calcutta ; elected Pres., Arabic, Persian, Urdu and Islamic Culture section, All India Oriental Conferences, Nagpur, Hyderabad and Darbhanga ; awarded certificate and robe of honour by the President of India, Aug. 1958. *Publications :* Edited the *Ferdausul-Hikmat*, the oldest Arabic Medical Compendium (Published from Berlin in 1928), *The Tarikhi-Harat of Saifi* (Imperial Library of Calcutta, 1944) and *Al-Sayrul-Hathith fi Tadwinil-Hadith* (Published from Hyderabad-Deccan) ; several papers published in various journals. *Address :* P. 6, Suhrawardy Avenue, Circus P. O., Calcutta 17.

SIDHANTA, Nirmal Kumar, M.A. (Cantab.), LL.D. (Toronto), Double First Class, English Tripos, Padma Bhushan (1959), Vice-Chancellor, Delhi University, since Sept. 1960. *b.* Oct. 31, 1894 ; *Educ. :* Calcutta and Cambridge Universities ; Griffith Scholar, Calcutta University. Lecturer, School of Oriental Studies, London Univ., 1922-23 ; Reader in English, Lucknow Univ., 1923-26 ; Prof. of English, Lucknow Univ., 1926-51 ; Dean, 1933-51 ; Wilson Philological Lecturer, Bombay Univ., 1928 ; Secy., Inter-Univ. Board, India, 1937-42 ; Chairman, 1946-48 ; member, Central Advisory Board of Education, since 1946 ; member & Secy., Indian Universities Commission, 1948-49 ; Member, Union Public Service Commission, 1951-55 ; Vice-Chancellor, Calcutta Univ., 1955-60 ; member, Univ. Grants Commission ; member, Pay Commission ; Chairman, Board of Governors, Central Institute of English, Hyderabad ; member : All India Sports Council ; Central Board of Film Censors. *Publications : The Heroic Age of India : A Comparative Study ;* articles on literature, art and education. *Recreations :* Tennis and Bridge. *Address :* Delhi University, Delhi.

SILAM, Sayaji Laxman, B.A., LL.B., Speaker, Maharashtra Legislative Assembly, since May 1960. *b.* May 18, 1896 ; *Educ. :* Wilson High School, Wilson Coll. and Govt. Law Coll., Bombay. General Secy., Bombay Pradesh Congress Cttee. (1946-49) ; Vice-Pres., B.P.C.C. (1941) ; was Chairman, Prohibition Inauguration Celebration Cttee. and member, Greater Bombay Prohibition Cttee. ; was member, Bombay City & Suburbs Post-war Development Cttee. and Chairman of its housing panel ; is connected with several educational Institutions ; courted jail in individual satyagraha and Quit India Movement ; member, Bombay Municipal Corporation, 1922-46 ; was Chairman : Standing Cttee. and Works and Markets and Gardens Cttee. of Corporation ; elected to Bombay Leg. 1946 ; Prohibition Commissioner (1937-38) ; Secy., Tilak Memorial Cttee. ; was Chief Whip, Bombay Leg. Congress Party till election as Speaker, Bombay Assembly, Nov. 1956 ; elected again as Speaker, 1957 ; is also Convener, Bombay Pradesh Bharat Sevak Samaj ; Speaker, Bombay Leg. Assembly, 1956-60. *Publications : Gitalap* (Marathi). *Address :* Parna Kuti, Winter Road, Malabar Hill, Bombay 6.

SIMON, Smt. Lourdhammal, Minister for Local Administration, Madras State. *b.* Sept. 26, 1912 ; *Educ. :* S.S.L.C. from St. Joseph's E. H. School, Nagercoil. Was Secretary, Y.W.C.A. ; Cttee. Member, Mathar Sangam and Local High School (S.L.B.H.S.) Parents' and Teachers' Assoc. ; Pres., Cttee. on the Legion of Mary, Kottar Diocese ; has been a teacher ; is interested in painting, needlework and art ; has been taking an active part in the welfare of women and children ; a leading figure in the Rotary movement ; Chairman, National Water Supply and Sanitation Cttee., constituted by the Ministry of Health, Govt. of India. *Recreations :* Billiards, Table Tennis, Badminton, Shuttle Cock. *Address :* "Thiruvarangam", Greenways Road, Adyar, Madras.

SIMOVIC, His Excellency Dr. Ladislav, D. Phil., Ambassador Extraordinary and Plenipotentiary of the Czechoslovak Socialist Republic in India, since Dec. 1959. *b.* 1915 ; *Educ. :* Graduated from the Faculty of Philosophy in Bratislava. Joined the Ministry of Foreign Affairs and was appointed Ambassador of the Czechoslovak Republic in the Bulgarian People's Republic, 1948 ; Deputy Minister for Foreign Affairs, Czechoslovak Republic, 1954-57 ; Ambassador of Czechoslovakia in Japan, 1957-59 ; took part in many international negotiations ; represented the Czechoslovak Republic at several international conferences. *Address :* 25, Aurangzeb Road, New Delhi.

SINCLAIR, John William, General Manager, Standard-Vacuum Oil Co., since 1957. *b.* Oct. 29, 1905 ; *Educ. :* London, Canada. Joined Standard Oil Co., New York, 1930 ; served Standard-Vacuum Oil Co. : in Japan, 1935-36 ; in India, 1937-45 ; in China, 1946-49 ; in Hongkong, 1950 ; in Philippines, 1951 ; in New York, 1952-54 ; in India, since 1954 ; Asstt. General Manager, 1955-57. *Recreations :* Golf, Reading. *Clubs :* Willingdon ; Delhi Golf Club ; Sheko and Fan Ling, Hongkong. *Address :* Mount Blanc, Dadysett Hill, Bombay.

SINGH, Balbir, B.A., Padma Shri (1957), leading Hockey Player ; Deputy Superintendent of Police, Punjab. *b.* Oct. 10, 1924 ; *Educ. :* Dev Samaj High School, Moga (Punjab) ; Khalsa Coll., Amritsar, Punjab Univ. Entered Class Hockey, 1942 ; captained Punjab State Eleven, 1949 ; represented India in the World Olympics at London, 1948, won gold medal ; toured Afghanistan with Indian Hockey Team, 1949 ; captained Indian Hockey Team to Afghanistan, 1950 ; played two Test Matches against Japanese Hockey team touring India, 1951 ; represented India in Olympic Games at Helsinki, 1952 ; won Gold Medal ; captained Indian Hockey team to Singapore and Malaya, 1954 ; visited New Zealand, Australia and Ceylon with Indian Wanderers Hockey Team, 1955 ; captained Indian Olympic team to Melbourne Olympic Games, 1956 ; won Gold Medal ; captained the Indian Hockey Team for the Asian Games at Tokyo, May, 1958 ; member, I.H.F. Selection Cttee. *Address :* Dy. Superintendent of Police, Patiala.

SINGH, Dr. Bawa Kartar, M.A. (Cantab.), Sc.D. (Cantab.), Sc.D. (Dublin), F.R.I.C., F.N.I. etc., Research Scientist, Council of Scientific & Industrial Research, since 1958. *b.* April 17, 1885 ; *Educ. :* Cambridge Univ. 1904-10 and 1925 ; St. Andrew's Univ., 1925-26 ; member, Indian Education Service ; retired 1941 ; Professor of Chemistry, Dacca, 1910-18 ; Lahore 1918-21, Cuttack, 1921-36 ; Patna, 1936-40 ; Allahabad 1940-46 ; Punjab Univ., Lahore, 1946-47 ; Banaras Hindu Univ., 1948-57 ; Past Pres., Indian Science Congress, Chemistry Section, 1920 ; Indian Chemical Society, 1931-32 ; Past-Vice-Pres. : Indian Academy of Sciences, 1934-38 and National Institute of Sciences, 1934-37 and 1940-46 ; Emeritus Professor of Chemistry, Allahabad Univ., 1946. *Publications :* 151 Chemical Papers. *Address :* No. 13, Street H, Sector 16-A, Chandigarh, Punjab.

SINGH, Gur Bakhsh, B.Sc., C.E. (1922), Punjabi Writer. *b.* April 26, 1895 ; *Educ. :* F. C. Coll., Lahore ; Thomason Coll., Roorkee ; Michigan Univ., Ann Arbor (U.S.A.). During the Great War, attached with Royal Engineers ; Railway Engineer, 1925-32 ; Power Farming, 1932-37 ; founded *Preet Lari*, 1933 ; founded Preet Nagar, a colony on co-operative lines, 1938 ; travelled extensively in Europe, Russia, China, U.S.A., Canada, Iraq and Persia ; Vice-Pres. : All-India Peace Council ; Kendri Punjabi Lekhak Sabha. *Publications : Shabnam ; Adjusted & Balanced Life ; Unmarried Mother ; The Strange & Alone etc. etc. Recreations :* Cricket, Badminton, Gardening. *Club :* Cosmopolitan Club. *Address :* Editor, *Preet Lari*, Preet Nagar, Dist. Amritsar.

SINGH, Gurmukh Nihal, M.Sc. (Econ.) (Lond.), Barrister-at-Law, Governor of Rajasthan, since Nov. 1, 1956. *b.* March 14, 1895 ; *Educ. :* Rawalpindi and London ; called to the bar, June 1919. Prof. of Economics and Political Science, Rama Varma Prof. of Political Science and later Dean, Faculty of Arts, Banaras Hindu Univ. ; Principal : H. L. Coll. of Commerce, Ahmedabad, 1939-43 ; Ramjas Coll., Delhi, 1943-50 ; and S. R. Coll. of Commerce, Delhi, 1950-52 ; elected Speaker, Delhi State Leg. Assembly, May 52 ; unanimously elected Leader, Congress Vidhan Sabha Party, Delhi State, Feb. 1955 ; Chief Minister, Delhi State, Feb. 13, 1955-Oct. 31, 1956 ; was member, almost all Univ. Bodies at the B.H.U. and Univ. of Delhi and also of some of the Univ. Bodies at Allahabad, Lucknow and Bombay ; organised the First Indian Political Science Conference at Banaras, 1938 ; was the first Secy. and Treasurer of the Assoc. (1939-42) ; its Pres., 1942 ; *Publications : Indian States and British India : Their Future Relations*, 1928 ; *Landmarks in Indian Constitutional and National Development ; The Changing Concept of Citizenship*, 1958 ; several other books. *Address :* Raj Bhavan, Jaipur.

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SINGH, Brig. Gyan, Padma Shri (1961), Leader of the first Indian Expedition to Mount Everest, March–June 1960. *b.* April 12, 1918, hails from village Ramgarh, Ludhiana Dist., Punjab; *Educ.:* Lucknow. Joined 8 Cavalry as a Sowar, 1936; commissioned in the Artillery Regt., July 1940; served in the Kashmir operations including the Zoji La operation; climbed extensively in connection with reconnaisance duties; held appointments as Commandant, Winter Warfare School, Asstt. Commandant, School of Artillery, Commandant of a Regt. of Artillery and Asstt. Adjutant and Quarter Master General in a division; became Principal, Himalayan Mountaineering Institute, Darjeeling 1958; attended the International Mountaineers' Meet in Chamonix and the Mountaineering Jubilee Week at Rosenlaui (Switzerland); also visited mountaineering institutions in Austria, Germany, Belgium and England; took out an advance-cum-pre-Everest Expedition course to the Kabru glacier for training; promoted Brigadier, Feb. 1960. *Address:* The Himalayan Mountaineering Institute, Darjeeling.

SINGH, Air Vice-Marshal Harjinder, M.B.E., M.I.S.E., M.Ae. S.I.M.I.E. (India), M.I. Prod. E., A.F.R.Ae. S. Air Officer Commanding in Chief, Maintenance Command, I.A.F., since 1955. *b.* Feb. 4, 1909; *Educ.:* Maclagan Engineering Coll., Lahore. Joined the I.A.F., Jan. 23, 1932; later First Commissioned Technical Officer in the I.A.F., 1942; Chief Technical Officer, Air Force Station, Kohat, 1944, Peshawar, 1945, Ambala, 1946; D.S.T.S.O. Air Hqrs., 1947-48; Officer Commanding, Base Repair Depot, Kanpur, 1948-54; holds Commercial 'B' Licence (Civil Aviation) and A.B.C.D. & X Ground Engineers Licences; awarded Air Force 'Wings' at the age of 41; has flown 1400 hours on 15 different type aeroplanes including Jet Fighters; designed and test-flew a 4-seater multi-purpose aircraft (India's first aircraft of this type), 1959. *Publications: Men behind the Wings,* early History of I.A.F. (under preparation). *Recreations:* Sports. *Clubs:* Kanpur Club, Northern India Flying Club, Jullundur, Hind Provincial Flying Club, Kanpur (Pres., since 1950). *Address:* Air Command House, Kanpur.

SINGH, Harbans, C.E. (Hons.), General Manager, North Eastern Railway, since 1960. *b.* Aug. 8, 1908; *Educ.:* Govt. Coll., Lahore; C.E. (Hons.) from Thomason Coll. of Civil Engineering, Roorkee, 1930. Traffic Officer on the old North Western Rly., 1931; In Charge, Transportation arrangements during 1947 to supervise mass migration of population following partition; served in various administrative posts including Divisional Supdt., Central and Northern Rlys.; Dy. Chief Operating Supdt., Goods and Coaching, Central and Northern Rlys.; Dy. Chief Commercial Supdt., Claims, Rates, etc., Northern Rly., 1949-55; Chief Operating Supdt., North Eastern Rly., 1955-58; Represented India at the Fifth Session of the Inland Transport Cttee. of the E.C.A.F.E. at Bangkok, 1956; Sr. Dy. General Manager, Northern Rly., 1958; is a keen scouter and sportsman. *Recreations:* Hockey, Tennis, Badminton, Golf. *Clubs:* Chelmsford Club, New Delhi, National Sports Club of India, New Delhi and Gorakhpur Club Ltd., Gorakhpur. *Address:* Gorakhpur.

SINGH, Sardar Hukam, LL.B., Dy. Speaker, Lok Sabha since 23rd March, 1956. *b.* Aug. 30, 1895, at Montgomery; *Educ.:* Khalsa Coll., Amritsar; Law Coll., Lahore; was a prominent member of the Shiromani Akali Dal; entered politics and actively participated in the Gurudwara Prabandhak Reform movement; arrested and imprisoned, 1924-26; worked for the prosperity of the Panthic organisation as member of Shiromani Gurudwara Prabandhak Cttee., 1926-41; Pres., Dist. Bar Assoc., 1943 and 1944; President, Shiromani Akali Dal, 1950; Judge, Kapurthala High Court, 1947; takes keen interest in work in Parliament, made valuable contribution on various subjects; Ex-member: Estimates Cttee. of the Parliament; Rehabilitation Advisory Cttee.; was elected to the Indian Constituent Assembly, 1948; made the best use of this opportunity in the cause of his community; a member of the Congress; Founder, *Spokesman,* an English Weekly. *Publications: Sikh Case; The Problem of the Sikhs. Recreation:* Walking. *Address:* 21, Asoka Road, New Delhi.

SINGH, Jagat, B.Sc. (Hons.), LL.B., Commissioner for India, Aden, since Dec. 1957. *b.* March 14, 1906; *Educ.:* B.Sc. (Hons.), Govt. Coll., Lahore, 1926; LL.B., Law Coll., Lahore 1928. Joined the Provincial Civil Service, erstwhile N. W. F. Province, 1932; was Addl. Dist. Magistrate and senior Sub-Judge there; after partition, worked as Registrar for Refugee Claims for 3 months; Asstt. Secy., Ministry of External Affairs and Commonwealth Relations, Nov. 1947; Posted as First Secretary (Consular), Indian Embassy, Djakarta (Indonesia), Sept. 1950; transferred to Medan (Samatra) as Consul for India, Dec. 1950; Political Adviser and Deputy Secy. General with the International Commission for Supervision & Control for Viet Nam, at Hanoi, 1954-56; Deputy Secy., Ministry of External Affairs for some time. *Address:* C/o External Affairs Ministry, New Delhi.

SINGH, Jaipal, M.P. & Pres., All-India Adibasi Mahasabha. *b.* Jan. 3, 1903; *Educ.:* St. Paul's School, Ranchi; Grammar School, Darlington, St. Augustine's College, Canterbury, and St. John's College, Oxford. Full Blue at Oxford for Hockey; captained the Indian Olympic Team at the Olympiad in 1928; first Covenanted Indian Mercantile Assistant in the Royal Dutch-Shell Group, 1928-32; Commercial Master, Achimota College, Gold Coast, 1933-36; Headmaster and Officiating Vice-Principal, Rajkumar College, Raipur, 1936-37; Colonisation Minister and Revenue Commissioner, Bikaner State, 1937-39; Civilian Adviser, Services Selection Board, 1943-46; Pres., Delhi Flying Club; and Delhi Fishing Club; Editor, *Adibasi Sakam,* 1941-42; President, Jharkhand Party; member, Press Commission, 1952-53; Vice-Pres., Delhi and Dist. Cricket Assoc., 1953; member, Estimates Cttee. of Parliament, 1952-54; Pres., Delhi Football Assoc.; member, Public Accounts Cttee. *Publications:* Articles on Games and Social Anthropology. *Address:* Ranchi, Chhota Nagpur.

SINGH, Brigadier Kanwar Bag, Graduate (Indian Military Academy), M.B.E. (June 1946), Coal Mines Welfare Commissioner, Govt. of India. *b.* Jan. 27, 1912; *Educ.:* Noble's High School, Bikaner; Dungar Coll., Bikaner. graduated from Indian Military Academy (1935); topped the list in Sandhurst Wing, Appointed Chief of Staff, Bikaner State Army with rank of Lt. Col. (1940); visited Iraq, Iran theatres of war (1942); appointed Chief of Staff, Rajasthan State Forces with rank of Brigadier (1949); Hon. A.D.C. to the President of India, 1950; served in Jammu and Kashmir, 1951-55, commanding operational garrison and later a brigade: retired from Indian Army, Jan. 27, 1957. *Recreations:* Tennis; Football; awarded blues in Indian Military Academy; Open singles and doubles tennis champion, Bikaner, Jodhpur and Quetta Clubs. *Clubs:* Bikaner Sadul Club, Jodhpur Sardar Club, Jaipur Asoke Club, Dhanbad Club. *Address:* Coal Mines Welfare Commissioner, Dhanbad.

SINGH, Lt.-Gen. K. Bahadur, P.Sc., I.D.C., N.D.C. Commandant, National Defence Coll., New Delhi, since Oct. 1959. *b.* Aug. 5, 1910 at Palaitha, Kotah; *Educ.:* Prince of Wales' Royal Indian Military Coll.; commissioned from Royal Military Coll., Sandhurst, Jan. 29, 1931; graduated from Staff Coll., Camberley; attended a course at the Imperial Defence Coll., London; served in the 4th battalion and the Training Centre of the Kumaon Regt. before the war, holding all the normal regimental appointments; proceeded to the Far East with the 4th Kumaon, 1939; was in Singapore disaster; held a number of Staff appointments, including Deputy Secretary (Military) to the Cabinet, and Brigadier General Staff of a Command; commanded a brigade, and Fourth and Fifth Infantry Divisions. Adjutant General, A.H.Q. Sept. 1956–Sept. 1959. *Recreations:* Shikar, Photography. *Address:* 1, Hastings Road, New Delhi.

SINGH, Sardar Kapoor, B.A., LL.B., Chairman, Punjab (I) Legislative Council, since April 30, 1952. *b.* 1898; *Educ.:* Khalsa College, Amritsar. Practised Law, 1923-34 and 1938-40; suspended practice on account of disciplinary action by High Court for conviction during C. D. Movement; Sessions Judge, Chief Revenue Secretary and Dewan, Ajai Garh State, 1935-37; deputed by the State to the Princes & Prime Ministers' Conference in Bombay, Jhansi and Nowgong, to consider the Federal Part of the Govt. of India Act of 1935; resigned State service as he joined the Congress party in the Punjab Assembly; member, Dist. Board, Ludhiana, 1925-40; Vice-Pres. of the Board for 5 years; member, Municipal Cttee., Ludhiana, 1927-37 and Vice-Pres. for a term; M.L.A., Punjab, 1937-52; Secy., Congress Assembly Party, 1942-45; Chief Whip, Congress Assembly Party, 1946-47; Dy. Speaker, Punjab Leg. Assembly, 1946-47; Speaker, Punjab (I) Leg. Assembly, 1947-51. *Address:* Chandigarh.

SINGH, Karnail, M.I.C.E., M.I.E. (India), M. Am. S.C.E., Chairman, Railway Board, since April 1960. *b.* July 25, 1904; *Educ.:* Khalsa Coll., Amritsar; Thomason Coll. of Civil Engineering, Roorkee. Entered Indian Railways Service of Engineers on the old North Western Railway, 1927 and was mainly employed on railway constructions, surveys, special works for water supply, earthquake re-construction, projects and designs; Deputy General Manager on post-war reconstruction after partition; Engineer-in-Chief on Assam Rail Link Project; General Manager, Northern Railway, 1952; General Manager, Chittaranjan Locomotive Works, 1954—Jan. 1957. Member Engineering, Railway Board, Jan. 1957—April, 1960. *Publications: A Complete Story of Assam Rail Link Project; Waterways for Bridges,* etc. *Recreations:* Golf low handicap; Hockey. *Clubs:* Delhi Gymklana, Calcutta Club, Royal Calcutta Golf Club, etc., etc. *Address:* New Delhi.

SINGH, H. E. Mr. Kewal, B.A. (Hons.), LL.B., I.C.S., Padma Shri (1955), Indian Ambassador to Sweden, Denmark and Finland. *b.* June 1, 1915; *Educ.:* Forman Christian Coll., Lahore; Law Coll., Lahore; joined I.C.S., 1938; Balliol Coll., Oxford, 1938–39. Asstt. Commissioner, Ferozepore (1940); S.D.O., Dalhousie (1940–42); Colonisation Officer, Nili Bar (1945–46); Dy. Commissioner, Shahpur (1946–47); Simla (1947–48); First Secy.: Indian Embassy, Turkey (1948–49); Indian Military Mission, Berlin (1949–51); Charge d'Affaires, Legation of India, Lisbon (1951 53); Consul-General of India, Pondicherry, 1953-54; Chief Commissioner, the State of Pondicherry, Karaikal, Mahe and Yanam, 1954-57; Ambassador to Cambodia, 1957-58. *Recreations:* Tennis, Riding. *Address:* C/o External Affairs Ministry, New Delhi.

SINGH, Kripal, M.Sc. (Banaras), Member, Railway Board and ex-officio Secy., Ministry of Railways, since Oct. 27, 1959. *b.* Jan. 22, 1907; *Educ.:* High School, Lakhaoti; Banaras Hindu Univ.; won the Rai Bahadur Mata Prasad Gold Medal for topping the list in B.A. & B.Sc. exams, 1927. Served in the old N.W. Railway as Asstt. Traffic Officer, Divl. Transportation Officer, Operating Officer in all divisions and Dy. Chief Operating Supdt., 1930-50; Div. Supdt., Ferozepur, 1950-52 and at Allahabad, 1952-54; Divl. Supdt., Asansol, 1954; Indian Railways' delegate to the Rly.

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Sub-Cttee. of the E.C.A.F.E., Japan, 1954; Chief Operating Supdt., Eastern Rly., 1955; General Manager, Eastern Rly., March 1958-Oct. 1959; scholar in Hindi & Urdu and knows Bengali, Marathi and Gurumukhi; lover of poetry, music and the fine arts; *Recreation:* Tennis. *Clubs:* Calcutta Club and Rotary Club of Calcutta. *Address:* Railway Board, North Block, Secretariat, New Delhi (*Office*); 1, Old Mill Road, New Delhi (*Residence*).

SINGH, H.E.Mr. L. R. S., I.C.S., Ambassador to Poland. *b.* March 1907, at Baikuntpur, Korea State, M.P.; *Educ.:* Raj Kumar Coll., Raipur, Allahabad Univ., and Oxford Univ. Entered the I.C.S., Dec. 1930; was allotted to Madhya Pradesh, served in various posts, namely, Asstt. Commissioner, Dy. Commissioner, Settlement Commissioner, Excise Commissioner and Secy. to the Govt. of Madhya Pradesh; deputed to Chaddapur State in central India as Settlement Officer for two years; services were lent to the Central Government, July 1948; Trade Commissioner in Karachi, Sept. 1948-Aug. 1950; Minister (Commercial), Indian High Commission, London, Oct. 1950-Aug. 1954; Consul-General for India, New York, Jan. 1955-April 1956; Indian Ambassador in Brazil, April 1956-June 1958; Chief Commissioner, Pondicherry State, 1958-60. *Address:* C/o External Affairs Ministry, New Delhi.

SINGH, Jem. Milkha, Leading sportsman. *b.* 1936. Started his career, 1954; specialised in 400 meters race; after coming first in the Indo-Pakistan meet at Delhi, 1956, was selected for the World Olympic Games at Melbourne, 1956; represented the country in III Asian Games at Tokyo and won two gold medals in 200 and 400 meters; also participated in British Empire and Commonwealth Games, Cardiff and won Gold Medal in 440 yards; is a Junior Commissioned Officer in the Army. *Address:* E.M.E. Centre, Secunderabad.

SINGH, Maj. Gen. Harkirat, B.A. (Punjab), M.A. (Cantab.), M.I.E., Engineer-in-Chief, Army Hqrs., since April 1960. *b.* April 7, 1911; *Educ.:* Govt. Coll., Lahore; Royal Military Academy, Woolwich; Christ's Coll., Cambridge. Commissioned, Feb. 2, 1933; posted to Madras Engineers, 1936; served in Waziristan, 1936-37; in M.E.S. Northern Command, 1938-42; on field service in Assam/Burma, 1943-44; graduated from Staff Coll., Quetta, 1944; Administrative Commandant, Roorkee, 1945; promoted Lt.-Col. and posted as Commander, Royal Engineers, U.P. Area, Lucknow, 1946; Grade I Staff Officer with H.Q. British Commonwealth Occupation Forces in Japan, 1947; promoted Brigadier and posted as Chief Engineer, Southern Command, Poona, Dec. 1947; Chief Engineer, Western Command, 1950-52; Commander of an Infantry Brigade, 1952-54; Commandant, Coll. of Military Engineering, 1955-56; promoted Major General and appointed Director of Electrical and Mechanical Engineering, 1957-59. *Clubs:* Delhi Gymkhana Club. *Address:* 4, Janpath, New Delhi.

SINGH, Mohan, M.A., M.O.L. (1933), Punjabi poet; Managing Director, Hind Publishers Ltd., Jullundur; Editor: *The Panj Darya*, Punjabi Monthly. *b.* Oct. 20, 1905; *Educ.:* Oriental Coll., Lahore. Started the *Panj Darya* at Lahore, 1939; in 1940 also joined Sikh National Coll., Lahore, as Head of Persian and Punjabi Department, 1940-44; floated Hind Publishers Ltd., 1946; moved to Amritsar, 1947 and then to Jullundur, 1954; member: Advisory Board for Punjabi, Sahitya Akadami; General Council, Sahitya Akademi, Delhi; Exec. Council, Sahitya Akademi, New Delhi. *Publications: Suve Pattar*, 1936; *Kasunbra*, 1939; *Adhwate*, 1943; *Asia Da Chanan*, 1944; *Kach Sach*, 1950; *Awazan*, 1954; *Niki Niki Washnan* (short story), 1942; *Wadda Wala*, 1958; won the Sahitya Akademi's National Award of Rs. 5,000, in 1960. *Recreations:* Chess; long walks. *Address:* Editor, '*The Panj Darya*', Circular Road, Jullundur.

SINGH, Dr. Nagendra, M.A., LL.M. (Cantab.), M.A., B. Litt., LL.D. (Dublin), D. Litt. (Bihar), D.Phil. (Cal.), Bar-at-Law, i.d.c. Joint Secy. to the Govt. of India since April 1957 and Director General of Shipping, Ministry of Transport & Communications, Deptt. of Transport, New Delhi, since Feb. 1956. Joined I.C.S., 1938; Deputy Secy., Ministry of Defence, 1946-57; Chief Minister of Bundi State, 1947; became member, Constituent Assembly; was a member, Minorities Cttee. of the Constituent Assembly; Regional Commissioner of Sambalpur for Eastern States Agency (Ministry of States), 1947-48; Deputy Secy., Ministry of Information & Broadcasting, 1948-50; officiated as Director-General, A.I.R. and also as Joint Secy., Ministry of Information and Broadcasting, 1949; Deputy Secy., Ministry of Defence, 1951-53; Joint Secy., Ministry of Defence, 1953-56; Special Director, Eastern Shipping Corporation Ltd., Feb. 1956; Director, Hindustan Shipyard Ltd., April 1956; Director, State Trading Corpn. of India Ltd., May 1956; Chairman: Western Shipping Corporation Ltd.; Eastern Shipping Corporation; Mogul Line Ltd.; J.P. (1957). *Publications: Termination of Membership of International Organisation; Nuclear Weapons and International Law. Address:* 30, Tughlak Crescent, New Delhi.

SINGH, Sardar Nawab, B.A., I.C.S., Secretary, Ministry of Information & Broadcasting, Govt. of India. *b.* April 7, 1907; *Educ.:* Morris Coll., Nagpur; graduated, 1927; passed I.C.S., at London, 1928. Posted to the Punjab in 1929, where he served as Asstt. Commissioner, Dy. Commissioner, Dist. & Sessions Judge (Delhi, 1939-43) and Legal Remembrancer & Legislative Secy.; Home Secy., East Punjab, Aug. 1947—July 1948; Commissioner, Ambala Division, Punjab, July 1948-May 1951; Addl. Chief Secy., Punjab, 1951-52; Chief Secretary, Punjab, 1952-56; Adviser, Planning Commission, 1956-61. *Recreations:* Tennis, Bridge and Literature. *Clubs:* Delhi Gymkhana. *Address:* New Delhi.

SINGH, Colonel Raja Surendra, Agricultural Production Adviser, Ministry of Food and Agriculture, Govt. of India, with the status of Addl. Secy., since Feb. 25, 1958, and former Ruler of Nalagarh State in the Punjab. *b.* 1920; *Educ.:* Aitchison Coll., Lahore; had administrative training with the Punjab Government and held appointments in the Police, Revenue, Judicial, Public Health and Forest Deptts. Joined the Indian Army and served with the Dogra Regt.; appointed his father's Dewan, 1946; succeeded to the *Gaddi* on his father's death, 1946; elected M.L.A. PEPSU, in both the General Elections; appointed Minister for Finance, Planning & Development; mainly responsible for bringing PEPSU's Five-Year Plan upto-date; represented India in the 8th F.A.O. Conference of the F.A.O. of the U.N. in Rome, 1955 & 10th Conference, 1959; nominated on the Food Grains Enquiry Cttee., 1957; appointed Chairman, Agri. Adm. Cttee., 1958 & Inaccessible Areas Cttee., 1959. *Address:* 10, Teen Murti Lane, New Delhi 11.

SINGH, Ram Subhag, Shastri (Banaras), M.A. (Missouri), Ph.D. in Journalism (Missouri), M.P., Secretary, Congress Parliamentary Party. *b.* July 7, 1917; *Educ.:* Dhamar Board Upper Primary School; Bhuvaneshwar Middle English School, Arrah; Arrah Town High English School; Sri Kashividyapith, Banaras; Missouri Univ., Columbia, Missouri, U.S.A. Joined the Indian National Congress, 1935 and since then a Congress worker; courted Jail in the freedom movement; elected Member of Parliament in Jan. 1950; elected to the Lok Sabha from Shahabad South Constituency, Bihar in the general elections, 1952; re-elected to Lok Sabha from Sasaram Constituency 1957. *Publications:* Articles in some America, and Indian papers. *Recreations:* Gardening Horseriding. *Address:* Khajuria, P.O. Dhamar Dt. Arrah (Bihar); New Delhi.

SINGH, Rao Birendar, B.A. (Delhi), Ex-Minister for Irrigation & Power, Transport, Consolidation of Holdings & Sports, Punjab. *b.* Jan. 11, 1921; *Educ.:* at home and then in St. Stephen's Cambridge Mission Coll., Delhi. Joined the Indian Army as a Commissioned Officer, 1942; served in Arakan and Burma in Japanese Campaign during the 1939-45 War; released from Army 1947; took to farming and politics; keenly interested in the uplift of backward classes and underdeveloped areas, running several educational institutions for boys and girls, a charitable dispensary, gansadan, etc.; elected to Punjab Leg., 1954; re-elected in 1960; appointed Dy. Minister, 1956; Public Works Minister, Punjab, 1957-58; Revenue Minister, Punjab, 1958-60; travelled widely in U.K., France, Belgium, Germany, Italy, Switzerland, Egypt, etc. *Recreations:* Shooting, riding, travelling. *Address:* Rampura, Rewari, Dt. Gurgaon.

SINGH, Sardar Swaran, B.Sc. (Hons.), M.Sc (Physics) (Lahore), LL.B., Minister for Steel, Mines and Fuel, Govt. of India, since April 1957. *b.* Aug. 19, 1907; *Educ.:* Govt. Coll., Lahore. Elected M.L.A., Punjab, 1946; Minister for Development, Food and Civil Supplies, Punjab; appointed a member, Security Council to advise Govt. on the day-to-day problems relating to law and order, March 1947; was member, Partition Cttee. to divide the assets of the Punjab; Home, General Administration, Revenue, Irrigation and Electricity Minister, Punjab, 1947; Minister of Capital Project and Electricity, Punjab, April-May, 1952; resigned Ministership in the Punjab; Minister for Works, Housing and Supply, Govt. of India, May 1952-March 1957; led the Indian delegation to the sessions of the Economic and Social Council of the U.N., at Geneva, 1954 and 1955; elected to the Lok Sabha in the General Elections, Feb.-March 1957; led a delegation to U.S.S.R., 1959. *Recreations:* Long Walks and driving. *Club:* Patron, Chelmsford Club, New Delhi. *Address:* 7, Hastings Road, New Delhi.

SINGH, Master Tara, Akali Sikh Leader; Ex-Pres., Shiromani Gurdwara. *b.* June 24, 1885, at Harial, Rawalpindi Dist.; *Educ.:* Rawalpindi; graduated from Khalsa Coll., Amritsar, 1907. Embraced Sikhism at the age of 17; founded a Sikh School at Lyallpur and became its Headmaster, 1908; fought in the Gurdwara Reform Movement for freeing the Sikh holy places from the control of the traditional priesthood; became Secy., Shiromani Gurdwara Prabandhak Cttee.; jailed thrice as a result of clash with the authorities; opposed the Nehru Report of 1928 on Indian reforms, because it did not concede 30 per cent representation for Sikhs in the Punjab Legislature; went into voluntary retirement at the foot of the Himalayas for some time; returned to politics; became Pres., Akali Dal and Gurdwara Cttee.; took active part in the C. D. Movement, 1930; arrested at Lahore while leading a jatha of 100 Sikhs to the Frontier during the Civil Disobedience campaigns of 1930 onwards; elected for the first time Pres., Shiromani Gurdwara Prabhandak Cttee. while in jail; rejected Cripps proposals on the ground that they provided a loop-hole for the partition of India; encouraged the Sikhs to join the British army during World War II to prevent Muslims gaining monopoly in the army; resigned from various positions in the Congress; organised the Panthic Akali Party in the elections to the provincial legislatures; re-elected Pres., Akali Dal, July 27,

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1954; again elected Pres., Shiromani Gurdwara Prabandhak Committee, Feb. 7, 1955; arrested on the 1st day of the Akali Dal's agitation against the ban on shouting slogans in support of a Punjabi-speaking State; his aim re-adjustment of boundaries of the Punjab with the idea of creating a Punjabi-speaking State within the Indian Republic; was taken into preventive custody in connection with Punjabi Suba agitation, May 24, 1960; released to persuade Sant Fateh Singh to break his fast unto death; undertook a fast unto death from Aug. 15, 1961, as some think, for the acceptance of the principle of a Punjabi Suba and as others think for the establishment of the Punjabi Suba. *Address:* Amritsar.

SINGH, Tarlok, B.A. (Hons.) (Bom.), B.Sc. (Econ.) (Hons.) (Lond.), I.C.S., Padma Shri (1954), Additional Secretary, Planning Commission. *b.* Feb. 26, 1913; *Educ.:* St. Vincent's School and Deccan Coll., Poona; Gujarat Coll., Ahmedabad; London School of Economics. Joined I.C.S., 1937; Colonization Officer, Niti Bar Colony, Punjab, 1943; served in Finance Dept., Govt. of India, 1944-46; Private Secy. to the Vice-President Interim Govt. and to Prime Minister, 1946-47; Director-General, Rehabilitation, 1947-49; joined Planning Commission, March 1950. *Publications: Poverty and Social Change* (Longmans, 1945); *Land Resettlement Manual, Punjab and PEPSU,* 1952; articles, etc. *Address:* New Delhi.

SINGH, Tribhuan Narayan, Member, Planning Commission, since Sept. 10, 1958. *b.* 1904 at Banaras; has had a varied educational, journalistic and political experience; was teacher of Economics, Kashi Vidyapith, Banaras; has worked with "Indian Daily Telegraph", Lucknow, "Hindustan Times", New Delhi and "National Herald", Lucknow, in various journalistic capacities; was General Manager, "National Herald" and Managing Partner, Janata Press; was member: Grow more food enquiry Cttee.; Railway freight Structure enquiry Cttee.; Press Commission; was Secretary, Textile Labour Mills Union, Delhi; suffered imprisonment for participating in the Congress movement during 1930-31, and 1932 and 1942; member, Provisional Parliament, 1950-52; Secretary, Congress Party in Parliament, 1951; elected member, Lok Sabha, from Chandauli constituency, Uttar Pradesh, 1952-57; was Chairman, Public Accounts Cttee. *Address:* Planning Commission, New Delhi.

SINGH, Triloki, Member, National Executive, P.-S.P. *b.* March 10, 1908; *Educ.:* Church Mission High School and Jubilee Coll., Lucknow. Joined Youth League and Indian National Congress, 1928; elected Chairman, District Board, Lucknow, 1939; member, U.P. Leg. Assembly, 1946 and 1957; formed Jan Congress, 1950; joined K.M.P.P., 1951; Leader of the Opposition, U.P., 1950-52 and since 1957; Gen. Secy., P.-S.P., 1954-58; M.L.A., U.P. *Address:* Ghasiari Mandi, Lucknow, U.P.

SINGHANIA, Kailashpat, Banker & Millowner. *b.* 1908; *Educ.:* privately. Resident Director, J. K. Organisation, Western Zone; joined J. K. Cotton Spg. & Wvg. Mills Co. Ltd. as Director; became later its Director-in-charge; Director: J. K. Jute Mills Co. Ltd., Kanpur; J. K. Iron & Steel Co. Ltd., Kanpur; Chairman: The Raymond Woollen Mills Ltd., Bombay; J. K. Chemicals Ltd., Bombay; J. K. Investors (Bombay) Private Ltd., Bombay; Director-in-charge and Chairman, The New Kaiser-i-Hind Spg. & Wvg. Co. Ltd., Bombay; Director: J. K. Properties Ltd., Calcutta; J. K. Ltd., Calcutta; J. K. Industries Private Ltd., Calcutta; J. K. (Agents) Private Ltd., Bhopal; Bombay Gas Co. Ltd.; Elphinstone Spg. & Wvg. Mills Co. Ltd.; Partner: Juggilal Kamlapat Bankers; J. K. Hosiery Factory; Kamla Ice Factory; Kamlapat Motilal Gutaiya Sugar Mills Co.; Member: St. John Ambulance Corps.; Ganganath Jha Research Institute; Indian Council of World Affairs; Bhatkhande School of Indian Music; Photographic Society of India; Indian Overseas Central Assoc.; All India Federation of Educational Assocs.: Faculty of Commerce, Lucknow Univ.; Mill-Owners' Assoc. Bombay; Employers' Assoc. of Northern India, Kanpur; Federation of Indian Chambers of Commerce; All India Organisation of Industrial Employers; Merchants Chamber, U.P.; Indian Merchants' Chamber, Bombay; Jaipur Chamber of Commerce; All India Marwari Sammelan & member of more than 10 Masonic Lodges, both S.C. & E.C. *Publications:* Writes occasionally on economic and industrial topics. *Hobbies:* Gardening and collection of rare art treasures, books and curios. *Recreations:* Tennis, Swimming and Bridge. *Clubs:* Kanpur Rotary Club (Founder-President); Cricket Club of India Ltd., Bombay; 8-30 Club, Bombay; Ganges Club Ltd., Kanpur; Kanpur Club, Kanpur; Roshanara Club and Chelmsford Club, New Delhi; U.P. Flying Club, Kanpur; Royal Western India Turf Club, Bombay; Royal Turf Club, Calcutta; National Sports Club of India. *Address:* J. K. House, 59, Warden Road, Bombay.

SINGHANIA, Lakshmipat, Industrialist and Business man. *b.* 1909. Embarked on business career at the early age of 20 and took over the administration of a group of industrial and financial undertakings of standing and repute; Ex-Pres.: Federation of Indian Chambers of Commerce & Industry; Indian National Cttee. of the International Chamber of Commerce; All-India Organisation of Industrial Employers; Bharat Chamber of Commerce and Merchants' Chamber of U.P., member: Bharat Chamber of Commerce; Indian Institute of Social Welfare and Business Management; Jagdis Bose National Science Talent Search; also member of Govt. bodies like the Central Advisory Council of Industries; National Productivity Council; Central Cttee. of Employment, Housing and Regional Planning Panel; one of the few Indian underwriting members of the Lloyd's Society of London; travelled extensively round the world several times; takes an active interest in public affairs, social welfare, and charitable institutions. *Clubs:* Calcutta Club, Calcutta South Club, Royal Calcutta Turf Club, Bengal Rowing Club, Rajasthan Club; etc. *Address: Office:* 7, Council House Street, Calcutta; *Residence:* J. K. House, 12, Alipore Road, Calcutta.

SINGHANIA, (Sir) Padampat, Industrialist and business man. *b.* 1905. Pres., J. K. Organisation comprising Industrial and Commercial units, having interest in Cotton Textiles, Rayon, Jute Textiles, Woollen Textiles, Nylon, Steel and Engineering, Aluminium, Mining, Paper, Straw Board, Plastic, Oil and Soap, Sugar, Chemicals, Manganese, Office equipment & typewriters, Banking, Insurance and in philanthropic and charitable institutions; founded Merchants' Chamber, U.P., 1932; Past Pres.: Federation of Indian Chambers of Commerce and Industry (1935); Oil Technologists Assoc. of India (1957-58); Vice-Pres.: Seva Samiti, Allahabad, U.P. Cricket Assoc.; was for some time member of the U.P. Legislature; is one of the signatories of the Indian Constitution, having been a member of the Constituent Assembly; was member of several Textile Enquiry Cttees., Govt. of India, 1958; member: Adv. Council, Industries (A) Deptt., Rajasthan; The U.P. State Council for Child Welfare; First General Council of the U.P. Assoc. for the Blind; Development Council for Scheduled Industries; Ganesh Shankar Vidyarthi Memorial Medical Coll., Hospital Board of Management; Hindustani Prachar Sabha, Delhi; Indian Council of World Affairs (Kanpur Branch); Indian Institute of International Affairs (New Delhi & Kanpur); Indian Standards Institution, Delhi; Heavy Industries Advisory Cttee., U.P. Govt.; Pres., Marwari Charitable Society, Kanpur; Industrial Finance Corpn. of India (Textiles & Chemicals); Industries Advisory Council, Rajasthan; Modi Stadium Trust; The Indian Roads & Transport Development Assoc., Ltd.; Director: British India Corpn. Ltd., National Industrial Dev. Corpn. Ltd., U.P. State Industrial Corpn., Ltd.; a philanthropist and promoter of rural education; helped in establishing J. K. Institute of Applied Physics, Allahabad and J.K. Institute of Sociology and Human Relations, Lucknow; J. K. Institute of Radiology and Cancer Research, Kanpur; Lala Kamlapat Memorial Hospital, Kanpur; Chairman, Hindustan Commercial Bank Ltd., a premier Banking Institution in Uttar Pradesh. *Publications:* Writes occasionally on economic and industrial topics. *Clubs:* Lions Club, Kanpur; Rotary Club, Kanpur. *Address: Office:* Kamla Tower, Kanpur; *Residence:* Ganga Kutir, Kanpur.

SINGHJI, Yuvaraj Karan

(*See Jammu & Kashmir under Who's Who*)

SINHA, Mr. Justice Bhuvaneshwar Prasad, B.A. (Hons.), M.A., B.L., Chief Justice, Supreme Court, since Oct. 1, 1959. *b.* February 1, 1899; *Educ.:* Arrah Zila School, Patna College and Patna Law College; topped the list of successful candidates at the B.A. (Hons.) and M.A. Exams. of the Patna Univ. in 1919 and 1921 respectively. Shrimati Radhika Sinha Gold Medallist for standing first in History. Vakil, Patna High Court, 1922-27; Advocate, 1927-35; Lecturer, Govt. Law Coll., Patna, 1926-35; was member, Senate, of the Faculty of Law and of the Board of Examiners in Law, Patna Univ.; member, Court of the Benares Hindu Univ.; Govt. Pleader, 1935-39; Assistant Govt. Advocate, 1940-42; Judge, Patna High Court, 1943-51; Chief Justice, Nagpur High Court, 1951-54; Judge, Supreme Court, Dec. 1954-Sept. 30, 1959. *Recreation:* Hiking. *Address:* Supreme Court, New Delhi.

SINHA, Mr. Justice Deep Narayan, B.A., Barrister-at-Law (Lincoln's Inn), Judge, Calcutta High Court. *b.* Jan. 14, 1908; *Educ.:* Hastings House; Santiniketan; Presidency Coll.; T. N. J. Coll., Bhagalpur; Lincoln's Inn, London. Practised as Barrister on the Original Side, Calcutta High Court. *Recreations:* Painting, Photography, Shooting. *Club:* Calcutta Club, Calcutta. *Address:* 6, Queen's Park, Ballygunj, Calcutta.

SINHA, Gajendra Prasad, B.A., B.L., Parliamentary Secretary to the Minister of Steel, Mines & Fuel, since April 1958; *b.* March 16, 1919; *Educ.:* Miller H. E. School, Patna Coll. and Law Coll., Patna. As a student suffered imprisonment in connection with Quit India movement of 1942; joined the Bar, 1946; Vice-Chairman, Dist. Board (Palamau Dist., Bihar), 1948-53; member: Bihar Pradesh Congress Cttee., since 1949; Lok Sabha, 1952-57; Indian Parliamentary Delegation to

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People's Republic of China, Burma and Thailand, 1956-57; re-elected to the Lok Sabha from Palamau, Bihar, 1957. *Recreations:* Reading & Travelling. *Address:* 10, Windsor Place, New Delhi.

SINHA, Ganga Sharan, M.P., Treasurer, Praja-Socialist Party. *b.* 1905. Joined non-co-operation movement, 1921; since then has been working in political field; was in the Indian National Congress till the beginning of 1948; had been member, A.I.C.C. and working Cttee., Bihar P.C.C.: Vice-Pres., Sharirik Shikshan Mandal; left Congress, 1948; member, Bihar Socialist Party, Congress Socialist Party, Socialist Party and Praja Socialist Party; had been member, Working Cttee. and Standing Cttee., All-India and Bihar Sahitya Sammelans; Vice-Pres., and Managing Trustee, Balika Vidyapeeth; Secy., Bihar Congress Socialist Party and Bihar Socialist Party; Chairman, Central Parliamentary Board of Praja Socialist Party; Leader, Praja Socialist Party in Rajya Sabha. *Address:* Kharagpur P.O., Bihta, Dt. Patna.

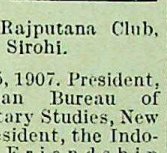
SINHA, H. E. Rajkumar Raghunath, of Sitamau, M.A. (Cantab.), Bar-at-Law, I.F.S., Ambassador of India to Cambodia. *b.* Dec. 6, 1912; *Educ.:* St. John's Coll., Agra; Magdalene Coll., Cambridge; Lincoln's Inn, London; Research Scholar, Cambridge Univ. Dewan and Pres., Council of Administration, Sitamau State; Minister, Alwar State; joined the Indian Foreign Service, 1948; was posted as First Secy., Indian High Commission, London and then in the Indian Embassy, Addis Ababa, Ethiopia; Indian Govt. Trade Commissioner in Karachi, 1952; Consul-General of India in Egypt; Consul-General of India for the Western States of the United States, San Francisco. *Recreations:* Tennis; Big Game shooting. *Clubs:* Delhi Gymkhana, Delhi; Cercle Sportif, Phnom Penh. *Address:* Embassy of India, 143, Deckcho Damdin, Phnom Penh, Cambodia; Saras Niwas, Sitamau (Madhya Pradesh).

SINHA, Satya Narain, Minister for Parliamentary Affairs, Govt. of India, since May 13, 1952. *b.* 1900, at Darbhanga (Bihar); *Educ.:* Patna. Participated in the Non-Co-operation movement and was imprisoned, 1920; member: Bihar Legislature, 1926-30; Indian Constituent Assembly; was Chief Whip, Congress Party in the Central Assembly and Constituent Assembly; Minister of State for Parliamentary Affairs, Govt. of India, 1949-52; returned to the Lok Sabha from Samastipur East Constituency, Bihar in the general elections. *Address:* 19, Akbar Road, New Delhi.

SINHA, Smt. Tarakeshwari, M.A., Deputy Minister for Finance, Government of India, since April 1958. *b.* Dec. 2, 1926; *Educ.:* Arya Kanya Mahavidyalay, Baroda; Calcutta Univ.; Bankipur Girls' Coll.; Patna Women's Coll. and Patna Univ. Vice-President, Bihar Provincial Students' Congress, 1945–47; member: Patna Dist. Gandhi National Memorial Fund Collection Cttee.; Bihar P.C.C. Women's Section; Patna Dist. Sharirik Shikshan Sammelan (Health Education Conference); Patna Dist. Board; Saran Dist. Congress Cttee.; Working Cttee., Provisional Health Education Conference; Pres., Patna Dist. Board Employees' Assoc.; elected to the Lok Sabha, Jan. 1952 and again in March 1957; served as member, Public Accounts Cttee. and various other Parliamentary Cttees.; member, Indian delegation to U.N., 1957. Leader, Indian Delegation to the Colombo Plan Consultative Cttee. meeting, Tokyo, 1960. *Recreations:* Cinema, Music and Reading. *Address:* 184, R. Block, Patna 1; 4, Jantar Mantar Road, New Delhi.

SINHA, Mr. Justice Ujjal Narain, B.A., Barrister-at-Law, Judge, High Court, Patna, since 1957. *b.* Sept. 29, 1910; *Educ.:* C. M. S. High School, Bhagalpur; St. Paul's Coll., Calcutta; Lincoln's Inn, London. Enrolled in Patna High Court, 1938; practised mostly on the Civil side. *Recreation:* Painting. *Club:* Bankipore Club, Patna. *Address:* Buddha Marg, Patna-1.

SIROHI, His Highness, Maharajahdhiraj Maharao Shri Abhaisinghji Sahib Bahadur, Ruler of the former State of. Head of the Deora clan of Chouhan Rajputs. *b.* Sept. 27, 1915. Succeeded His Highness Maharajahdhiraj Maharao Shri Sir Sarup Ram Singhji Sahib Bahadur, G.C.I.E., K.C.S.I. Recognised by the President of the Republic of India on the 7th of Oct. 1950. Heir Apparent, Maharaj Kumar Shri Raghubirsinghji Sahib Bahadur, *b.* Jan. 27, 1943. Entitled to a permanent salute of 15 guns; Patron, Sarup Club, Sirohi; Pres., Rajputana Club, Abu. *Address:* The Palace, Sirohi.



SOHAN LAL, Lala, *b.* Sept. 15, 1907. President, The Indian Bureau of Parliamentary Studies, New Delhi; President, the Indo-U. A. R. Friendship Society, New Delhi; Member, Legislative Assembly (Punjab), 1938-46; member, City of Lahore Corporation, 1933-37; Chairman, Eastern Woollen Mills Ltd., Bombay. *Address:* 16, Golf Link Road, New Delhi 3.

SOMAN, Rear-Admiral Bhaskar Sadashiv, Flag Officer Commanding, Indian Fleet, since April 16, 1960. *b.* March 30, 1913; *Educ.:* Tilak Vidyalaya run by the Indian National Congress; Chintamanrao High School, Shahapur, Sangli State; Sardar High School, Belgaum; I.M.M.T.S. "Dufferin". After completing Dufferin Training, was selected for the R.I.M. Training in U.K. for two and a half years and returned to India as Sub-Lieutenant, Sept. 4, 1934; promoted Lieut., 1937 and Lieut. Commander, 1945; Acting Commander, 1946; acting Captain, 1947; made Substantive Rear-Admiral, June 12, 1958. *Address:* Fleet Mail Office, Bombay 1.

SOMANI, Gajadhar, M.P., Industrialist and Millowner. *b.* April 1908; *Educ.:* Shree Vishudhanand Vidyalaya, Calcutta. Re-elected Member of Parliament as a Congress candidate in the General Elections, 1957. Ex-Chairman, Bombay Millowners' Assoc.; was Pres., All-India Organisation of Industrial Employers, New Delhi for two years; ex-Pres., Rajasthan Chamber of Commerce & Industry, Jaipur; is on the Executive Cttee., Federation of Indian Chambers of Commerce & Industry, New Delhi; Director on the Board of various companies; is connected with several religious, social and educational institutions; is a member of three Consultative Cttees. of Parliament, *i.e.* of the Ministries of Finance, Commerce & Industry, and Labour & Employment; appointed Chairman, Investigation Cttee. set up from time to time by the Ministry of Commerce & Industry to investigate into the affairs of various textile mills; member, Central Advisory Board for Salt; was Chairman, Textile Inquiry Cttee. set up by the Govt. of Rajasthan; was a member, Textile Industry Working Group of the N.I.D.C. *Address:* Shreeniwas House, Waudby Road, Fort, Bombay 1.

SOMASUNDARAM (Somu), M. P., Vidwan (Madras Univ.), Tamil poet and short story writer; Producer, Spoken word, A.I.R., Madras. *b.* June 17, 1921; *Educ.:* M. D. T. Hindu Coll., Tirunelveli; became Vidwan of the Madras Univ. with Tamil language and literature as special subjects. Is popularly known by his pen name 'Somu'; Editor, *Kalki* one of the foremost weeklies in Tamil, 1954-56; awarded the Bharati Gold Medal, 1948, the first prize in the All-India Tamil Short story competition, 1940, the Madras Govt.'s Poetry Prize, 1948; The Madras Govt's. Short Story Prize in 1961; Deputed from the Information & Broadcasting Ministry to the B.B.C., 1960; is a close associate of Rajaji; has studied the philosophy of Sidhas. *Publications:* Seven volumes of short stories, two volumes of poems, two books of essays and four novels. *Address:* C/o AIR, Madras 4.

SORCAR, Pratul Chandra, Magician. *b.* Feb. 23, 1913, at Tangail, Eastern Pakistan. *Educ.:* Calcutta Univ. upto B.A. with Maths. (Hons.); F.R.A.S. (Lond.). Represents in his person the seventh generation of a family of magicians; took to magic before he was conscious of it; celebrated his Silver Jubilee as exponent of natural magic and prestidigitation, 1951; has by his stage performances and writings brought to the public the cultural and international appeal of the art of Indian magic; holder of the "Sphinx" Gold Award (the 'Nobel Prize' of Magic) from New York for the world's best stage magic and is the only magician in the world today to have received this coveted award twice; hailed as "World's Greatest Magician" in Germany and awarded Royal Medallion and the Golden Laurel; Hon. Member of the very exclusive Magicians' Club, Tokyo (Japan), being the first non-Japanese, Asian or European, to receive this honour; Leicester Magic Circle (England); Cercle de Prestidigitation (Belgium); *Magischer Zirkel von Deutschland* (Germany); Hon. Member of degree 'Maitre Magicien,' in AFAP (Association Francaise du Artistes de Prestidigitation, Paris); Pres., All-India Magic Circle, Calcutta; the Calcutta Branch of the International Brotherhood of Magicians, U.S.A. the "P.C. Sorcar Ring" is named after him; cycled on Place de l'Opera, Paris, blindfolded and hooded, 1950 and in Calcutta, 1936; also in the Times Square of New York City in June 1957; his demonstration of such powers televised by London B.B.C., New York N.B.C. and Chicago W.G.N., 1950; performed at World Magic Convention (Chicago), May 1950; has had long shows in Paris, 1955 and in London, 1956; some of his shows in London—at theatre and on TV—were so realistic that they are said to have created much panic among the viewers; his performances in England have always had a good press; became 'Judge' at the World Magic Congress, Boston, U.S.A., in July 1960. *Publications:* 16 works on magic and allied subjects in English, Hindi and Bengali; regular contributor to French, German, Dutch, Belgian, Spanish, English, and American magic journals; only magician in India to be invited regularly to speak on magic over Radio Network. *Recreation:* Magic. *Address:* "Indrajal," 276/1, Rash Bihari Avenue, Calcutta 19.

SREENIVASAN, M. A., Retired Prime Minister, Gwalior State, and Retired Minister, Mysore State. *b.* Sept. 20, 1897; *Educ.:* Hindu High School, Madras and Central Coll., Bangalore. Entered the Mysore Civil Service, 1917. Served in practically all departments of Government including Revenue, Judicial, Finance and Audit, Army, Industries, Local Administration and the Secretariat; Financial Adviser, Hydro-Electricity Department, 1925-28; deputed to Europe and America in connection with the Mysore State business in London and New York, 1928-30; was later deputed to report on

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the economic and social conditions of labour in the Kolar Gold Field, 1931; special duties in the Industries Dept. to rehabilitate and manage the Sri Krishnarajendra (Textile) Mills, Mysore, 1931-34; Deputy Commissioner and President, City Municipal Council, and Chairman, City Improvement Trust Board, 1935-39; Govt. Director, Industrial Concerns, 1939-40; services lent to the Govt. of India during the war as Controller of Supplies, South India, May 1940; Minister for Food, Industries, Civil Supplies, Forests, and Mining, Mysore, 1943-45; Chairman, Mysore Iron and Steel Works, Board of Industrial Research, 1945-46; Minister for Agriculture, Local Self-Government, Army, etc., 1947-48; Vice-President, Executive Council, Gwalior State and Member, Constituent Assembly, Council of Ministers, States Negotiating Committee, Union Constitution Committee; Director, Buckingham & Carnatic Co., Consolidated Coffee Estates (1943) Ltd., Coffee Lands & Industries (Mysore) Ltd., The Indian Cable Co., Ltd., The Indian Oxygen Ltd., etc. *Address:* High Ground, Bangalore.

SREENIVASULU, K., Diploma in Fine Arts (First Class), Painter; Director of Arts, Besant Theosophical School, Adyar, Madras. *b.* Jan. 6, 1923; *Educ.:* Graduated from school of Arts, Madras, 1943. Artist; won the President's Award for the best picture of the year 'Lotus Garland', 1953; held one man's exhibition, Madras, 1955; as a Fullbright Scholar visited the U.S.A. and exhibited his works at India House, New York; exhibited his works along with other invitees by the Govt. of India, in U.S.S.R., China, Japan, Philippines and Australia; nominated representative of Madras State on the General Council of Lalit Kala Akademi, 1956-57. *Recreations:* Games and Sports. *Clubs:* All India Arts and Crafts Society. *Address:* B.T.S., Adyar, Madras 20.

SRI KRISHNA, Dr., C.I.E. (1942), Ph.D., D.Sc. (Lond.), F.N.I., Scientist. *b.* July 1896 at Lahore; *Educ.:* Punjab Univ.; D.S.I.R. (England) Research Scholar, 1919-21; Queen's College, London; King's College, London. Elected Fellow of the Royal Institute of Chemistry, 1925; Research Assistant, Chemistry Dept., King's College London, 1924; Reader in Organic Chemistry, Punjab Univ., 1925; Biochemist, Forest Research Institute, Dehra Dun, 1928; Foundation Member of the National Institute of Sciences, India, 1937; Pres., Chemistry Section, Indian Science Congress, 1940; Vice-President, Forest Research Institute & Colleges, Dehra Dun, 1947; represented India at the Fifth Empire Forestry Conference, London, 1947; Leader of the Scientific Delegation to Australia, 1948; Director of Forest Research, Forest Research Institute & College, Dehra Dun, 1948-50; Dy. Dir., C.S.I.R., New Delhi, 1952-53; Scientific Adviser & Scientific Liaison Officer, Indian High Commission, London, till 1959. *Publications:* Over a hundred publications, mainly on plant products. *Recreation:* Tennis. *Address:* 62, Perryn Road, London, W. 3.; 88, Rajpur Road, Dehra Dun, U.P.

SRI RAM, Nilakanta, B.A. (Madras), President, Theosophical Society. *b.* Dec. 15, 1889; *Educ.:* Madras. Worked with Dr. Annie Besant on her newspaper, *New India*, 1919-20 and 1923-32; was on the *Leader* staff for a short time, 1922-23; has been Secy., Treasurer and Vice-Pres., Theosophical Society; elected International Pres., Feb. 1953; has been travelling abroad, lecturing and writing. *Publications: Thoughts for Aspirants, An Approach to Reality, A Theosophist Looks at the World, The Human Interest, Man, his Origins and Evolution*, etc. *Address:* Adyar, Madras 20.

SRINIVASAN, C. R., Honorary Editor and ex-Managing Director, *Swadesamitran*, Madras. *b.* Nov. 28, 1889; *Educ.:* Presidency Coll., Madras; Manager and Assistant Editor, *Swadesamitran*, 1915-28; Editor, from 1928; Managing Dir. from 1934 to 55; Pres., Local Board, Reserve Bank of India from its inception till Jan. 1961; Dir., Central Board, 1937-61; Pres., I.E.N.S., 1953-54; Chairman, A.B.C. for 1957; Chairman: the Bharat Line Ltd., Bombay; East India Distilleries Ltd.; Kirloskar Electric Co., Ltd.; Parry's Confectionery Ltd.; Tirupati Cotton Mills Ltd.; Indian Steel Rolling Mills Ltd., etc.; Dir. of the Board of Cauvery Sugars & Chemicals Ltd.; Kumbakonam Electric Supply Corporation Ltd., etc.; Pres., A.I.N.E.C., 1949-50 and 1951-52; member, Executive Cttee., I.E.N.S.; visited Burma, Ceylon and Malaya for cultural contacts; Europe, 1948 and 1949; U.K., 1956; Canada and U.S.A., 1950; *Publications: Standards and Values; A.B.C. Talks*, in English and *The Balance* in Tamil. *Address:* "Swadesamitran," Madras.

SRINIVASAN, Venkatachari, M.B.B.S. (Madras), F.R.C.S. (Eng.), Director-General of Health Services, Ministry of Health, Govt. of India, since 1960. *b.* Dec. 31, 1903. *Educ.:* Madras and London. Military Service in the I.M.S., 1936-37; Civil Surgeon, C.P. & Berar, 1937-40; War Service, 1940-45; Civil Surgeon, Nagpur, 1946-48; Principal, Medical Coll., Nagpur, 1948-52; Director of Medical and Health Services, Vindhya Pradesh, 1952-54; Medical Commissioner, Employees' State Insurance Corpn., 1954-57; Dy. Director General of Health Services, 1957-60. *Address:* Ministry of Health, Govt. of India, New Delhi.

SRIVASTAVA, Mr. Justice Ambika Prasad, M.A., LL.B. (Allahabad), Judge, High Court, Allahabad, since Dec. 13, 1956. *b.* Feb. 18, 1903; *Educ.:* London Mission High School, Mirzapur; Ewing Christian Coll., Allahabad; Allahabad Univ., Allahabad. Enrolled as a Vakil of the Allahabad High Court, 1925, and as an Advocate, 1928; joined the provincial Judicial Service, 1927. *Recreations:* Reading. *Address:* 10, Hamilton Road, George Town, Allahabad.

SRIVASTAVA, Bishwambhar Nath, M.Sc., D.Sc. (Alld.), F.N.I., F.N.A.Sc., F.P.S. (London), Scientist. Professor of General Physics, Indian Association for the Cultivation of Science, Jadavpur, Calcutta, since 1953. *b.* Aug. 23, 1905; *Educ.:* Jaunpur, Allahabad and Oxford Univ., Elected Fellow, National Institute of Sciences of India, 1946; awarded Education Minister's gold medal by the National Academy of Sciences of India, 1950; elected Recorder of Physics Section, Indian Science Congress, 1953; elected Fellow of Physical Society, London, 1953; elected Member of Commission I of International Institute of Refrigeration, Paris, 1957. *Publications:* More than fifty research papers mainly on thermal ionization, quantum statistics, transport properties of gases, etc.; author (jointly with Prof. M. N. Saha) of *Treatise on Heat*, etc. *Recreations:* Tennis. *Address:* Indian Association for the Cultivation of Science, Calcutta 32.

SRIVASTAVA, Chandrika Prasad, B.A., Hons., M.A., LL.B., I.A.S., Managing Director, Eastern and Western Shipping Corporations* (Govt. of India Undertakings), since Dec. 31, 1960. *b.* July 8, 1920; *Educ.:* Allahabad and Lucknow; B.A. (Lucknow), 1940; B.A. (Hons.) (1941), M.A. (1942) and LL.B. 1st class (1944) from Lucknow Univ., topped the list in all exams.; won gold medals for proficiency in English Literature and Political Science. Indian Foreign Service, 1948; I.A.S. Oct. 1949; served U.P. Govt. and Central Govt. in responsible positions as City Magistrate, Lucknow, Addl. Dist. Magistrate, Meerut, Dy. Secy., Govt. of India and Senior Dy. Director General of Shipping; Central Administration Pool 1958; Govt. of India delegate at the Maritime Session of the International Labour Conference, Seattle, U.S.A., 1946; represented India at five other International Conferences; Director, Mogul Line Ltd.; Member-Secy., National Shipping Board; Vice-Chairman, Merchant Navy Training Board; Member, Tea Board. *Recreations:* Tennis & Badminton. *Clubs:* Cricket Club of India, Bombay. *Address:* 19, Firdaus, Marine Drive, Bombay 1.

SRIVASTAVA, J. K., B.Sc., Tech. (Manch.), A.M.C.T., A.T.I., Ex-M.L.A., Chief Business Executive, Sir J. P. Srivastava Group of Industries. *b.* Nov. 13, 1913; *Educ.:* Grimes Tutorial School, College of Technology, Univ. of Manchester. President, Upper India Chamber of Commerce, 1957-60; Deputy Pres.; Associated Chambers of Commerce of India, 1957 and again in 1959; Employers' Federation of India; Chairman: Northern Regional Committee of Employers' Federation of India; Employers' Assoc. of Northern India; Pres., U.P. Chamber of Commerce, 1946-56; Member: State Planning Board, U.P.; Export Promotion Advisory Council, Govt. of India; Central Zonal Advisory Board, Life Insurance Corporation of India; Indian Central Cotton Cttee.; Cotton Textiles Fund Cttee.; Cttee. on the Manufacture of Textile Machinery; Standing Cttee. for Machinery Manufacture for Textiles, Govt. of India; Legislative Assembly, 1946-52, All India Board of Technical Studies in Management, Central Employment Advisory Cttee.; State Advisory Board for Promotion of Organised Industries; States Savings Advisory Cttee., U.P.; State Large Industries Advisory Board, U.P.; Advisory Cttee., Industrial Finance Corporation, New Delhi; Chairman: Advisory Cttee., Govt. Central Textile Institute, Kanpur; New Victoria Mills Co. Ltd., Kanpur; Shree Sadul Textiles Ltd.; Sri Ganganagar (Rajasthan) Raza Textiles Ltd., Rampur; New Bhopal Textiles Ltd., Bhopal; Gwalior Sugar Co. Ltd., Dabra; Director: Concord of India Ins. Co. Ltd., Calcutta; The Pioneer Ltd., Lucknow; Jagatjit Cotton Textile Mills Ltd., Phagwara; Jharia & Raniganj Collieries Ltd., Calcutta; Orient Eng. & Commercial Co. Ltd., Calcutta; Leader, Indian Delegation, International Organisation for Standardisation, U.S.A., 1952; Delegate, International Chambers of Commerce, 1950; Patent right inventions of process for production of book binding cloth and sulphur burning. *Recreations:* Tennis, Swimming, Riding, Shooting. *Clubs:* Delhi Gymkhana Club, New Delhi; Cawnpore Club Ltd., Kanpur; Boat House Club Ltd., Nainital. *Address;* 'Kailash', Nawabganj, Kanpur.

STANES, Eric Henry, Managing Director, T. Stanes & Co., Ltd., Coimbatore, since 1939. *b.* April 4, 1897, at Coonoor, S. India; *Educ.:* Monkton Combe School, England. Served as a Lieut. in the 1914/18 War, in the Manchester Regiment, R.F.C. and R.A.F.; awarded Military Cross, 1918; after one year in Mincing Lane, joined T. Stanes & Co., Ltd., 1920; member, Indian Coffee Board, since 1941; Pres., United Planters Assoc. of Southern India, 1951-52; Chairman, Associated Companies, which now include: The United Nilgiri Tea Estates Co. Ltd; Stanes Amalgamated Estates Ltd.; The United Coffee Supply Co. Ltd.; Stanes Motors (South India) Ltd.; The Indian Cashewnuts & Plantations Ltd. *Clubs:* Coimbatore, Ootacamund, Bangalore and East India and Sports Club. *Address:* P.O. Box 12, Coimbatore.

SUBBARAMAN, K. N., B.E. (Madras), Director (Construction), Hindustan Steel Ltd., since Nov. 1959. *b.* Feb. 15, 1911; *Educ.:* Maharaja's Coll., Ernakulam; B.E. from Govt. Engineering Coll., Madras, 1934. Appointed in the Indian Railway Service of Engineers, 1935; held posts of Asstt. and Executive Engineer, East Indian Rly., since Sept. 1935; prepared Project Report for Chittaranjan Locomotive Works, Dec. 1947; Supdt. of the Works in this construction, 1948; Dy. Chief Engineer, 1949-52; Dy. Chief Engineer, Dy.

* Now known as The Shipping Corporation of India.

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General Manager and Divisional Supdt., Eastern Rly., 1952-56; Chief Engineer, Bhilai Steel Project, July, 1956-Feb. 1959; Genl. Manager (Planning and Construction), Hindustan Steel Ltd., to plan the expansion to steel capacity in the 3rd Five Year Plan, July-Nov. 1959. *Address:* Hindustan Steel Ltd., P.O. Hinoo, Ranchi.

SUBBARAO, Mr. Justice K., B.A., B.L., Judge, Supreme Court, since Jan. 31, 1958. *b.* July 15, 1902; *Educ.:* Govt. Arts Coll., Rajahmundry; Law Coll., Madras. Practised in Madras High Court from 1926; Judge, Madras High Court, March 1948-July 1954; Chief Justice, Andhra High Court, Guntur, July 5, 1954-Oct. 31, 1956; Chief Justice, Andhra Pradesh High Court, Nov. 1, 1956-Jan. 1958. Chancellor, Sri Venkateswara Univ., 1954-55. *Clubs:* Cosmopolitan Club, Madras; Delhi Gymkhana Club. *Address:* No. 2, York Road, New Delhi 11.

SUBBARAO, Rayaprolu, Sahitya Sthapaka (1947), Telugu Poet; Head of Telugu Dept., Sri Venkateswara University, Tirupati. *b.* March 1896; *Educ.:* Nizam Coll., Hyderabad; Santiniketan. Joined Osmania Univ., as Head of the Telugu Deptt., 1920; Principal, Univ. Coll., Warangal, 1947-50; presided over the All Andhra Poets and Pandits Conference, Rajahmundry, 1935; Jt. Pres., Navya Sahitya Parishad; Founder Pres., Hyderabad Telugu Academy, 1950. *Publications: Lalita*, Poetic work (1909), *Thrinakankan*, pure lyric (1913); *Kashtakamal; Swapna Kumar; Telugu Tota; Sneha Lata; Jada Kuchulu; Andhravali; Vanamala; Ramya Lekum; Madhuri* and *Kanne Patalu* (verses and songs); *Roopa Navanitam*, drama (1953); Translations of Omar Khayam; Kalidasa's *Meghadoota* and Bhavabhuti's *Uttara Rama Charita* (1958). *Recreations:* Morning Walks, Reading and Writing. *Address:* Lalita Kutir, 44, Nehru Nagar, Secunderabad.

SUBBARAYAN, Dr. Paramasiva, M.A., B.C.L. (Oxon.), LL.D. (Dublin), Minister for Transport and Communications, Govt. of India, since Sept. 1959. *b.* Sept. 11, 1889; *Educ.:* Newington School, Madras, the Presidency and Madras Christian Colleges and Wadham Coll., Oxford. Was Council Secretary for a few months in the first reformed Legislative Council; has been a member of Madras Legislative Council representing South Central Landholders from 1920; Chief Minister, Government of Madras, 1926-30; elected to the Madras Legislative Assembly unopposed for Tiruchengodu rural; member, A.I.C.C., 1920 and 1937-49; Minister for Law, Madras, 1937-39, and 1947-48; Indian Ambassador in Indonesia, 1949-51; member, Rajya Sabha, 1954-57; member, Lok Sabha, since 1957; Chairman, Public Accounts Cttee. till Sept. 1959. *Address:* Tiruchengodu, Salem District; 4, Hastings Road, New Delhi.

SUBRAHMANYAN, Dr. V., B.A. (Madras), D.Sc. (Lond.), F.R.I.C. (Lond.), F.N.I. (India), F.I.C., Padma Shri & Kidwai Prize (1960), Director, Central Food Technological Research Institute, Mysore, since 1950. *b.* 1902; *Educ.:* Madras Univ.; London; Research Medalist of the Royal Agricultural Society, London, 1928. Prof. 1931-49, Bio-Chemistry, Indian Institute of Science, Bangalore; has been conducting and directing research in biochemistry, nutrition and food technology for the last 36 years; is now engaged in the technical direction and development of works arising from the processes and products standardized at the Central Food Technological Res. Inst.; was Pres.: Society of Biological Chemists, India; Chemistry Section of the Indian Science Congress; member of Industrial Panels or Cttees. of a number of Central Ministries and of bodies like the Council of Scientific and Industrial Research: *Publications:* More than 500 papers having a bearing on agricultural chemistry, bio-chemistry, nutrition, etc. *Address:* Central Food Technological Research Institute, Cheluvamba Mansion, V. V. Mohalla P.O., Mysore.

SUBRAMANIAM, C., B.A., B.L. (Madras), Minister for Finance, Education and Law, Madras State. *b.* Jan. 30, 1910, at Pollachi, Coimbatore Dist.; *Educ.:* Coimbatore and Madras; took B.A. in 1930 and B.L. in 1932. Joined the Satyagraha Movement and was imprisoned for one year; started practice in Coimbatore, 1936; participated in the Individual Satyagraha and was convicted for six months, 1941; detained in the 1942 Movement; has been mainly associated with the Coimbatore Textile Labour Movement and also with Sri Ramakrishna Mission Vidyalaya in Coimbatore Dist.; was Pres., Coimbatore Dist. Congress Cttee.; member: P.C.C., A.I.C.C.; Working Cttee., Tamil Nad Congress; took a keen interest in students' organisations and youth movements; elected to the Constituent Assembly, 1946-52; elected M.L.A., Madras, from the Coimbatore City constituency, Jan. 1952; again elected to the Madras Assembly, 1957. *Address:* Govt. of Madras, Fort St. George, Madras 9.

SUBRAMANYA, T., B.A., LL.B., Minister for Local Self-Govt., & Village Panchayat, Mysore. *b.* July 2, 1896; *Educ.:* Central Coll., Bangalore; St. Aloysius Coll., Mangalore; Law Coll., Bombay. Entered the Bar and joined Congress, 1921; courted jail during freedom movement; Pres.: Mysore State Congress, 1942-45; Mysore Constituent Assembly, 1948-49; Mysore State Charkha Sangh, since 1946; Karnatak Hindi Prachar Sabha, since 1950; M.L.A., Mysore, 1950-52; Chairman, Mysore Leg. Council, after formation of new Mysore State; elected M.L.A., Mysore, 1957. *Address:* Bangalore.

SUBRAMANYAM, Palghat Ramakrishna, M.A., Stock, Share and Finance Broker. *b.* 5th June 1909 in Palghat; *Educ.* in Mysore; obtained first rank in B.A. Degree Examination held by the Mysore University with Mathematics, Economics and Statistics as optional subjects, in 1929; was the recipient of four gold medals; was a merit scholarship holder in the B.A. as well as M.A. classes; passed M.A. Degree with distinction (1931) with advanced Mathematics, Statistics and Mathematical Economics as his special subjects. Joined Messrs. Batlivala and Karani, as Statistician, Investment Consultant and Sub-broker, 1933; after serving them for a period of eight years and three months, was elected a member of the Bombay Stock Exchange on October 7, 1941 and started independent business as a Stock, Share and Finance Broker on November 28, 1941; converted the proprietary firm into a partnership firm by admitting into partnership on Jan. 1, 1959, Mr. P. R. Venkatesan and Mr. R. Subramanyam; celebrated the Silver Jubilee of his career in the Stock Exchange, Jan. 1, 1959; as an Underwriter, has been responsible for placing several issues on the market (Total Issued Capital of about Rs. 5 crores); Director of several Joint Stock Companies. *Address:* Senior Partner, Messrs. P. R. Subramanyam, Stock, Share & Finance Brokers, 70-A, Stock Exchange Building, Apollo Street, Fort, Bombay 1.

SUBRAMANIAM, T. A., B.A. (Hons.), Editor, *The Mail*, Madras, since May 1960. *b.* May 21, 1911, in Palghat; *Educ.:* Victoria Coll., Palghat; Malabar Christian Coll., Calicut; Annamalai Univ.; took Economics Hons. degree, 1932. Joined the *Times of India* as an apprentice sub-editor, 1933; worked as sub-editor, chief sub-editor and acting News Editor, *The Mail*, 1936-43; joined *The Statesman*, Calcutta, as Chief Sub-Editor, 1944; became Special Representative, Deputy News Editor and Assistant Editor. *Address:* 12, Jambulinga Mudaliar Road, Mylapore, Madras 4.

SUBRAMANYAM, V. R., Proprietor, Manyam & Co., Madras, Bangalore & Bombay; Manufacturers of Raja Snow and other Raja products. *b.* Feb. 17, 1906, at Madras. Has travelled extensively in India and also visited United Kingdom and several countries in Europe, 1951; visited the countries of the Far East and travelled throughout Japan, 1952, U.K. and Europe, 1955 and also U.S.S.R., 1958; U.S.A., Far-East and Australia, 1961. *Address:* Raja Snow Buildings, Seshadripuram, Bangalore 20.

SUKHADIA, Mohanlal, L.E.E. (Bombay), Chief Minister, Rajasthan, since Nov. 13, 1954; became Chief Minister in charge of Industries, General Administration, Appointments, Political, Mines & Mineral based Industries, Education, and Planning and Co-ordination, of Greater Rajasthan from Nov. 1, 1956 after the integration of the former State of Ajmer and certain other areas into Rajasthan. *b.* July 31, 1916; *Educ.:* Nathdwara (Udaipur) and Bombay. Actively associated with the activities of the Praja Mandal of the former Mewar State, from 1939; interned during 'Quit India Movement'; Minister for Civil Supplies, P.W.D., Relief & Rehabilitation, Mewar State; Became Development Minister when the State of Rajasthan was first formed; elected to the Legislative Assembly from Udaipur City constituency; Minister for Civil Supplies and Agriculture including Irrigation, Vyas Cabinet, Rajasthan, April 26, 1951-March 3, 1952; Minister for Agriculture, Revenue (except Forests and Co-operation), and Famine Relief, Paliwal Cabinet, March 4, 1952-Oct. 31, 1952 and in Vyas Cabinet, Nov. 1, 1952-Nov. 12, 1954. *Publications:* Articles on political, economic and social subjects. *Recreations:* Indoor games and social studies. *Club:* Jaipur Club. *Address:* 8, Civil Lines, Jaipur.

SUKHATME, Pandurang Vasudeo, B.Sc., Ph.D. (London), D.Sc. (London), F.N.I., Director, Statistics Division, Food and Agricultural Organisation of the United Nations, Rome, since Jan. 1959. *b.* July 27, 1911; *Educ.:* Fergusson College, Poona; University College, London; Galton Laboratory, London; Rothamsted Agricultural Experimental Station, Harpenden. Statistical Adviser, Indian Council of Agricultural Research, 1940-51; Chief, Statistical Branch, F.A.O., U.N., 1951-59. *Publications:* Co-author with Dr. V. G. Panse of the book on 'Statistical Methods for Agricultural Workers' published by the Indian Council of Agricultural Research, 1955; *Sampling Theory of Survey* published in English by Iowa State College Press, U.S.A., 1958 and by the Indian Society of Agricultural Statistics and translated into Spanish by Fondo de Cultura Economica Mexico, Buenos Aires, 1956; also author of several original research memoirs. *Address:* Rome, Italy.

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SUKTHANKAR, Yeshwant Narayan, C.I.E. (June 1941), B.A., LL.B., Bar-at-Law (Lincoln's Inn), I.C.S. (Retd.), Governor of Orissa, since July 31, 1957. *b.* Aug. 24, 1897; *Educ.:* Bombay and Cambridge Universities. Joined the Indian Civil Service, 30th October, 1922; served in Madhya Pradesh as Asstt. Commissioner; Offg. Deputy Commissioner, April 1927; Under Secy. to Govt., Madhya Pradesh, Oct. 1932; Offg. Revenue Secy. to Govt., Madhya Pradesh, June 1933; Deputy Indian Trade Commissioner, July 1934; acting Indian Trade Commissioner, Oct. 1934; and again, Sept. 1935; Deputy Secy., Commerce Dept., Govt. of India, July 1937; Deputy Commissioner (confirmed), August 1937; Tea Controller for India, Oct. 1939; Secy., Commerce Dept., Govt. of India, Aug. 1946-Aug. 1947; Secy. Ministry of Transport, Aug. 1947-Dec. 1951; Secy., Commerce and Industry Ministry, Dec. 1951-Dec. 1952; Special Secy., Cabinet and Secy., Planning Commission, Dec. 1952-May 1953; Cabinet Secretary and Secy., Planning Commission, Govt. of India, 1953-57. *Recreations:* Long walks, Reading. *Club:* Delhi Gymkhana. *Address:* Governor's Camp, Orissa.

SUMATI Morarjee, Smt., Ex-Chairman, Indian National Steamship Owners' Association. *b.* March 13, 1909; *Educ.:* Privately. Director: Managing Committee, The Scindia Steam Navigation Co., Ltd.; Kamal Shipping Co., Ltd.; The Eastern Bunkerers Ltd.; Narottam & Pereira Ltd.; member: Sea Cadet Council; All India Handicraft Board; Regional Handicrafts Design Centre; National Cadet Corps; Indian and Tourist Industry's Council; National Shipping Board; Merchant Navy Training Board; Shipping Co-ordination Committee; Stand Member, R.W.I.T.C. *Hobbies:* Research in Ancient Indian Shipping; Collecting ancient curios, Art and Paintings; Gardening; Cows. *Address:* Palm Bun, Gandhi Gram, Juhu, Bombay 52.

SUNDARAM, Kuthur Vaidyanath Kalyan, B.A. (Hons.) (Madras Univ.), I.C.S., Chief Election Commissioner, *b.* Jan. 1, 1904; *Educ.:* Coimbatore College; Presidency College, Madras and Christ's College, Cambridge. Appointed to the I.C.S., October 1927; served in Madhya Pradesh as Assistant Commissioner, District Judge and later as Registrar of the Nagpur High Court, 1927-36; Reforms Officer of the Govt. of India, 1936-38; Legislative Department of the Govt. of India, 1938-48; Secy., Ministry of Law, 1948-58. *Club:* Delhi Gymkhana. *Address:* New Delhi.

SUNDARAM, Pavoor Minakshinathier, B.A., Secretary, Council of Scientific and Industrial Research and Ex-Officio Jt. Secretary, Ministry of S. R. & C. A., Govt. of India, since May 1956. *b.* Dec. 25, 1904; *Educ.:* Madras Univ. Served in various deptts. and Ministries of the Govt. of India including the I.C.A.R., Directorate-General of Health Services and the Ministries of Industries and Supplies and Home Affairs, since 1927; officiated for some time as Jt. Secy., Ministry of Labour; connected with several cultural, educational and social institutions; Hon. Jr. Grand Warden, Grand Lodge of Scotland and Hon. Past Depute Grand Master of Grand Lodge of United Scottish Freemasonry of India and Ceylon; is Dt. Governor, Dt. 304-North, Lions International: Chairman, Lions Vidya Mandir Managing Cttee. and Hon. Secy., Blind Relief Assoc., Delhi. *Publications: I Look Back*—an appreciation of Freemasonry in Delhi. *Recreations:* Social Service. *Clubs:* Lions Club of Delhi; Masonic Fraternity of New Delhi; Delhi Gymkhana Club Ltd. *Address:* 19, Willingdon Crescent, New Delhi 11.

SUNDARAM, Tribhuvandas Purushottamdas Luhar, "Bhasha Visharad" (1929), Gujarati Poet, Short Story Writer and Critic. *b.* March 22, 1908; *Educ.:* Gujarat Vidyapith, Ahmedabad. *Publications:* —Poetry: *Kadvi Vani; Kavya Mangala; Rang Rang Vadalian; Vasudha; Yatra;* Short Stories: *Hirakani & Other Stories; Piyasi; Unnayan;* Travel: *Dakshinayan;* Criticism: *Arvachin Kavita;* Biography: *Maha Yogi Sri Arvind;* Translations: *Mrichchhakalik, Kayapalat. Address:* Sri Aurobindo Ashram, Pondicherry.

SWAMI Ranganathananda, Secretary, Ramakrishna Mission, New Delhi, since Oct. 1949. *b.* Dec. 15, 1908. A Sanyasin of the Ramakrishna Order of Monks, joined the Ramakrishna Mission, Mysore in 1926; took orders in 1933; served as Secy. & Librarian of the Ramakrishna Mission Society, Rangoon, July 1939 to Feb. 1942; President, Ramakrishna Math and Mission Branch at Karachi, Aug. 1942 to Aug. 1948. *Publications: Eternal Values for a Changing Society,* a volume of his speeches and writings brought out by the Advaida Ashrama, Calcutta in Nov. 1958. *Address:* New Delhi 1.

SWAMI Sivananda Saraswati, Founder-President, The Divine Life Society, Rishikesh. *b.* 1887. Practised medicine in Malaya; performed Tapas in Swarg-Ashram (near Rishikesh in the Himalayas) for over 12 years; established the Divine Life Society and 300 Branches in all countries; founded the Yoga-Vedanta Forest Academy for training students in Yoga and Indian Philosophy; carries on dynamic work through correspondence, press and platform for attaining health and longevity, spiritual progress, universal brotherhood and world peace; the Sivananda General Hospital renders useful service to the people in the local villages and thousands of pilgrims to Hardwar, Rishikesh, and Badri-Kedar. *Publications:* over 300 books on Yoga, Health and Indian Philosophy in English and other languages. *Address:* P.O. Sivanandanagar, Rishikesh (Himalayas).

SWARUP, Krishna, B.Sc. (Agra), A.M.I. Mech. E., M.I. Loco. E. (Lond.), M.I.E. (Ind.), M.B.E. (1943), Chief Administrative Officer, Integral Coach Factory, Perambur, Madras, since Sept. 1959. *b.* April 16, 1910; *Educ.:* Mount College; Trained in E. I. Rly. Workshops at Jamalpur; attended Institute of Technology, Manchester. Deputed to Indian Army, 1939; sent to U.S.A. and Canada under U.N.O. Fellowship for specialisation in Production Engineering, 1951; Dy. Chief Mechanical Engineer, April 1952-58; transferred to the Integral Coach Factory, July 1953; sent to Switzerland for specialisation in construction of lightweight coaches, 1953; given the Stewart Dyer award for his paper on Design and Manufacture of Lightweight Coaches, by the Council of Institution of Locomotive Engineers in London, 1958. *Publications: Design and Manufacture of Lightweight Coaches. Clubs:* Madras Gymkhana Club, Rotary Club, The Calcutta Punjab Club, Ltd., Calcutta; Railway Officers' Club. *Address:* 9, Pilkington Road, Perambur, Madras 23.

TAGORE, Rathindranath, B.Sc. (Illinois), Ex-Vice-Chancellor, Visva Bharati. *b.* Nov. 29, 1888; *Educ.:* Santiniketan and Univ. of Illinois. General Secretary, Visva Bharati Society; retired as Vice-Chancellor, Visva Bharati Univ., 1953. *Publications: Prantatwa* (A book on biology in Bengali); *Avivyaktibad* (A book on the Theory of Evolution in Bengali); *Asvaghosher Budhacharit* (Bengali rendering of Asvaghosh's Budhacharita); *On the Edges of Time* (Reminiscences of his father Rabindranath Tagore). *Recreations:* Artistic Leatherwork, Artistic Woodcraft, Horticulture and Painting. *Address:* "Uttarayana," "Mitali", Rajpur, Dehra Dun (U.P.).

TAKRU, Mr. Justice Jawahar Nath, B.A., LL.B., Judge, High Court, Allahabad, since May 6, 1957. *b.* Dec. 6, 1906; *Educ.:* The Allahabad and the Edinburgh Universities; took his degree in Arts, 1926; studied abroad for two years, graduated in Law, 1931; did one year's training in the chamber of Dr. K. N. Katju; joined the Allahabad Dist. Court Bar and practised in the Dist. Courts for 10 years; shifted to the Allahabad High Court and practised, Dec. 1942-May 1957; Addl. Judge, Allahabad High Court, May 6-Oct. 20, 1957. *Recreations;* Bridge, Golf and Rowing. *Clubs:* The Judges and the Golf. *Address:* 12, Sir T. B. Sapru Road, Allahabad, U.P

TALEYARKHAN, Homi J. H., B.A. (Bombay), Minister for Public Health, Small Savings and Tourism, Maharashtra State since May 1, 1960. *b.* Feb. 9, 1917; *Educ.:* Bombay Univ.; King's Coll. and Middle Temple, London. Member and Chief Whip, Congress Party, Bombay Municipal Corporation, 1948-52; was Chairman, Works Cttee.; member, Standing Cttee.; represented the Corporation on several bodies; on invitation from President Truman, visited U.S.A. on a goodwill and study tour and spent about four months there explaining India's economic progress and foreign policy; elected M.L.A., Bombay, from Walkeshwar Mahaluxmy Constituency, 1952; appointed Gen. Secy., Leg. Congress Party; conducted the Congress Party's fortnightly bulletin; was member, Estimates cttee. for two years; has worked on several select cttees.; toured Japan, 1956; accompanied a Govt. of India, party to inspect military and economic conditions in Kashmir, 1956; re-elected M.L.A., Bombay from Mahalaxmi, 1956-57 and appointed chief whip of the Leg. Congress Party and Parliamentary Secy. to the Chief Minister, in charge of Small Savings, Tourism, Parliamentary Affairs, Foreign Branch, etc.; was mainly responsible for collecting a larger amount than the target and ahead of all other States in the Small Savings Scheme; went on a study tour of West Germany and other countries including U.A.R. and England, 1959; is member, Exec. Cttee. of the Commonwealth Parliamentary Assoc.; is an Associate delegate of the A.I.C.C.; is Chairman, Society for the Prevention and Rehabilitation of Beggars; pioneered a scheme for low-income group holiday resorts; initiated several other tourist schemes. Pres., Walkeshwar Mahalaxmi Group of Social Welfare Cttees. and Society of goodwill. *Address:* Sachivalaya, Bombay 1.

TALIB, Dayal Singh, Business Man; Managing Director, Mahalaxmi Transport Private Ltd., Bombay. *b.* April 24, 1921, at Rawalpindi in an ancient Sikh family of Jammu in Kashmir State; *Educ.:* After schooling at Rawalpindi and Srinagar, joined college at Lahore. After completing college education, joined and served as Supervisor, Cement and Sales Despatch Deptt., Dalmia Cement Ltd., Karachi, for ten years; gained sufficient experience in office administration, accounting and road transport; after partition left Karachi and migrated to Bombay; lost all his belongings and relatives during the tribal raid on Kashmir; started his own transport company in Bombay on a small scale; converted the Mahalaxmi Transport Co. into a private limited company and developed it into one of the most well established transport organisations in the country, having transport services all over India; is Managing Director: Mahalaxmi Autodivision Private Ltd., Bombay; Mahalaxmi Hire Purchase Corporation Pvt. Ltd., Bombay; member: Executive Cttee., All India Motor Unions' Congress, Delhi; Indian Road Transport

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Development Assoc., Bombay. *Special interests :* Philosophy, Religion. *Hobbies :* Short story writing. *Address :* 49 A-B, Mohamadali Road, Bombay 3.

TAMBE, Mr. Justice Yeshwant Shripad, B.A., LL.B., Judge, High Court, Maharashtra since Nov. 1956. *b.* July 31, 1904 ; *Educ. :* Elphinstone College, Bombay ; Govt. School of Law, Bombay. Judge, High Court, Nagpur, 1954-46 ; acted as Chief Justice, Maharashtra State, Nov. 1960. *Clubs :* C. P. Club, Nagpur ; Gondwana Club, Nagpur. *Address :* Civil Lines, Nagpur.

TANDON, Balwant Rai, B.A. (Hons.)(Punjab), M.A. (Punjab), Barrister-at-Law, C.I.E. (1946), I.C.S., Secretary to the Govt. of India, Ministry of Health, since Aug. 1, 1960. *b.* Oct. 8, 1903 ; *Educ. :* St. Xavier's Coll., Calcutta ; Govt. Coll., Lahore ; Jesus Coll., Oxford. Served the Punjab Govt. as Dy. Commr., Jhelum, Ambala and Kangra, Dy. Secy., Dy. Commr., Simla and Multan, Commr., Multan and then Secy. to Govt., Electricity and Industries, 1931-45 ; Finance Secy., Punjab, 1945 ; Commissioner, Multan and Ambala, from 1947-48 ; Chief Secretary and Financial Commissioner, Punjab, 1949-51 ; Regional Commissioner and Adviser to Rajpramukh, PEPSU, 1951-52 ; Financial Commissioner, Punjab, 1952-53 ; Joint Adviser and later Counsellor, PEPSU, 1953-54 ; Adviser, programme administration, Planning Commission, 1956 ; Secy., Govt. of India, Ministry of Community Development, 1960. *Recreations :* Golf, Contract Bridge. *Clubs :* Delhi Gymkhana Club, Delhi Golf Club. *Address :* 34, Prithvi Raj Road, New Delhi.

TANDON, Purushottamdas, Bharat Ratna (1961), Ex-President, Indian National Congress. Practising Lawyer in Allahabad till 1921, when he gave up practice to take part in Non-co-operation Movement ; President, U.P. Provincial Congress Committee, 1923 ; joined Servants of People Society, founded by Lala Lajpat Rai in 1929 as President ; Chairman, Allahabad Municipality, for several years ; took prominent part in Civil Disobedience Movements, 1930 and 1932, and was jailed several times ; organised no-rent campaign in U.P., 1932 ; took active part in Rowlatt agitation and Satyagraha, 1919 ; elected Speaker, U.P. Leg. Assembly, 1937 ; kept in detention for over 8 months in 1941 and again for over two years, 9th Aug. 1942 to 22nd Aug. 1944 ; takes active interest in Hindi Sahitya Sammelan ; Speaker, Legislative Assembly, U.P., 1946-50 ; resigned Congress Presidentship, September 1951 ; was member, Congress Working Committee ; Member, Rajya Sabha ; was M.P. for over eight years ; resigned seat in the Parliament on Jan. 1, 1960. *Address :* Servants of the People Society, Lajpat Bhavan, Kalyanidevi, Allahabad.

TANDON, H.E. Mr. Raj Krishna, B.A., LL.B. (Punjab), B.A. (Hons.) (Cantab), Barrister-at-Law, Ambassador of India to the Netherlands. *b.* Feb. 10, 1910 ; *Educ. :* Forman Christian College and Law College, Lahore, Emmanuel College, Cambridge and Middle Temple, London. Joined Punjab Civil Service ; Under-Secretary, 1942 and later Deputy Secretary in Information and Broadcasting Deptt., Govt. of India ; Officer on Special Duty, Commerce Deptt., Govt. of India, Feb. 1946 ; Indian Government Trade Commissioner in Ceylon, 1946-48. Dy. Chief Controller of Imports & Exports, Bombay, 1948-50 ; Dy. Secy. and Joint Chief Controller of Imports, Ministry of Commerce, Govt. of India, Jan. 1950 ; Consul-General of India, Pondicherry, 1950-54 ; Acting Commissioner in British East Africa and the Federation of Rhodesia and Nyasaland and Acting Consul General in Belgian Congo and Ruanda Urundi, 1954 ; Commissioner for the Govt. of India in Singapore and the Federation of Malaya, 1954-57 ; Jt. Secy., Minister of External Affairs. *Publications :* Articles in various papers. *Address :* C/o External Affairs Ministry, New Delhi.

TARAPORVALA, Khan Bahadur Cooverji B., Financial Adviser to H.E.H. The Nizam of Hyderabad, since 1949. *b.* September 3, 1896 ; *Educ.:* St. Xavier's College, Bombay ; B.A. (Hons.), 1917 ; B.Sc. (Distinction), 1918 ; Dakshina Fellow, Bombay Univ., 1918 ; Sir James Fergusson Scholar, 1919-20 ; Certified Associate of the Institute of Bankers, London, 1923. Lecturer, St. Xavier's College, Bombay, 1919-20 ; joined Imperial Bank, 1921 ; worked as agent at Sandhurst Road, Byculla, Yeotmal, Godhra and Ujjain branches of the Bank : joined H.E.H. the Nizam's Govt. Service as Assistant Secretary, Finance Department, 1930 ; Govt. Auditor, Nizam's State Railway, 1938 ; Deputy Financial Secretary, 1940 ; Additional Financial Secy., 1945 ; Financial Secretary, 1946. Dy. Managing Director, Hyderabad State Bank, 1947. *Address :* Meher Manzil, Somajiguda, Hyderabad-Deccan.

TARE, Mr. Justice Prabhakar Kesheo, B.A., LL.B., Judge, M. P. High Court, Jabalpur, since Dec. 1957. *b.* Oct. 11, 1913 ; *Educ. :* Agricultural Middle School, Powarkhera ; Ramjas High School, Delhi ; Holkar Coll., Indore ; Morris Coll., Nagpur ; LL.B. from Univ. Coll. of Law, Nagpur, 1936. Enrolled at the Hoshangabad Bar ; joined Congress ; delegate to Haripura and Tripuri sessions of Congress ; resigned Congress as a protest against the action against Subhas Chandra Bose ; joined Forward Bloc, 1939 ; courted jail several times in the freedom struggle ; started practice in Nagpur High Court, Oct. 1945 ; imprisoned for a short term in connection with province-wide labour strike, 1948 ; Secy., M.P. Forward Bloc throughout ; for some time Secy., All India Forward Bloc ; on dissolution of Forward Bloc in 1952 gave up politics ; shifted to Jabalpur for practice, 1956. *Recreation :* Tennis. *Address :* Judge, M. P. High Court, 178, South Civil Lines, Jabalpur.

TARNEJA, Dr. Ram., B.A. (Hons.) (Delhi), M.A. (Delhi & Virginia), Ph.D. (Cornell), Gold Medalist, Director, Graduate Deptt. of Business Administration ; Duquesne Univ., U.S.A., and Management Consultant. *b.* December 7, 1931, at Karachi ; *Educ. :* L.R.D.A.V. High School, Karachi ; S.R. Coll. of Commerce, Delhi (B.A. Hons.), 1947-51 ; awarded, Hora Gold Medal, 1951 ; St. Stephen's Coll., Delhi (M.A.), 1951-53 ; Univ. of Virginia, U.S.A., (M.A.) 1953-55 ; Cornell Univ. (Ph.D.), 1955-57 ; Founder, Graduate Economics Club, Univ. of Virginia, 1954 ; Pres., Industrial & Labour Relations Council, Cornell Univ., 1956 ; member, Exec., Indian Assoc. of Pittsburgh, 1957-60 ; Chairman and member of some leading cttees. of Duquesne Univ., Faculty Research Fellow, Ford Foundation at ATIRA, Ahmedabad, 1960-61 ; Syndicate Columnist, India News & Features Alliance ; Management Consultant, Rockwell Manufacturing Co. of Pittsburgh and ARIM Metal Industries of Calcutta ; Professional Member, American Economic Assoc., Pittsburgh Personnel Assoc., Society for Applied Anthropology, Academy of Management, Indian Institute of Public Administration and Indian Institute of Personnel Management. *Publications :* Several in professional journals on business administration and economics. *Address :* Duquesne University, Pittsburgh 19, Pa. U.S.A. ; 3C/22, Rohtak Road, New Delhi 5.

TATA, Jehangir R. D., Chairman, Tata Sons Private Ltd. and Tata Industries Private Ltd. *b.* 1904. Joined Tata Sons, Ltd., 1922, as an assistant and appointed Director, 1926 ; started The Tata Sons Aviation Department, 1932 ; first Pilot to qualify in India, holding a flying licence from 1929 to 1956 ; inaugurated as pilot the Karachi-Bombay Air Mail Service in 1932 and the Bombay-Delhi service in 1937 ; Chairman and/or Director of all Tata and Associated Companies ; also Chairman, Air India International Corporation ; Director, Indian Airlines Corporation ; Director of Hindustan Aircraft Ltd., Reserve Bank of India ; member, Indian Delegation to the Third Session of the United Nations General Assembly at Paris, Sept. 1948 ; Awards : Hony. Group Capt. in the I.A.F., 1948 ; Padma Vibhushan, 1955 ; Legion of Honour, 1954 ; International Management Citation, National Assoc. of Foremen (U.S.A.), 1953. *Address :* Bombay House, Bruce Street, Fort, Bombay.

TAWDE, Dr. Nanasaheb Ramji, B.A. (Hons.), B.Sc. (Bombay), M.Sc. (Bombay), Ph.D. (Lond.), F. Inst. P. (Fellow of Institute of Physics. Eng.), F.N.I. (Fellow of National Institute of Sciences, India), F.A.Sc. (Fellow of the Indian Academy of Sciences), Professor and Head of the Deptt. of Physics, Karnatak Univ., Dharwar, since 1953. *b.* Jan. 15, 1898, at village Salel (Malvan Taluka) ; *Educ. :* School education at Dadar, General Education Institute, Dadar ; B.A. (Hons.) and B.Sc. from St. Xavier's Coll., Bombay, 1919 and 1922 ; M.Sc., from the Royal Institute of Science, Bombay, 1928 ; Ph.D. from Univ. of London, 1933 ; Univ. of Stockholm (Sweden). Joined service as Demonstrator, Karnatak Coll., Dharwar, 1922 ; Lecturer, Royal Institute of Science and later Professor of Physics, R.I.Sc., Bombay (Class I) ; retired, 1953 ; joined Karnatak Univ. as Professor and Head of Deptt. of Physics, 1953 ; went on a study tour with Scientists' delegation to U.S.A., deputed by the Union Ministry of Education for six months, 1956-57 ; was Pres., Physics Section of Indian Science Congress, Lucknow, 1953, and Vice-Pres., Indian Physical Society, Fellow, Univ. of Bombay and one of the three members, Dufferin Inspection Cttee. (Govt. of India) and a member of local Schools Cttee., Bombay City Corporation (F Ward) ; was member, Physical Research Cttee. of Council of Scientific and Industrial Research (India) ; was Chairman, Board of Studies in Physics and member, Academic Council of Univ. of Bombay ; member : Syndicate, Senate, Academic Council and Board of Studies, Karnatak Univ. ; Council of National Institute of Sciences of India ; Council of the Ind. Assn. for the Cultivation of Science, Calcutta ; Board of Studies in Physics at various Indian Universities ; Selection Board for Physics in a number of Universities ; elected member, Institution of Nuclear Engineers, London, 1960. *Publications :* About 100 on various modern problems of Physics ; Author of *Jeevan Vidnyan* (Science Series) text-books for Marathi Schools. *Recreations :* Tennis ; Gardening. *Clubs :* Rotary Club, Dharwar. *Address :* Karnatak University Staff Quarters, Chhota Mahabaleshwar, Dharwar (Mysore State).

TEK CHAND, Mr. Justice, M.A., B.C.L. (Oxon.), Barrister-at-Law, Judge, Punjab High Court. *b.* April 9, 1903 ; *Educ. :* Anglo-Sanskrit High School, Ambala City ; D.A.V. Coll., Lahore ; St. Catherine's (Oxford) ; Inner Temple, London ; called to the Bar, 1926 ; B.C.L. degree from Oxford Univ., 1927. Was enrolled as Advocate, Punjab High Court, 1928 ; started practice at Ambala City ; shifted to High Court, March 1931 ; Part time Law Lecturer, Univ. Law Coll., 1933–42 ; practised in Lahore High Court till partition, 1947 ; continued to practice in East Punjab High Court after 1947 ; elected to Lok Sabha, 1951-52 Elections from Ambala-Simla Parliamentary Constituency ; worked actively in several important Select Cttees. *Publications : Law of Contempt of Court and of Legislature ; The Law of Legal Practitioners ; Commentaries on Punjab Acts* and *Child Marriage Restraint Act. Address :* Sector 4, Chandigarh.

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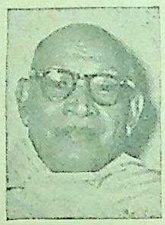
TESEMMA, H.E. Ato Getahoun, Ambassador of Ethiopia in India, since Dec. 1960. *b.* 1911, in Addis Ababa; *Educ.:* Ethiopia, Egypt and Beyrouth. Fought in the guerrilla war during the Italian occupation of Ethiopia; has been decorated for acts of bravery; Director General in the Ministry of Pen, 1941-42; Director General in the Ministry of Interior, 1942-43; First Secy., Imperial Ethiopian Embassy, Washington, 1943-47; Permanent Representative of Ethiopia at the U.N., 1947-48; Vice-Minister of Commerce and Industry, 1948-58; Vice-Minister of Agriculture, 1958; Minister of Public Health, 1958; Ethiopian Ambassador, Moscow, 1959-60; Ethiopian Ambassador to Czechoslovakia, 1960; also participated in many international conferences. Decorations:—Grand Officer of the Colar of Ethiopia; Liberation Medal and Patriot's Medal for acts of bravery during the Italian Occupation. *Address:* Imperial Ethiopian Embassy, 29, Prithviraj Road, New Delhi-11.

THACKER, Prof. Maneklal Sankalchand, Padma-Bhushan (1955); B.Sc. (Eng., (Bristol), D.Sc., D.Litt., D. (Eng.) (*honoris causa* of several Indian Universities), F.N.I., F.I.A.Sc., Fellow, Amer. Inst. of Electrical Engineers, Secretary to the Government of India, Ministry of Scientific Research and Cultural Affairs and Educational Adviser (Technical) to the Govt. of India and Dir.-General, Scientific & Industrial Research, New Delhi, since 1955. *b.* Dec. 3, 1904; *Educ.:* early education in Ahmedabad and higher education in U.K.; B.Sc. (Eng.) and post-graduate research in electro-technology, Bristol Univ. Engineer, Bristol Corporation Electricity Deptt.; Covenanted Officer, Calcutta Electric Supply Corporation, 1932-47; Prof., Power Engg., Indian Inst. of Science, Bangalore, 1947-49; Dir., Indian Inst. of Science, Bangalore, 1949-55; Chairman, British Commonwealth Scientific Cttee., 1961-63; Fellow or member of several learned and professional bodies in India and abroad; has been associated with several National Commissions, Boards and Committees connected with technical education, applied research, industrial management, etc.; associated with various international bodies concerned with scientific and industrial research, energy production, and development of natural resources; has been pres. of several learned societies and professional bodies in India, including the Indian Science Congress; has toured extensively in Europe, U.S.A., U.S.S.R., Canada, South America, Australia and other countries and has led several scientific delegations to international conferences; has been chairman of various development committees for the promotion of machine tools, engineering industry, scientific instruments, etc. *Publications:* Numerous research papers and memoirs in electro-technology, high voltage and power engineering and energy development. *Clubs:* Calcutta Club, Lake Club & South Club, Calcutta; Bangalore Club & Centenary Club, Bangalore. *Address:* 4, Kushak Road, New Delhi-11.

THACKER, Premji Bhavanji, Deputy Minister for Roads, Bldgs. and Ports, Gujarat State, since May 1, 1960 and also Minor Irrigation, Tube Wells and Flood Control from April 1961. *b.* 1911 at Bhuj; *Educ.:* Bhuj (Kutch); passed High Court Pleader's exam., 1934. Set up practice in Bhuj; took active part in social and political activities in Kutch; was closely associated with the activities of Kutch Prajakiya Parishad; revitalised political life in Kutch, 1948–52; was member, Kutch delegation to Home Ministry to discuss the future set-up of Kutch, 1948; was the 1st Gen. Secy. of the Congress in Kutch and also of the Election Cttee. in the 1957 general elections; was one of the advisers of the Kutch Advisory Council, 1948–52; appointed one of the Advisers to the Kutch Govt., 1952; has always been a staunch supporter of displaced persons; did his best to help solve the problems of settling and rehabilitating displaced persons; Dy. Minister for Roads, Bldgs. & Ports, Bombay, till April 30, 1960. *Address:* Bungalow No. 11, Near Deef Nalla, Shahibaugh, Ahmedabad 14.

THACKERSEY, Dr. Smt. Premlila Vithaldas, D. Litt. (Banaras Hindu Univ.) and (S.N.D.T. Univ.), Vice-Chancellor, S.N.D.T. Univ., since 1957. *b.* Jan. 8, 1894; *Educ.:* Studied English and Sanskrit at home with the help of learned shastris and professors. Went on a world tour, 1919; began taking interest in social and educational activities, 1926; member, Central Advisory Board of Education; nominated Vice-Chancellor, S.N.D.T. Univ., 1951; elected, 1957; Chairman: Kasturba Gandhi National Memorial Trust; Prof. J. P. Trivedi Memorial Trust; a prominent worker of Vanita Vishram and Lady Northcote Hindu Orphanage; was hostess of Mahatmaji at Poona; owner of Parnakuti where Gandhiji carried on Harijan fast. *Recreations:* Reading. *Address:* Parnakuti, Yeravda Hill, Poona 6.

THANU Pillai, A. B.A., B.L., Chief Minister, Kerala State, since Feb. 22, 1960. *b.* July 1885 in Trivandrum; *Educ.:* B.A. from Maharaja's Coll., Trivandrum; B.L. from Law Coll., Trivandrum. Set up practice in the first decade of the century and soon made his mark as a lawyer; began to take active interest in public affairs; elected member, Travancore Leg. Assembly, 1928; has been M.L.A., Travancore-Cochin and Kerala ever since with a short break when the State Congress members were banned from contesting the seat; was Pres., Travancore State Congress; Chairman, State Cttee. of the P.S.P.; Chief Minister, Travancore, 1948; Travancore-Cochin, 1954; was Chief Editor, *Kerala Janata.* *Address:* Pattom, Trivandrum 4.



THAPA, H. E. Mr. Nara Pratap, M.A., Ambassador of Nepal in India. *b.* March 25, 1927; *Educ.:* M.A., Calcutta Univ. Foreign Secy., Govt. of Nepal, 1955-61; represented Nepal as leader and delegate to the following international conferences: leader, ECAFE Conference, Bangalore, 1956; leader, trade treaty negotiations with the Govt. of the People's Republic of China, Aug. 1956; delegate to the Colombo Plan Conference, Saigon, 1957; delegate to the independence day celebrations of Malaya, Aug. 1957; Representative to the 13th Gen. Assembly Session of the U.N. and also leader of the Nepalese delegation to the official meeting of the Colombo Plan Conference at Seattle, U.S.A., 1958; leader of the delegation for trade treaty negotiations with the Govt. of India, 1960; accompanied Their Majesties the King and Queen of Nepal on their State visits to Ceylon, 1957, U.S.S.R., 1958 and U.K., 1960. *Recreations:* Big game hunting and fishing. *Address:* Embassy of Nepal, New Delhi.

THAPAR, General Pran Nath, Chief of Army Staff, Indian Army since May 8, 1961. *b.* May 8, 1906; *Educ.:* Govt. Coll., Lahore. Commissioned from Sandhurst, 1926; ten years with the 1st Punjab Regt.; Staff Courses at Quetta and Minley-manor, England; service in Burma, 1941; in the Middle East and Italy, 1943; was Asstt. Military Secy., G.H.Q., India; selected to serve on the Army Reorganisation Cttee.; was for some time a first grade staff officer with the British Hqrs. at Aden; commanded the 1st Bn., 1st Punjab Regt. in Indonesia, 1946; later commanded 161 Indian Infantry Brigade in East Bengal; Director of Military Operations and Intelligence, A.H.Q., India, Aug.-Dec. 1947; officiated as Chief of General Staff for a few months; Military Secy., Feb. 1948-Aug. 1949; Master General of Ordnance, Aug. 1949-Apr. 1950; G.O.C. of a Division, May 1950; Commander of a Corps, Oct. 1953-Dec. 1955; attended Imperial Defence Coll. Course, London, Jan. to Dec. 1956; G.O.C.-in-C., Southern Command, 1957–59, Col., Rajputan rifles; General Officer Commanding-in-Chief, Western Command, 1959–61. *Recreations:* Tennis, Golf. *Club:* Delhi Gymkhana. *Address:* "Army House", 4, King George's Avenue, New Delhi.

THAPAR, Prem Nath, B.A. (Hons.) (Punjab), B.A. (Oxon.), I.C.S., Member for Finance & Administration, Atomic Energy Commission, and Secretary to the Govt. of India (Finance), since June 1958. *b.* April 13, 1903; *Educ.:* Govt. Coll., Lahore; New Coll., Oxford. Joined I.C.S., 1926; worked as Deputy Commissioner, Settlement Officer and Colonization Officer till 1941; Joint Secy., Govt. of India Information and Broadcasting Deptt., 1941-46; Secy., Food and Civil Supplies Deptt., Punjab, 1946-47; Commissioner, Lahore and Jullundur Division, 1947-48; Financial Commissioner, Rehabilitation and Chief Administrator, Chandigarh Capital Project, Punjab, 1948-53; Adviser, National Planning Commission, New Delhi, 1953-54; Secretary to the Govt. of India, Ministry of Food and Agriculture, Dec. 1954-May 1958. Director: Hindustan Chemicals & Fertilizers Ltd.; Sindhri Fertilizers & Chemicals Ltd.; Indian Rare Earths Ltd.; Travancore Minerals Ltd.; Neyveli Lignite Corpn. Ltd. *Address:* Department of Atomic Energy, Apollo Pier Road, Bombay 1.

THIAGARAJAN, Karumuttu, a leading Textile Industrialist of South India; started The Sree Meenakshi Mills, Ltd., 1921; has under his management several textile mills with over 4,00,000 spindles and 1,500 looms. *b.* 1893; *Educ.:* St. Thomas' Coll., Colombo. Joined the "Morning Leader" as an apprentice; reported on labour conditions in the plantations in Ceylon; founded a Labour Union; was its Secy. for seven years; was responsible for improving the terms and conditions of employment of estate labour; joined the Congress, 1914; became Secy., Provincial Congress, 1916; was member, A.I.C.C., 1917; led the agitation against the introduction of Hindi in Tamil Nad, 1937; Founder: Madura Insurance Co., Ltd., Bank of Madura Ltd., Thiagesar Trust for the amelioration of the poor and needy in Tamil Nad; Visalakshi Kalasalai (High School) in Athikadu Thekkur; Thiagarajar Model High School, Madurai; Thiagarajar College, a first grade college at Madurai; Thiagarajar College of Preceptors, Madurai; Thiagarajar College of Engineering, Madurai; Thiagarajar Polytechnic, Salem; Managing Editor, *Tamil Nadu,* a leading Tamil Daily in Madurai. *Address:* 'Meenakshi Nilayam', Thiruparankundram Road, Madurai.

THIMAYYA, General Kodendera Subayya, Distinguished Service Order (1944). Mentioned in Despatches (1944), and Mentioned in Despatches, Kashmir, 1948, Padma Bhushan (1954), Ex-Chief of the Army Staff, Indian Army; Vice-Pres., United Planters' Assoc., since Sept. 1, 1961. *b.* March 31, 1906; *Educ.:* Bishop Cotton Boys' School, Bangalore; Prince of Wales' Royal Indian Mily. Coll., Dehra Dun; Royal Mily. College, Sandhurst, England. Commissioned into Indian Army, 1926; promoted Lt.-Col., 1945; promoted Brigadier in command of a Brigade with 26 Div.; commanded 268 Indian Infantry Brigade in Japan as part of occupation forces in Japan, 1946; Commander, Indian troops in Kashmir, 1948–50; Commandant, National Defence Academy, Dehra Dun, 1950–51; appointed Military Adviser to U.N. Indian Delegation in Paris, 1951–52, in connection with Kashmir;

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Q.M.G., A.H.Q., 1951–53; was Chariman, N.N.R.C., Korea; was G.O.C.-in-C., Western Command; G.O.C.-in-C., Southern Command and G.O.C.-in-C., Eastern Command; Officiated as Chief of the Army Staff, Indian Army, March 8, 1957–May 8, 1957. *Recreations:* Riding, Sailing, Golf, Shikar. *Club:* Delhi Gymkhana Club, New Delhi. *Address:* "Sunnyside", Mercara, Coorg District, Mysore.

THOMAS, A. M., B.A., B.L., Deputy Minister for Food and Agriculture, Govt. of India, since May 1957. *b.* June 4, 1912; *Educ.:* St. Thomas' Coll., Trichur; Maharaja's Coll., Ernakulam; Law Coll., Trivandrum. Set up practice in Ernakulam; elected to the Cochin Council, 1948; member, Travancore-Cochin Assembly, 1949-52; was Speaker, 1951; elected to Lok Sabha, 1952; again in 1957, led Indian delegation to U.N. Sugar Conference in Geneva in 1958; led also Food Dept. delegation to Canada and U.S.A. in 1960. *Address:* Deputy Minister for Food, New Delhi.

THOMAS, A. V., M.L.A., Madras, Business man, *b.* Aug. 8, 1891; Managing Director, A. V. Thomas & Co. Ltd., and Allied Concerns; controls Planting (Tea, Coffee and Rubber), Engineering, and other companies with a total capital of about four crores; elected to Parliament in the General Elections, 1952; returned to Madras Leg. Assembly in the Gen. Elections, 1957, Chairman, Cashew Export Promotion Council. *Clubs:* Cosmopolitan and Presidency, Madras; Gymkhana, Ooty; Commonwealth Society, London; Constitution Club, Roshanara Club and National Sports Club of India, Delhi; Madras Race Club. *Address:* 2/21, First Line Beach, P.B. No. 1603, Madras 1.

THOMSON, Ian Gordon, Manager, the Chartered Bank, Calcutta, since 1958, Chairman, Allahabad Bank Ltd., since 1960. *b.* April 3, 1914; *Educ.:* Robert Gordon's Coll., Aberdeen, Scotland. Joined the Union Bank of Scotland Ltd., 1930; joined The Chartered Bank of India, Australia & China, London, now the Chartered Bank, 1934; service with the Chartered Bank, Rangoon, 1938-41; Calcutta, 1945-46; Bombay, 1947-49; Singapore, 1950-53; New York, 1954-57; Military service with Burma Army, 1941-45. *Recreations:* Golf. *Clubs:* Bengal Club, Tollygunge Club, Royal Calcutta Golf Club, etc. *Address:* 5, Raja Santosh Road, Alipore, Calcutta.

TIDKE, Narendra Mahipati, B.A. (Hons.) (Nagpur), LL.B., Deputy Minister, Rural Development, Maharashtra State, since May 1, 1960. *b.* Nov. 2, 1920; *Educ.:* Nagpur. Was Gen. Secy. and then Pres., M. P. Students' Congress; Organising Secy., All India Students Congress; Chairman, Steering Cttee., 1st All India Session of National Union of Students; Secy., Youth wing of Nagpur Pradesh Congress Cttee.; has also organised Kisan conferences & camps in Nagpur Dist.; Participated in 1942 freedom struggle and was in jail; was General Secy., Nagpur Pradesh I. N. T. U. C.; Pres.: Rashtriya Mill Mazdoor Sangh, Nagpur; Ballarpur Paper Mill Mazdoor Sabha; was Secy., Indian National Textile Workers' Federation; represented Indian Workers at 39th Session of International Labour Organisation at Geneva & participated in Study Conference at Oxford, 1956; was one of the Secretaries of Congress State Assembly Party in Old M. P.; is member, Nagpur Univ. Court and Pres. of a leading Educational Society of Nagpur. *Address:* Sachivalaya, Bombay.

TILAK, Raj, B.Sc., I.R.S., Narcotics Commissioner to the Govt. of India, since 1957. *b.* Oct. 23, 1915; *Educ.:* Delhi Univ. Joined Central Excise Deptt., 1938; Supdt. Central Excise, 1941-46; Asstt. Collector, 1946-55; Deputy Narcotics Commssr., Govt. Opium and Alkaloid Works, Ghazipur (U.P.), 1955-57; Govt. of India delegate to: XIII Session of the U. N. Commission on Narcotic Drugs at Geneva, 1958; South East Asian Regional Conference convened by the International Criminal Police Organisation Paris, at Lahore, Jan. 1960; was All-India Junior Tennis champion; Delhi Univ. Tennis champion; won several Delhi State Tennis championships. *Clubs:* Narcotics Deptt. Recreation Club, Gwalior; South Club, Calcutta. *Address:* 20, The Mall, Gwalior.

TILAK, Dr. Smt. Shalinibai Vishnu, M.B.B.S. (Bom.), F.R.C.S. (Edin.), Consulting Surgeon, Hony. Obstetrician and Gynaecologist, Sassoon Hospitals, Cantonment General Hospital and Professor, B. J. Medical Coll., Poona. *b.* at Sholapur; *Educ.:* New English School and Fergusson Coll., Poona; Seth G. S. Medical Coll., Bombay; Royal Infirmary, Edinburgh; took F.R.C.S., 1938. Practised at Matunga, Bombay, 1938-41; was Hon. Obstetrician and Gynaecologist, Wadia Maternity Hospital; Reader and Professor, Medical Coll., Agra, 1941-45. *Address:* Tilak Surgical and Nursing Home, 794, Sadashiv Peth, Near Vishrambaug-Wada, Poona 2.

TRIPATHI, Kamalapati, Shastri (Kashi Vidyapith), Ex-Minister for Home, Education, Information, Govt. Estates and Harijan Welfare, Uttar Pradesh. *b.* Bhadra Shukla 5, 1962 (Vikram); *Educ.:* Central Hindu School and Kashi Vidyapith. Took to Journalism; was Editor, *Aj* and *Sansar* (Hindi dailies) for more than two decades; took active part during the freedom movement; courted jail in 1921, 1930, 1932, 1933, 1940 and 1942; awarded the Mangala Prasad Puraskar for *Bapu Aur Manavta*, an authoritative book on Gandhian philosophy; elected Pres., Samaj Shastra Parishad in the Bombay Session of the Hindi Sahitya Sammelan, 1946; presided over Prantiya Hindi Sahitya Sammelan, 1947; elected M.L.A., U.P., 1936, 1946, 1952 and 1957; was member, Constituent Assembly and one of the members of Constitution Translation Sub-Cttee. (Hindi); Minister for Irrigation and Information in Pandit Pant's Ministry; after the Second General Elections became Minister for Home, Education and Information. *Publications:* Hindi: *Maurya Kaleen Bharat; Islami Duniya ka Sartaj; Cheen Aur Chiang; Bapu Aur Manavta; Bapu Aur Bharat; Bandi ki Chetana; Patra Aur Patrakar; Yug Purush and Bapu Ke Charnon Men. Address:* Aurangabad; Varanasi.

TRIPATHI, Ramnaresh, Hindi Writer. *b.* Falgun Sukla 13, Vikram Samvat 1946 (March 4, 1890); *Educ.:* Studied Sanskrit, Hindi, Urdu, Gujarati, Marathi, Bengali, Rajasthani and English literatures extensively. Took active part in propagation of Hindi under Gandhiji; Prachar Mantri, Hindi Sahitya Sammelan, Allahabad, 1918–21; joined N.C. movement and was jailed, 1921; began research in Folklore songs of different parts of the country; made special study of Tulsidas Ramayan and research regarding lives of poets. *Publications:* Translation and commentary on Ramayan and a series of collection of poems of different poets with their life stories; Important books —*Hindi Mahabharat* (1916); *Milan Kavya* (1920); *Pathik Kavya* (1920); *Swapna Kavya* (1928). 7 Volumes of *Kavita Kaumudi*, Poet-wise collection of poems and life sketches of poets (1916-28); *Ram Charit Manas, Tulsidas, aur unki Kavita* (1924); *Bal Katha Kahani*—10 parts; *Pekhan Paisa Parmeshwar, Jayant, Vafati Chacha, Kanya Ka Tapowan, Ba Aur Bapu* (Drama). *Tarkash, Aakha Dekhi Kahaniyan. Address:* P.O. Koripur, Jaunpur, U.P.

TRIPATHY, Sadasiba, Minister for Revenue, Orissa State, since June 1961. *b.* April 1910; *Educ.:* High School, Jeypore, Dist. Koraput. Joined Congress in the early thirtees and was elected to the Orissa Leg. Assembly, 1937; was M.L.A. continuously for 23 years; elected for the fifth time on Congress ticket from Omerkote Constituency; Revenue Minister, 1948-56; was responsible for piloting and implementing the Orissa Estates Abolition Act; resigned from the Cabinet, Sept. 1956; resigned from the Assembly immediately after the formation of the Coalition Ministry; was member, A.I.C.C., 1938-55; was Exec. Member, Pradesh Congress Cttee., 1938-55; imprisoned for one year during the Individual Satyagrah Movement; detained during Quit India Movement, 1942-45; Secy., Orissa Bhoodan Jagna, 1959-61. *Address:* Bhubaneswar.

TRIVEDI, Sir Chandulal Madhavlal, K.C.S.I. (1945), Kt. Bach. (1945), C.S.I. (1941), C.I.E. (1935), O.B.E. (1931), LL.D. (Honoris Causa, Punjab Univ.), Doctor of Letters (Honoris Causa), Andhra Univ., Padma Vibhushan, 1956, Member, Planning Commission, Govt. of India. *b.* July 2, 1893; *Educ.:* B.A. from Elphinstone College, Bombay, 1913; St. John's College, Oxford. Entered I.C.S., 1917; Under-Secy. to C.P. & Berar Govts.; Dy. Secy. and Offg. Jt. Secy. to Govt. of India, Home Deptt.; Commissioner in various divisions in C.P. & Berar; Chief Secy. to Govt., C.P. and Berar; Addl. Secy., Deptt. of Communications, Govt. of India, March-June 1942; Secy., War Deptt., Govt. of India, New Delhi until 1946; Governor of Orissa, April 1946 to August 1947; Governor of Punjab, Aug. 15, 1947-March, 1953; Governor, Andhra State, Oct. 1, 1953-Oct. 31, 1956; Governor of Andhra Pradesh, Nov. 1, 1956-July 1957. *Address:* New Delhi.

TRIVEDI, Vishnuprasad Ranchhodlal, M.A. (Bombay), Gujarati Critic; Hon. Prof. of Gujarati, M.T.B. College, Surat. *b.* July 4, 1899, at Umreth, Dist. Kaira; *Educ.:* Thasra, Nadiad and Ahmedabad. Retd. Life Member, Sarvajanik Education Society, Surat; twice sectional Chairman, Gujarati Sahitya Parishad; Thakkar Vassonji Madhavji Lecturer of Bombay Univ.; G. H. Tripathi Lecturer, Gujarat Univ.; Fellow and member of the Academic Council, Gujarat Univ.; Member of the General Council, Sahitya Akademi, Delhi. *Publications: Vivechana; Parishilan; Arvachin Chintanatmak Gadya. Address:* M.T.B. College, Surat.

TYABJI, Badruddin Faiz Hasan Badruddin, B.A. (Honours). Special Secy., Ministry of External Affairs since Jan. 1961. *b.* Nov. 12, 1907; *Educ.:* St. Xavier's School and College, Bombay; Balliol College, Oxford. Passed the I.C.S. in London, 1931; served in the Punjab as Asstt. Commissioner, Under-Secy., Finance, Home & Political, 1932–38 & Dy. Commr., 1940–42; Under-Secy., Govt. of India, Defence Department, 1938–39; Controller of Supplies, Govt. of India, Karachi and Bombay, 1942-44; Dy. Secy., Govt. of India, Planning and Development, 1944-46; Dy. Secy. and Joint Secy., Constituent Assembly, Secretariat and Ministry of External Affairs and Commonwealth Relations, 1946-48; Chargé d'Affaires, Indian Embassy, Brussels, Belgium, 1948-50; Jt. Secy., Ministry of External Affairs, 1950-52; Commonwealth Secy., 1952–53; Ambassador in: Indonesia, 1954–56; Iran, 1956–58; Germany, 1958–60. *Clubs:* Delhi Gymkhana Club; Willingdon Sports Club, Bombay. *Address:* C/o Ministry of External Affairs, New Delhi.

TYABJI, Mrs. Khadija Shuffi, Ex-J.P., Hony. Presidency Magistrate; ex-M.L.A., Bombay State. *b.* 1885. An elected member of the Municipal Corporation and the first elected Muslim lady member of the Schools Committee; a member of the Schools Committee for several years, its Chairman, 1934; first Commissioner, Municipal Girl Guides; was State Commissioner (Guides), The Bharat Scouts and Guides; presided at the Bombay Presidency Muslim Ladies' Educational Conference, Poona, 1926; Chairman, Reception Cttee. of the Bombay Constituent Conference of All-India Educational and Social

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Reforms, 1930; was Vice-Chairman, National Council of Women in India; was Chairman, Local Committee of the All-India Conference on Educational and Social Reforms; Chairman, Red Cross Executive, 1928; Vice-President, Social Service League; Chairman, Mahila Seva Mandal; was Chairman, now member, Port Haj Committee; founded a Muslim Purdah Nursing Division, first of its kind in the world; appointed Associate Serving Sister, Overseas Brigade, St. John Ambulance, 1937; Chairman, Albless and Cama Hospital Advisory Board and is also connected with the following institutions for many years—Govt. Urdu Text Book Committee; Infant Welfare Society; The Bombay Mothers and Children Welfare Society; Society for the Protection of Children in Western India; The National Baby Week; Executive Committee, Governors' Hospital Fund; Advisory Committee, J. J. and Allied Hospitals; Seva Sadan Council; Bombay Presidency Women's Council; as Chairman, Flag Day Committee, collected Rs. 22,000 in one day for the Anti-Tuberculosis Fund; President, All-India Educational Conference, Women's Section, Poona, 1940; member, War Gifts Fund, Ladies' Committee; awarded Kaiser-i-Hind Silver Medal, 1935; Gold Medal, 1941; appointed member of Health Survey and Development Committee, Government of India, Nov. 1943; was Pres., Seva Sadan Society. *Address:* Khatau Mansion, Oomer Park, Warden Road, Bombay 26.

TYAGI Mahavir, M.P., Ex-Minister for Defence Organisation, Govt. of India. *b.* 1900, Dhabarsi Village, Moradabad Dist. (U.P.); *Educ.:* Privately. Has been a staunch Congressman; courted jail eleven times for Congress activities: member: A.I.C.C.; Constituent Assembly of India, 1946-49; Provisional Parliament, 1950; ex-member, U.P. Leg. Assembly; organised Tyagi Police, U.P., Aug. 1947; returned to the Lok Sabha from Dehra Dun District-cum-Bijnor Dist. (North-West)-cum-Saharanpur Dist. (West) Constituency, U.P. in the general elections. Minister of Revenue and Expenditure, Govt. of India, 1951-53; Chairman, Direct Taxes Administration Enquiry Committee. *Address:* C/o Secretary, Lok Sabha, New Delhi.

UKIL, Ranada, Painter; Lecturer, Women's College, Banaras Hindu Univ. and Director, Ukils' School of Art, Banaras. *b.* Sept. 5, 1900; *Educ.:* Govt. Coll. of Art at Calcutta and Royal College of Art, London; was Govt. of India scholar; was commissioned twice to do the Mural Painting in India House, London; their Majesties George V and Queen Mary, and Sir William Rothenstein were greatly impressed by his work; was honoured by Queen Mary who bought his painting "Shahjahan's Dream of the Taj" in an Arts Exhibition in New Bond Street, London. *Address:* Ukil School of Art, Bhelupura, Varanasi (Banaras).

UMAMAHESWARAM, Mr. Justice Kondagunta, B.A., B.L., Judge, Andhra Pradesh High Court, Hyderabad, since Nov. 1, 1956. *b.* June 4, 1903; *Educ.:* Presidency Coll. and Law Coll., Madras. Joined the Madras Bar, July 27, 1925; member, Madras Bar Council, 1947-53; Judge, Madras High Court, Nov. 26, 1953-July 1954; transferred to Guntur when the High Court of Andhra was formed, July 1954; Judge, Andhra High Court, 1954-56. *Address:* Andhra Pradesh High Court, Himayatnagar, Hyderabad.

UMMER KOYA, P. P., M.A., Minister for Local Administration, Fisheries & Sports, Kerala State, since Feb. 22, 1960. *b.* July 1, 1922; *Educ.:* M.A. in Economics from Madras Univ. Entered politics and joined the Congress, 1946; was Pres., D.C.C., Kozhikode; was elected to the Madras Leg. Council as the representative of the local bodies; elected to the Kerala Leg. Assembly from Mancheri constituency and was Dy. Leader of the Opposition in the Assembly. *Recreations:* Reading. *Clubs:* Cricket Club; Football Association; Dramatic Club. *Address:* Park View, Trivandrum.

UNTWALIA, Mr. Justice Nandlall, B.A., B.L., Puisne Judge, High Court, Patna, since Nov. 4, 1958. *b.* Sept. 2, 1915; *Educ.:* Sitamarhi H. E. School; G. B. B. Coll., Muzaffarpur; Univ. Law Coll., Calcutta; passed B.A., 1937; B.L., 1940. Practised as a Pleader at Muzaffarpur, from Nov. 1940; enrolled Advocate, March 1944; shifted practice to Patna, March 1947; Addl. Judge, Patna High Court, Jan. 2—Nov. 3, 1958. *Recreations:* Chatting; Reading. *Clubs:* Bankipore Club, Patna. *Address:* Kadamkuan, Patna.

UPADHYA, Mr. Justice Balram,* M.A., LL.B., Judge, High Court of Judicature, Allahabad, since March 1955. *b.* June 18, 1901; *Educ.:* Govt. High School, Sagar; Model High School, Jabalpur; Banaras Hindu Univ. Was a part-time Prof. of Law, Banaras Hindu Univ. for about three years; joined the Bar at Banaras, July 1925; shifted to the High Court at Allahabad, Dec. 1943; was a leading taxation lawyer in northern India; has been the Company Judge in the Court for over three years; took part in social and cultural activities at Banaras; was member, Managing Cttee. of the Kashi Nagari Pracharni Sabha and Pres., Nagari Natak Mandali for many years; was a member, Court, Exec. Council and Senate of the Banaras Hindu Univ. for several years. *Address:* Tagore Town, Allahabad.

UPADHYAYA, Pt. Deendayal, B.A., L.T., General Secretary, Bharatiya Jana Sangh, since 1953. *b.* Oct. 10, 1917, at Farah village, Dist. Mathura, U.P.; *Educ.:* Matriculated from Sikar, Jaipur State; Intermediate (Arts) from Birla Coll., Pilani; graduated from S. D. Coll., Kanpur, 1939; L. T. from Govt. Training Coll., Allahabad, 1942. Joined the Rashtriya Swayamsewak Sangh; became R.S.S. Organiser, 1942; Managing Director, Rashtra Dharma Prakashan Ltd., Lucknow, 1947-52; Joint Provincial Organiser, R.S.S. in U.P., 1945-51; General Secy., Bharatiya Jana Sangh, U.P., 1951-53. *Publications:* in Hindi: *Jagadguru Shankaracharya; Chandragupta Maurya; Mahan Vishwasghat; Bharatiya Arthniti;* in English: *The Two Plans: Promises, Performance and Prospects.* *Recreations:* Reading, Writing. *Address:* Bharatiya Jana Sangh, Ajmeri Gate, Delhi 6.

UPPAL, Dr. Badri Nath, Ph.D. (Iowa), Fellow, Indian Academy of Sciences, National Institute of Sciences; M.B.E. (1945); Padma Shri (1959), Chairman, Wasteland Survey and Reclamation Cttee., Ministry of Food and Agriculture, Govt. of India, since Aug. 1959; Agricultural Adviser, Punjab Govt. since July 1960. *b.* August 6, 1899; *Educ.:* Punjab Univ.; Iowa State Coll. of Agriculture (U.S.A.); Rothamsted Experimental Station (England); Rockefeller Inst. for Medical Research (Princeton), Wisconsin Univ. Research Fellow, Iowa Agric. Exp. Station; Director of Agriculture (Research and Education), Director of Agriculture, Bombay till Aug. 1952; Agricultural Commr., Govt. of India, 1952-59. *Publications:* Scientific papers. *Address:* Ministry of Food & Agriculture (Deptt. of Agri.), Queen Victoria Road, New Delhi; Agriculture Dept., New Secretariat, Chandigarh, Punjab.

VAIDIALINGAM, Mr. Justice C. A., B.A., B.L., Judge, High Court, Kerala, since March 26, 1957. *b.* June 30, 1907; *Educ.:* P. S. High School, Mylapore; Presidency Coll., Madras; Law Coll., Madras. Enrolled as Advocate, High Court, Madras, Aug. 13, 1931; co-opted as Member, Bar Council, 1948; elected to the Bar Council, 1950 and 1955; constructed and endowed a women-children ward in the Govt. Hospital at Chittur; Govt. Pleader, Madras, Nov. 1953-March 1957; Amicus Curiae Counsel in the enquiry in the Ariyalur Railway accident, 1956. *Address:* 'Sharada Vilas', Thevara Road, Ernakulam-1; Anantha Sadan, 40-C, Luz Church Road, Mylapore, Madras.

VAIDYA, Murarji Jadavji, B.Com., F.R.E.S. (Lond.), J.P., Industrialist; also Hon. Consul for the Federal Republic of Austria. *b.* Oct. 2, 1908; *Educ.:* Tutorial High School and Sydenham Coll. of Commerce & Economics, Bombay. Established the Bombay Silk Mills, 1932; Leader: Exploratory Mission sponsored by the Indian Council of Foreign Trade, to Egypt, Sept. 1953; Chairman: All India Manufacturers' Organisation, 1953-56; Indian Council of Foreign Trade; Vice-Chairman: Silk and Art Silk Mills Assoc. Ltd., 1941-55; Silk and Art Silk Mills Research Assoc., 1950-55; Vice-Pres.; Central Silk Board and its Standing Cttee.; Pres.: Bombay Productivity Council, 1959-60; Indian Merchants' Chamber, 1956; Vice-Pres.: Forum of Free Enterprise; Indo-American Society; Visited U.S.A. at the invitation of Far East America Council of Commerce and Industry, New York, Sept.-Oct., 1958; led the Indian Delegation to the International Sericulture Commission held in Spain, 1959. *Publications:* Monographs: *High Rate of Exchange, Office Organisation in Bombay, Industrialism in India,* etc. *Address:* Jadavji Mansions, 3, Cuffe Parade, Bombay 5.

VAIDYA, Vijayarai Kalyanrai, B.A. (Engg.) (Hons.) (Bombay), Gujarati Critic, Author & Literary Journalist. *b.* April 7, 1897; *Educ.:* Wilson Coll., Bombay; Samaldas Coll., Bhavnagar; passed B.A. (Hons.), 1920. Bank Cashier, 1920-21; Editor: *Chetan,* 1920-23; *Kaumudi* (1924-35); *Manasi,* since 1935; Prof. of Gujarati, M.T.B. Coll., Surat and Commerce Coll., Bhavnagar, 1937-52. *Publications: Gujarati Sahityani Ruprekha* and 20 other books. *Address:* 1582, Krishna Nagar, Bhavnagar.

VAIRALE, Madhusudan Atmaram, B.A., LL.B., Deputy Minister for Agriculture, Maharashtra State, since May 1, 1960. *b.* Nov. 11, 1928; *Educ.:* Akola and Nagpur. Left school to join 1942 movement; Jailed four times, 1942-45; was Sub-Editor, *Mathrubhumi,* Marathi daily; rusticated from school for political activities; elected Gen. Secy.: M.P. Students Congress; M.P. Youths Congress; won many trophies and prizes in Marathi and Hindi debates in the Nagpur Univ.; prosecuted his studies from earnings by writing to newspapers and magazines and from A.I.R.; elected M.L.A., Bombay with great majority; was Vice-Pres., Vidarbha P.C.C.; Gen. Secy., Bombay Leg. Congress Party; member: Nagpur Univ. Court; State Advisory Board for Territorial Army, N.C.C. & Home Guards; Indian Youth delegation to U.S.S.R., China & Viet Nam. *Publications:* 100 short stories and many articles on national and international politics. *Address:* Sachivalaya, Bombay 1.

VAJIFDAR, Shera Noshir (*nee* Shera Edulji Marawala of Navsari), M.Com., Municipal Councillor, Bombay, Justice of the Peace, member, Maharashtra State Housing Advisory Cttee. and Board of Trustees, Wadia Maternity Hospital, Jt. Hon. Secy., All India Animal Welfare Assoc. and Bombay Tenants' Assoc. *b.* Sept. 21, 1915 at Bhusaval; *Educ.:* Sydenham Coll., Bombay; wrote thesis on 'Industrial Labour in India' for M.Com. degree; first Parsi lady to receive M.Com. degree of Bombay Univ. Was appointed Research Scholar by Bombay Univ. for studies in Ph.D. in 1943-45; was actively connected with Trade Union movement, 1945-50; took keen interest in welfare of the blind, Congress activities, Forward Bloc and was a close associate of Subhas Chandra Bose; was Hon. Secy., Social Workers' Society and Hon. Treasurer, Citizens' Republic Day Celebrations Cttee.; was delegate to International Planned Parenthood Conference and International Child

* Was due to retire in June 1961.

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Welfare Study Conference; ex-Pres., Progressive Group; ex-Chairman, Commerce Graduates' Assoc.; is Pres.: Fort Colaba Group of Social Workers; Navsari Parsi Assoc.; Jt. Hon. Secy., Sir J. J. Centenary Self Help Fund; member: St. George's Hospital Advisory Cttee.; Education Cttee., Law, Revenue and General Purposes Cttee. and Garden and Markets Cttee. of the Bombay Municipal Corporation; member, Managing Cttee., National Assoc. of the Blind, Mayor's Relief Fund Cttee., Budha Jayanti Charity Cttee., Bombay Sanitary Assoc., Social Education Cttee., Iran League, Bombay Parsi Assoc. and Indo-American Society. *Address:* Sheri House, Gunbow Street, Fort, Bombay 1.

VAJPAYEE, Atal Bihari, M.A., M.P. (Lok Sabha), Secy., Bharatiya Jana Sangh, since 1953; Political worker. *b.* Dec. 25, 1927; *Educ.:* B.A. from Victoria Coll., Gwalior, 1945; M.A. (Political Science) from D. A. V. Coll., Kanpur, 1947. Secy., Arya Kumar Sabha, Gwalior, 1939; joined R.S.S., 1940; Secy., Students' Federation, Gwalior, 1941; courted jail in the freedom movement of 1942; whole-time R.S.S. worker from 1947; joined Bharatiya Jana Sangh since its inception, 1951; elected to Lok Sabha from Balrampur (U.P.), 1957; Leader of Jana Sangh's Parliamentary Wing; member of several Parliamentary Cttees. like Informal Consultative Cttee. on External Affairs, the All-Party Food Cttee., etc.; jailed in the U.P. Food Agitation, 1958; Editor: *Swadesh*, daily, Lucknow, 1949; *Veer Arjun*, daily, Delhi, 1952-53; *Pancha Janya*, weekly, Lucknow, 1949-50; *Rashtra Dharma*, monthly, 1948-49. *Publications:* A number of booklets and tracts expounding the Jana Sangh's viewpoint on various issues. *Recreations:* Travelling, poetry, cooking, kabaddi. *Address:* 30, Dr. Rajendra Prasad Road, New Delhi.

VAJPEYI, Ambikaprasad, Sahitya Vachaspat (1942), Hindi Writer. *b.* Dec. 30, 1880; *Educ.:* Kanpur and Imperial Library, Calcutta. Sub-Editor, *Hindi Bangbasi*, Calcutta, 1905; Lecturer in Hindi, Bengal National Coll., Calcutta, 1909; Editor, *Bharatamitra*, 1911; Founder and Editor, *Dainik Bharatamitra*, 1912; Founder and Editor, *Swatantra*, 1920; *Examiner*, Calcutta Univ., 1928-45; Pres., Hindi Sahitya Sammelan, 1939; member, Leg. Council, 1952-58. *Publications: Persian Influence on Hindi*, Calcutta; Hindi Edition of the above; *Hindurajya Sastra; Abhinava Hindi Viakaran*, etc. *Address:* Nazarbagh, Lucknow.

VAKHARIA, Jayantilal G., Managing Partner, Standard Silk Mills, Surat, with branch at Takwadi, Resham Bazar, Kalbadevi, Bombay. *b.* Aug. 15, 1913 at Surat; *Educ.:* Sarvajanik High School, Surat; M. T. B. Coll., Surat (F.Y.A.). After leaving the college joined the Surat Silk Goods Mills where his father was a partner, 1933; acquired thorough technical knowledge in various sections — preparatory, loom, weaving, dyeing, bleaching, finishing etc., and labour and management; Works Manager and Office Manager, 1936-48; started his own Mills the Standard Silk Mills, at Vertal Devdi Road, Lal Darwaja, 1950; erected the factory building and installed new machinery for dyeing, finishing, modern hot air sizing, padding, polymerising, flock printing machines; in 1955 visited the continent for higher technical studies in the production of rayon and nylon fabrics, the latest being the flock and pigment Vat printing and screen printing; Pres., Surat Chamber of Commerce; ex-Pres., Rotary Club of Surat; Vice-Pres., Ashaktashram, Surat; Director, Silk & Art Silk Mills Assoc., Ltd., Bombay; member, Standing and Administrative Cttees. of the Silk and Rayon Textiles Export Promotion Council, Bombay. *Recreations:* Badminton, Table Tennis. *Clubs:* Rotary Club of Surat; Lodge Hamilton No. 584 S.C. *Address:* Lal Darwaja, Vertal Devdi Road, Surat; *Residence:* Navapura, Kurwa Road, Surat.

VAKIL, Chandulal Nagindas, M.A. (Bom.), M.Sc. (Econ.) (London), Economist. *b.* Aug. 22, 1895; *Educ.:* Bombay and London. On the staff of the University School of Economics and Sociology, Bombay, 1921-56; Director of the School, 1930-56; Director, UNESCO Research Centre on the Social Implications of Industrialisation in Southern Asia, Calcutta, 1956-60; Pres., Indian Economic Conference, Patna, 1934; Economist to the Planning Dept., Govt. of India, 1945-46; Pres., Indian Agricultural Economic Conference, Trivandrum, 1952; Member, Experts Cttee., I.L.O., July 1956; member, Panel of Experts on Industrial Management, U.N., Sept. 1957. *Publications: Financial Developments in Modern India*, 1860-1924 (1925); *The Falling Rupee* (1943); *The Financial Burden of the War on India* (1943); *Economic Consequences of Divided India* (1950); *Planning for a Shortage Economy* (1952); *Economic Survey of Saurashtra* (1953); *Planning for an Expanding Economy* (1956) and others. *Recreations:* Walking. *Address:* 14, Kalpana, 96, Marine Drive, Bombay-2.

VALA: Thakore Saheb Raol Shree Gambhirsinhji, Thakore Saheb of. *b* April 25, 1889; *Educ.:* Harrow and Clare College, Cambridge; Imperial Cadet Corps, Dehra Dun. Succeeded to the *Gadi*, June 5, 1943; acceded to the Union of India, Aug. 27, 1947; entered into the Covenant for the formation of the United State of Saurashtra, Jan. 22, 1948. *Heir: s.* Yuvaraj Shree Pravinchandrasinhji, *b.* October 15, 1925. *Address:* Palace, Valabhipur, Gujarat State.

VARADARAJAN, Dr. M., M.A., M.O.L., Ph.D. (1947), Tamil Essayist; Professor of Tamil, Pachaiyappa's College, Madras. *b.* 1912; *Educ.:* Madras Univ. Chairman, Board of Studies in Tamil, Sri Venkateswara Univ., Tirupati; Member: Academic Council, Board of Studies and Senate, Univ. of Madras; Board of Studies in Tamil, Annamalai Univ.; Board of Studies in Tamil, Mysore Univ.; Sahitya Akademi, Delhi; Vice-Pres., Academy of Tamil Culture, Madras 30; got the Award of the State Govt., Madras during the centenary celebrations of the 1857 uprising, in recognition of his services to Tamil literature. *Publications:* Author of 8 novels, 2 short-story collections, 3 biographies, 15 works of literary criticism, etc. *Address:* Chellammal Street, Madras 30.

VARDE, Vaman P., B.Com., J.P. & Hon. Presidency Magistrate since 1956; Business man; Director, Industrial Finance Corporation of India, since 1952; Partner, R. R. Nalar & Co., Share, Stock & Finance Brokers. *b.* Dec. 2, 1895; *Educ.:* Sydenham Coll. of Commerce, Bombay. Hon. Managing Director, Bombay State Co-operative Bank Ltd., 1946-57; Founder Director: Bank of Maharashtra Ltd.; Chairman, since 1953; Chairman: Saraswat Co-op. Bank Ltd., since 1937; Swastik Safe Deposit Investments Ltd., since 1939; Director: Kirloskar Bros. Ltd.; Kirloskar Oil Engines Ltd.; Mysore Kirloskar Ltd.; Ugar Sugar Works; Local Board, Reserve Bank of India, 1949-53; Zonal Board, Life Insurance Corporation of India; Vice-Chairman, Bombay State Co-op. Union; Hon. Treasurer, Social Services League; member: Bombay Stock Exchange, since 1937; attended: International Co-operative Congress as Indian Delegate, 1948; International Conference of Agriculture and Credit at Berkley (U.S.A.), 1952. *Clubs:* Radio Club, Orient Club. *Address:* 'Matrismriti', off Turner Road, Bandra, Bombay-50.

VARMA, Bhagwati Charan, B.A., LL.B., Hindi Writer. *b.* Aug. 30, 1903; *Educ.:* Christ Church Coll., Kanpur; Allahabad Univ. Published his first poem in 'Pratap', Kanpur, 1918; set up practice as a lawyer at Kanpur, 1928; settled at Allahabad as a writer, 1931; joined Film Corporation of India, Calcutta, 1937; resigned, 1938; started a Hindi Weekly from Calcutta, 1940; had to close the weekly due to political reasons, Feb. 1942; was with the Bombay Talkies till 1945; took to freelancing; Editor-in-Chief, 'Navajeevan', Lucknow, Feb.-Dec. 1948; joined All India Radio as Hindi Adviser, Lucknow, 1950, transferred to Delhi, 1953; returned to Lucknow, 1956; resigned and settled down as professional Writer, 1957. *Publications:* Novels: *Patan*, 1930; *Chitralekha*, 1933; *Teenvarsh*, 1936; *Terhemerhe Raste*, 1946; *Akhiri Daon*, 1951; *Apne Khilone*, 1957; *Bhoole-Bisre Chitra*, 1957; Poetry: *Madhukan; Prem Sangeet; Manav; Tripathga;* Plays: *Bujhtha Deepak; Rupyatumhe Khagaya; Vasavdatta;* Essays: *Hamari Uljhan. Recreations:* Tennis, Hiking. *Address:* 37, Bisheshwarnath Road, Lucknow.

VARMA, Dhirendra, M.A. (Allahabad), D. Litt. (Paris), Hindi Writer. *b.* May 17, 1897; *Educ.:* Dehra Dun, Lucknow, Allahabad and Paris. Patron, Bharatiya Hindi Parishad; Univ. Professor, Allahabad Univ. 1924-59. *Publications: History of Hindi Language* (1933)—Hindi; *La Langue Braj* (1935)—French; *Brajbhasa Grammar* (1937)—Hindi; *Letters from Europe* (1940)—Hindi; *Vichardhara*—Collection of essays (1944)—Hindi; *Braj Bhasha* (1954); *Sursagarsar* (1954); *Madhyadesha* (1955); *My College Diary* (1958); *Hindi Sahitya Kosha* (1958); *Hindi Sahitya* (1959); *Hindi Vishvakosha*, Vol. I, 1960; *Prachin Hindi Patra Sangraha* (1960). *Address:* Chief Editor, Hindi Encyclopaedia, Nagri Pracharini Sabha, Varanasi.

VARMA, Paripurnanand, Vice-Pres., UNO.'s First World Congress on Crime Prevention, Geneva; Pres.: All-India Crime Prevention Society, Lucknow, since 1949: Chairman, Jail Reforms Evaluation Cttee., U.P. Govt.; Director, L. R. Engineering Works Ltd., Bombay & Kanpur; Pres., U.P. Art & Culture Society; member, Labour Welfare Advisory Board, U.P. *b.* Feb. 7, 1907; *Educ.:* Graduated from Kashi Vidyapith, Varanasi in History, Economics and Politics. Professor of English, Prem Maha Vidyalaya, Brindaban, 1927; Editor, *Prem*, Brindaban, 1927-28; Joint Editor, *Lokmat*, Jabalpur, 1930-32; Editor, *Prema*, 1932-33; Manager, Bharti Bima Ltd., Banaras, 1935-38; Zone Secretary, The Empire of India Life Assurance Co. Ltd., Kanpur Circle, 1946-47; Pres.: Varanasi Consumers' Co-operative, 1959-61; Anjuman-i-Taraqqie Urdu-Hindustani Biradari, Kanpur and Varanasi; Hindi Bhawan Trust, Kalpi; Adarsha Vyamshala, Kanpur, etc. *Publications:* 33 books in Hindi and English. *Address:* Behari Niwas, Kanpur.

VARMA, Parmeshari Lal, B.A. (Hons.), C.E. (Hons.), M.B.E. (1938), M.I.E. (India), D.I.C. (London), Member, Union Public Service Commission, since Nov. 1956. *b.* May 21, 1901. *Educ.:* B.A. (Hons.), Govt. Coll., Lahore, 1921; C.E. (Hons.), Thomason Engg. Coll., Roorkee, 1924. Public Works Deptt., Buildings & Roads, Punjab, 1924; Executive Engineer, 1937; Under Secretary to the Govt. of Punjab, 1942; Superintending Engineer (Planning) for the Post-War Planning Scheme, 1945; sent to the U.S.A. as leader of the Road Delegation of the Govt. of India, 1947; Chief Engineer & Secy. to the Punjab Govt., Development Organization, 1948; Chief Engineer, Chandigarh Capital Project, 1950; Chief Engineer & Secy. to Govt. of Punjab, P.W.D. Bldgs. & Roads Branch in addition to duties as Chief Engineer & Secy. and Chief Administrator, Chandigarh Capital Project, till Nov. 1956. *Address:* Member, Union Public Service Commission, New Delhi.

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VARMA, Vrindavan Lal, B.A., LL.B., D.Litt., Advocate; Hindi Writer. *b.* Jan. 9, 1889; *Educ.:* Victoria Coll., Gwalior; Agra Coll., Agra; called to the Bar, 1916. Formed Seva Samiti to fight against the pneumonic plague of 1918; Chairman: Education Cttee., Jhansi Municipal Board, 1926-30; Chairman, Jhansi Dist. Board, 1935-48; Managing Director, Jhansi Dist. Co-operative Bank, since 1928, with a break of 3 years. *Publications:* 28 novels, 22 plays and about 200 short stories beginning from 1909; *Laxmibai of Jhansi* (novel), has been translated into Russain, Czech and Indian languages; *Mrignaini; Birataki Padmini* and other historical novels are some of the outstanding master-pieces. *Recreations:* Shikar, Music. *Address:* C/o Mayur Prakashan, Jhansi, U.P.

VASAN, S. S., Managing Editor, *Ananda Vikatan*, a leading nationalist weekly; Proprietor, Gemini Studios, Madras; Managing Dir., Gemini Pictures Circuit Private Ltd. *b.* 1903, at Tiruthuraipundi, Tanjore Dist. Took to journalism at an early age and started a Tamil journal, *Ananda Vikatan*, 1928; pioneer in introducing the unique feature of caricatures in South India through this weekly; was once a keen punter; turned to film business, 1939; founded the Gemini Studios, 1941; as a producer, occupies a prominent position in the world of talkies; member, Indian and Eastern Newspaper Society; is a shareholder of P.T.I.; Pres., South Indian Motion Picture Producers' Association. *Address:* 'Gemini House,' Edward Elliot Road, Mylapore, Madras 4.

VASAVADA, Shamprasad Rupshanker, M.A., Pres., National Federation of Indian Railwaymen: General Secy., Indian National Trade Union Congress. *b.* Feb. 16, 1903; *Educ.:* Primary and secondary education at Rajkot; graduated with Honours from Bahauddin Coll., Junagadh, 1925; M.A. Degree with History and Economics, 1927. Joined the Textile Labour Assoc., Ahmedabad, April 1929; elected one of the Secys. of the Assoc., 1946; Municipal Councillor, Ahmedabad, 1936-50; served for several years as Chairman, Sanitary Cttee., Ahmedabad Municipality; elected M.L.A., Bombay, 1950; again 1952; was Pres., Indian National Textile Workers' Federation for six years; Pres., I.N.T.U.C., 1954-57; member: Central Advisory Council for Industries; Central Wage Board for Textile Industry; Working Group, N.I.D.C.; Director: Air India International; Indian Airlines; Ex-Director: Sindri Fertilizers. *Address:* Gandhi Majoor Sevalaya, Bhadra, Ahmedabad.

VELANKAR, Hari Damodar, M.A., Sanskrit scholar; Joint Director, Bharatiya Vidya Bhavan, Bombay, since May 1952. *b.* Oct. 18, 1893; *Educ.:* Maratha High School and Wilson Coll., Bombay; obtained 1st class and Bhaudaji Prize at the B.A. examination, Bombay Univ., 1915 and M.A., 1918. elected Pres., Vedic Section of the All India Oriental Conference, 1946; member (nominated by Bombay Govt.), Exec. Cttees. of the Deccan Coll. P.G. and Research Institute and Bhandarkar Oriental Research Institute, Poona; collected and presented to the Bombay Univ. Library over 2,000 Mss.; prepared a descriptive catalogue of over 3,000 Mss. for the Asiatic Society, Bombay and Bombay Univ. *Publications:* English translation of Rigvedic hymns and several manuals of Prakrit and Apabhramsa metres; *Jinaratnakosa*, Vol. I (1944); Vol. II under preparation. *Address: Office:* Joint Director, Bharatiya Vidya Bhavan, Chowpatty, Bombay 7; *Residence:* 10/2, Shastri Hall, Bombay 7.

VELAPPAN, V. K., Minister for Health, Kerala State, since Feb. 22, 1960. *b.* Sept. 10, 1898; *Educ.:* High school education at Trivandrum; Maharaja's Coll., Ernakulam. Started as an employee in the Bombay Customs Deptt.; was a teacher for some time; was member and Chairman, Vaikom Municipality; elected to the Travancore Leg., Assembly, 1928, 1932 and 1943; was Pres., N.S.S. and Vaikom Co-operative Bank, and member, Board of Directors, N.S.S. *Address:* Trivandrum.

VELLODI, H.E. Mr. M. K., B.A., I.C.S., Ambassador to Switzerland, since May 1958. *b.* Jan. 14, 1896; *Educ.:* Zamorin's Coll., Kozhikode; Presidency Coll., Madras; Oxford Univ. Joined I.C.S., Nov. 1921; Jt. Secy., Board of Revenue, Madras, 1933; Chief Secy., Govt. of Orissa, 1939; Textile Commissioner, Govt. of India, 1943; Dy. High Commissioner for India in U.K., 1945; Leader, Indian Delegation to Maritime Conference, Copenhagen, 1945; Seattle, 1946; attended General Assembly, U.N., 1947; represented India at the meeting of the Security Council in connection with Kashmir, Jan.-May 1948; Secy., Ministry of States, Govt. of India, Oct. 1948-Nov. 1949; Chief Minister, Hyderabad, 1949-52; State Counsellor, Hyderabad, 1952-53; Secy., Ministry of Works, Housing and Supply, 1953; Secretary, Ministry of Defence, 1953-57; Secretary to the Cabinet, Govt. of India, 1957-58. *Address:* Berne, Switzerland.

VELU PILLAI, Mr. Justice S., B.A., B.L., Judge, High Court, Kerala, since Feb. 9, 1959. *b.* Oct. 14, 1905; *Educ.:* Chiefly Trivandrum. Enrolled as a member of the Bar in Trivandrum, 1927; directly appointed as Dist. & Sessions Judge, Nagercoil, Aug. 25, 1948; has been Dist. & Sessions Judge in Kottayam and Trivandrum and for a few months in Ernakulam. *Publications:* Published Commentaries on Jenmi and Kudiyan Act of Travancore as amended by the Act of 1108. *Recreations:* Tennis. *Address:* High Court Judge, Ernakulam, Kerala.

VENKATAPPIAH, Burra, M.A., Deputy Governor, Reserve Bank of India. *b.* Oct. 4, 1907; *Educ.:* P. R. Coll., Kakinada; Presidency Coll., Madras; London Univ. Joined I.C.S., Oct. 1932; served in Bombay State as Asstt. Collector and Collector (1932-40); Deputy Secy., Finance Deptt. (1940-42); Joint Secy., Finance Deptt. (1942-46); Secy., Finance Deptt. (1946-50); Executive Director, Reserve Bank, Oct. 1950-July 1955; member, Cttee. of Direction, All-India Rural Credit Survey (1951-54), Taxation Enquiry Commission (1953-54), and Rural Banking Enquiry Cttee. (1949-50); Expert Cttee. on the Futures Markets (Regulation) Bill (1950); One-man Cttee. to enquire into past purchases of the Bombay State Road Transport Corporation (1956), etc.; Director on the Boards of State Bank of India, National Co-operative Development and Warehousing Board, Central Warehousing Corporation and Refinance Corporation for Industry Private Ltd. *Address:* Bombay 1.

VENKATARAMAN, Dr. Krishnasami, M.A. (Madras), M.Sc. Tech., Ph.D., D.Sc. (Manch.), F.N.I., F.A.Sc., Padma Bhushan (1961), Director, National Chemical Laboratory, Poona, since Aug. 1, 1957. *b.* June 7, 1901. *Educ.:* Madras and Manchester. Director, Deptt. of Chemical Technology, Matunga, Bombay, 1938-57; Chairman, Chemical Research Cttee. of the C.S.I.R., 1951-57; Pres., Chemistry Section, Indian Science Congress, 1945; member: Bureau of the International Union of Pure and Applied Chemistry, 1950-55; Indian Lac Cess Cttee.; Board of Directors of Hindustan Antibiotics Limited; Advisory Panel on the International Pharmacopoeia and Pharmaceutical Preparations, W.H.O.; Cttee. on Non-Proprietary Names of Drugs, W.H.O.; Editorial Advisory Board of *Tetrahedron* and *Current Science*; Pres., Indian Chemical Society; Chairman, Development Council for Drugs, Dyes and Intermediates, Ministry of Commerce & Industry. *Publications: The Chemistry of Synthetic Dyes*, Vols. I & II, Acad. Press, N.Y., 1952; *Colouring Matters* in Review of Textile Progress, 1955-56; numerous papers—A chapter on 'Flavones and Isoflavones' in *Fortschritte der Chemie organischer Naturstoffe* Vol. XVII on chemistry and chemical technology. *Address:* Poona 8.

VENKATARAMAN, R., M.A., B.L., Minister for Industries and Labour, Madras. *b.* Dec. 4, 1910; *Educ.:* Madras; won Intercollegiate Oratorical Competition of South India. Joined the Bar, 1935; participated in the Quit India Movement and detained in Jail, 1942-44; Editor, *Labour Law Journal;* one of the panel of Indian Lawyers who defended Indian nationals arrested in connection with the I.N.A. Movement in Singapore and Malaya; Secy., Provincial Bar Federation; Member, Commonwealth Parliamentary delegation to New Zealand, 1950; elected to Parliament 1950; elected to the Lok Sabha from Tanjore, 1952; was Secy., Tamilnad Congress Cttee.; Reception Cttee. Avadi Congress Session of Indian National Congress; again elected in 1957; Alternate Delegate of India to the U.N. Gen. Assembly, 1953, 1955 and 1956; Leader, Indian Delegation to 42nd Session of I.L.O. Conference, Geneva; Delegate of India to the U.N. Gen. Assembly, 1958, 1959 and 1960; Secy., Congress Party in Parliament, 1954-55; elected member, U.N. Administrative Tribunal for 1956-59 and again for 1959-61. *Address:* Madras.

VENKATARAMAN, S. R., B.A., B.L., Member, Servants of India Society, from 1929; member, Central Exec. Cttee., Indian Conference of Social Work; Hony. Secy., the Indian Council of World Affairs, Madras Branch; Delegate: the U.N. Conference on the Non-Governmental Organisations, Colombo 1956; member, Senate, Annamalai Univ., 1956; Hon. Jt. Secy. and Treasurer, Indian Council for Child Welfare, Madras; Vice-Chairman, Guild of Service; Read a Paper on Grant in Aid & Field Counselling at the Seminar on Public Cooperation for Social Welfare in the Third Five Year Plan, Nov. 1960, at Chandigarh and took Part in the discussions. *Publications:* (Tamil) *Nehru's Letters to his daughter* (Tr.); *Lives of Ranade, Gandhiji, Annie Besant;* (English) *Temple Entry Legislation—a Review; Harijans through the Ages; The Pavement Dweller; Two South Indian Tribes; State Responsibility for Social Work;* Edited: Rt. Hon. Sastri's autobiographical sketches in Tamil; Madras State Directory of Social Services, 1952; Sastri's lectures on the Rights and Status of Women in India, 1957. *Address:* Servants of India Society, Madras 14.

VENKATESWARAN, Dr. Subbia, B.A., D.Sc. (Madras), B.L. (Cal.), F.A.Sc. (1934), Controller-General of Patents, Designs & Trade Marks, since 1959. *b.* Feb. 8, 1900; *Educ.:* Presidency Coll., Madras; Research Scholar, Indian Institute of Science, Bangalore (1919-21); Research Asstt., Agricultural Research Institute, Pusa (1922-23); Chemical Asstt., Govt. Test House, Alipore (1923-30); conducted research at the I.A.C.S. under Sir C. V. Raman, F.R.S., N.L.; Examiner of Patents (1930-40); Asstt. Registrar (1940-43); Dy. Registrar (1944-54); Registrar of Trade Marks (1954-57); Officer on Special Duty (Trade Marks, Patents & Designs), 1957-60; represented India at the Commonwealth Conference on Patents and Trade Marks at Canberra (1955). *Publications:* Several research papers on light scattering and Raman Effect in scientific journals; *Treatise on the Trade & Merchandise Marks Law in India; Cotton Trade Marks; Treatise on the Trade Marks Act*, 1940. *Address:* Central Building, Queen's Road, Bombay 1.

VENKATESWARLU, Dr. K., M.Sc., D.Sc., F. Inst. P., F.A. Sc., Scientist; Professor and Head of the Deptt. of Physics, Annamalai Univ. since July 1955. *b.* June 3, 1916, at Nuzvid, Krishna Dist., Andhra. *Educ.:* S.R.R. High School, Nuzvid; Andhra Christian Coll., Guntur; Andhra Univ. College, Waltair for B.Sc. (Hons.) and M.Sc.; Metcalfe Gold Medal for the best thesis for M.Sc. in Physics, 1939. D.Sc. for his thesis "Intensity and related problems in Raman Effect", 1946; elected a fellow of the Institute of Physics, London, 1947; had overeas

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training in pure and applied geophysics at Cambridge Univ., U.S. Geological Survey and California Institute of Technology, U.S.A., 1948-50; Special Officer for Ground Water Resources, Madras State, 1951-53; elected Fellow, Indian Academy of Sciences, 1957; is guiding research in Molecular Spectroscopy, Magnetism, X-rays and Geophysics in the Physics Deptt., Annamalai Univ. *Publications:* Several research papers in leading scientific journals. *Address:* P.O. Annamalainagar.

VERMAN, Dr. Lal C., F.N.I., M.I.E., M.I.T.E., Ph.D., M.S., B.S. (Eng.), Director, Indian Standards Institution, since June 1947 and Hony. Adviser on Standardization, Govt. of India, since 1951. *b.* 1902 in Amritsar; *Educ.:* Punjab, California, Michigan and Cornell Univs., Teaching and Research in American Universities, 1925–31; Research Fellow, Indian Institute of Science, Bangalore, 1931–33; Research Physicist, London Shellac Research Bureau, 1933-36; Ag. Dir., Physical Laboratories, C.S.I.R., 1944-47; Vice-President, International Organization for Standardization, Geneva, 1949-55; Pres., Institution of Telecommunication Engineers, 1960-61; Chairman: Plastics Research Cttee., C.S.I.R., 1950-58; Advisory Board of Indian Lac Cess Cttee., since 1956; responsible for secretariats of I.S.I. and several I.S.O. and I.E.S. Cttees. *Publications:* Over hundred papers in Indian, British and American scientific and technical periodicals; number of Indian, British and U.S.A. patents on variety of industrial processes. *Address:* Director, Indian Standards Institution, Manak Bhavan, New Delhi 1.

VIDYALANKAR, Amar Nath, Minister for Education, Labour, Stationery and Printing, and Language, Punjab, since April 9, 1957. *b.* Dec. 8, 1902, at Bhera (West Pakistan); *Educ.:* Graduated from Gurukul Univ., Hardwar, 1925. Joined Lala Lajpat Rai's Servants of the People Society as life member, 1926-46; Editor 'Punjab Kesari Hindi Weekly', 1930-32; courted Jail 1931, 1932-33, 1940-41 and 1942-45; worked for Harijan uplift, trade unions and Kisan organisations; actively organized Kisan Schools with the late Prof. Brij Narain; was General Secy., Amritsar Dist. Congress Cttee. (Urban) for a long time; after partition joined A.I.C.C. office as Permanent Secy.; elected M.L.A., Punjab, from the special labour constituency, 1949; member, Lok Sabha, 1952-57; Pres., I.N.T.U.C. (Regional Branch for Punjab, PEPSU and Himachal Pradesh), 1948-49, 1954-56; Minister for Labour, Labour Co-operatives and Health, Punjab, from Nov. 1956-April 1957. *Address:* Chandigarh.

VIJAYANAGARAM, Maharajkumar Dr. Vijaya of, Padma Bhushan, International cricketer. *b.* December 28, 1905; *Educ.:* Princes' College, Ajmer, where he won his colours at tennis and cricket, and set up a record, being the youngest student to get a double blue (Panchranga); Haileybury Public School, England. Is known in the field of sport by the name 'Vizzy'; Captained India in England, 1936; Patron of Indian Sport; big game shikari, passed the coveted figure of double century of tigers in April 1948 and completed his third century, 1956; was Minister for Justice, U.P. Govt.; President, Andhra and Kshatriya Mahasabhas; has travelled extensively in Europe, Russia and America; both his grandfather and great-grandfather had enjoyed the personal distinction of "His Highness" and also a salute of 13 guns and 19 guns respectively; the hereditary distinction "Mirza Raja Mahraj Manya Sultan Bahadur" is the family title; was returned unopposed to the Central Assembly from Uttar Pradesh in 1934 and also in 1945; elected by a large majority to the U.P. Provincial Assembly on the eve of the inauguration of the reforms; appointed Minister of Justice of the U.P. Government under the new Act, 2nd April, 1937; member of the Court of the Banaras Hindu University since 1935 and of the Executive Council since 1940; awarded by Sir S. Radhakrishnan, Vice-Chancellor of the University, the highest Blue-Ribbon of the University, as a special mark of distinction at the convocation of 1940; President of the Andhra Mahasabha from 1941 for three years successively; was unanimously elected President, 44th Session of the All-India Kshatriya Mahasabha held at Motihari (Bihar) in June 1944; received Hon. Degree of Doctor of Laws from the Banaras Hindu University, at its annual convocation in Nov. 1944; renounced his Knighthood on the 14th of July 1947, as he considered it was not in keeping with the ideals of Republican India; member, Uttar Pradesh Legislative Council (Upper House), since 1952; was Vice-Pres., Board of Control for Cricket in India, for six years; was unanimously elected its Pres., Oct. 1954, at Bangalore; unanimously re-elected its Pres. for a second term, 1955-56; organised a tour of the New Zealand Cricket team in India during his first year's presidentship; during the second term of office as Pres., succeeded in getting the Australian Cricket Board to agree to a tour by their cricket team in India for the first time, consisting of three test matches; has created a Benevolent Fund for cricketers in distress; has been Pres., U.P. Cricket Assoc. from 1946 and Andhra Cricket Assoc. from 1954; re-elected Pres. for a further term of three years by the U.P. Cricket Assoc. and the Andhra Pradesh Cricket Assoc., at their annual General Meetings, 1956; for the first time in the history of Indian cricket, nominated a successor to his office namely Sardar Surjit Singh Majithia, at the close of his term as Pres. at the annual general meeting of the Cricket Board at Visakhapatnam, Dec. 2, 1956, with a view to eliminating unhealthy canvassing and vote-catching; has been member, "M.C.C." and Surrey County Cricket Clubs, England since 1936; awarded Padma Bhushan on Republic Day (26th Jan. 1958) by the President of India as a mark of recognition of his all-round activities in sports and politics; represented India at the Imperial Cricket Conference, 1955 & 1958; succeeded in getting equality of status for India in the cricket world; was invited by B.B.C., London to do the daily summarising of the Cricket Tests between India and England in the summer of 1959 in England; elected unopposed to the Lok Sabha from the Visakhapatnam Constituency (A.P.) on April 16, 1960 in a bye-election. *Address:* Vijayanagaram Bhawan, Banaras (U.P.).

VIRA, Dharma, I.C.S., Secretary, Ministry of Rehabilitation, Govt. of India, since March 1956. *b.* 1906; *Educ.:* Lucknow and Allahabad Univs.; London School of Economics and Political Science. Joined Indian Civil Service, 1930; Joint Magistrate: Aligarh, 1930-34; Almora, 1934-36; Bareilly, 1936; Joint Secy., Industries and Agricultural Exhibition, Lucknow, 1936-37; Officiating Dist. Magistrate, Bareilly, 1937; Dist. Magistrate: Etah, 1937-38; Almora, 1938-41; with Commerce Deptt., Govt. of India, 1941-44; Deputy Secy., Industries and Civil Supplies Deptt., 1944-45; Textile Commr., 1945-47; Joint Secy. to Cabinet, 1947-50; Principal Private Secy. to Prime Minister, 1950-51; Commercial Adviser, High Comm. in London, 1951-53; Ambassador to Czechoslovakia, 1954-56. *Address:* 3, Clive Road, New Delhi.

VIRA, Prof. Dr. Raghu, M.A., Ph.D. (Lond.), D.Litt. et Phil. (Holland), M.P., Founder and Director, International Academy of Indian Culture. *b.* Dec. 31, 1902; *Educ.:* Punjab Univ., Lahore; Univ. of London; Royal Univ. of Utrecht, Holland. Member, Constituent Assembly of India; Member of Parliament; did researches in various spheres of ancient India and allied countries. *Publications:* Sets of English-Hindi Dictionaries of scientific and administrative terms totalling over two lakhs; edited the first complete set of scientific and mathematical text-books in Hindi and Marathi numbering about three dozens; founded a comprehensive series of Indo-Asian literatures entitled Sata-Pitaka, including ancient literatures of Indonesia, China, Tibet, Mongolia and other countries. *Recreations:* Indian and foreign languages and literatures; Foreign relations and policies; Education and culture; Travel. *Address:* J 22, Hauzkhas Enclave, New Delhi 16.

VISEN, Hukam Singh, B.A., LL.B., Minister for Revenue, Medical, Health, Relief and Rehabilitation and Justice, Uttar Pradesh, since 1957. *b.* 1892; *Educ.:* Bahraich and Lucknow. Elected M.L.A., U.P., 1937; appointed Parliamentary Secy., to the Revenue Minister, U.P., Aug. 1937; resigned in October 1939 consequent to the general policy of Congress; re-elected to Assembly, 1946; suffered imprisonment in the freedom movement, 1932, 1940, 1942 and 1943; appointed Minister for Revenue and Forests, Aug. 7, 1946; reappointed Minister, 1952. *Address:* No. 1, Minister's Residence, Vikramaditya Marg, Lucknow.

VISVESVARAYA, Sir Mokshagundam, K.C.I.E., M.I.C.E., Bharat Ratna (1955), Hony. D.Engg. (Jadavpur), late Dewan of Mysore. *b.* Sept. 15, 1861; *Educ.:* Central Coll., Bangalore and Coll. of Science, Poona; holds Honorary Degrees from six Universities (D.Sc., of Calcutta; LL.D., of Bombay; D.Litt., of Benares; D.Sc., of Patna; D.Sc., of Allahabad; and LL.D., of Mysore). Asstt. Engineer, P.W.D., Bombay, 1884; Supdt. Eng., 1904; retired from Bombay Govt. Service, 1908; apptd. Sp. Consulting Eng. to Nizam's Govt., 1909; Ch. Eng. and Sec., P.W. and Rly. Depts., Govt. of Mysore, 1909; Dewan of Mysore, 1912-18; Chairman, Bombay Technical and Industrial Education Committee (appointed by the Government of Bombay), 1921-22; Chairman, Indian Economic Enquiry Committee (appointed by the Government of India), 1925; Chairman, Irrigation Inquiry Committee (appointed by Govt. of Bombay), 1938; President, the All-India Manufacturers' Organization, 1941; centenary celebrated, Sept. 15, 1960. *Publications: Reconstructing India* (1920), *Planned Economy for India* (1934) and *Memoirs of My Working Life* (1951). *Address:* No. 5, Cubbon Road, Bangalore.

VISWANATH, Rao Bahadur Bhagavatula, C.I.E. (1943), D.Sc. (Hon.), F.R.I.C. (London), Rao Bahadur (1929), Director, Eastern Technical Laboratories. *b.* January 1, 1889; *Educ.:* Vizianagaram. Director of Agriculture and Food Commissioner, Rajasthan, 1949; Regional Agricultural Production Commissioner, Ministry of Food and Agriculture, New Delhi, 1950, 1951. Pres.: Agricultural Sections, Indian Science Congress, 1937; Indian Society of Soil Science, 1935-37; Vice-Pres., Society of Biological Chemists, India, 1938; foundation Fellow of National Institute of Science, India; Indian Academy of Science; Indian Chemical Society; Adviser, Agricultural Programmes, Planning Commission, Govt. of India, 1952. *Publications:* Several original contributions on soils and plant nutrition and on the utilisation of agricultural products and wastes. *Address,* Krishnanivas, 8 A/85-W.E. Area, Pusa Road, New Delhi.

VYAS, Damodar, B.A., LL.B., Revenue & Rehabilitation Minister, Rajasthan, since 1957. *b.* Nov. 9, 1909; *Educ.:* Delhi Univ. (B.A.); Lucknow Univ. (LL.B.). Practised as a senior lawyer at the Bar; Pres., Dist. Malpura Jaipur Rajya Praja Mandal, 1937; member, Jaipur State Leg. Council, 1944-49; Pres.: Malpura Municipal Board, 1944-52; Dist. Board Malpura, 1953-54; member, Rajasthan Pradesh Congress Cttee., from 1948; appointed Revenue Minister in the

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Sukhadia Cabinet, Dec. 1954; elected M.L.A., Rajasthan from Malpura Constituency, 1952 General Elections; elected unopposed, M.L.A., Rajasthan, 1957 General Elections from Malpura Constituency; member, A.-I.C.C., 1957-58; 1959-61. *Address:* 49, Civil Lines, Jaipur.

VYAS, Jainarayan, M.P., ex-Chief Minister, Rajasthan (Nov. 1952–Nov. 1954). *b.* 1898 at Jodhpur; *Educ.:* Had his early education locally. Worked on the railways for some years; became a whole-time political worker and joined the Congress; organised the Marwar Peasant Movement; courted jail five times for political activities; externed from Jodhpur State for many years; settled in Bombay and turned to political journalism editing the *Akhand Bharat;* elected General Secy. All-India States People's Conference, 1939-49; Chief Minister, first popular ministry, Jodhpur, 1948; was Pres., Rajputana P.C.C.; was Minister, Rajasthan. *Address:* Jaipur.

VYAS, Ram Kishore, B.A., LL.B., Minister for Home, Law and Transport, Rajasthan, since Feb. 10, 1960. *b.* May 8, 1908; *Educ.:* Jaipur; Allahabad. Participated in social work since school days; started practice at Jaipur Chief Court; actively associated with the Jaipur State Praja Mandal and later with the Rajasthan P.C.C.; elected P.C.C. member; member, Jaipur Municipal Council, 1938-51; was its Pres. for two years; elected M.L.A., Rajasthan in the first general elections; Minister, Rajasthan, March 1952-May 1953; Nov. 1954 till date; was leader, Congress Party, Jaipur State Representative Assembly and Dy. Leader, Congress Party (Sukhadia Cabinet), Rajasthan Leg. Assembly, Nov. 1954-57; participated in people's movement launched by Jaipur Praja Mandal, 1938 and the Indian Independence Movement, 1942; was Prof. of Law, Law Coll., Jaipur; has been a lawyer and public figure in Jaipur; Minister for Home, Law, Irrigation & Power, Rajasthan, 1954-60; member, A.I.C.C. *Address:* Rasta Khandar, Char Darwaja, Jaipur.

WADALIA, Lt.-Gen. Mohinder Singh, Deputy Chief of the Army Staff, Indian Army, since Jan. 28, 1959. *b.* Nov. 30, 1908; *Educ.:* Aitchison Coll., Lahore; R.I.M.C., Dehra Dun; R.M.C., Sandhurst. Commissioned, Jan. 31, 1929; served with 4/19 Hyderabad Regiment (now 4 Kumaon); transferred to 16 Light Cavalry, 1934; saw service on the staff in G. Hq. Persia and Iraq Command during World War II; subsequently held various Staff and Command appointments including the following:— G.S.O. 1 Army Hqrs., 1944-45; Deputy Head of the Military Mission in Berlin and subsequently Head of the Mission from the date of independence, 1947; Brigadier, General Staff, 1948; Military Adviser to the High Commissioner in the U.K., 1948-49; Commander, 1st Armoured Brigade, 1950-51; Commandant, National Defence Academy, 1951-52; Commander, 1st Armoured Division, 1953-55; Chief of the General Staff, 1956-57; G.O.C., XV Corps, 1957-59. *Recreations:* Reading literature and military history; Squash Racquets, Polo. *Address:* Army Headquarters, New Delhi.

WADIA, Ardeshir Ruttonji, Rajasevasakta, Hon. D.Litt., Bar-at-Law, Padma Bhushan (1961), M.P., Director, Tata Institute of Social Sciences, Bombay. *b.* June 4, 1888; *Educ.:* St. Xavier's High School and Wilson College, Bombay; Middle Temple, London; St. Catherine's, Oxford; Fitzwilliam Hall, Cambridge. Prof. of English and Philosophy, Wilson Coll., Bombay, 1914; Lecturer in Psychology, Univ. of Bombay, 1914-16; Prof. of Philosophy, Mysore Univ., 1917-42; D.P.I., Mysore (Retd.); Principal, Victoria Coll., Gwalior (1946-49); Pro-Vice-Chancellor, M.S. Univ., Baroda, 1949-52; Governor of District No. 51, Rotary International, 1951-52; Indian Delegate to UNESCO Conference, 1952 and 1954. *Publications: The Ethics of Feminism; Pragmatic Idealism in Contemporary Indian Philosophy, Zoroaster, Religion as a Quest for Values; The Future of English in India; The Philosophy of Mahatma Gandhi* and other Essays: Philosophical & Sociological; Editorial Board, History of Philosophy: Eastern and Western. *Address:* Kalpana, 96, Netaji Subhas Road, Bombay.

WADIA, Darashaw Nosherwan, M.A., D.Sc., F.N.I., F.R.S., Padma Bhushan (1958), Geological Adviser, Govt. of India. *b.* 1883; *Educ.:* Baroda Coll., Bombay Univ. Prof. of Geology, Prince of Wales College, Jammu (Kashmir), 1907-20; Geological Survey of India, 1921-39; carried out the Geological Survey of N.-W. Punjab, Hazara and Kashmir as part of official duties; Mineral Adviser, Ceylon Government till 1944; President, Indian Science Congress, XXIX Session, 1942; President, National Institute of Science of India, 1945-46; "Back Award," Royal Geographical Society, London, 1934; "Lyell Medal" awarded by Geological Society, London, 1943. *Publications: Geology of India; Syntaxis of N. W. Himalayas* (1931); *Geology of Nanga Parbat and Gilgit District* (1932); *Structure of the Himalayas* (1938). *Address:* 10, King George Avenue, New Delhi.

WADIA, Neville Ness, Chairman, Nowrosjee Wadia & Sons (Private) Ltd.; The Bombay Dyeing & Mfg. Co. Ltd.; National Peroxide Ltd.; Belapur Co. Ltd. *b.* Aug. 22, 1911; *Educ.:* Malvern & Trinity, Cambridge. *Address:* Bella Vista, Pedder Road, Bombay 26; *Office:* The Bombay Dyeing and Mfg. Co. Ltd., Neville House, Ballard Estate, Bombay 1.

WADIA, Mrs. Sophia, Editor, *The Aryan Path,* organ of the Indian Institute of World Culture, and *The Indian P.E.N.,* Bombay. *b.* Sept. 13, 1901; *Educ.:* Lycee Moliere, Paris; Columbia Univ., New York; School of Oriental Studies, London. Associate of The United Lodge of Theosophists; Lecturer: Founder-Organiser of the P.E.N. All-India Centre; a Founder and Pres. of the Indian Institute of World Culture, Bangalore; and worker in women's educational, social and cultural movements. *Publications: The Brotherhood of Religions; Preparation for Citizenship. Recreation:* Reading. *Address:* 40, New Marine Lines, Bombay 1.

WANCHOO, Mr. Justice Kailas Nath, B.A. (Allahabad), I.C.S., Judge, Supreme Court of India, since Aug. 11, 1958. *b.* Feb. 25, 1903; *Educ.:* Pandit Pirthi Nath High School, Kanpur; Muir Central College, Allahabad and Wadham College, Oxford. Passed into the Indian Civil Service, 1924; joined service, Dec. 1, 1926; served as Joint Magistrate and District and Sessions Judge in various Districts in Uttar Pradesh; Judge, Allahabad High Court, Feb. 1947-Jan. 1951; Chief Justice, Rajasthan High Court, 1951-58; Chairman, U.P. Judicial Reforms Cttee., 1950-51; reported to the Govt. of India on the financial and other implications of the new State of Andhra, Feb. 1953; Sole Member, Indore Firing Enquiry Commn., 1954; Chairman, Dholpur Succession Case Commn., 1955; Member, Law Commn., India, 1955. *Address:* 6, York Place, New Delhi.

WANCHOO, Niranjan Nath, M.A. (Punjab), O.B.E. (1945), I.C.S., Secy., Ministry of Steel, Mines and Fuel (Dept. of Iron & Steel), Govt. of India, since July 1961. *b.* May 1, 1910; *Educ.:* Government Coll., Lahore; King's Coll., Cambridge. Joined the I.C.S. in 1934; served in Bihar and Orissa; subsequently in the Commerce and Food Departments of the Govt. of India; Imperial Defence Coll., London, 1947; Director-General of Ordnance Factories, 1948; Jt. Secy., Ministry of Defence & Controller-General of Defence Production, 1948–57; member, Univ. Grants Commission, 1958–61; Secy., Min. of Finance (Dept. of Expenditure), 1958–61. *Recreation:* Golf. *Address* 4, Akbar Road, New Delhi.

WANKHEDE, Sheshrao Krishnarao, B.A., Bar-at-Law, Minister for Finance, Maharashtra State, since May 1, 1960. *b.* Sept. 24, 1914; *Educ.:* B.A., Morris Coll., Nagpur, 1934; called to the Bar, 1937. A leading educationist, a keen sportsman and a progressive agriculturist; connected with 67 Institutions either as an office-bearer or an ordinary member; unanimously elected Chairman, Nagpur District Council, 1938-48; jailed for individual Satyagraha, 1940; elected member, Nagpur Univ. Executive Council, 1947; was Treasurer, Nagpur Univ. for 9 years; was the first Mayor of Nagpur Corporation; later elected for two more years; represented India at the: International Federation of Agricultural Producers' Conference in Paris, 1948; F.A.O. Conference, 1953; a member, Indian Central Cotton Cttee. for the last 12 years; Ex-Vice-Chairman, M.P. Electricity Council; was elected Dy. Speaker, M.P. Leg. Assembly after the first General Elections; continued Dy. Speaker in enlarged Bombay State's first Assembly; Minister for Planning, Development, Electricity and Industries, Bombay State, April 1957-May 1960. *Address:* Sachivalaya, Bombay.

WAZIR, Mr. Justice Janki Nath, B.A. (Punjab), LL.B. (Lond.), Bar-at-Law, Middle Temple, Chief Justice, High Court of Judicature, Jammu and Kashmir State, since April 1948. *b.* Dec. 6, 1905; *Educ.:* Kashmir and London Univ. Was enrolled as an Advocate of the Lahore High Court, 1931; Part-time Law Lecturer, Law Coll., Lahore, 1933-36; Judge, High Court of Judicature, Jammu and Kashmir State, Dec. 1936—April 1948; Vice-Chancellor, Univ. of Jammu and Kashmir, June 1950-57. *Address:* Srinagar.

WILLIAMS, Lieut.-General Sir Harold, K.B.E. (1956), C.B. (1953), M.I.C.E., M.I.E., M.I.S. (Ind.), Director, Central Building Research Institute, Roorkee, since Oct. 15, 1955. *b.* June 1, 1897; *Educ.:* Mountjoy School, Dublin; R.M.A., Woolwich; Cambridge Univ.; 2nd Lieut., 1917; Adjt., Bengal Sappers & Miners, 1929-33; Ind. Mil. Academy, 1933-36; Bt. Major, 1934; Prof., Civil Engineering, Roorkee Coll., 1936-38; C.R.E. 1st Armd. Div., 1940-41; Brig., Engr. Staff, 1942-43; C.E. IV Corps, 1943-44; Comd. S.M.E., 1945-47; C.E., Southern Command, 1947; Engineer-in-Chief, Army Headquarters, 1948-55; Pres.: Inst. Engineers, 1954; Inst. Surveyors (Ind.), 1954; Member, Council, Inst. C.E., 1951-54 and since 1958; Colonel-Comdt., Corps of Engineers, 1951-55. *Recreations:* Mountaineering, Ornithology. *Clubs:* Delhi Gymkhana; United Service, London; Alpine, Himalayan. *Address* C.B.R.I., Roorkee, U.P.

WINCHESTER, Most Hon. the Marchioness of (the former Miss Bapsy Pavry), M.A., Litterateur; received on the occasion of her marriage with the Most Hon. the Marquess of Winchester numerous messages of good wishes from world over, including those from Her Majesty Queen Mary and other members of British and European Royalty; accorded Civic Reception by Mayor of Bombay at Corporation Hall (March 1953), by Mayor of Winchester at historic Guildhall (July 1953) and by Mayor of Winchester (Virginia, America) at City Hall and presented with Key to the City, Feb. 1955; also by London County Council at County Hall (June 1953) and by City Corporation of New York at City Hall (Dec. 1954); conferred Order of Merit by the Shah of Iran (1955); Honorary Member of British-American Society; Member of Council of World Alliance for International Friendship; *Educ.:* Queen Mary High School and St. Xavier's College, Bombay; M.A., Columbia University. Visited England every year, since 1924; presented at Their Majesties' Court, 1928; received by President Coolidge (1924),

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by Pope Pius XI (1926) and President Lebrun (1938). Guest of the Shah of Iran and King of Afghanistan (1934), of King Abdullah of Jordan, King Gazi of Iraq, President Kemal Ataturk, King Boris and Queen Ioanna, King Carol and Queen Marie, Prince Regent Paul and Queen Marie of Yugoslavia and the Crown Prince and Crown Princess of Italy (March-April 1937), of King Leopold and Queen Elizabeth of Belgium, King George of Greece and King Farouk of Egypt (Aug.-Sept. 1937), also of Emperor Haile Selassie and Empress Menen in Ethiopia (1946); and of the King of Morocco (1952); also of King Olav of Norway and President Kekkonen of Finland (1961); attended the historic reception given in Paris by the President of France in honour of King George and Queen Elizabeth (1938); Member of Committee and Vice-Chairman of various Charity Balls, held in London in 1928-59 in the presence of members of the Royal Family; attended the historic Peace Conference in Paris (1946), Asian Relations Conference in New Delhi (1947), Parliamentary Conference on World Govt. (London, 1954), and represented Karnatak Univ. at Columbia Univ. Bicentennial Convocation (New York, 1954); awarded Bicentennial Medal. *Publications : Heroines of Ancient Iran* (Cambridge, 1930); limited deLuxe edition of 250 numbered copies (Hutchinson, London, 1955). *Address :* Malabar Hill, Bombay.

YASHPAL, B.A. (Lahore), leading Hindi writer. *b.* Dec. 3, 1903, at Ferozepur Cantt.; *Educ. :* Gurukul Kangri and National Coll., Lahore; graduated, 1926. Took active part in the freedom movement and courted jail; entered literary career by starting *Viplava*, a monthly magazine. *Publications :* 13 short story collections, seven novels and two travel books; one book of reminiscences in three volumes; three collections of humorous essays; one collection of One Act Plays; five socio-political books; his works have been translated into almost all Indian languages and some foreign languages also; his best novels are *Divya, Amita, Deshrohi, Manushya ke rup, Jutha Soch;* Short story collections: *Pinyareki Uron, Chitra ka Shirshak, Gyandan, Abhisapt;* Politico-social writings: *Gandhivad Ki Shav Pariksha* (Post-mortem of Gandhism). *Recreations :* Gardening. *Clubs :* International Club, Lucknow. *Address :* 'Viplava', 21, Shivaji Marg, Lucknow.

YAZDANI, Ghulam, B.A. (Punjab), M.A. (Calcutta), D.Litt. (Osmania), D.Litt. (Aligarh), O.B.E. (1935), Padma Bhushan (1959). *b.* Sept. 20, 1882; *Educ. :* Punjab and Calcutta; Griffith's Prizeman in History of Calcutta Univ.; Govt. of India Research Scholar in Archaeology, 1905-07; Punjab Univ. gold medalist in Arabic and Oriental Classics with English, 1905. Dir. of Archaeology, Hyderabad State, 1914–43; Epigraphist to the Govt. of India for Moslem Inscriptions, 1915–42; Gen. Pres., All-India Oriental Conference, 1941; Fellow of the Royal Asiatic Society of Bengal and of the Bhandarkar Oriental Research Institute; Hon. Correspondent, Archaeology Deptt., Govt. of India. *Publications : Mandu, the City of Joy; Ajanta,* Parts I to IV; *Bidar, Its History and Monuments; The Early History of the Deccan; Shahjahan Nama,* Vols. I–III (Bibliotheca Indica series). *Address :* Orange Grove, Khairatabad, Hyderabad, Dn.

ZAHEER, Syed Ali, B.A., LL.B., Bar-at-Law, Ex-Minister for Finance and Forests, Uttar Pradesh. *b.* March 21, 1896; *Educ. :* M. A. O. College, Aligarh; Canning College, Lucknow; Law College, Allahabad; Oxford. Called to Bar, 1922; member, Legislative Council, 1930–37 and again from 1939 till super session of legislature; left Muslim League, 1937; organised Shia community; elected Pres., All India Shia Political Conference, 1941, 1945; same year convened Shia All-Parties' Conference which agreed to dissociate itself from Muslim League policy; Member for Law and Communications, Nehru's first Interim Cabinet; resigned in October, 1946 when Muslim League joined Viceroy's Executive Council; Indian Ambassador in Iran, 1947-51; Minister in Iraq, concurrently, 1949-51; Minister of Justice and Labour, U.P. Cabinet in Aug. 1951; elected M.L.A., Jan. 1952; Minister for Justice and Excise, 1952-55; Minister for Justice and L.S.G., 1955-57; Minister for Justice, Food, Civil Supplies & Forests, U.P., 1957-58; member, A.I.C.C., since 1955. *Publications : The Dead Past;* Articles published in various newspapers and magazines. *Address :* 23, Ashok Marg, Lucknow, U.P.

ZAHEER, Syed Hasan, B.A. (Allahabad), B.A. (Hons.) (Oxford), I.C.S., Member, Union Public Service Commission. *b.* Nov. 16, 1899; *Educ. :* Muir Central Coll., Allahabad; Canning Coll., Lucknow; New Coll., Oxford. Joined the Indian Civil Service and posted to U.P. (1923); Assistant Commissioner, Lucknow, 1923-26; Joint Magistrate, Meerut, 1926-28; Collector, Banda, 1929-33; Collector, Ballia, 1933-37; Deputy Secy. to Govt. of U.P., 1937-40; Deputy Secy. to the Govt. of India, 1940-43; Secy. to Govt., U.P., 1944-45; Commissioner of Division in the U.P., 1945-55; member, Board of Revenue, U.P., 1955-57. *Address :* Dholpur House, Shah Jahan Road, New Delhi 2

ZAIDI, Col. Bashir Husain, Vice-Chancellor, Muslim Univ., Aligarh. *b.* July 26, 1898; *Educ. :* Arabic High School and St. Stephen's Coll., Delhi; Punjab Univ.; Cambridge Univ.; Lincoln's Inn. Indian Representative, International Students' Conferences in Czechoslovakia and Holland (1921); Head Master, Aligarh Muslim Univ. School (1923-30); Political Minister, Rampur State (1931-37); Observer, Third Round Table Conference in London; Chief Minister, Rampur State (1937-49); member: Negotiating Cttee. of the States and the Indian Union Constitution Cttee.; Constituent Assembly and Parliament of India, 1947-51; Indian Delegate to the U.N. Assembly (1951); elected to Parliament from Hardoi Constituency, 1952; Chairman, Board of Directors, Associated Journals Ltd. (National Herald Etc.); Director: Reserve Bank of India; Pres. Anjuman-Taraqqi-e-Urdu; is a Freemason. *Recreations :* Gardening. *Address :* Vice-Chancellor, Muslim University, Aligarh.

ZAKARIA, Dr. Rafiq, M.A. (1st class), Ph.D. (London), Bar-at-Law, Chancellor's Gold Medallist (Bombay Univ.), Advocate, Bombay High Court; member (nominated), Maharashtra Legislative Council. *b.* April 5, 1920; *Educ. :* Anglo-Urdu High School, Poona; Ismail Yusuf Coll., Govt. Law Coll., Bombay; London Univ. and Lincoln's Inn. Political correspondent on Indian affairs for the 'Observer' (London) (1947–48); Pres.: London Majlis (1945–47); Chairman, Federation of Indian Students' Societies in British Isles and Europe (1947); Delegate to Inaugural Session of International Union of Students held at Prague (1946); General Secy., Bombay Youth Congress (1950-51); Executive Vice-Pres.: Indo-Arab Society; member: Citizens' Advisory Cttee., Govt. of Bombay; Programme Advisory Cttee., A.I.R., Bombay; has travelled widely; writes for several Indian and foreign newspapers and broadcasts often; appointed Congress Chief Whip of the Maharashtra Legislative Council, July 1960. *Publications : A Study of Nehru. Recreations :* Reading, Writing. *Clubs :* Radio Club and W.I. Turf Club, Bombay. *Address :* "Gupta Mahal", Churchgate Reclamation, Bombay.

ZAMAN, Akhtar B.A. (Cal.), M.A. (Oxon.), I.C.S., Chairman, Coal Board & Coal Controller with the Govt. of India, since 1959. *b.* Jan. 29, 1917; *Educ. :* Presidency Coll., Calcutta and Exeter Coll., Oxford. Entered I.C.S., 1939; served as magistrate in various districts of Bengal from 1940; Dy. Secy. later Joint Secy. Govt. of West Bengal from 1947-52; Dy. Secy., Planning Commission, 1952; Joint Secy. Govt., of India, Ministry of Production (later, the part merged with the Ministry of Commerce and Industry), 1956-58; Director of Research Administrative Staff Coll. of India, Hyderabad, 1958-59. *Recreations :* Gardening. *Clubs :* The Delhi Gymkhana Club; Union Society, Oxford. *Address :* 1, Council House Street, Calcutta 1.

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LATE PARTICULARS

Under this we publish articles and give notes on items which could not be included in the body of the text.

AWARDS AND PRIZES

Including the 1961 awards, the number of persons who have received Bharat Ratna is 10, Padma Vibhushan 18, Padma Bhushan 114 and Padma Shri 137.

The ten persons who have received Bharat Ratna are: Mr. Jawaharlal Nehru (1954), Mr. C. Rajagopalachari (1954), Dr. S. Radhakrishnan (1954), Dr. C. V. Raman (1954), Dr. Bhagwan Das (1955), Mr. M. Visvesvaraya (1955), Pandit Govind Ballabh Pant (1957), Dr. D. K. Karve (1958), Dr. B. C. Roy (1961) and Mr. Purushottam Das Tandon (1961).

There was no award in 1959 or 1960.

1961 AWARDS

The President made 41 awards on the 12th Republic Day (Jan. 26, 1961). They are two Bharat Ratna, 13 Padma Bhushan, 26 Padma Shri. There was no Padma Vibhushan award.

The highest award Bharat Ratna which is given for exceptional work for the advancement of art, literature and science and in recognition of public service of the highest order has been made to Dr. B. C. Roy, Chief Minister, West Bengal and Mr. Purushottam Das Tandon, Ex-President, Indian National Congress.

A member of Parliament, an artist, an anthropologist, a Hindi writer and a Hindi poet were among the persons getting the Padma Bhushan award made for distinguished service of a high order in any field, including service rendered by Government servants.

The award of Padma Shri is made for distinguished service including service rendered by Government servants.

Among the Padma Bhushan recipients are Mr. A. R. Wadia, M.P., and Director of the Tata Institute of Social Sciences, Mr. Svetoslav Roerich, the famous artist, Mr. Bhagwan Sahay, Chief Commissioner of Delhi, Dr. Verrier Elwin, anthropologist, Seth Govind Das, Hindi writer, Mrs. Sumitra Nandan Pant, Hindi poet, and Mr. N. D. Gulhati, Additional Secretary in the Ministry of Irrigation and Power.

Bismila Khan, the master of the shehnai, has been awarded Padma Shri. Among others who have received this honour are Brigadier Gyan Singh, Principal of the Himalayan Mountaineering Institute, Mr. K. K. Hebbar, the Bombay artist, and Mr. Manmohan Suri, Mechanical Engineer of the Indian Railways, whose new system of hydro-mechanical transmission has attracted patent applications from several countries, including the U.K., the U.S.A. Germany, France and Japan.

In this list are also three social workers, Mrs. Kamalabai Hospet, Mrs. Mithuben Petit and Bibi Harparkash Kaur. Among the educationists who have received Padma Shri are Miss Evangeline Lazarus, Dr. (Miss) Hilda Mary Lazarus and Prof. V. K. Gokak, Director of the Central Institute of English, Osmania University. Mr. Kartar Singh Diwana and Mr. V. E. Vikhe Patil, are the two agriculturists in the honours list. Mr. Patil, who hails from Ahmednagar District, Maharashtra, has the distinction of organising the first co-operative sugar factory in the country.

The sculptor, Mr. R. K. Phadke whose works include the statue of Lokmanya Tilak at Chowpatty, in Bombay is also included.

The services of Mr. Soman Narboo, who was responsible for the 147-mile Leh-Kargil road in Ladakh have won recognition. He has been awarded Padma Shri.

Padma Bhushan 13: Mr. A. R. Wadia, Director, Tata Institute of Social Sciences and Dr. K. Venkataraman, Director, National Chemical Laboratory, Poona; L. A. Venkatakrishna Iyer, Special Chief Engineer, Andhra Pradesh; Niranjan Das Gulhati, Additional Secretary to the Government of India, Ministry of Irrigation and Power; Dr. R. B. Billimoria, tuberculosis expert; Dr. Tridib Nath Banerjee, physician; Rai Krishnadas, Kala Bhavan, Banaras Hindu University; Svetoslav Roerich; Bhagwan Sahay, Chief Commissioner, Delhi; Dr. Verrier Elwin, Honorary Adviser (Tribal), NEFA; Seth Govind Das, M.P.; Sumitra Nandan Pant; and V. P. Varma, Speaker, Bihar Legislative Assembly.

Padma Shri (26): A. Krishnamachari, Chief Engineer, Chambal Hydel and Irrigation Project; A. K. Shah, Principal, Calcutta Blind School; B. S. Mehta, Chief Secretary, Rajasthan Government; Bismillah Khan, musician; Dr. Brahm Prakash, Head of the Metallurgical Division, Atomic Energy Establishment; Miss Evangeline Lazarus, educationist; Dr. (Miss) Hilda Mary Lazarus; Brig. Gyan Singh, Principal, Himalayan Mountaineering Institute; Bibi Harparkash Kaur, social and educational worker; Muni Shri Jin Vijayji, Director, Oriental Research Institute; Mrs. Kamalabai Hospet, social worker, K. S. Dewana, agriculturist; K. K. Hebbar, artist; Prof. M. G. K. Menon, Dean of the Physics Faculty, Tata Institute of Fundamental Research; M. M. Suri, Mechanical Engineering Officer, Indian Railway; Mrs. Mithuben Petit, social worker; M. R. Jamdar, Headmaster, Muka-Badhir Vidyalaya; N. D. Sundaravadivelu, educationist; Dr. P. Misra, educationist and scientist; P. Mitra, Poet; R. K. Phadke, sculptor S. Narboo, Superintending Engineer, Ladakh; V. V. Patil, social worker; V. K. Gokak, Director, Central Institute of English, Osmania University; V. Jha, Sanskrit scholar and astrologer; and V. E. V. Patil, agriculturist.

LITERATURE

The Sahitya Akademi Awards for 1960 for outstanding books published in the Indian languages during the years 1957-1959. Only nine languages had been selected for the awards.

The following persons won the awards in the respective languages:

Assamese: *Kamgrechar Kanchiyali Ra'dat* by Benudhar Sarma.

English: *The Guide* by R. K. Narayan.

Gujarati: *Sharvilak* by Rasiklal Parikh (Drama).

Hindi: *Kala Aur Burha Chand* by Sumitranandan Pant (Poetry).

Kannada: *Dyava Prithivi* by V. K. Gokak *alias* Vinayak (Poetry).

Malayalam: *Sudarikalum Sudaranmarum* by P. C. Kuttikrishnan *alias* Uroob (Novel).

Marathi: *Yayati* by V. S. Khandekar, (Novel).

Telugu: *Natyasastramu* by Ponangi Sriram Appa Ravi (Drama).

Urdu: *Gul-i-Naghma* by Raghupati Sahai (Poetry).

The awards are given in the form of a cheque for Rs. 5,000 and an attractive copper tablet in which the name of the author, the name of the book and the year of the award are inscribed. The signatures of the Akademi's President, Mr. Jawaharlal Nehru, are also inscribed on the tablet.

Books are eligible for prizes in 16 languages, *viz.*, the fourteen major languages enumerated in the Constitution of India and Sindhi and English (as written by Indian authors).

There are two Prizes for Sanskrit, one for creative writing in Sanskrit, the other for scholarly research or exposition relating to Sanskrit, written in any language. To be eligible for award a book must have been originally published during the three years preceding the year in which the Award is announced.

Hindi

The Union Ministry of Education awarded in Aug. 1959 prizes of Rs. 2,000 each to seven books of outstanding merit in Hindi published between January 1 and December 31, 1955.

The following are the books with the names of their authors or translators in brackets:

Vah-re-main-vah (Dr. Padma Singh Sharma, Professor of Hindi, Agra College), *Gypsy* (V) R. Rishi, of Delhi), *Panini Kalin Bharatvarsha* (Dr. Vasudeo Sharan Agarwal, Professor, Banaras Hindu University), *Samanya Rasayan Shastra* (Dr. Satya Prakash, Department of Chemistry, Allahabad University), *Allopathic Materia Medica* (Dr. Shiv Dayal Gupta, Banaras Hindu University), *Ek aur Chini* (Prof. Phool Sahai Varma, of Patna) and *Aadhunik Parivahan* (Dr. Shiv Dhyan Singh Chouhan, Commerce Department, Balwant Rajput College, Agra).

The first lot of seven books which won a prize under this award was given in our 1959-60 Directory.

This competition was the third held since 1952. The number of books for which awards were given till 1958 numbered 31. So far (June 1961) no prizes have been announced for 1960).

Books for Neo-Literates

The Ministry of Education announced the award of 40 prizes of Rs. 500 each to the authors of the following books on the result of the seventh competition for books for neo-literates under the Government of India scheme "Encouragement of Popular Literature":

Under the scheme, prizes are awarded annually for good books for neo-literates in every regional language and at the same time prize-winning books and their approved translations in other regional languages are bought in bulk for distribution in community projects, N.E.S. Blocks and other educational centres. Prizes are announced each year on Gandhi Jayanti.

In the earlier six competitions, 201 books were awarded prizes of Rs. 500 each and 30 books of Rs. 1,000 each.

Good books for neo-literates in Hindi are purchased in bulk, the State and Central Governments sharing the cost equally. The Central Government, in addition, also pays transportation and packing charges.

About 600 books were received for the seventh prize competition in 1961.

Assamese: 'Gaon Seva Aru Rupaheer Tyag' by Smt. Mrinmoyee Dutta; 'Goanere Sarag Rachon' by Lakshmi Nandan Bora.

Bengali: 'Aajab Kal' by Debdas Dasgupta; 'Natun Jiban' by Ashoke Kumar and Chhabi Ray; 'Swapna Halo Satyi' by Shanker Nath Roy; 'Mati-ma' by Santosh Kumar Kundu.

Gujarati: 'Ekliyo Aladad' by Gunvantrai Acharya; 'Bhagwan Pote' by Ramanlal Soni; 'Ma Kadanu Mandir' by Jaibhikhu; 'Guru Bhakti' by Mooljibhai Pitambardas Shah.

Hindi: 'Vinoba Ke Pavan Prasang' by Suresh Ram; 'Van-Sampada' by Ramchandra Tiwari; 'Jhalkari' by Shankar Baam; 'Samy Ka Mol' by Jagan Naty Prabhakar; 'Jab Himalaya Bola' by Subhadra Devi; 'Gaun Ka Surpur Deu Banay' by Shyam Sunder Mishra;

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'Madhup'; 'Jivan Parivartan', by Om Prakash Gupta; 'Panchon Ka Faisala' by Radheshyam Sharma, 'Pragalbh'.

Kannada: 'Mama Nimma Hesarugalu' by R. R. Kupsad; 'Namma Vahanagalu' by R. R. Kupsad; (for purchase only); 'Mannu-Adara Huttu, Badhuku, Savu', by M. L. N. Iyengar.

Malayalam: 'Kozhivalar Thaal' by K. Kunju Krishna Pillai; 'Bhakra Nangal' by K. V. Thickurissi; 'Ithiri Mannum Othiri Manushyarum, by S. L. Puram Sadanandan; 'Kalithozhan' by P. V. Poulose.

Marathi: 'Vinobanchya Katha' by Raja Mangalwedkar; 'Nawa Prakash' by Kumari Lila V. Pradhan; 'Chala Alandila Jau' by Dnyanbhakta (N. G. Shukla); 'Manasachi Karani' by S. R. Deole & R. M. Joshi.

Punjabi: 'Char Meel Lambi Sarak' by Kashmiri Lal Zakir; 'Ganga Jamni' by R. S. Ahluwalia.

Tamil: 'Namdu Palangudikal' by P. Srinivasan; 'Azhinduvarum Selvam' by R. P. Sreenivasa Reddy.

Telugu: 'Apadbandhavulu' by Samrajyam Srinivasa Rao; 'Chhettu-Chema' by T. Ramachandra Rao; 'Navina Vyanvasayamu' by Bulusu Venkata Subba Rao.

Urdu: 'Kagaz Ki Kahani' by Mohd. Afaff; 'Ghame Hasti' by Mohd. Qutub Alam.

Oriya: 'Udjogi-Lavai-Lakshmi' by K. R. Mohanty; 'Pragati Pathe Bharata' by Adhirajmohan Senapati, Meria Bazar, Cuttack 1.

Children's Books

Out of the twenty-five children's books in 12 Indian languages which were awarded prizes (Nov. 1960), 21 books were awarded Rs. 500 each and four books were awarded Rs. 1,000. Out of the three children's books in one Indian language which were awarded prizes (Jan. 1961), two books got Rs. 500 each and one book got Rs. 1,000 under the Union Government's scheme for promoting literature for children. The award is made by the Ministry of Education and this is the sixth competition of its kind.

The scheme was initiated in 1954. With the sixth competition 137 books had been awarded prizes. A total of about 602 entries were received for the sixth competition. These prize competitions are organised in order to encourage the production of suitable literature for children under the Government of India's Scheme for the encouragement of literature for children.

In addition to the award of prizes 2,000 copies each of the prize-winning books will be purchased for distribution in schools, libraries, children's centres, etc.

The 28 books are the following. The prize awarded is given within brackets:

Assamese: 'Adim Zugar Adi Katha' by Dr. B. M. Das (Rs. 500); 'Jantur Sadhu' by Dr. Prasanna Ch. Goswami (Rs. 500).

Gujarati: 'Dilna Diwa' by Jaibhikhu-B. V. Desai (Rs. 500); 'Hathrasno Hathi' by K. L. Shridharani (Rs. 500).

Hindi: 'Aag Ki Kahani' by K. Sagar (Rs. 1,000); 'Hamare Pakshi' by Rajeshwar Prasad Narayan Sinha (Rs. 500); 'Main Dilli Hoon' by Ramavtar Tyagi (Rs. 500).

Kashmiri: 'Marcha Pipin Ta Chanchipoot' by Shankar Nath Kaul (Rs. 500).

Malayalam: 'Anakkaran' by K. N. Pillai (Rs. 1,000).

Marathi: 'Pankharanchi Shala' by G. G. Patil (Rs. 1,000); 'Pachuchen Bet' by Leeladhar Hegade (Rs. 500); 'Rangaonchi Aagagadi' by Smt. Sumatibai Paygaonkar (Rs. 500).

Oriya: 'Tanka Nua Ghara' by Durga Prasad Patnaik (Rs. 500); 'Kalia Balada Gala Gala' by Smt. Punnya Prava Devi (Rs. 500).

Punjabi: 'Gulab Kumari' by Lal Singh Gian (Rs. 500); 'Tasweeran Boldian' by Avtar Singh Deepak & Harinder Singh (Rs. 500).

Sindhi: 'Dadi Joon Akhaniyoon' by J. K. Gogia (Rs. 500).

Tamil: 'Tagorin Vaczvile' by A. Thilakavathi (Rs. 500); 'Muthur Padalgal' by M. Sivamuthu (Rs. 500); 'Gouthamma Buddhar' by R. Vajreswari (Rs. 500).

Telugu: 'Akasam' by Vissa Appa Rao (Rs. 1,000); 'Bommala Goutama Buddhudu' by Vedula Kameswara Rao (Rs. 500); 'Janthupuranam' by S. L. Narasimha Rao (Rs. 500).

Urdu: 'Chand Ki Kahani' by Mohammad Ishaq Siddiqi (Rs. 500); 'Ojhal Pari' by Safdar Naqvi (Rs. 500).

Bengali: 'Sadasiver Tin Kanda' by Saradindu Banerji (Rs. 1,000); 'Tapur Tupur' by Mohit Ghosh (Rs. 500); 'Chobitey Mahabharta' by Purnachandra Chakrabarty (Rs. 500).

In addition to the above prizes, the following two books have also been approved for the purchase of 2,000 copies each:—

Kannada: 'Neenoo Vignaniyagu' by Usha Devi.

Telugu: 'Bhartiya Desapu Janapada Kathalu' by Director, Publications Division, Min. of I & B, Old Secretariat, Delhi.

The Ministry of Education also announced the award of five additional prizes of Rs. 500 each to the authors of the following five books who were awarded a prize of Rs. 500 each in the Fifth Competition of books for Children:—

Hindi: 'A story of clock (Ghari Kaise Bani)' by R. C. Verma; 'In the Zoo of the World (Sansar Ke Chiriya Ghar Men)' by Kishore Garg.

Bengali: 'Where man has come from (Manush Elo Kotha Hotay)' by Saila Chakarvorty; 'The Yellow bird's feather (Haldey Pakhir Palak)' by Smt. Lila Majumdar.

Gujarati: 'Twinkling (Taraliya)' by Smt. Annie Chandrakant Sariya.

Basic Guides

The Union Ministry of Education have awarded (Dec. 1959) prizes to the following authors of guide books for Teachers of Basic Schools:

Mr. B. L. Shah, Government Basic Training College, Kadiadra, Distt. Sabarkantha, (Gujarat); Dr. D. V. Chickermane, Dy. Director of Education, Poona 1; Mr. Abdul Gaffar Mudholi, Teachers' College, Jamia Millia Islamia, Jamia Nagar, New Delhi; Mr. M. R. Barhate, Assistant, Lecturer, Graduate Basic Training Centre, Dhulia (West Khandesh); Mr. T. R. Venkatasubramanyam, Lecturer in Education, Vivekananda Training College, Tiruparoymurai, (Tridhy Distt.); Mr. A. Sakthivel, Teacher, (Model Basic School), C/o Sri Ramakrishna Mission Vidyalaya Teachers' College, Shri Ramkrishna Vidyalaya P.O. District Coimbatore.

This Competition was organised during 1958-59 in order to encourage the production of suitable guide books for Basic School teachers under the Central scheme for the production of literature and material for Basic Education.

Scientific and Technical

To encourage the publication of high class scientific books, both popular and academic, in the various Indian languages, the Union Ministry of Scientific Research and Cultural Affairs decided in March 1960 to institute an annual award of Rs. 10,000 to be given to a publisher each year beginning with 1960.

The award will be given to a publisher for the best series of scientific books published in any Indian language in the course of a calendar year. A series will be defined as consisting of at least five books published during one calendar year. Individual authors will not be eligible for the award.

The books should be of a high standard and, in case they are text-books, they should be for the use of students not below the graduate level.

Books published during the calendar year 1960 will be considered for the award.

Hindi

To encourage the production of literature in Hindi on scientific and technical subjects, the Union Ministry of Education have decided to award 20 prizes of Rs. 1,500 each on unpublished advanced books in Hindi. These prizes will be open to any living author for original books as well as translations of standard books from other languages.

The prizes will be divided into the following three categories:—

Category I: Six prizes of Rs. 1,500 one on each of the following physical or natural sciences: physics, mathematics, chemistry, botany, zoology and geology. Books under this category may either be general books or may deal with any one branch of any of the subjects mentioned above. The standard must not be lower than that of B.Sc. of Indian universities.

Category II: Six prizes of Rs. 1,500 one on each of the following subjects:—Agriculture, medicine, meteorology, civil engineering, metallurgy and architecture. The standard here again should not be lower than that of graduate standard of engineering and technological institutes.

Category III: Eight prizes of Rs. 1,500 one on each of the following social sciences:—

Political science, economics, sociology, anthropology, international law, psychiatry, experimental psychology and education. The standard of books submitted under this category should not be lower than that of the post-graduate standard of the Indian universities.

The prize-winning authors will be free to get their books published and Government will guarantee purchases of at least 500 copies each of the books, subject to the condition that the books are published according to the pattern set by the Government of India. The Government will not, however, bear any share of the cost of publication of the books.

A committee of three competent persons will be set up to examine entries for each subject. Their assessment will be submitted to the Ministry within a month of the receipt of entries by them and the Ministry's decision in all cases will be final.

TEACHERS

The Union Ministry of Education instituted in 1959 a scheme of national awards to teachers, with the object of recognising the outstanding services of teachers to the community, and to raise their social status.

Under this Award 71 teachers in primary and secondary schools were awarded in 1960 Rs. 500 each in cash and a certificate of merit. The names of the recipients for 1960 have been given in 1960-61 edition of the Directory.

Teachers' national awards for 1961 have not been finalised.

The scheme is likely to be extended later to members of the inspectorate and university teachers.

ART

Below we give the Lalit Kala Akademi Awards in 1961. The work of the following artists were selected for the award of cash prizes of Rs. 1,000 each.

Painting: Arun Bose for *'Suburb'*; C. J. Anthony Doss for *'Life at Sea'*; Triloke Kaul for *'Composition'*; Gautam Dahyabhai Vaghela for *'Yellow River'*.

Sculpture: Dhan Raj Bhagat for *'Homeward'*; Madhab Chandra Bhattacharjee for *"Torso"*; Rajnikant R. Panchal for *'Cock'*; Nagajibhai M. Patel for *'Torso'*.

Graphics:

Laxman Pai for *'Four Signs'*; Vindray Pate for *'Bird Sellers'*.

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The Committee withheld the Gold Plaque of the Akademi, as no work was adjudged of outstanding merit.

MUSIC, DANCE, DRAMA

The Sangeet Natak Akademi Awards are given below. The winners are selected by the General Council of the Akademi.

The Award presented by the President consists of a shawl or a brocade Angavastra (upper garment), a gold shrinkhal (bracelet), a gold mala or a lotus embossed leaf in gold, and a sanad.

In 1957 the Akademi also decided to give awards for the best plays and the best production of plays.

The award for the best play is a cash prize of Rs. 2,500, a gold "Shrinkal" (bracelet) and a shawl to the author of the play.

In the case of the best production a prize of Rs. 2,500 is given to the "best adjudged production." The winning group is paid Rs. 2,500 for production expenses.

To give fillip to the folk arts, an award called the "Folk Dance Trophy" has been added for the best participating troupe in the National Folk Dance Festival held every year as a part of the Republic Day Celebrations.

The plays and scripts have to be original.

Below we give the awards for 1960-61 :—

Hindustani Music :

Vocal .. .. .. Pandit Yeshwant Sadashiv Mirashibuwa.

Instrumental .. .. Kanthe Maharaj (tabla).

Karnatak Music :

Vocal .. .. .. Mudikondam Venkatarama

Instrumental .. .. Late T. N. Swaminatha Pillai (flute).

Dance :

Kathakali .. .. Guru Ravunny Nair.

Manipuri .. .. T. Amudon Sharma.

Marathi Tamasha .. Bapu Khude Narayangaonkar.

Kachipudi style .. Vedantam Satyanarayana Sarma.

Drama :

Playwright .. .. Prabhulal Dayaram Dwivedi (Gujarati) Smt. Sheela Vats (Punjab).

Acting .. .. .. Kasambhai Mir (Gujarati); Shanam Narasimha Rao (Telugu); Mitradeb Mahaut (Assam); M. V. Subbiah Naidu (Kannada); Samuel Sahu *alias* Babu (Orissa).

Film :

Acting .. .. Lalita Pawar.

Song & lyric composing .. Pradeep.

Scripts .. .. .. Mukhram Sharma.

FILMS

"Anuradha", a feature film in Hindi, has been awarded the President's Gold Medal as the best feature of 1960. Its producer will get a cash prize of Rs. 20,000 and its director Rs. 5,000.

The All-India Certificate of Merit for the second best feature film goes to "Kshudhita Pashan" (Bengali) with a cash prize of Rs. 10,000 to its producer and Rs. 2,500 to its director. The third prize in this category, goes to "Deivapiravi" (Tamil) and will get the All-India Certificate of Merit.

The Central Committee viewed 21 feature films, 5 children's films, 6 documentaries and 5 educational films which accounted for a screening time of about 60 hours.

Among the Children's Films, "Phool Aur Kaliyan" has been awarded the Prime Minister's Gold Medal and a cash prize of Rs. 20,000 to its producer and Rs. 5,000 to its director, "Id-Mubarak", the All India Certificate of Merit and a cash prize of Rs. 10,000 to its producer and Rs. 2,500 to its director, and "Delhi-Ki-Kahani" the All India Certificate of Merit.

The awards for Documentary Film go to "Kangra and Kulu" (President's Gold Medal and a cash prize of Rs. 4,000 to its producer and Rs. 1,000 to its director); "Saga of Service" (All-India Certificate of Merit and a cash prize of Rs. 2,000 to its producer and Rs. 500 to its director); and "The Weavers" (All-India Certificate of Merit)'

The Educational Film "Pond Culture" gets President's Gold Medal and a cash prize of Rs. 4,000 to its producer and Rs. 1,000 to its director; "Cotton" the All-India Certificate of Merit; and "Wheat" the All-India Certificate of Merit.

For the Regional Awards "Mughal-e-Azam" in Hindi, "Kanyadan" in Marathi, "Devi" in Bengali, "Shree Lokanatha" in Oriya, "Parthiban Kanavu" in Tamil and "Mahakavi Kalidasu" in Telugu have won Silver Medals. The Certificates of Merit have been awarded to "Jis-Desh-Men Ganga Behti Hai" and "Kanoon" in Hindi, "Umaj Padel Tar" in Marathi, "Mendi Rang Lagyo" in Gujarati "Ganga" in Bengali, "Paathai Theriyuthu Par" and "Kalathur Kannamma" in Tamil, "Seetharama Kalayanam" in Telugu, and "Bhakat Kanakadasa" in Kannada.

FILMFARE AWARDS FOR 1960

Best Picture : "Mughal-e-Azam"

Best Director : Bimal Roy ("Parakh").

Best Actor : Dilip Kumar ("Kohinoor").

Best Actress : Bina Rai ("Ghunghat").

Best Supporting Actor : Motilal ("Parakh").

Best Supporting Actress : Nanda ("Aanchal").

Best Story Writer : Ruby Sen ("Masoom").

Best Music Director : Shanker and Jaikishen ("Dil Apna Aur Preet Parai").

Best Dialogue Writer : Writers of "Mughal-e-Azam".

Best Lyricist : Shakeel Badyuni (for the song "Chaudhvin Ka Chand" in the film of the same name).

Best Playback Singer : Mohammad Rafi ("Chaudhvin Ka Chand").

Best Cinematography : R. D. Mathur ("Mughal-e-Azam)".

Best Sound Recording : George D'Cruz ("Parakh").

Best Editing : Moosa Mansoor ("Kohinoor").

Best Art Direction : Biren Nang ("Chaudhvin Ka Chand").

The veteran Director Bimal Roy scored another triumph as the Best Director. For the first time, the Best Story Award was won by a Woman writer, Ruby Sen, for the story of 'Masoom'. She also won the Cash prize of Rs. 5,000 offered by the management of 'Filmfare' with a view to encouraging the writing of good and purposeful film stories.

SERVICE OFFICERS

Vishisht Seva Medals

Lieutenant-General B. M. Kaul, Quartermaster-General, Army Headquarters, headed the long list of Service officers who were given Republic Day awards in 1961.

He was awarded the Vishisht Seva Medal Class I (Distinguished Service Medal) for successfully completing the "Amar" housing project at Ambala in the face of numerous difficulties which he overcame "by dint of hard work and initative of the highest order."

The other recipient of the Vishisht Seva Medal, Class I was Rear-Admiral Daya Shankar, Controller-General, Defence Production, who as Director-General of Ordnance Factories, "within the short time of two years, with single-minded devotion, revolutionised the work in the ordnance factories."

Vishisht Seva Medals, Class II were awarded to Brigadier N. C. Rawlley, Colonel P. T. Joseph, Lt.-Col. P. L. N. Choudhary, Commodore S. M. Nanda, Surgeon Commodore A. K. Dev, and Squadron-Leader Chandan Singh.

Vishisht Seva Medals, Class III, were awarded to Major N. Balakrishnan, Major R. E. Belle, Captain (now Major) V. X. D'Souza, Captain Amar Nath, Captain (now Major) Hardial Singh, Captain (now Major) S. R. Abraham, Major L. D. Khurana, Commander-at-Arms M. B. Samuel, Sqd.-Ldr. A. B. Patil, Capt. (now Major), F. X. Manuel and Senior Commissioned Officer B. M. Baba, I.N.

This is the first time since the institution of the new medals in 1960 that the Vishisht Seva Medals, Class I, II and III, have been awarded to officers of the Armed Forces.

Sena Medals

Sena Medals (Army Medals) were awarded to Major H. N. Chatterjee, Major S. S. Chhachhi, Major (now Lt.-Col.) R. N. Devi Singh, Second Lieut. A. J. Cardozo, Sub. K. Narayanan, Sub. B. B. Lal, Jem. S. N. Upadhyay, Jem. Charan Singh, Hav. A. Warrier, Hav. R. Choudhury, Hav. C. P. Sebastian, Hav. S. R. Barua, Hav. Jainarayan Singh, Ris. Major R. L. Mohan, Hav. Pat Ram, Naik Rambahadur Gurung, Naik Mahinder Singh and Sepoy Suram Chand.

Nao Sena Medal (Navy Medal) was awarded to Commander P. I. Telles.

Vayu Sena Medals (Air Force Medals) were awarded to Sqd.-Ldr. H. S. Gill, Flt./Lt. (now Sqd.-Ldr.) C. B. J. Alexander, Flt/Lt. I. S. Loughran, and Flying Officer Virendar Kumar.

POLICE

The following received the President's Police and Fire Services Medal :

Narsingh Pershad, I.P.S., Superintendent of Police, Railway Police, Secunderabad, Andhra Pradesh; Ram Akhandaleshwar Prasad Sinha, I.P., Deputy Inspector-General of Police, Anti-Dacoity, Criminal Investigation Department, Bihar; Nihar Kumar Mukherji, I.P.S., Superintendent of Police (A), Special Branch, Criminal Investigation Department, Bihar; Manakat Krishna Menon, Inspector-General of Police, Kerala; Sarnatha Ramalingam, Deputy Superintendent of Police (Officiating), Madras; Satyendra Nath Hosali, I.P., Inspector-General of Police, Mysore; Ajaib Singh, I.P.S. Deputy Inspector-General of Police, Criminal Investigation Department, Punjab; Bishamber Nath, I.P.S., Superintendent of Police, Criminal Investigation Department, Special Branch, Delhi; Anjani Bir Prasad, I.P.S., Deputy Director, Subsidiary Intelligence Bureau, Lucknow.

CHILDREN

The Indian Council for Child Welfare selected ten children for national awards for 1960 for either showing outstanding courage in difficult situations or rendering outstanding service to the people.

The only girl among the winners of these awards is 15-year-old Lakshmi Rani Rajput of U.P. Two boys, while crossing a railway line, got accidentally wedged between a moving train and the Goods Shed Platform. She rushed to

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them and held to the boys' hands in an effort to keep them from falling under the wheels. Meanwhile one of the boys slipped and his fingers were injured, but she hung on to their hands firmly till the train passed away. By this outstanding act of service, this girl saved the boy from grievous injury.

Nand Kishore (9½ years) (Ajmer), while returning from his school, saw two boys fall into the flooded Nalla which was overflowing due to a torrential downpour. Nand Kishore jumped to their rescue and brought both boys out of the Nalla. He was awarded for showing a sense of service.

Chiguru Venkata Narsu (12 years) (Andhra), hearing the alarm raised by a woman, when a girl aged six, fell into a well, jumped in and brought the girl out. He has been awarded for showing outstanding courage.

Raj Kumar Singh (12 years) (Bihar), while returning home from school, heard the cries of several grown-up persons shouting for some one to save two children drowning in the river. Raj Kumar jumped into the river and brought both the boys out. It is an act of outstanding courage.

V. Surendran Nair (14 years) (Kerala) saved the life of a four-year old boy who had fallen into the river from a 20 ft. high bridge. The act of jumping off the high bridge and saving the little boy, showed outstanding courage.

S. Rajadurai (13 years) (Madras) saved the life of a boy, aged 15, who fell into the river and was being carried away. This act showed a high sense of service.

Peter Raj (15 years) (Madras) jumped into the well and brought up a small girl who slipped and fell in. This showed a great spirit of courage.

Rabinarayan Naik (12 years) (Orissa), while taking bath in the river, saw a boy floundering out of this depth in considerable danger. He jumped into the river which was 12 ft. deep at that point and with great gallantry rescued the boy.

Puran Chandra Mohanty (15 years) (Orissa), was awarded for showing outstanding presence of mind. A school building with thatched roof caught fire. As the doors of the first floor were locked and keys were not available, Puran Chandra Mohanty clambered to the roof by climbing up a bamboo pole and pushed aside the burning straw. Just below were some buckets and rope which he threw down to be filled with water and by these efforts put out the fire and saved not only the school building but all its books and records.

Nirbhay Singh (16 years) (Madhya Pradesh), jumped into the swollen Narbada river in the rainy season to save the life of a 12-year old girl who had accidently slipped into the river while taking her bath.

GRAM SEVAKS

The 1960-61 prize for the best Gram Sevak in the country has been won by Mr. Raghbir Singh Mandhar, of Ludhiana Block in Punjab State. The amount of prize money is Rs. 2,500. It was awarded in the shape of a bicycle and the balance as national Plan savings certificates.

The award relates to the third All-India Competition, organised by the Ministry of Community Development and Cooperation, to give prizes to gram sevaks for outstanding work at the national, State and district levels. The 1960 prize at the national level was won by Mr. V. S. Karjigi of Devangere Block in the Chitaldurga District of Mysore State.

The prize at the national level is awarded to the gram sevak adjudged the best from among those selected at the State level, all the Union Territories being counted as one State for the purpose.

The items of work for which the competition is organised relate to the economic side of the Community Development programme, e.g., agricultural production, animal husbandry, village industries and cooperation.

CULTURAL SCHOLARSHIPS

The following 23 persons were selected by the Union Ministry of Scientific Research & Cultural Affairs for the award of scholarships under the "Scheme of Scholarships to Young Artistes in Different Cultural Fields" during the year 1960-61 :—

Bharat Natyam: Miss K. Usha Rani (Bangalore), Miss Pushpa Bhujanga Nayak (Bombay), and Miss N. Kala (Madras).

Kathak: Miss Rani Karna (Delhi) and Miss Reba Chatterjee (Ajmer).

Kathakali: Miss Jayshree Sivashanker (Delhi) and Miss M. K. Rani (Ottapalam).

Manipuri: Hari Charan Sinha (Shillong).

Hindustani Music (Vocal): Miss Shafali Chakravarty (Calcutta) and Mrs. Mulgaonkar Suhasini (Bombay).

Hindustani Instrumental Music: Mohd. Ziaul Hasan (Hyderabad) (in *Sitar*) and Jagdish Prakash Qamar (Delhi) (in *Shehnai*).

Karnatic Vocal Music: Miss S. Rajalakshmi (Coimbatore) and Miss M. B. Singamma (Madras).

Karnatic Instrumental Music: S. Sankaran (Madras) (in *Mridangam*) and Miss M. Meenakshi Ramanathan (Kanya Kumari Dt.) (in *Veena*).

Folk Song: Nirendu Choudhury Bharanagar (West Bengal).

Drawing and Painting: Ratilal Vinodray Patel (Baroda) and Miss Usha Pasricha (New Delhi).

Sculpture: R. R. Panchal (Baroda) and Miss Rita Basu (Calcutta).

Drama: Mrs. Kala H. Shah (Ahmedabad) and Miss Daya Gangadhar Modak (Poona). The value of the scholarship is Rs. 250 per mensem. The duration of scholarship will be one year in the first instance with a provision for extension by two years, on an yearly basis, subject to progress being satisfactory at annual tests conducted by a Committee appointed by the Government.

SCHOLARSHIP IN HUMANITIES

In addition to the 29 awards announced on March 15, 1960, the Ministry of Education have selected the following 20 candidates for the award of research scholarships in humanities. This brings the total number of scholarships awarded for research in humanities under the 1959-60 scheme to 49 :

Economics: M. R. Ganapathy Rao, S. Neelamegham; *History:* Smt. Aparna Chattopadhyaya, Ravindra Narain Sharma, Gangeshwar Jha; *Philosophy:* Km. Uma De; *Political Science:* Mohammed Hamid Ansari, Km. Malathi Krishna Rao; *Pyschology:* Amal Kumar Mallick; *Sociology:* V. Rangarajan; *English:* Smt. Asha Garg; *Hindi:* Tulsi Das; *Kannada:* Vasantacharya Kushtagi; *Malayalam:* Km. K. A. Kalavathi; *Sanskrit:* Smt. Thekkath Amayangot Sarasvati, Smt. Shail Kumari Srivastava, Km. Om Bajaj, Aya Charan Tripathi, Km. Gargi Uniyal; *Tamil:* Rama Ramanathan.

The Government of India instituted in 1953 this scheme for the grant of scholarships to students who have already obtained a Master's or equivalent degree and wish to engage in advanced research in any branch of humanistic studies in India.

DESIGN COMPETITION

The competition had been instituted by the All India Handicrafts Board to encourage initiative in the field of designs.

Two cash prizes of Rs. 500 and Rs. 350 have been awarded to Baikuntha Nath Karmarkar of Calcutta for his designs of flower vases. Gulam Mohammed Kashmiri and Babu Lal of Delhi have been given Rs. 500 and Rs. 200 respectively for a brass table. A prize of Rs. 350 has been given to Doman Malhohar of Patna for designing decorative figures. The Gulistan Bidri Works Co-operative Society, Hyderabad, has won a prize of Rs. 500 for the head of Yashodra in bidriware.

PRINTING AND DESIGNING

The names of winners of the first prize in State Awards for excellence in Printing and Designing of Books and Publications for 1960 are given below. The competition is held by the Directorate of Advertising and Visual Publicity of the Ministry of Information & Broadcasting.

Children's Books (Children below ten): Janvason Ka Basant, Kesas Kiary Press, Delhi (Printer), Hem Kunt Press, New Delhi (Publisher).

Children's Books (Children above ten): Not awarded.

Illustrated Books: Face of New India, The Caxton Press (P.) Ltd., New Delhi (Printer), Publications Division, Ministry of Information and Broadcasting, Delhi (Publisher).

Art Books: International Photography, Cameo (P.) Ltd., Calcutta (Printer), Assam Photography, Sri Aurobindo Asram, Pondicherry (Publisher).

Book Production (English): Handicrafts and Industrial Arts of India, Vakil and Sons (P.) Ltd., Bombay (Printer), D. B. Taraporevala Sons & Co. (P.) Ltd., Bombay (Publisher).

Book Production (Indian Languages): Bankim Chandra, B.B.D. Power Press, Bangalore (Printer), University of Mysore (Publications Division,) Mysore (Publisher).

Daily Newspapers: The Statesman, Calcutta, The Statesman Printing Press, Calcutta (Printer and Publisher).

Daily Newspapers (Indian Languages): Navbharat Times (Hindi), Bombay, Bennett Coleman & Co., Bombay (Printer and Publisher).

Display Advertisement Layouts: From the Seed, Hindustan Lever Ltd., Bombay (Advertiser), Lintas Ltd., Bombay (Designer).

Art Magazines and Annuals: Design, G. Claridge & Co., Bombay (Printer), Builders Publications of India, Ltd., Bombay (Publisher).

House Journals: Indalink, Navana Printing Works (P.) Ltd., Calcutta (Printer), The Indian Aluminium Co. Ltd., Calcutta (Publisher).

Periodicals (Other than Annuals)—English: Not awarded.

Periodicals (Other than Annuals)—Indian Languages: Vigyan Pragati (Hindi), Asia Press, Delhi (Printer), Council of Scientific & Industrial Research, New Delhi (Publisher).

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Point of Sales (Counter and Display Mateiral):, Khasinol, Leaders' Press Ltd., Bombay (Printer), Asiart Advtg. & Allied Services Bombay (Designer).

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BHOODAN

The position of the Bhoodan Yagna Movement upto 31st December 1959 is shown in the table below.

Since Gramdan (the whole cultivable land in the village to be donated to the Gram Sabha) proved to be an advanced stage of Bhoodan, the Akhil Bharat Sarva Seva Sangh, by its resolution, gave a call to the country to concentrate on Gramdan. At the same time new items of Sarvodaya Patra and Shanti Sena have been added to consolidate the Gramdan Movement. Due to the above programmes the work of distribution of land was slackened.

The headquarters of the movement are at Akhil Bharat Sarva Seva Sangh, Rajghat, Kashi, Varanasi (U.P.).

STATE	Land Collection (in acres)	Land Distribution (in acres)	No. of Gramdan
Assam	23,196	225	172
Andhra	2,41,950	95,278	481
Utkal	3,96,466	1,18,335	1,946
Uttar Pradesh	4,11,484	1,27,835	61
Kerala	29,021	2,126	543
Tamilnad	70,823	2,349	250
Delhi	396	157	—
Punjab	19,929	5,653	19
Bihar	21,06,342	2,46,198	153
Gujarat	47,486	11,527	63
Nag Vidarbh	94,144	55,615	—
Maharashtra*	64,360	10,561	540
Saurashtra	31,237	8,185	—
Bengal	12,352	2,972	26
Madhya Pradesh	4,04,690	88,770	74
Mysore	19,973	2,527	66
Rajasthan	4,31,250	86,685	235
Himachal Pradesh	1,568	21	4
	44,06,667	8,64,419	4,633

Upto Aug. 1960, 44,11,191 acres of land had been donated by various individuals towards the Bhoodan movement.

* Bombay is included in Maharashtra State.

CRIME IN 1959

There was a decline of 19·0 per cent in dacoity cases in 1959, from 4,658 in 1958 to 3,774.

Similarly, the incidence of counterfeiting declined by 20·2 per cent, from 555 in 1958 to 443. Cases of robbery and house-breaking also showed a drop of almost 8 per cent.

But the total number of cognizable cases was practically the same, 5,82,002 in 1959 as against 5,90,987 in 1958 and 5,81,371 in 1957.

A small increase was visible under heads like murder (0·5 per cent), kidnapping and abduction (6·9 per cent), and cheating (1·8 per cent).

Among the States where cognizable crime showed a noticeable fall were: Andhra Pradesh, Bihar, Bombay (bilingual), Himachal Pradesh, Jammu and Kashmir, Naga Hills and Tuensang Area, Uttar Pradesh and West Bengal.

However, a substantial rise was noticed in Assam, 9·2 per cent. There was also increase in Kerala (6·5 per cent), Madhya Pradesh (1·2 per cent), Tripura (18·6 per cent), Madras (2·6 per cent) and Mysore (2·9 per cent).

Two cities in which crime went up were: Bombay, 15,781 in 1958 to 16,177, and Kanpur, 1,828 in 1958 to 2,110.

CAUSES

In Assam the high cost of essential commodities, activities of Naga hostiles in the districts of Sibsagar, United Mikir and North Cachar Hills as also import of a large number of labourers with unknown antecedents for work on the Brahmaputra Bridge Construction Project and installation of the oil refinery were held responsible for the increase. Madras attributed the increase to increased cost of living. Mysore ascribed the increase to adverse seasonal conditions in some parts of the State resulting in failure of crops, rise in prices of food grains, poor economic conditions and unemployment. In Tripura, the increase was ascribed to the abnormal increase in the price of food-stuffs and other essential commodities and depredations by raiders in the Indo-Pakistan border area.

The decrease in Bihar was attributed to systematic and intensive police patrol, tightening of preventive measures and surveillance over criminals.

In Kanpur city the increase was due to party factions and adverse economic conditions.

In Hyderabad city, the increase was due to activities of several juvenile offenders and of casual criminals who had not come to notice previously.

Madras attributed the increase to higher cost of living and Mysore to failure of crops, rise in prices of foodgrains, poor economic conditions and unemployment.

At the close of 1958, 1,56,516 cases were awaiting disposal in the courts and 56,144 cases were pending investigation with the police. During the year under review 5,82,008 cases were registered with the police. In 5,30,298 cases investigation was either refused or the cases were declared to be false or were due to mistake of fact or law or were declared non-cognizable or cases which had abated on account of the death of the accused or because the accused was declared insane or which remained undetected at the end of the year 1959.

Charge-sheets were submitted in 2,64,370 cases. Of these, 1,42,967 cases were convicted, 79,876 acquitted or discharged.

The percentage of conviction to true cases investigated was 28·4 as against 27·0 of 1958. The States which had a higher percentage of conviction than the all-India figure of 28·4 were Himachal Pradesh (49·8), Andhra Pradesh (48·9), Madras (48·0), Mysore (38·0), Punjab (34·9), Andaman & Nicobar Islands (33·6), Kerala (30·3), Madhya Pradesh (29·5) and Naga Hills (29·5).

Sixty-nine Police Officers and men were killed and 1,778 injured during the year in the performance of their duties. The highest number killed was in U.P. (13), followed by Jammu & Kashmir (10), Rajasthan (9), Bihar, Punjab and Manipur (6 each), Orissa (5), Bombay and Madras (4 each). Among the injured, Bombay accounted for 571, West Bengal 413, Rajasthan 143, Kerala 100, Bihar 81, Madhya Pradesh 68, and Andhra Pradesh 67.

Children and adolescents between the ages of 7 and 21, arrested for crimes like murder, robbery, house-breaking, thefts, etc., totalled 47,925, including 2,143 girls. The largest number of offenders—26,424 boys and 1,058 girls—was between 17 and 21 years.

A large number of offences were such as have been prohibited under the Children's Act, that is, begging, betting, smoking and drinking.

Juveniles sent to courts were 45,779 and to institutions 4,845. About 29,000 were either admonished, fined or bound down for good behaviour. The largest number of such cases dealt with was in Greater Bombay. Madras was second and Andhra Pradesh third.

PREVENTIVE DETENTION

As on 30th Sept. 1960, 106 persons were held in various States under the Preventive Detention Act, 1950. Statewise, persons detained were: West Bengal 57, Maharashtra 16, U.P. 13, Manipur 11, Assam 5, Punjab 2 and one each in Andhra Pradesh and Gujarat.

Out of these, 105 persons were detained for reasons involving either the security of the States or the Maintenance of Public Order.

CRIME UNDER DIFFERENT HEADS

The table below shows the number of cases reported during the years 1958 and 1959 under the more important heads of crime:—

Head	1958	1959
Total cognizable crime	5,90,987	5,82,008
Murder	10,661	10,712
Kidnapping and Abduction	6,043	6,459
Dacoity	4,658	3,774
Robbery	7,120	6,367
House-breaking	1,24,695	1,18,205
Thefts — Cattle	23,832	20,577
Thefts — Ordinary	2,12,271	2,12,475
Rioting	24,942	26,987
Criminal Breach of Trust	16,017	15,878
Cheating	9,503	9,677
Counterfeiting	555	443
Miscellaneous	1,50,690	1,50,454

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CRIME—BY STATE

The table below shows the incidence of reported crime in the various States and centrally administered areas of India during the years 1958 and 1959 and the volume of crime calculated according to the international standard per 100,000 of population :—

State	Total cognizable crime		Volume of crime per 100,000 of population 1959
	1958	1959	
Andhra Pradesh	35,762	34,296	109·7
Assam	17,261	18,853	208·5
Bihar	59,208	55,777	143·8
Bombay*	1,04,930	99,402	206·0
Jammu and Kashmir	3,938	3,757	85·2
Kerala	15,586	16,599	122·5
Madhya Pradesh	70,741	71,591	274·6
Madras	54,612	56,032	186·9
Mysore	23,418	24,100	124·2
Orissa	20,895	20,830	142·2
Punjab	19,128	18,881	117·0
Rajasthan	19,156	19,586	122·6
Uttar Pradesh	66,154	64,272	101·7
West Bengal	65,290	62,966	239·4
Union territories :			
Andaman and Nicobar Islands	196	168	542·4
Delhi	10,357	9,899	567·6
Himachal Pradesh	1,102	1,068	96·3
Manipur	851	1,122	194·2
Naga Hills and Tuensang Area†	201	198	53·7
Tripura	2,201	2,611	408·6
Cities with population of over one million :			
Bangalore	4,100	3,907	501·5
Bombay	15,781	16,177	569·8
Calcutta	12,247	11,893	259·8
Delhi	10,357	9,899	567·6
Hyderabad	3,542	3,817	351·5
Kanpur	1,828	2,110	299·1
Madras	6,288	6,010	424·4

* Bilingual. † Now known as Nagaland.

CASES—DETECTION, CONVICTION—BY STATE

Below we give a table showing the position during 1959.

State	Cases reported	Cases not detected	Cases convicted	Cases acquitted or discharged
Andhra Pradesh	34,296	8,374	14,461	4,986
Assam	18,853	7,683	3,024	2,733
Bihar	55,777	29,889	6,097	7,397
Bombay*	99,402	41,386	23,789	14,542
Jammu and Kashmir	3,757	856	410	766
Kerala	16,599	2,274	4,075	5,133
Madhya Pradesh	71,591	34,451	18,670	5,862
Madras	56,032	14,448	22,699	7,706
Mysore	24,100	4,830	7,390	4,146
Orissa	20,830	8,202	3,987	2,464
Punjab	18,881	6,602	5,691	2,867
Rajasthan	19,586	6,916	3,861	2,550
Uttar Pradesh	64,272	30,168	16,162	9,307
West Bengal	62,966	34,852	9,886	8,040
Total	5,66,942	2,30,931	1,40,202	78,499
Union Territories :				
Andaman and Nicobar Islands	168	56	46	30
Delhi	9,899	6,119	1,865	822
Himachal Pradesh	1,068	186	451	153
Manipur	1,122	417	141	93
Tripura	2,611	1,366	216	261
Naga Hills and Tuensang Area†	198	82	46	18
Total	15,066	8,226	2,765	1,377
Grand Total	5,82,008	2,39,157	1,42,967	79,876
Prominent Cities :				
Bombay*	16,177	9,043	3,416	2,675
Calcutta	11,893	6,822	2,910	1,171
Delhi	9,899	6,119	1,865	822
Madras	6,010	1,755	3,502	356

* Bilingual. † Now known as Nagaland.

NOTES

Murder: The States which showed noticeable increase were Madhya Pradesh (10·2 per cent), U.P. (3·5 per cent), Rajasthan (6·1 per cent), Orissa (7·5 per cent), West Bengal (4·1 per cent). There was a noticeable decrease in murders in Andhra Pradesh (9·6 per cent), Bihar (6·2 per cent), Bombay* (1·4 per cent) and Jammu and Kashmir (17·3 per cent).

Among the Union Territories which showed a decrease were Delhi (16·9 per cent), Himachal Pradesh (53·8 per cent), Manipur (50·0 per cent) are Tripura (78·6 per cent).

Among the cities, a noticeable increase occurred in Bombay (16·1 per cent).

The percentage of conviction was 38·5 as against 36 of the preceding year.

Kidnapping : Noticeable increase occurred in Rajasthan (23·7 per cent), U.P. (7·8 per cent), M.P. (6·8 per cent), Mysore (24·2 per cent), Andhra Pradesh (25·2 per cent), Bihar (8·5 per cent) and in the city of Calcutta (24·6 per cent).

Rajasthan attributed the increase in the fact that people reported a large number of cases to the police during the year though previously they used to get these settled by Village Panchayats. This change-over was mainly due to the fact that the parties had to incur heavy expenditure in calling the Panchayat.

In U.P. the increase was ascribed to love affairs and family disputes. In Calcutta city the increase was ascribed to damaged social order due to the continued influx of displaced persons.

In M.P. the increase was due to the activities of dacoits who took to kidnapping and abduction for ransom.

Mysore and Andhra Pradesh did not give any reason for the increase. Bihar attributed it to the growth of urbanisation and consequent disintegration of moral values and also to poverty, unemployment and activities of unsocial elements.

The percentage of conviction to persons tried was 30·3 as against 29·5 in 1958. In the seven bigger cities the percentage was 46·0 (38·3 in 1958).

Dacoity : Excepting the Union Territories of Manipur and Tripura, and the States of Orissa, Mysore, Rajasthan and U.P. which showed an increase of 64·3 per cent, 44·4 per cent, 18·4 per cent, 10·1 per cent, 8·0 per cent and 2·9 per cent respectively, all other States registered a decrease.

In Mysore some of the cases were technical in nature. In a number of cases exaggerated and false complaints were made by the complainants which on investigation were found to be less heinous offences. In Orissa the increase was due to activities of outside criminals, economic distress consequent on partial failure of crops and rise in prices of food-stuffs and essential commodities. In Rajasthan the increase was reported to be due to sudden spurt in crime in Bharatpur after the last year's floods which led to scarcity of essential commodities. In U.P., the increase was ascribed to adverse economic conditions due to failure of rains and damage caused to standing crops by untimely heavy rains and general rise in prices.

Bihar had anti-dacoity squad which brought many gangs of criminals to book. In Bombay increased surveillance over known criminals and bad characters, intensive patrolling, nakabandi, mobile wireless patrolling and armed patrolling by men of the S.R.P.F. in some of the affected parts of the State brought down the cases of this type. West Bengal and Assam ascribed the decrease of cases to police vigilance and activities of resistance group members. In Andhra Pradesh the decrease of cases was attributed to effective mobile patrolling of the border districts of Telangana area.

The percentage of persons convicted to those tried was 32·3 as against 29·8 of 1958.

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CASES—DETECTION, CONVICTION—BY CATEGORY

Below we give a table showing the position in regard to detection and conviction of crime for 1959.

Classification	Cases reported during the year	Cases not detected	Cases convicted	Cases acquitted or discharged
Murder	10,712	2,429	3,829	3,821
Kidnapping and Abduction	6,459	1,332	1,255	1,693
Dacoity	3,774	1,643	1,085	1,278
Robbery	6,367	2,452	1,279	1,475
House-breaking	1,18,205	77,536	23,819	9,408
Cattle Theft	20,577	7,306	7,270	2,682
Ordinary Theft	2,12,475	1,07,403	53,743	14,767
Riot	26,987	3,909	5,385	9,572
Criminal Breach of Trust..	15,878	4,222	4,902	2,344
Cheating	9,677	2,939	2,703	1,629
Counterfeit Coins	443	124	154	99

Robbery: There was an increase in M.P. (10·0 per cent), U.P. (5·7 per cent), Madras (6·9 per cent), Orissa (8·7 per cent). It decreased in Bombay * (16·7 per cent), Bihar (29·2 per cent), West Bengal (16·9 per cent), Assam (12·0 per cent), Rajasthan (6·1 per cent) and Andhra Pradesh (12·7 per cent).

M.P. attributed the increase to police action against dacoits, as a result of which dacoit gangs started committing robberies. U.P. attributed the increase to adverse economic conditions due to failure of rains or damage to standing crops by untimely heavy rains and a general rise in prices.

The percentage of conviction was 40·4 as against 39·3 of 1958.

House-Breaking: Marked decreases occurred in Bihar (10·3 per cent), U.P. (9·8 per cent), Bombay* (7·8 per cent), M.P. (4·5 per cent), West Bengal (5·3 per cent), Andhra Pradesh (6·3 per cent) and Delhi (15·4 per cent).

There was increase in Mysore (11·9 per cent), Kerala (19·9 per cent), Assam (5·5 per cent) and Madras (1·2 per cent).

The States which recorded more than 10,000 cases were Bihar (18,285), Bombay* (16,776), M.P. (15,585), U.P. (15,570) and West Bengal (10,348). The volume of crime was above 50 per 1,00,000 persons in Tripura (122·6), Andaman & Nicobar Islands (84·0), Delhi (69·3), M.P. (59·8) and Assam (51·3).

The percentage of conviction to persons tried was 59·8 as against 61·7 of 1958.

Thefts: Cattle thefts decreased by 13·7 per cent and ordinary thefts increased by 0·1 per cent. Cattle theft showed an increase in Rajasthan (3·4 per cent) and Assam (16·2 per cent) and decreased in Madras (29·2 per cent), U.P. (13·9 per cent), Bombay* (16·9 per cent), M.P. (11·2 per cent), Andhra Pradesh (16·1 per cent), West Bengal (21·8 per cent) and Bihar (10·5 per cent).

The States which recorded the largest number of cattle thefts were U.P. (3,351), M.P. (3,336), Madras (3,112), Bombay * (2,502), Rajasthan (2,027) and Andhra Pradesh (1,539). The volume of crime in cattle theft was highest in Tripura (30·5), M.P. (12·8), Rajasthan (12·7), Madras (10·4) and Manipur (9·7).

11,697 cases of cattle thefts and 77,198 of ordinary thefts were sent up for trial. Of these, 7,270 cattle theft cases and 53,743 ordinary theft cases ended in conviction; 2,682 cattle theft cases and 14,767 ordinary theft cases ended in acquittal or discharge. The percentage of conviction to true cases investigated in cattle theft was 38·3 (37·2 of 1958) and to cases tried was 73·1 (75·2 of 1958). The percentage of persons convicted to persons tried was 65·6 (67 of 1958).

The percentage of ordinary theft cases convicted to cases investigated was 29·1 (28·3 of 1958) and to cases tried 78·4 (78·1 of 1958). The percentage of persons convicted to those tried was 68·3 (69·4 of 1958).

Riots: There was a rise in this form of crime (8·2 per cent). The increase occurred in Bihar (16·1 per cent), Kerala (28·1 per cent), Andhra Pradesh (16·1 per cent), Bombay* (14·0 per cent) Orissa (22·4 per cent), and Assam (16·0 per cent). Offences under this head decreased in U.P. (4·8 per cent) and Madras (5·6 per cent). Kanpur registered a sharp increase (216·7 per cent), followed by Bombay (23·8 per cent), Delhi (19·1 per cent), Hyderabad (16·7 per cent) and Calcutta (13·0 per cent). Bangalore and Madras registered decreases of 64·7 per cent and 7·1 per cent respectively.

The volume of crime was more than 8 per 1,00,000 of population in Tripura (28·3), West Bengal (16·8), Assam (14·9), Kerala (14·0), Andaman & Nicobar Islands (12·9), Bihar (10·8) and Manipur (9·0).

The percentage of persons convicted to those tried was 42·4 (30·6 of 1958).

* Bilingual.

CRIMES—BY STATE

The following table shows the position about cases reported and convicted for 1959.

States	Murder		Kidnapping and Abduction.		Dacoity		Robbery		House-Breaking		Ordinary Theft		Riot		Counter-felting Coins.	
	Reported.	Convicted	Reported	Convicted	Reported	Convicted	Reported	Convicted	Reported	Convicted	Reported	Convicted	Reported	Convicted	Reported	Convicted
Andhra Pradesh ..	812	354	184	36	68	29	165	71	6,263	3,286	12,451	6,157	2,217	337	15	4
Assam	331	145	329	49	198	35	183	32	4,638	536	5,278	808	1,349	131	27	3
Bihar	867	175	446	48	867	240	651	84	18,285	1,059	17,570	2,069	4,206	491	77	20
Bombay*	1,925	726	735	195	468	84	1,876	370	16,776	3,023	39,743	9,005	2,237	1,169	53	11
Kashmir	62	10	124	7	59	3	89	4	912	111	568	91	272	17	7	1
Kerala	301	152	49	6	26	5	104	23	2,437	649	3,251	1,295	1,893	171	9	2
M.P.	1,326	564	740	163	388	49	845	124	15,585	3,272	28,077	6,735	1,612	483	48	12
Madras	803	425	542	101	58	19	326	99	7,362	3,330	22,519	10,757	2,205	332	38	13
Mysore	646	172	236	49	109	11	190	29	4,588	1,395	8,494	3,534	862	110	14	3
Orissa	302	84	108	24	90	15	226	30	4,472	685	8,110	1,487	1,121	158	13	4
Punjab	595	246	415	85	6	5	103	38	3,929	844	4,698	1,334	201	62	17	1
Rajasthan	454	146	568	90	81	21	383	74	4,594	961	4,228	626	1,134	354	16	6
U.P.	1,694	482	859	207	849	444	504	191	15,570	3,164	22,862	5,208	2,900	819	43	34
W. Bengal	448	102	766	153	412	122	621	86	10,348	1,115	27,709	3,592	4,412	714	54	35
Total ..	10,566	3,783	6,101	1,213	3,679	1,082	6,266	1,255	1,15,759	23,430	2,05,558	52,698	26,621	5,348	431	149

* Bilingual.

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JUVENILES

Below we give certain statistics (cases) about juvenile delinquents.

Head.	Age 7—12		Age 12—17		Age 17—21	
	Boys	Girls	Boys	Girls	Boys	Girls
Murder, attempt to commit murder and homicide	13	2	83	9	425	27
Rape and unnatural offences	9	1	59	1	105	..
Attempt to and abetment of suicide	3	1	16	17	84	35
Grievous hurt, hurt and administering of stupefying drugs	36	..	354	17	1,338	38
Kidnapping and abduction	..	..	18	2	101	4
Dacoity	2	..	6	..	74	..
Robbery	3	..	19	2	127	..
House-breaking	58	6	371	7	829	17
Thefts	956	91	3,571	152	4,729	120
Excise offences	149	42	743	109	3,563	260
* Offences under the Children's Act	4,448	277	1,650	160	36	7
Miscellaneous	1,193	76	5,598	113	15,013	550
Total	6,870	496	12,488	589	26,424	1,058

* Begging, intoxicated by liquor, drugs, betting, borrowing, smoking, found in brothels.

Area	Sent to Courts	Sent to Institutions	Other treatment
Andhra Pradesh	4,750	254	4,456
Assam	351	..	109
Bihar	1,829	908	242
Bombay* (excluding Greater Bombay)	12,254	234	4,554
Jammu & Kashmir	45	..	..
Kerala	293	87	193
Madhya Pradesh	2,517	15	528
Madras	7,855	1,311	6,419
Mysore	1,078	206	871
Orissa	386	3	383
Punjab	2,978	15	2,348
Uttar Pradesh	2,000	1,496	4
Rajasthan	528	..	528
West Bengal (excluding Calcutta City)	1,472	6	1,466
Himachal Pradesh	63	..	57
Naga Hill & Tuensang Area†	19	..	..
Manipur	8	..	8
Tripura	5	..	2
Delhi	3,366	112	3,254
Andaman & Nicobar Islands	50	..	8
Bombay City	2,652	165	2,487
Calcutta City	1,280	33	1,247
Total	45,779	4,845	29,164

* Bilingual. † Now known as Nagaland.

SOME ALL INDIA CORPORATIONS

EXPORT RISKS INSURANCE CORPORATION LTD.

4, Rampart Row, Bombay 1.

This corporation started functioning in Oct. 1957. The object of the corporation is to provide cover against risks involved in the export of goods. The main risks covered by the Corporation's scheme include risks arising from import and export control, insolvency and default, diversion and transfer risks, war and civil war risks, and risks arising from the exporters' inability to recoup expenses incurred on such promotional measures as market surveys and publicity.

The entire capital of the corporation is subscribed by the Govt. of India.

During the year 1960 the Corporation issued 324 policies with a maximum liability of Rs. 8.14 crores as against 243 polices with a maximum liability of Rs. 7.87 crores in the year 1959. Shipments, contracts and credits insured during 1960 amounted to Rs. 6.96 crores as against Rs. 5.88 crores in 1959. In 1960 exports insured with the corporation related to 69 different commodities shipped to 109 countries. Ninety-four policy-holders obtained finance facilities in respect of shipments of the value of Rs. 2.37 crores by authorising the corporation to pay in the event of a claim to the financing bank. The Corporation paid claims for Rs. 3,76,394 and made provision for Rs. 108,680 for meeting claims out of reported defaults.

The board of directors are represented by officials and non-officials connected with the export trade.

Chairman: Ratilal M. Gandhi; *Mg. Dir.:* T. C. Kapur; *Secy.:* Baldev Mehta.

THE INDUSTRIAL CREDIT & INVESTMENT CORPORATION OF INDIA LTD.

(163, Backbay Reclamation, Bombay 1).

The Corporation was established in 1955 with the object of assisting industrial enterprises in the private sector by providing finance in the form of long or medium-term loans or equity participations, sponsoring and underwriting new issues of shares and securities, guaranteeing loans from other private investment sources, furnishing managerial, technical and administrative advice and assisting in obtaining managerial, technical and administrative services to Indian industry.

The Authorised Capital of the Corporation is Rs. 25 crores and Paid-up Capital Rs. 5 crores in five lakhs Ordinary Shares of Rs. 100 each. Of this, Rs. 2 crores are taken up by Indian institutional investors, Directors and

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their friends and associates, and Rs. 1·5 crores by the Indian public. British, American and German subscriptions to the Share Capital amount to Rs. 1.50 crores.

The Government of India have advanced to the Corporation a loan of Rs. 7·5 crores, free of interest, repayable in 15 equal instalments, commencing after the expiry of 15 years from the date of the advance. In 1959, the Govt. of India granted a further loan of Rs. 10 crores. In addition to the 2 foreign exchange loans of U.S. $10 million each from the International Bank for Reconstruction and Development, the Corporation obtained in 1960, a third line of credit from the World Bank of U.S. $20 m. making the total World Bank lending to the Corporation of U.S. $40 million. The Development Loan Fund also approved during 1960 a loan of U.S. $5 million.

The Sixth Annual Report for the year ending 31st December, 1960, discloses that the Corporation sanctioned financial assistance of Rs. 3,141 lakhs consisting of Rs. 1,878 lakhs in one form or another and loans in foreign currency equivalent to Rs. 1,263 lakhs.

No. of Operations		Amount sanctioned (in Rs. lakhs)
32	Loans in Rupees	655
42	Loans in Foreign Currency (Rupee equivalent)	1,263
32	Underwriting of Ordinary and Preference Shares and Debentures	967
37	Direct Subscriptions to Ordinary and Preference Shares ..	256
		3,141

The accounts for the close of the year 1960 disclose a Net Profit of Rs. 37.66 lakhs, which together with the amount of Rs. 99,763 brought forward from the previous year and other adjustments makes a total of Rs. 40.52 lakhs. A sum of Rs. 11 lakhs has been appropriated to Special Reserve Dividend of 5.75 per cent subject to tax absorbing Rs. 28·75 lakhs and leaving Rs. 77,237 to be carried forward.

Directors : G. L. Mehta (*Chairman*), Dr. Sir Arcot Ramaswami Mudaliar, Kasturbhai Lalbhai, Dharamsey Mulraj Khatau, J. D. K. Brown, W. G. Pullen, K. K. Birla, S. Moolgaokar, George D. Woods, Sukumar Sen, D. P. Goenka, N. A. Palkhivala, S. Ranganathan (Government Director), J. W. Young (Alternate Director for W. G. Pullen), J. W. Sinclair (Alternate Director or George D. Woods).

General Manager : H. T. Parekh.

THE INDUSTRIAL FINANCE CORPORATION OF INDIA

(*Head Office :* Reserve Bank Building, 6, Parliament Street, New Delhi ; *Bombay Office :* Liberty Buildings, 8, Marine Lines ; *Calcutta Office :* P-11, Mission Row Extension ; *Madras Office :* 38, Whites Road, Royapettah).

Authorised Capital : Rs. 10 crores.

Issued and Paid-up Capital : Rs. 5 crores.

Board of Directors: K. P. Mathrani (*Chairman*), V. P. Varde, S. V. Ramamurti, G. D. Ambekar, S. P. Virmani, C. C. Desai, S. C. Roy, M. Ct. Muthiah, Prof. S. K. Basu, R. M. Deshmukh, M.P., S. Ranganathan, Dr. B. K. Madan.

General Manager, D. R. Madhok.

Secretary, C. A. Subramanyam.

Profit and loss account for the year ended 30th June, 1960 :

Interest, Discount, Commission, etc.: Rs. 2,50,87,994.

Total expenses : Rs. 1,41,60,851.

Provision for Taxation : Rs. 49,76,318.

Assets written off : Rs. 75.

Net profit : Rs. 59,50,750.

The Industrial Finance Corporation was established in 1948 under the Industrial Finance Corporation Act of 1948 (XV of 1948), with the object of providing (*a*) medium and long term loans in rupees as well as, by arrangement with the Development Loan Fund of the U.S.A. Govt., in foreign currency, to existing public limited companies or registered co-operative societies engaged in, or new ones proposing to engage in, the manufacture, preservation or processing of goods, or the generation or distribution of electricity or any other form of power or mining or shipping or hotel industry also subscribing debentures of such companies and co-operative societies; the Corporation has the option to convert at its discretion the loans granted by it into share capital ; (*b*) guaranteeing of loans raised by aforesaid industrial concerns : (*i*) which are floated in the public market and are repayable within a period not exceeding twenty-five years ; and (*ii*) from scheduled banks or State Cooperative banks ; (*c*) guaranteeing loans raised from or credit arrangements made with any bank or financial institution in any country outside India by aforesaid industrial concerns in foreign currency ; (*d*) underwriting the issue of stock, shares, bonds or debentures by aforesaid industrial concerns ; (*e*) Subscribing to the stock or shares of aforesaid industrial concerns ; (*f*) guaranteeing deferred payments in respect of import of capital goods from abroad or their purchase in India by aforesaid industrial concerns.

Total amount of loans sanctioned by IFC up to end of June 1960 is Rs. 84,60,74,000. Amount sanctioned in 1959-60 was Rs. 17,91,74,000.

The current rate of interest for rupee loans is 7 per cent per annum and for foreign currency loans 8½ per cent per annum with a rebate of ½ per cent in each case for punctual payments. Defaulted instalments will carry compound interest.

NATIONAL COAL DEVELOPMENT CORPORATION LTD.

(Darbhanga House. Ranchi.

The National Coal Development Corporation was registered under the Indian Companies Act in September 1956, with an authorised capital of Rs. 50,00,00,000, divided into 5,00,000 equity shares of Rs. 1,000 each. It is a Government of India undertaking under the Ministry of Steel, Mines and Fuel.

The Board of Directors include both Government Officials and non-officials nominated by the Government of India.

Board : Ujjal Singh, *Chairman ;* S. Bhoothalingam, I.C.S., A. V. Venkateswaran, Kripal Singh, Cheddi Lal, I.A.S., A. B. Guha, Kanthi Mehta, and R. C. Dutt, I.C.S., who is also the Managing Director.

The Corporation was brought into existence in persuance of the Second Five Year Plan objective of expanding the public sector of the Coal Industry. Eleven former Railway Collieries with a total production rate of 2·9 million tons a year were handed over to the Corporation.

The Corporation achieved a production rate of 13·7 million tons a year in the quarter January to March, 1961. The net profit for the year 1959-60 amounted to Rs. 20,97,969, in spite of a loss of Rs. 50,24,742 incurred in running the two old collieries in Giridih. The Corporation's collieries are situated in three States, Bihar, Orissa and Madhya Pradesh.

During the four odd years of its existence, the Corporation developed ten new collieries. Five Mining Training Institutes and 12 Evening Lecture Centres have been established for training Junior Technicians. Up to the end of March 1960, the Corporation has built 5,935 Miners' quarters.

An agreement was signed on June 17, 1961 for the development of deep-shaft mine project at Sudamdih in Jharia (Bihar) between the Corporation and Cekop, a Polish firm.

During the Third Plan period, the Corporation is expected to achieve a production rate of 30·5 million tons per annum. Two big Central Workshops, besides the existing one at Barkakana in Bihar which costs Rs. 1,50,00,000, three washeries and the acquisition of the know-how of mining in difficult conditions, and of sand-stowing in steeply-inclined mines are some of the items included in the Corporation's Third Plan.

Managing Director : R. C. Dutt, I.C.S.

NATIONAL DEVELOPMENT COUNCIL

New Delhi.

To strengthen and mobilise the effort and resources of the nation in support of the Five Year Plan, to promote common economic policies in all vital spheres, and to ensure the balanced and rapid development of all parts of the country, on the recommendation of the Planning Commission, the Government of India set up a National Development Council.

Its functions are : 1. to review the working of the National Plan from time to time ; 2. to consider important questions of social and economic policy affecting national development ; 3. to recommend measures for the achievements of the aims and targets set out in the National Plan, including measures to secure the active participation and cooperation of the people, improve the efficiency of the administrative services, ensure the fullest development of the less advanced regions and sections of the community and, through sacrifice borne equally by all citizens, build up resources for national development.

The Council makes recommendations to the Central and State Governments. It is composed of the Prime Minister of India, Chief Ministers of all States and the Members of the Planning Commission. The Council meets as often as is necessary and in any case at least twice in a year.

The Secretary of the Planning Commission acts as the Secretary of the Council.

THE NATIONAL INDUSTRIAL DEVELOPMENT CORPORATION LTD.

(P.O. Box No. 458, Udyog Bhavan, Maulana Azad Road, New Delhi)

The National Industrial Development Corporation Ltd., was set up by the Govt. of India on 20th October 1954 for the promotion and development of industries in the country and was registered as a private limited company with an authorised capital of Rs. 1,00,00,000 of which shares worth Rs. 25 lakhs have now been issued and paid up by the Govt. of India. The Finances of the Corporation are provided by Govt. in the form of capital, grants and loans.

The Board of Directors of the Corporation include both Government officials and non-officials and is nominated by the Government of India. The Chairman is the Union Minister for Commerce & Industry and the Vice-Chairman is the Union Minister for Industry.

The Corporation's object is primarily the development of industries, particularly those which are necessary to fill up gaps in the industrial structure. The Corporation is to plan and formulate projects for setting up new industries or developing new lines of production. It undertakes preliminary studies and investigations about the technical and economic feasibility of the establishment of certain selected industries. Efforts have been concentrated on projects relating to the manufacture of industrial machinery in the field of heavy engineering including the establishment of Foundry and Forge capacity for such manufacture and production of some crucial industrial raw materials like raw film, aluminium, synthetic rubber, basic organic chemicals and intermediates, sulphur, phosphorus etc. Preliminary studies and investigations have been completed in regard to

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a number of these projects and their implementation has been entrusted to Government Corporations. The Heavy Machine Building Plant and the Coal Mining Machinery Plant and the Heavy Foundry Forge Projects have been entrusted to the Heavy Engineering Corporation set up at Ranchi for this purpose. Projects relating to the manufacture of sulphur from pyrites, raw film for the Cinema industry and the organic chemicals and intermediates have been entrusted to separate Corporations. Some of the schemes for the manufacture of industrial raw materials, *viz.*, synthetic rubber, carbon black, tungsten carbide, rayon grade pulp etc. for which necessary preliminary studies were carried out by the Corporation, have been assigned to the private sector to follow up and establish production units.

The Corporation is presently continuing investigations on projects relating to Heavy Structural Fabrication Works and Heavy Plate and Vessels Works in the heavy engineering field. Investigations are also in progress in regard to the manufacture of drugs and pharmaceuticals, elemental phosphorus etc.

The Corporation has set up a Technological Consultancy Bureau for undertaking not only preliminary studies of industrial projects but also the subsequent design and consultancy services wherever possible.

The Corporation also acts as the agency of the Government for the grant of financial assistance to certain selected industries. The industries so far selected are jute, cotton textile and machine tools. Loans are granted to jute and cotton textile industries for the modernisation and rehabilitation of their machinery and in the case of machine tool units, loans are granted for expansion as well. Loans sanctioned to these industries upto 31st December 1960, amounted to Rs. 18·40 crores out of which Rs. 6·02 crores have already been disbursed.

Managing Director, K. B. Rao; *Secretary*: P. S. Sundaram.

NATIONAL PROJECTS CONSTRUCTION CORPORATION LTD.

(E-2, Jhandewala Estate, Off Jhansi-ki-Rani Road, New Delhi)

The Corporation, an enterprise in the public sector, sponsored by the Union Ministry of Irrigation and Power, was set up in 1957 with an authorized capital of Rs. 2 crores. Its paid-up capital upto May 1961, amounting to Rs. 123 lakhs, was subscribed by the Government of India and the State Governments of M.P., Bihar, Rajasthan, Kerala, Jammu & Kashmir, Punjab, Assam & U.P.

One of the objects of floating this Corporation is to provide the Central and State Governments with an organisation capable of undertaking the execution of River Valley Projects and allied works requiring high technical skill, mechanised execution, precision and strict adherence to specifications and quality standards.

On Chambal Project, in Madhya Pradesh, the Corporation has under execution works amounting to Rs. 162.15 lakhs. 95 per cent of the work has been completed. Another small work *viz.*, submersible bridge on Tawa River costing nearly Rs. 6.00 lakhs has been undertaken recently and is under execution in M.P. State.

In Rajasthan the excavation work of Suratgarh branch on Rajasthan Canal costing Rs. 3.50 lakhs and excavation of foundation of Rana Pratap Sagar Dam costing nearly Rs. 2.50 lakhs were taken up.

In Jammu and Kashmir State the Corporation has been allotted the work of excavation of outfall channel and side channel of the Jhelum river below Baramula costing nearly Rs. 1.50 crores in April 1961.

In Bihar State, the Corporation has been entrusted with the work of constructing Padua Dam and Kosi Barrage costing Rs. 63 lakhs and Rs. 500 lakhs respectively. 45 per cent and 51 per cent respectively of these works have been completed.

The Corporation completed the Wazirabad Barrage across the river Jamuna in the Union territory of Delhi, estimated to cost Rs. 60 lakhs, in the record time of one working season, also completed two major works of Kalisindh and Parwan Aqueducts. The execution of seven miles of Canal on Chambal Project in Rajasthan amounting to Rs. 100 lakhs, was inaugurated on July 31, 1960.

During the financial year 1959-60, the Corporation executed works of the value of about Rs. 218.03 lakhs against Rs. 40.51 and 127.98 lakhs during 1957-58 and 1958-59 respectively and earned a profit of Rs. 4.08 lakhs.

Managing Director: A. L. Das.

THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.

(Rani Jhansi Road, P.O. Box No. 349, New Delhi).

A Government of India concern, started in February 1955.

Authorised capital: Rs. 50 lakhs.

Paid-up: Rs. 40 lakhs. All shares are held by the President.

Upto 31st May 1961, 5,712 applications covering 23,708 machines valued at Rs. 23,07,42,627 were accepted while 4,883 machines valued at Rs. 4,61,04,870 were delivered to the hirers on hire purchase basis.

Till May 1961, contracts valued at Rs. 10,81,74,816 were secured by the small scale units from the D.G.S. & D. with the assistance of the Corporation. Besides, contracts valued at about Rs. 49,38,266 were also secured for the small scale units from railways.

The Corporation markets the following small industry products under its JANSEVAK trade mark through wholesale depots:—

Leather footwear and pottery. Orders for shoes worth about Rs. 8 lakhs have been executed by the Corporation.

The construction of Industrial Estates at Okhla (near Delhi) containing 35 factories (first phase) and Naini (near Allahabad) containing 34 factories has been completed by the Corporation. The Okhla estate was transferred to the Delhi Administration on 1st April 1959. Construction of factory sheds under the second phase is in hand through the agency of C.P.W.D.

The Corporation has set up two prototype production-cum-training centres, one at Okhla and the other at Rajkot in collaboration with the West German Government and the Technical Co-operation Mission of U.S.A. respectively. The centres would produce prototypes of machines for the purpose of commercial production by the small-scale units and impart training to small entrepreneurs. The centre at Rajkot has started functioning. 83 trainees from small scale industries sector and industrial training institutes, and six supervisory trainees from Small Industries Service Institutions are undergoing training in various trades. Design and drawing work of Band Saw, Balancing Roll, Multiform Bender, Belt and Disc Sander, Wood-working Lathe have been taken up.

The centre at Okhla (Delhi) was inaugurated by Prime Minister Nehru.

The centre at present provides training facilities to 63 trainees in wood-working, sheet metal, welding and forge shop, besides designing and producing prototypes of machinery.

Chairman: Mrs. Maragatham Chandrasekhar.

Board of Directors: Jaspat Roy Kapoor; Mool Chand Jain; Dr. Sushila Nayar; G. L. Bansal; C. R. Sundaram; A. N. Agarwal; Dr. P. C. Alexander; B. D. Kumar; C. V. R. Panikar; P. D. Malgavkar (*General Manager*); Baldev Singh (*Manager* (G.P.)); P. L. Sahgal (*Director* (P.T.C.)); S. K. Chatterjee (*Secretary*).

THE REFINANCE CORPORATION FOR INDUSTRY (PRIVATE) LIMITED

(P.O. Box No. 1241, Reserve Bank Building, Bombay 1).

The Corporation was established on 5th June 1958 mainly with the object to help augment the resources available for the use of industrial units in the private sector.

The Corporation provides refinancing facilities against medium term loans made to industries by banks and other financial institutions which may be approved by the Corporation from time to time.

Authorised capital: Rs. 25 crores.

Issued capital: Rs. 12½ crores.

Paid-up capital: Rs. 2½ crores.

Besides the issued capital of Rs. 12·5 crores the Corporation can obtain interest bearing loans upto Rs. 26 crores.

The Corporation has been registered as a private limited company with the Reserve Bank of India, Life Insurance Corporation of India, State Bank of India, Central Bank of India Ltd., Punjab National Bank Ltd., Bank of India Ltd., Allahabad Bank of India, Bank of Baroda Ltd., National and Grindlays Bank Ltd., United Commercial Bank Ltd., Lloyds Bank Ltd., (whose assets and liabilities in India have since been taken over by the National & Grindlays Bank Ltd.), Allahabad Bank Ltd., Chartered Bank, Indian Bank Ltd., United Bank of India Ltd., Mercantile Bank Ltd., Devkaran Nanjee Banking Co. Ltd., State Bank of Hyderabad as members. The Corporation will become a public limited company in terms of the provisions of the companies (Amendment Act 1960).

During 1960, the Corporation received 25 applications for refinance from eight member banks for a total sum of Rs. 459.50 lakhs. One application of the previous year for Rs. Thirteen lakhs was awaiting consideration. Of these the Board sanctioned 14 applications for Rs. 175.00 lakhs. During 1960 the Corporation disbursed, Rs. 141.00 lakhs to five member banks.

The income of the Corporation for the period ended 31st December 1960 was Rs. 28,86,088.45.

Profit for the year ended 31st December 1960 was Rs. 19,39,351·20.

Loans given by the member banks, to be eligible for assistance from the Corporation, must be for medium-sized industrial concerns for amounts not exceeding Rs. 50 lakhs in any one case and the period of the loans should not be less than three years or more than seven years. These facilities will be available only to industrial concerns whose paid-up capital and reserves (excluding reserves for the payment of taxes and normal depreciation reserves) do not exceed Rs. 2½ crores in any particular case.

Loans must be for the purpose of increased production, primarily in industries included in the Second Five-Year Plan and succeeding Plans.

Board of Directors: H. V. R. Iengar (*Chairman*), P. C. Bhattacharyya, P. A. Gopalkrishnan, B. Venkatappiah, A. D. R. Geddis, N. M. Chokshi, B. K. Dutt, K. C. Mittra, Chief Officer, Industrial Finance Deptt., Reserve Bank of India (Gen. Manager), P. K. Dasgupta, Dy. Chief Officer, Industrial Finance Deptt., Reserve Bank of India (Secretary).

THE STATE TRADING CORPORATION OF INDIA LTD.

(New Delhi).

Incorporated on 18th May, 1956.

The authorised capital is Rs. five crores of 5,00,000 equity shares of Rs. 100 each.

The subscribed capital is Rs. two crores of two lakh equity shares of Rs. 100 each.

The President of India holds all the shares excepting two held by the Managing Director and an officer of the Ministry of Commerce and Industry in their official capacity.

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The objects of the Corporation are: to organise and effect exports from and imports into India of all such goods and commodities as may be determined by the Company from time to time, and to undertake the purchase, sale and transport of and general trade in such goods and commodities in India or anywhere else in the world; to acquire and undertake the whole or any part of the business, property and liabilities of any person or Company and to improve, manage, develop, grant rights or privileges in respect of, or, otherwise deal with, all or any part of the property and rights of such person or the company; to subscribe for, take, or otherwise acquire, and hold, shares, stock debentures or other securities of any other Company, and to give guarantees and indemnities for the performance of contracts in which the Corporation is interested.

Direct sales increased to Rs. 42·82 crores from Rs. 35·95 crores in the preceding 12 months of 1959-60. Mineral ores constituted the bulk of the Corporation's business in exports, the total increasing from Rs. 18·26 crores during 1958-59 to Rs. 18·83 crores in the nine months of 1959-60. Gross profits for 1959-60 amounted to Rs. 3·13 crores against Rs. 3·33 crores during 1958-59.

Export business was done in the following commodities: Iron ore, manganese ore, chrome ore, bauxite, coal, mica, woollen textiles, tobacco, jute manufactures, raw jute, shoes, cotton yarn, pulses, opium, pepper, vetivert oil, sandalwood oil, shellac, cinchona bark, handicrafts, handloom fabrics, groundnut oil, sports goods, Kyanite ore, pig iron, tea, coffee, cement, engineering goods and hockey sticks.

Regional offices of the Corporation have been opened at Calcutta, Bombay, Madras and Vishakapatnam and sub-offices at Kakinada, Masulipatam, Kandla, Cochin, Nagpur and Bangalore. Field offices in various mining and business centres have also been opened in important mining and business centres.

The S.T.C. has entered into an agreement (July 1961) with Jordan Phosphate Mines Co. for the import of rock phosphate from Jordan against the export of tea, coffee, spices, footwear and leather goods, shellac, textiles, engineering equipment, cotton yarn and chemical and pharmaceutical products.

Board of Directors: C. M. Poonacha (*Chairman*), S. N. Bilgrami (*Managing Director*), Nagendra Singh, I.C.S., K. L. Ghei, I.R.A.S., N. N. Kashyap, I.C.S., H. R. Diwan, S. Ratnam, B. B. Saksena, S. V. Kanungo, K. R. F. Khilnani, N. E. S. Raghavachari, G. P. Bhalla.

Secretary: K. N. Sinha, I.A.S.; *Financial Adviser and Chief Accounts Officer:* A. N. Kaul, I.A. & A.S.; *General Manager (Ores):* B. K. Kochar; *Divisional Manager (Consumer Goods Division):* K. K. Nasta; *Divisional Manager (Chemicals Division):* M. M. Saklani; *Divisional Manager (Engineering Goods Division):* Dr. A. S. Sharma; *Divisional Manager (Development, Shipping & Marketing):* S. N. Sen; *General Manager (Handloom Export Organization):* N. K. Vinayakam.

Bankers: State Bank of India.

Auditors: S. Vaidyanath Aiyar & Co.

STATE FINANCIAL CORPORATIONS

ANDHRA PRADESH STATE FINANCIAL CORPORATION

The A. P. Financial Corporation came into being on Nov. 1, 1956 as a result of the amalgamation of the former Financial Corporations for the States of Andhra and Hyderabad.

Object: Financial assistance to medium and small scale industries established within the State.

Anthorssed Capital: Rs. 4 crores.

Distribution of shares: 1,50,000 shares of Rs. 100 each are distributed as follows: (*a*) State Government 70,000; (*b*) Reserve Bank of India 20,000; (*c*) Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts and other financial institutions 50,970; (*d*) Others 9,030.

Following are figures for the year ending March 31, 1961.

No. of applications received ..	205
No. of applications sanctioned ..	161
Amount of loans sanctioned	Rs. 159.30 lakhs.
Rate of interest	6% per annum
Net Profit	Rs. 2.90 lakhs.

The amount guaranteed dividend payable on share capital of the Corporation for 1960–61 came to Rs. 5.25 lakhs. Government which has guaranteed a minimum of 3.5 per cent return on shares has provided in the 1961–62 budget for making good the shortfall of about Rs. 2.35 lakhs. The dividend on these shares has been declared tax-free.

Of the 161 applications, sanctioned, for starting of units, 51 were of food manufacturing industries, 45 of manufacture of metal products and machinery, 13 related to printing and allied industries, 20 to furniture and fixture industries.

Board of Directors: B. Venkatratnam, M.L.C. (*Chairman*); P. M. Nayak, I.C.S.; M. A. Abbasi, I.A.S.; Anil De, I.A.S.; P. Suryanarayana; M. Ct. Muthiah; Balwant Singh; M. R. Patny; Pannalal Pitti; E. Ramchendramurti, M.A., C.A.I.I.B. (*Managing Director*).

THE ASSAM FINANCIAL CORPORATION

('Glenerquart,' Shillong)

(Position as on March 31, 1961):

The Corporation came into being on 14th August 1954. The jurisdiction has been extended to the Union Territory of Tripura with effect from April 1, 1960.

AIMS AND OBJECTS: To contribute to the industrialisation of the State of Assam and Union Territory of Tripura by providing credit, medium and long term to industrial concerns present or future.

AUTHORIZED CAPITAL: Rs. two crores divided into two lakhs shares. Issued and subscribed: one lakh shares

The one lakh shares distributed as below:

1.	Government of Assam ..	34,450
2.	Union Territory of Tripura ..	17,225
3.	Reserve Bank of India ..	20,000
4.	Scheduled Banks, Insurance Companies, Co-operative Banks and other financial institutions	16,150
5.	Life Insurance Corporation of India	9,600
6.	Parties other than those referred to above	2,575
	Total number of loan applications received	253
	Total number of applications accepted for loan	120
	Total amount of loan sanctioned:	Rs. 2,72,87,000
	Total amount of loan advanced:	Rs. 1,52,09,511

Rate of interest charged: Seven per cent with a rebate of ½ per cent for prompt payment.

Income	Rs.	9,39,205
Expenditure	Rs.	3,36,440
Profit	Rs.	6,02,765

BIHAR STATE FINANCIAL CORPORATION

Fraser Road, Patna

The Corporation came into being on 2nd November 1954.

AUTHORISED CAPITAL: Rs. 2 crores.

ISSUED AND PAID-UP CAPITAL: Rs. 1 crore. Subscribed by: State Government Rs. 40 lakhs; Reserve Bank of India Rs. 15 lakhs; Scheduled Banks, Insurance Companies and other Financial Institutions Rs. 35·02 lakhs and others Rs. 9·98 lakhs.

Following are figures for the year ending March 31, 1961: Applications pending from previous year: 25; amount involved Rs. 53,50,600; applications received during the year 34; amount involved Rs. 1,15,64,918; applications sanctioned 27; amount involved Rs. 51,35,000; applications rejected 3; amount involved Rs. 8,25,000; applications withdrawn or struck off 14; amount involved Rs. 40,35,000; applications under consideration 15; amount Rs. 58,00,000; total loans disbursed Rs. 36,19,980; loans outstanding Rs. 1,48,91,627.96; rate of interest 6½ per cent per annum with a rebate of ½ per cent for punctual payment of interest and capital instalments; net profit after payment of expenses of administration and other charges Rs. 4,60,849.68. After making provision for income-tax and corporation tax and transfer to reserve fund, the balance available for meeting the guaranteed dividend of 3½ per cent Rs. 2,24,400.

BOARD OF DIRECTORS: Rajandhari Sinha (*Chairman*); S. Dutt, I.A.S.; N. P. Sinha, I.A.S.; D. D. Pai; Prof. S. K. Basu; A. C. Bhat; B. N. Rohatgi, I.A.S.; S. S. Kanodia; R. B. Thakur (*Managing Director*).

BOMBAY STATE FINANCIAL CORPORATION

The Bombay State Financial Corporation was set up by a notification of the Government of Bombay dated 30th November 1953 in exercise of the powers conferred by the State Financial Corporations Act, 1951.

The Corporation started functioning on 1st December 1953.

With effect from Nov. 1, 1956 the Bombay and Saurashtra State Financial Corporations were amalgamated and the new Corporation is called the Bombay State Financial Corporation, with headquarters in Bombay and branch office at Nagpur.

As from May 1, 1960 however, since a new financial Corporation had been established for the State of Gujarat the present Corporation restricted its activities to the new State of Maharashtra. A scheme to reconstitute the said Corporation under section 102 of the State Reorganisation Act 1956 is being finalised.

The main office is at the United India Building, Sir Phirozeshah Mehta Road, Bombay.

The branch office is at National India Building, Mount Road Extension, Nagpur.

The main object of the Corporation is to provide financial assistance to medium and small-scale industrial concerns in the State for purposes of purchase of land, plant and machinery and other assets for renovation and expansion of existing units and for the development of new ones.

Under an arrangement with the Government of Bombay, the Corporation. on behalf of the Government of Maharashtra, considers applications from small scale units, under the State Aid to Industries Rules from Rs. 10,000 up to Rs. 75,000 and in exceptional cases up to Rs. 1 lakh.

Industrial concerns which are eligible for financial accommodation from the Corporation are those engaged in or to be engaged in the manufacture, production of processing of goods, or engaged in mining or in the generation or distribution of electricity, or other forms of power.

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The previous Government of Bombay has fixed the authorised capital of the Bombay State Financial Corporation at Rs. 4 crores divided into 400,000 fully paid-up shares of Rs. 100 each of which 200,000 fully paid-up shares of the total value of Rs. 2 crores were issued and subscribed.

The shares of the Bombay State Financial Corporation are guaranteed by the State Government as to the repayment of the principal payment of annual dividend at the minimum rate of 3½ per cent. per annum is also guaranteed by the State Government.

The dividend payable on shares of the Corporation is limited to a maximum of 5 per cent. per annum.

In October 1957, the Corporation issued 4½ per cent 1967 10-year bonds of the face value of Rs. 1,16,50,800 at Rs. 99/8 per cent. Repayment of the principal and interest at 4½ per cent on the bonds is also guaranteed by the Government of Bombay.

Rate of interest for loans advanced: 6½ per cent.

The period of loan is decided on merit but will not generally exceed ten years.

The amount of loan is advanced to the extent of 50 per cent. of the net value of the fixed assets, consisting of land, building, plant and machinery.

During 1960–61, the Corporation received 150 applications and the total loan applied for was Rs. 2,85,80,000. The Board of Directors of the Corporation sanctioned loans of the aggregate amount of Rs. 6,50,21,500 upto March 31, 1961.

Under the State Aid to Small Scale and Cottage Industries Rules, the Corporation received, for consideration during the year 1960–61, 256 applications and the total amount of loan applied for was Rs. 1,23,34,000. The Corporation sanctioned loans of the aggregate amount of Rs. 36,33,500 during the year and the total loan sanctioned since August 1957 amounted to Rs. 93,51,000.

Board of Directors

Purushottam Kanji (*Chairman*), Gansham G. Thakkar, Dr. M. R. Mandlekar, K. C. Mitra, Pravinchandra V. Gandhi, D. V. Potdar, V. P. Pandit, P. H. Bhutta, R. M. Deshmukh, R. S. Pochkhanawala (*Officiating Managing Director*).

Officials

Managing Director, R. S. Pochkhanawala, B.Sc. (Lond.), Bar-at-Law.

Accountant, S. C. Patel, B.com., A.C.A.

Branch Manager, Nagpur, G. S. Joshi, M.A. (California).

THE GUJARAT STATE FINANCIAL CORPORATION

Bank of Baroda Building, First Floor, Gandhi Road, Ahmedabad.

Established May 1960.

Object: Financial assistance to small and medium industries.

Authorised Capital: Rs. Two Crores.

Distribution of Shares: Two lakhs fully paid up shares of Rs. 100 each.

(*a*) Government of Gujarat: 18,000 shares; (*b*) Reserve Bank of India: 10,000 shares; (*c*) Scheduled Banks, Cooperative Banks, Insurance Companies and others: 20,000 shares; (*d*) Others: 2,000 shares.

(These were issued at the first instance).

Following are figures for the year ending 31st March 1961:

No. of applications received 20
No. of applications sanctioned 11

Amount of loans sanctioned: Rs. 14,47,500

Rate of interest: 3% upto Rs. 50,000 loan and 5% from over Rs. 50,000 to 1 lakh.

Board of Directors: Amritlal Hargovindas; Vadilal Lallubhai Mehta; C. C. Desai; Dr. K. S. Krishnaswamy; R. T. Popawala; G. G. Thakker; Pravinchandra V. Gandhi; Navnitlal S. Shodhan; Shantilal Ranchoddas Shah; D. G. Bhuptani (*Managing Director*).

JAMMU & KASHMIR STATE FINANCIAL CORPORATION

'Fort View', Boulevard, Srinagar.

The Corporation was established on 2nd December 1959.

Aims and objects: To stimulate the establishment of new small and medium scale industries and the expansion and modernisation of existing industries by providing financial assistance on medium and long term basis.

Authorised capital: Rs. 50 lakhs divided into 50,000 shares of Rs. 100 each.

Subscribed capital: as on 31st March 1961, was as below:—

	Rs.
Government of Jammu & Kashmir	20,00,000
Reserve Bank of India	10,00,000
Scheduled Banks, Insurance Companies, Co-operative Banks, and other financial institutions..	10,00,000
Parties other than those referred to above	1,16,500
Total	41,16,500

The State Government will take up the unsubscribed portion of the share capital shortly, to raise the paid-up capital to Rs. 50 lakhs.

The Corporation commenced granting loans after certain amendments were made to the State Transfer of Property Act, on 28th March 1961.

Business transacted up to 31st March 1961:—

Total number of loan applications received	16
Total number of loans sanctioned	5
Total amount of loans sanctioned	Rs. 4·05 lakhs
Total amount of loans advanced	Rs. 2·21 „
Rate of interest charged ..	6½%, subject to a rebate of ½% for prompt payment.
Total income	Rs. 1,44,114
Total expenditure	Rs. 94,714
Profit	Rs. 49,400

Board of Directors: Pirzada Ghulam Ahmad, I.A.S. (*Chairman*); P. N. Chaku, I.A.S.; S. Amar Singh, I.A.S. (Nominees of the State Government); M. L. Bhalla (Nominee of the Reserve Bank of India); S. P. Virmani (Nominee of the Industrial Finance Corporation of India); J. S. Khurana, B. N. Pestonjee, Kh. Ghulam Qadir Masala, M.L.A.; R. K. Sawhney (Elected by Shareholders); A. Chatterjee (*Managing Director*).

KERALA FINANCIAL CORPORATION

K.F.C. Buildings, Vellayambalam, Trivandrum-1.

The Kerala Financial Corporation was established under the State Financial Corporations Act, 1951, on 1st Dec. 1953. with an authorised capital of Rs. 2 crores divided into 200,000 shares of Rs. 100 each and an issued, subscribed and paid-up capital of Rs. 1 crore divided into 100,000 shares of Rs. 100 each. The Corporation was started with the object of making available long term credits to industrial concerns in Kerala State in need of financial assistance and thereby quickening the pace of industrialisation of the State.

The shares of the Corporation were distributed among the various classes of shareholders as follows as on 31st March, 1961:—

State Government 60,415 Shares.

Reserve Bank of India 15,250 Shares.

Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts, and other financial institutions 22,290 Shares.

Parties other than those referred to above 2,045 Shares.

Some figures for 1960-61:

Net profit Rs. 5,32,432·83; Provision for reserve Rs. 66,554·00; Provision for taxation Rs. 2,21,100·00; Balance available for guaranteed dividend Rs. 2,44,778·83; No. of loan applications received 17; Amount involved Rs. 58,70,000·00; No. of applications for additional accommodation from existing loanees 6; Amount involved Rs. 7,40,500·00 together with 13 applications for Rs. 14,35,000·00 pending consideration as on 31st March 1960, there were 36 applications for Rs. 80,45,500·00 for consideration during 1960-61.

No. of applications sanctioned 19; Amount involved Rs. 49,20,500·00; No. of applications rejected or withdrawn 4; Amount involved Rs. 5,75,000·00; No. of applications transferred to Agency Loans 5; Amount involved Rs. 2,80,000·00; No. of applications in various stages of consideration 8; Amount involved Rs. 22,70,000·00; Total amount disbursed Rs. 22,52,725·00; Balance outstanding as at the end March 1961: Rs. 1,38,38,000·00.

The Corporation charges an interest on all its loans and advances at the rate of 7 per cent, subject to a rebate of ½ per cent for prompt repayment of all instalments. Hence the effective rate of interest levied by the Corporation is 6½ per cent.

P. K. Krishnankutty Menon (*Chairman*), M. G. Achyuthan Nair (*Managing Director, appointed by Government*); *Secretary:* C. Nilakanta Menon, B.A.; *Chief Accountant:* N. Gopinathan, B.A., A.C.A.

MADHYA PRADESH FINANCIAL CORPORATION

(Shiv Vilas Palace, Indore City).

The Madhya Bharat Financial Corporation was set up by a notification of the former Madhya Bharat Government dated 30th June 1955 in exercise of the powers conferred by the State Financial Corporations Act, 1951. After the integration of M.B. into Madhya Pradesh it is now called M.P. Financial Corporation.

The Corporation started functioning on 1st July 1955.

The object of the Corporation is to assist and further the industrialisation of the State by providing institutional credit, medium and long term, to industrial concerns in Madhya Pradesh.

The rate of interest will be six per cent per annum with half-yearly rests.

The period of loan will be decided on the merits of each case, but will not ordinarily exceed 10 to 12 years though the maximum period upto which loans can be granted has been fixed at 20 years. The principal amount of loan will be repayable by instalments which would be determined according to the circumstances of each case.

The assets offered in mortgage to the Corporation should be insured by the borrowing concern upto their full value with insurance companies approved by the Corporation.

The authorized share capital of the Corporation is Rs. 2 crores divided into two lakh fully paid shares of the face value of Rs. 100 each, out of which one lakh fully paid shares of the value of Rupees one crore are issued in the first instance. A dividend of 3½ per cent per annum on the share capital of the Corporation has been guaranteed by the Government.

Since inception the Corporation received 165 completed loan applications till 31st March 1961. The Board sanctioned advances to 72 industrial concerns for Rs. 1,60,13,000 and rejected 38 cases for Rs. 70,14,000. Thirty-three applications for Rs. 69,48,000 were withdrawn by the applicants. 22 applications for Rs. 42,61,000 were under consideration as on 31st March 1961.

Board of Directors:

D. P. Mandelia (*Chairman*), Secretary, Finance Dept., M.P. (M. Y. Godbole, I.A.S.), Director of Industries, Indore, M.P. (G. K. Moghe, I.A.S.), Nominee of the Reserve Bank (K. Vasudeva Rao), Nominee of the Industrial Finance Corporation of India (G. D. Ambekar). Elected by financial institutions like Scheduled Banks, Co-operative banks, etc. (N. D. Joshi, M. R. Rudra, Suganmal Bhandari), Elected by shareholders (Laichand B. Sethi), B. K. Chatterjee, I.A.S. (*Managing Director*).

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THE MADRAS INDUSTRIAL INVESTMENT CORPORATION LIMITED

38, Whites Road, Royapettah, Madras-14.

When it started functioning: September 1, 1949.

The Main objects: Financing of industries in the State of Madras with long term and medium term loans and participating in equity and preferential shares of companies.

Authorised Capital: Rs. 2,00,00,000.

Size of shares and how distributed: 20,000 Ordinary Shares of Rs. 1,000 each.

Number of applications received for loans: 237 upto 30th June 1960.

Number of applications accepted for loan: 103 upto 30th June 1960.

Total amount of loans sanctioned: Rs.5,38,58,000.

Total amount of loans advanced: Rs. 4,75,38,-535.52.

Loans outstanding (as on 30th June 1960): 3,41,12,892.28.

Interest rate charged (current rate): 7½ per cent per annum with a rebate of ½ per cent for prompt payment of instalments of principal and interest. For small scale industries the lending rate is 6 per cent.

Total expenses for the year ended 30th June 1960: Rs. 21,57,865.

Total income for the year ended 30th June 1960: Rs. 30,47,233.

Profit: for the year ended 30th June 1960: Net profit before providing for taxation: Rs. 8,89,368.

Board of Directors:—R. Venkataswami Naidu (*Chairman*); Finance Secretary to Government of Madras (T. A. Varghese, I.C.S.), (*Ex-officio Director & Vice-Chairman*); Director of Industries & Commerce (T. K. Palaniappan, I.A.S.); V. V. Shanmuga Nadar; P. A. C. Ramasamy Raja; M. S. Palaniappa Mudaliar; M. Ct. Muthiah; T. S. Narayanaswami; N. Mahalingam, M.L.A.; A. M. M. Murugappa Chettiar; D. C. Kothari.

Secretary: S. Rajaratnam, M.A., A.I.I.B.

MYSORE STATE FINANCIAL CORPORATION

Head Office: Gandhinagar, Bangalore 9.

The Mysore State Financial Corporation was established in 1959 under State Financial Corporation Act, 1951 with an authorised capital of Rs. two crores, divided into two lakhs fully paid-up shares of the face value of Rs. one hundred each and paid-up share capital of Rs. one crore.

The Corporation provides financial assistance for expansion of existing industries and for starting new industries in the State.

The repayment of the share capital of the Corporation and the payment of annual dividend thereon at a minimum rate of 4 per cent have been guaranteed by the State Government.

During a period of two years ending March 1961, the Corporation has extended financial assistance to 32 industries, by way of sanctioning loans amounting to Rs. 71.44 lakhs.

Board of Directors: H. V. Koujalgi, B.A., LL.B., M.L.A. (*Chairman*); *Directors*: G. Mathias, I.A. & A.S., Secretary to Govt. of Mysore, Finance Dept.; T. Shamanna, I.A.S., Director of Industries; P. C. Sood; V. P. Varde; A. Damodar Pai.

ORISSA STATE FINANCIAL CORPORATION

Killa Maidan, Cuttack 1.

The Orissa State Financial Corporation was established by the Orissa State Government under the State Financial Corporations Act, 1951 and commenced functioning from 14th March 1957 with the object of providing medium and long-term credit to small-scale and medium sized industrial concerns in the State of Orissa, primarily for the purpose of purchase, renovation or expansion of plant and machinery and other fixed assets.

The Authorised Capital of the Corporation is Rs. 2 crores divided into 2 lakhs fully paid shares of Rs. 100 each. The shares of the Corporation are guaranteed by the Government of Orissa as to the repayment of principal and payment of annual dividends at the rate of 3½ per cent per annum is also guaranteed by the State Government. The shares are classed as Trustee Securities under the Indian Trusts Act, 1882 and approved Securities for the purpose of the Insurance Act, 1938 and the Banking Companies Act, 1949.

Particulars as on 31st March 1960:
Number of applications received: 144.
Number of applications sanctioned: 56.
Amount of loans sanctioned: Rs. 57,70,000.
Amount actually disbursed: Rs. 19,57,000.
Amount recovered: Rs. 1,56,900.

Rate of Interest: 6½ per cent per annum with a rebate of ½ per cent for prompt payment of instalments and interest.

Total income: Rs. 2,34,000.
Total expenses: Rs. 37,000.

Chairman: S. Nanda, I.A.S., Secretary to Government of Orissa, Finance Department; *Managing Director*: R. N. Sahoo, A.C.A.

PUNJAB FINANCIAL CORPORATION

Head Office: 25-C, Sector 5, Chandigarh.

Sub-Office: Room No. 70, Old Secretariat, Delhi Administration, Delhi.

Established 1st Feb., 1953. The repayment of principal and payment of dividend on its share capital at 3 per cent per annum is guaranteed by the State Government. The Corporation is intended primarily to supply the requirements of industries for block capital.

Total funds available: Over Rs. two crores; Total loans advanced upto March 31, 1961: Rs. 2,26,74,000; Amount repaid upto 31st March 1961: Rs. 56,16,069.37; Total amount of loans sanctioned upto March 31, 1961: Rs. 3,26,87,900 (excluding loans declined, reduced or cancelled).

The State Government have appointed the Corporation as their Agent for routing a part of their annual assistance for State Aid to Industries. Under this arrangement the Corporation is to advance loans to Small Scale Industries ranging from Rs. 25,000·00 to Rs. 50,000·00. Upto the year ended 31st March 1961, the State Government placed at the disposal of the Corporation a sum of Rs. 30.50 lakhs. Total amounts of loans sanctioned upto March 31, 1961: Rs. 19.20 lakhs; Total amount of loans disbursed upto March 31, 1961: Rs. 13.525 lakhs.

Income (April 1, 1960 to March 31, 1961); Rs. 12,47,106.00; Expenses: Rs. 7,16,982.00; Profit: Rs. 5,30,124.00.

Chairman, Board of Directors, Sapuran Singh, I.A.S.; *Managing Director*, S. R. Varma, I.A.S.; *Secretary*, M. S. Rana; *Accountants*, T. L. Khurana, B. L. Sawani.

RAJASTHAN FINANCIAL CORPORATION

Jaipuria Mansion, Mirza Ismail Road, Post Box No. 63, Jaipur.

The Corporation has an authorised capital of Rs. 2 crores, divided into two lakh shares of Rs. 100 each. Only one lakh shares were issued and fully paid-up. The position of shares held by various classes of shareholders as on 31st March 1961 was as follows: State Government 36,200, Reserve Bank of India 21,000, Scheduled Banks, Insurance Companies and other financial institutions 38,250, and parties other than the above 4,550. The object of the Corporation is to provide financial assistance to medium and small-scale concerns in the State.

Chairman, Board of Directors: Ram Nath A Poddar, J.P.

Managing Director: G. S. Purohit.

Directors: Mohan Mukerjee, A. K. Roy, Sardar Ujjal Singh, G. D. Somani, L. N. Birla, J. S. Jaspal, Kamal Nayan Bajaj and P. V. Shrikanta Rao.

The Corporation sanctioned loans amounting to Rs. 1,24,50,000 to 61 industrial concerns by the end of March 1961. Of this amount a sum of Rs. 68,54,200 was disbursed by the Corporation till the end of March 1961.

Under State-Aid to Small-Scale & Cottage Industries Rules, the Corporation sanctioned loans amounting to Rs. 3,34,400 to 23 industrial concerns by the end of March, 1961. Of this amount, a sum of Rs. 1,58,200 was disbursed by the Corporation till the end of March 1961.

During 1960–61 the Corporation made a net profit of Rs. 4,27,496 as compared to Rs. 4,13,432 made during 1959–60, subject to taxation.

U. P. FINANCIAL CORPORATION,

7/154, Swarupnagar, Kanpur.

The Corporation was established on Nov. 1, 1954. It has an authorized capital of Rs. 3 crores, which is divided into 3 lakh fully paid-up shares of Rs. 100 each. The paid-up capital of the Corporation as on date is Rs. 1 crore divided into 1 lakh shares of Rs. 100 each fully paid-up. These shares have been distributed in this way: 55,360 State Government; 15,000 Reserve Bank; 27,096 Scheduled Banks, Co-operative Banks, Insurance Companies, Investment Trusts and other Financial Institutions; 2,544 others.

The object is to provide finance to small and medium scale industries.

The Corporation received 98 applications for loans during the year 1960-61 duly recommended by the Directorate of Industries. In addition, it had to deal with 19 applications which were pending on March 31, 1960. Out of these, 27 applications aggregating Rs. 78.35 lakhs were sanctioned, ten were rejected and 19 were pending at the end of the year.

Profit for 1960–61: Rs. 4,48,521.11

WEST BENGAL FINANCIAL CORPORATION

P-11, Mission Row Extension (5th Floor), Calcutta-1.

The Corporation was established as from the 1st March 1954. The object of the Corporation is to provide financial assistance, chiefly by way of long and medium term loans, to industrial concerns in the State.

Authorised Capital Rs. 2 crores divided into 2,00,000 fully paid-up shares of Rs. 100 each, of which 1,00,000 fully paid-up shares of the total value of Rs. 1 crore were issued in the first instance and are held by the following classes of shareholders:

The shares are guaranteed by the State Govt. as to the repayment of principal and the payment of annual dividend at the minimum rate of 3½ per cent per annum.

The Corporation issued the following bonds guaranteed by the State Govt. as to the repayment of principal and the payment of interest.

(*i*) 4¾ per cent ten-year bonds 1968, Rs. 50 lakhs.

(*ii*) 4½ per cent twelve-year bonds 1972 Rs. 50 lakhs.

	Shares	Rs.
a) State Govt.	31,770	31,77,000
b) Reserve Bank ..	20,000	20,00,000
c) Scheduled banks, insurance companies, investment trusts, co-operative banks or other financial institutions ..	45,000	45,00,000
d) Other parties ..	3,230	3,23,000
	1,00,000	1,00,00,000

Gross income (1960–61): Rs. 11,69,884.66.
Expenditure: Rs. 5,65,506.20.
Net Profit: Rs. 3,48,729.45.

BOARD OF DIRECTORS

Chairman, B. M. Birla.
Managing Director, M. K. Adhikari.
Directors, G. Basu; B. P. Singh Roy; K. K. Roy; S. R. Mitra; S. M. Banerjee; S. C. Roy; Raghuraj Swarup; T. P. Choudhury.
Secretary, B. K. Roy.

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EDUCATIONAL STATISTICS (1957-58)

Note : Figures in all the tables below are revised figures except the 1958-59 figures which are provisional.

1. INSTITUTIONS, ENROLMENT, EXPENDITURE

State	Number of Institutions for		Enrolment in Institutions for		Expenditure (in Rs.) on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	32,991	714	21,26,610	10,72,566	15,79,79,845	1,04,63,310
Assam	15,117	994	8,37,493	3,91,454	5,62,91,964	51,04,481
Bihar	38,179	3,988	23,94,699	4,50,980	14,62,64,520	94,33,185
Bombay*	63,859	5,796	46,56,461	21,66,518	40,30,31,027	4,87,89,110
Jammu & Kashmir	2,287	443	1,98,625	45,126	1,15,46,377	21,82,097
Kerala	10,165	231	16,29,498	12,65,153	11,95,62,294	79,91,206
Madhya Pradesh ..	29,052	2,329	16,74,947	3,79,184	11,85,13,721	1,43,03,175
Madras	26,977	326	23,83,050	12,41,338	21,12,34,591	1,99,14,841
Mysore	28,378	2,075	16,19,939	7,78,610	11,20,50,149	1,37,50,463
Orissa	19,612	423	7,69,440	2,18,915	5,14,02,841	22,88,048
Punjab	12,849	2,388	14,32,869	4,89,449	11,08,24,702	1,90,46,030
Rajasthan	12,046	980	7,83,003	1,54,031	6,75,85,017	75,35,221
Uttar Pradesh ..	38,418	4,304	38,46,174	7,81,424	27,51,39,205	3,02,59,113
West Bengal ..	31,749	2,077	24,81,111	10,17,663	23,64,44,536	3,06,40,859
A. & N. Islands ..	48	..	2,273	1,243	3,81,478	..
Delhi	702	403	2,18,106	1,35,090	6,55,14,049	1,48,70,144
Himachal Pradesh	1,236	29	75,262	12,999	59,06,130	3,21,037
L. M. Islands ..	15	..	1,835	621	1,21,821	..
Manipur	1,460	57	91,029	30,263	32,59,162	1,71,464
Tripura	1,561	59	77,630	30,315	1,05,94,882	8,23,465
N.E.F.A.	107	..	4,034	523	17,19,849	..
Pondicherry ..	286	50	22,346	11,857	27,83,994	4,31,985
India (1958-59)	3,83,755	29,901	3,76,35,213	37,61,256	2,39,46,09,252	26,54,13,866

* Bilingual.

A. & N. Islands = Andaman & Nicobar Islands, L. M. Islands = Laccadive, Minicoy and Amindivi Islands.

2. INSTITUTIONS

State	Number of Institutions for		
	Boys	Girls	All Persons
Andhra ..	32,991	714	33,705
Assam ..	15,117	994	16,111
Bihar	38,179	3,988	42,167
Bombay* ..	63,859	5,796	69,655
Jammu & Kashmir	2,287	443	2,730
Kerala ..	10,165	231	10,396
Madhya Pradesh	29,052	2,329	31,381
Madras ..	26,977	326	27,303
Mysore ..	28,378	2,075	30,453
Orissa ..	19,612	423	20,035
Punjab ..	12,849	2,388	15,237
Rajasthan ..	12,046	980	13,026
Uttar Pradesh	38,418	4,304	42,722
West Bengal	31,749	2,077	33,826
A. & N. Islands	48	..	48
Delhi ..	702	403	1,105
Himachal Pradesh	1,236	29	1,265
L. M. Islands	15	..	15
Manipur ..	1,460	57	1,517
Tripura ..	1,561	59	1,620
N.E.F.A. ..	107	..	107
Pondicherry	286	50	336
India (1958-59)	3,83,755	29,901	4,13,656

* Bilingual.

3. PRIMARY SCHOOLS

State	Number of Institutions for		Enrolment of		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Schools for Boys	Schools for Girls
Andhra	29,342	453	15,59,161	9,37,652	6,20,63,177	18,00,050
Assam	12,516	707	5,47,604	2,98,355	1,49,94,157	10,23,563
Bihar	27,308	3,109	13,59,974	3,33,340	2,82,68,771	23,61,281
Bombay*	40,143	1,996	26,17,694	14,25,879	11,39,11,994	1,69,17,675
Jammu & Kashmir	1,935	353	1,01,444	18,563	24,56,589	4,12,440
Kerala	7,014	38	9,46,365	7,89,224	4,22,47,649	3,58,583
Madhya Pradesh	23,906	1,642	11,13,703	2,56,565	4,03,20,670	49,64,736
Madras	23,431	..	17,54,448	10,01,299	8,29,13,562	..
Mysore	20,787	1,293	10,20,382	5,97,417	4,11,48,258	63,70,136
Orissa	15,506	211	5,26,028	1,84,464	1,38,13,577	3,07,651
Punjab	10,535	1,672	6,62,586	2,73,107	2,29,50,173	51,56,326
Rajasthan	9,444	556	4,25,040	81,215	1,60,67,601	18,[illegible]7,155
Uttar Pradesh	31,767	3,203	26,87,813	5,69,237	5,62,52,392	61,06,359
West Bengal	24,522	934	15,63,837	8,01,802	5,65,92,623	46,54,029
A. & N. Islands	44	..	1,169	761	94,515	..
Delhi	339	191	73,777	52,724	74,51,087	31,32,801
Himachal Pradesh	885	15	37,001	6,393	22,06,617	44,293
L. M. Islands	10	..	1,703	621	30,635	..
Manipur	1,058	44	58,461	23,460	11,77,624	50,425
Tripura	1,041	..	43,459	21,318	30,24,071	..
N.E.F.A.	93	..	2,859	352	4,04,309	..
Pondicherry	187	16	6,772	3,225	6,29,612	57,458
India (1958-59) ..	2,84,866	16,793	1,70,76,581	73,01,032	58,59,97,061	5,03,57,949

* Bilingual.

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4. HIGHER SECONDARY SCHOOLS

State	Number of Institutions for		Enrolment of		Expenditure in Rs. on	
	Boys	Girls	Boys	Girls	Schools for Boys	Schools for Girls
Andhra	49	12	41,837	11,685	40,30,898	7,96,658
Assam	377(a)	56(a)	1,32,347	38,143	1,01,35,811	16,94,322
Bihar	8	..	4,322	92	3,10,660	..
Bombay*	1,535(a)	233(a)	5,92,350	1,98,404	6,98,57,364	1,34,47,203
Jammu and Kashmir	7	..	5,133	2	3,67,317	..
Kerala	678(a)	129(a)	3,18,540	2,17,097	2,18,47,275	45,60,829
Madhya Pradesh	18	4	9,100	2,126	12,27,784	1,16,507
Madras	777(a)	178(a)	3,88,847	1,41,420	3,53,10,402	75,33,378
Mysore	460(a)	96(a)	1,41,445	46,299	1,44,85,333	28,28,685
Orissa	288(a)	16(a)	70,887	9,315	56,87,225	4,65,258
Punjab	1,011(a)	222(a)	4,99,164	1,13,648	3,00,07,508	60,08,688
Rajasthan	87	9	31,977	3,650	47,84,777	5,13,637
Uttar Pradesh	1,338	246	6,15,412	1,07,925	6,26,19,405	1,21,22,004
West Bengal	308	95	1,41,591	39,558	1,62,86,448	54,82,940
A. & N. Islands	1(a)	..	684	363	1,37,700	..
Delhi	79	40	63,215	31,056	86,40,034	29,88,308
Himachal Pradesh	45(a)	5(a)	18,295	3,059	14,81,439	1,80,933
L. M. Islands	..	..	..	..	..	..
Manipur	39(a)	3(a)	12,733	2,859	5,85,380	79,823
Tripura	7	1	2,818	987	4,23,941	1,04,659
N. E. F. A.	2(a)	..	345	81	1,00,340	..
Pondicherry	14(a)	8(a)	5,600	3,200	1,49,395	1,17,119
India (1958-59)	46,016	5,848	1,03,89,708	39,40,295	67,83,43,470	11,91,79,200

* Bilingual. (a) High Schools.

5. UNIVERSITY EDUCATION

State	Number of Universities for		Number of Arts and Science Colleges		Number of Technical, Professional and Special Education Colleges for		Total number of Colleges for	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	3	..	50	5	43	3	93	8
Assam	1	..	24	4	9	..	33	4
Bihar	2	..	63	6	33	1	96	7
Bombay*	6	1	95	12	102	25	197	37
Jammu and Kashmir	1	..	10	2	7	6	17	8
Kerala	1	..	31	10	28	2	59	12
Madhya Pradesh	4	..	56	7	43	2	99	9
Madras	2	..	43	16	50	4	93	20
Mysore	2	..	47	4	52	11	99	15
Orissa	1	..	16	1	20	..	36	1
Punjab	2	..	67	11	30	4	97	15
Rajasthan	1	..	47	10	36	1	83	11
Uttar Pradesh	7	..	75	11	45	10	120	21
West Bengal	3	..	93	21	42	8	135	29
A. & N. Islands	..	..	..	..	..	..	..	..
Delhi	1	..	17	3	9	3	26	6
Himachal Pradesh	..	..	3	..	..	..	3	..
L. M. & A. Islands	..	..	..	..	..	..	..	..
Manipur	..	..	2	..	1	..	3	..
Tripura	..	..	2	..	2	1	4	1
N. E. F. A.	..	..	..	..	..	..	..	..
Pondicherry	..	..	2	..	3	..	5	..
India (1958-59)	39	1	786	134	647	59	1,432	193

* Bilingual.

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6. STATISTICS OF UNIVERSITY EDUCATION (ENROLMENT)

State	Universities	Research Institutions	Arts and Science Colleges	Professional and Technical Colleges	Special Education Colleges
Andhra	2,442	..	44,740	7,464	772
Assam	122	..	16,841	1,642	11
Bihar	3,449	98	57,108	9,148	425
Bombay *	2,249	438	81,411	39,856	1,299
Jammu and Kashmir	105	..	6,003	277	1,407
Kerala	105	..	27,301	3,777	507
Madhya Pradesh	1,549	..	30,515	6,435	1,799
Madras	3,651	..	35,404	10,400	1,872
Mysore	297	533	31,301	12,444	1,394
Orissa	94	..	6,976	1,719	340
Punjab	263	..	49,337	6,915	66
Rajasthan	559	..	34,270	4,298	2,104
Uttar Pradesh	29,511	393	53,943	5,674	2,070
West Bengal	9,793	564	1,09,038	10,129	2,918
A. & N. Islands	..	..	..	..	..
Delhi	1,726	413	13,426	3,613	515
Himachal Pradesh	..	..	486	48	..
L. M. Islands	..	..	..	..	..
Manipur	..	..	1,540	..	129
Tripura	..	..	1,524	93	6
N.E.F.A.	..	..	..	..	..
Pondicherry	..	..	1,230	118	..

India (1958-59): General Education—Boys 6,09,937; Girls 1,24,679; Technical and Professional Education—Boys 2,00,969; Girls 21,836. Total Boys 8,10,906; Girls 1,46,515.

* Bilingual.

7. UNIVERSITY EDUCATION (DIRECT EXPENDITURE)

(in Rs.)

State	Universities	Boards of Secondary and/ or Intermediate Education	Research Institutions	Arts and Science Colleges	Colleges for Professional and Technical Education	Colleges for Special Education
Andhra	60,79,504	14,90,712	..	1,13,49,198	51,25,961	4,89,123
Assam	24,31,236	..	..	25,62,932	16,99,014	6,788
Bihar	43,14,488	13,09,443	2,39,969	1,03,71,552	56,25,763	2,47,867
Bombay*	1,27,16,970	33,13,165	36,48,259	2,39,59,642	1,84,81,314	13,33,544
Jammu and Kashmir	5,18,022	..	..	13,81,839	2,29,165	1,49,546
Kerala	17,62,371	..	..	65,25,408	21,48,034	1,77,527
Madhya Pradesh	21,29,625	6,83,390	93,076	79,31,477	48,95,297	6,65,959
Madras	70,11,291	15,34,741	..	1,15,00,346	84,78,484	4,93,517
Mysore	21,61,310	..	25,82,783	66,87,464	48,75,614	2,64,588
Orissa	6.92,809	2,63,537	..	29,26,390	14,14,057	96,907
Punjab	81,24,982	..	..	1,10,15,877	53,00,961	20,653
Rajasthan	14,09,549	8,32,047	..	77,65,335	29,70,279	4,85,229
Uttar Pradesh	3,41,63,397	61,31,965	70,51,254	1,38,10,694	63,51,687	5,40,311
West Bengal	1,06,60,024	17,59,500	18,91,934	1,76,29,531	1,36,64,664	7,58,654
A. & N. Islands	..	..	..	..	..	..
Delhi	39,68,419	2,51,612	1,39,40,193	49,61,092	69,90,496	4,03,041
Himachal Pradesh	..	..	..	2,02,186	38,479	..
L. M. Islands	..	..	..	..	..	..
Manipur	..	..	..	1,92,913	..	15,223
Tripura	..	..	..	3,18,908	72,223	7,240
N.E.F.A.	..	..	..	..	..	..
Pondicherry	..	..	..	65,000	1,25,097	..

India (1958-59): Univ. Arts and Science Coll. (including research institutions—Boys 28,34,55,981, Girls 1,60,96,548; Colleges for technical and professional education—Boys 11,19,09,545, Girls 58,51,749. Total—Boys 39,53,65,526; Girls 2,19,48,297.

* Bilingual.

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8. TECHNICAL AND VOCATIONAL EDUCATION (SCHOOLS)*

State	Number of Schools for		Enrolment		Expenditure in Rs. on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	224	32	17,905	2,219	43,28,158	2,74,084
Assam	67	15	6,217	781	25,66,317	1,15,738
Bihar	162	29	15,187	1,682	54,25,593	2,82,703
Bombay†	546	305	49,986	21,069	1,29,04,730	37,29,762
Jammu & Kashmir	..	..	..	..	..	..
Kerala	60	18	5,498	2,265	14,99,621	1,17,248
Madhya Pradesh	128	21	8,898	1,177	45,73,389	4,37,091
Madras	495	74	40,702	11,677	55,31,259	11,23,993
Mysore	224	24	22,715	3,119	39,97,742	2,48,683
Orissa	84	14	4,792	420	13,02,358	77,554
Punjab	78	35	8,144	2,676	33,43,355	7,09,013
Rajasthan	31	2	3,075	164	19,09,427	99,500
Uttar Pradesh	156	61	16,490	3,065	76,89,481	9,27,496
West Bengal	212	80	27,696	7,678	63,70,714	9,02,437
A. & N. Islands	..	..	..	..	..	..
Delhi	5	5	1,303	679	4,39,673	2,91,084
Himachal Pradesh	3	..	239	63	1,32,008	..
L.M. Islands	..	..	..	..	..	..
Manipur	4	..	202	9	61,033	..
Tripura	25	2	322	429	1,40,466	31,274
N.E.F.A.	1	..	68	4	83,093	..
Pondicherry	5	1	420	140	40,807	1,324
India (1958-59)	2,828	735	2,72,548	70,298	7,27,66,245	94,17,895

* Includes enrolment in attached classes.

† Bilingual.

9. VOCATIONAL AND TECHNICAL EDUCATION

Type	SCHOOLS			COLLEGES		
	Number of Institutions	Number of boys	Number of girls	Number of Institutions	Number of boys	Number of girls
Agriculture	105	8,154	30	25	9,300	62
Arts and Crafts	312	2,271	10,574	..	..	..
Commerce	877	73,997	11,172	33	62,712	494
Engineering	100	39,715	84	50	24,980	53
Forestry	5	201	..	3	512	..
Law	..	..	..	31	22,117	481
Industry	626	30,801	13,133	..	..	..
Medicine	117	4,188	4,093	106	25,072	5,245
Physical Education	37	2,736	364	14	535	116
Teachers' Training	901	60,422	23,770	203	14,644	7,407
Technology	126	16,611	73	7	2,949	9
Veterinary Science	12	1,346	..	14	4,803	29
Others	14	2,612	53	2	218	5
India (1958-59)	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

N.A. = Not available.

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10. TECHNICAL AND PROFESSIONAL EDUCATION (COLLEGIATE) †

State	Number of Colleges for		Enrolment †		Expenditure in Rs. on Institutions for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	23	1	6,805	659	50,87,370	38,591
Assam	8	..	1,586	56	16,99,014	..
Bihar	26	1	8,890	258	55,92,736	33,027
Bombay*	92	24	36,226	3,630	1,83,07,338	1,73,976
Jammu & Kashmir	3	..	195	82	2,29,165	..
Kerala	21	2	3,028	750	20,87,801	60,233
Madhya Pradesh	30	1	5,841	594	48,24,206	71,091
Madras	30	4	9,060	1,340	82,09,579	2,68,905
Mysore	45	11	11,011	1,433	46,97,971	1,77,643
Orissa	16	..	1,595	124	14,14,057	..
Punjab	29	4	5,284	1,631	51,23,033	1,77,928
Rajasthan	19	..	4,107	191	29,70,279	..
Uttar Pradesh	35	10	4,929	745	59,32,172	4,19,515
West Bengal	34	4	9,047	1,082	1,35,35,472	1,29,192
A. & N. Islands	..	..	..	..	..	..
Delhi	8	2	3,077	536	40,18,650	29,71,846
Himachal Pradesh	1	..	47	1	38,479	..
L. M. Islands	..	..	..	..	..	..
Manipur	..	..	..	..	..	..
Tripura	2	..	72	21	72,223	..
N. E. F. A.	..	..	..	..	..	..
Pondicherry	3	..	91	27	1,25,097	..
India (1958-59)	497	42	1,85,757	15,863	10,58,85,770	48,70,502

* Bilingual. † Includes enrolment in attached classes.

11. TEACHER TRAINING INSTITUTIONS (NUMBER) †

State	Colleges		Schools	
	Basic	Non-Basic	Basic	Non-Basic
Andhra	1	6	36	50
Assam	1	1	19	15
Bihar	3	2	62	26
Bombay*	5	46	123	52
Jammu & Kashmir	..	2	8	..
Kerala	..	12	21	23
Madhya Pradesh	3	5	47	5
Madras	1	15	97	40
Mysore	9	24	16	7
Orissa	7	3	..	47
Punjab	9	8	24	..
Rajasthan	4	..	28	..
Uttar Pradesh	5	15	91	..
West Bengal	3	8	16	40
A. & N. Islands	..	..	..	..
Delhi	..	1	2	1
Himachal Pradesh	1	..	2	..
L. M. Islands	..	..	..	..
Manipur	..	..	1	1
Tripura	1	1	..	..
N.E.F.A.	..	..	1	..
Pondicherry	..	1	..	..
India (1958-59)	54	179	679	295

* Bilingual. † Only non-technical and non-professional education.

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12. TEACHER TRAINING INSTITUTIONS (ENROLMENT, EXPENDITURE) ††

State	TRAINING SCHOOLS				TRAINING COLLEGES			
	Enrolment ††		Expenditure in Rs. on schools†		Enrolment ††		Expenditure in Rs. on Colleges †	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	5,565	1,301	17,71,896	2,32,919	767	156	4,22,531	38,591
Assam	1,900	331	9,12,141	63,035	98	19	81,290	..
Bihar	5,915	996	18,37,734	2,17,223	544	87	2,92,710	33,027
Bombay*	11,514	5,857	28,53,334	15,99,565	1,966	1,565	12,31,971	1,73,976
Jammu & Kashmir	426	120	..	..	154	87	2,36,640	..
Kerala	3,235	3,136	6,03,889	1,02,456	880	492	8,15,119	60,233
Madhya Pradesh	4,940	576	19,03,624	2,72,871	903	275	8,61,501	71,091
Madras	10,317	6,962	15,10,348	9,72,365	851	324	7,48,459	2,68,905
Mysore	2,667	691	10,52,908	1,31,784	2,016	939	11,00,591	1,77,643
Orissa*	2,298	82	3,17,475	26,898	722	32	94,517	..
Punjab	2,334	1,979	4,79,427	2,96,408	2,382	1,581	7,87,722	1,52,350
Rajasthan	2,447	164	15,50,981	99,500	387	67	4,32,145	..
Uttar Pradesh	4,931	813	21,31,875	5,50,291	1,903	987	9,60,645	3,96,595
West Bengal	1,456	445	4,54,589	1,75,761	831	640	5,28,230	1,29,192
A. & N. Islands	..	..	..	..	..	..	..	..
Delhi	122	237	87,489	89,713	103	139	2,27,547	..
Himachal Pradesh	150	48	95,913	..	47	1	39,334	..
L. M. Islands	..	..	..	..	..	..	..	..
Manipur	94	8	17,698	..	..	..	..	..
Tripura	43	20	72,223	..	29	1	..	..
N.E.F.A.	68	4	83,093	..	..	..	..	..
Pondicherry	..	..	..	..	31	15	12,885	..
India (1958-59)	64,708	25,275	2,05,85,045	49,89,830	16,258	8,170	1,01,52,528	17,84,499

† Provisional * Bilingual. †† Includes enrolment in attached classes.

13. SOCIAL (ADULT) EDUCATION

State	Number of Schools for		Enrolment		Expenditure‡ in Rs.†† on Schools for	
	Boys	Girls	Boys	Girls	Boys	Girls
Andhra	1,895	3	52,362	3,730	3,87,164	1,217
Assam	682	40	24,939	2,587	1,36,531	6,658
Bihar	5,695	607	2,20,655	27,230	10,48,861	1,09,636
Bombay*	15,976	2,576	2,93,380	54,887	7,76,679	2,19,098
Jammu and Kashmir	..	..	..	..	..	..
Kerala	568	5	8,170	499	31,493	570
Madhya Pradesh	2,737	309	53,796	5,429	5,90,983	52,073
Madras	1,529	..	37,860	5,672	4,07,412	85,359
Mysore	4,845	415	92,085	6,690	1,16,420	12,936
Orissa	1,662	115	55,329	2,722	2,61,183	7,949
Punjab	165	116	8,122	4,171	2,75,343	1,51,159
Rajasthan	1,131	209	23,016	4,936	3,35,052	90,718
Uttar Pradesh	422	153	11,770	3,145	80,691	14,840
West Bengal	2,850	404	1,49,943	18,162	6,18,644	87,688
A. & N. Islands	..	..	..	..	..	..
Delhi	110	84	4,816	3,946	2,52,225	1,82,875
Himachal Pradesh	117	..	4,068	59	4,421	..
L. M. Islands	5	..	132	..	†	†
Manipur	57	..	1,302	244	6,850	
Tripura	339	42	16,361	3,469	5,04,336	66,324
N.E.F.A.	..	..	..	..	..	..
Pondicherry	37	5	800	140	11,427	@
India (1958-59)	41,931	6,032	10,80,056	1,77,584	93,08,891	

* Bilingual. † Not available. †† Refers to direct expenditure only. @ Included in expenditure on schools for boys. ‡ Provisional.

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14. BASIC SCHOOLS

State	Number of Schools	Number of Pupils	Number of Teachers@	Direct Expenditure in Rs.
Andhra	1,866	2,23,200	7,189	58,51,949
Assam	1,359	1,22,794	3,564	28,26,519
Bihar	2,661	2,08,893	8,412	68,14,920
Bombay*	7,470	15,41,745	41,918	58,51,949
Jammu and Kashmir	..	..	..	..
Kerala	601	1,35,961	3,687	31,27,934
Madhya Pradesh	2,019	1,72,839	6,666	55,58,135
Madras	2,841	4,16,492	13,335	1,26,83,312
Mysore	2,297	3,54,824	10,177	1,12,31,811
Orissa	383	26,262	1,081	11,34,467
Punjab	691	79,279	2,133	25,23,316
Rajasthan	938	77,609	3,011	37,70,109
Uttar Pradesh	34,970	32,57,050	85,353	6,23,58,751
West Bengal	924	96,006	3,447	29,98,471
A. & N. Islands	5	212	8	18,902
Delhi	297	38,148	1,309	23,73,178
Himachal Pradesh	379	20,838	893	12,06,224
L. M. Islands	..	..	..	..
Manipur	20	1,968	43	11,896
Tripura	130	19,684	780	11,67,849
N. E. F. A.	7	195	14	†
Pondicherry	..	..	..	..
India (1958-59)	65,798	77,23,216	2,14,432	20,47,47,639

* Bilingual. † Figures not available @ Provisional.

15. SCHOOLS FOR THE HANDICAPPED

State	Number of Schools				Number of Students				Expenditure in Rs.
	Blind	Deaf-Mute	Crippled	Mentally Handicapped	Blind	Deaf-Mute	Crippled	Mentally Handicapped	
Andhra	4	1	3	–	210	49	106	–	1,11,809
Assam	–	1	–	–	–	48	–	–	13,170
Bihar	4	2	–	–	143	76	–	–	1,10,055
Bombay†	17	14	2	2	725	616	68	218	9,08,258
Jammu & Kashmir	1	–	–	–	23	–	–	–	5,600
Kerala	4	3	–	–	87	188	–	–	1,02,703
Madhya Pradesh ..	4	–	–	–	143	–	–	–	50,161
Madras	3	5	4	–	345	739	269	–	3,90,139
Mysore	2	–	–	–	131	–	–	–	76,815
Orissa	–	1	–	–	–	11	–	–	8,797
Punjab	3	1	2	–	157	14	143	–	1,36,382
Rajasthan	2	–	–	–	82	–	–	–	71,104
Uttar Pradesh ..	12	7	–	–	433	329	–	–	6,78,526
West Bengal ..	3	5	–	1	207	353	–	60	5,05,182
A. & N. Islands ..	–	–	–	–	–	–	–	–	–
Delhi	3	1	–	–	241	217	–	–	2,75,337
Himachal Pradesh	–	–	–	–	–	–	–	–	–
L. M. Islands ..	–	–	–	–	–	–	–	–	–
Manipur	–	–	–	–	–	–	–	–	–
Tripura	–	–	–	–	–	–	–	–	–
N. E. F. A. ..	–	–	–	–	–	–	–	–	–
Pondicherry ..	1	–	–	–	15	–	–	–	1,840
India (1958-59)	71	42	11	4	3,283	2,822	632	310	37,14,128

† Bilingual.

LITERACY

(See relevant table under 'Population').

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16. NUMBER OF STUDENTS ON ROLLS

The figures for recognized institutions are given below.

Institutions	Boys	Girls	Total
Colleges (General Education) :—			
Research	2,784	478	3,262
M.A. & M.Sc.	24,828	5,642	30,477
B.A. & B.Sc. (Pass & Hons.)	1,52,125	37,344	1,89,469
Intermediate (Arts & Science)	3,75,342	63,432	4,38,774
Colleges (Professional and Special) :—			
Education (Teachers' Training)	14,644	7,407	22,051
Engineering	24,980	53	25,033
Technology	2,949	9	2,958
Medicine	25,072	5,245	30,317
Veterinary Science	4,803	29	4,832
Agriculture	8,154	30	8,184
Forestry	201	..	201
Commerce	73,997	11,172	85,169
Law	22,117	481	22,598
Physical Education	535	116	651
Music, Dancing & Other Fine Arts	1,678	2,101	3,779
Oriental Studies	8,308	721	9,029
Others	3,205	347	3,552
Schools (General Education) :—			
Secondary	62,17,127	16,90,382	79,07,509
Primary	1,88,27,035	85,63,847	2,73,90,882
Pre-Primary	50,662	44,051	94,713
Schools (Professional & Special) :—			
Normal & Training	60,131	23,667	83,798
Engineering	39,715	84	39,799
Technology & Industry	47,412	13,206	60,618
Medicine	4,188	4,093	8,281
Agriculture & Forestry	8,355	30	8,385
Commerce	73,997	11,172	85,169
Arts & Crafts	2,271	10,574	12,845
Schools for Physical Education	2,736	364	3,100
Others	2,612	53	2,665
Music, Dancing & Other Fine Arts	7,960	9,774	17,734
Oriental Studies	1,20,429	12,025	1,32,454
For the Handicapped	4,395	1,319	5,714
For Adults	10,58,912	1,47,718	12,06,630
Reformatory	6,344	1,117	7,461
Other Subjects	50,176	16,284	66,460
Total (1958-59)	2,96,11,798	1,18,14,951	4,14,26,749

17. NUMBER OF PASSES AT MATRICULATION AND UNIVERSITY EXAMINATIONS

State	M.A. and M.Sc.	B.A. and B.Sc. (Pass and Hons.)	Professional (Degree)	Professional (Diploma/ Certificate)	Matriculation and Equivalent Examinations
Andhra	333	5,393	2,838	6,416	34,530
Assam	123	1,207	240	2,912	9,124
Bihar	1,201	4,370	2,853	12,045	39,569
Bombay†	1,829	10,229	7,205	29,377	86,655
Jammu & Kashmir	43	740	199	486	3,843
Kerala	174	4,263	2,072	3,929	37,069
Madhya Pradesh	736	1,880	2,159	6,749	25,984
Madras	394	5,789	3,392	39,568	28,165
Mysore	275	2,992	2,053	13,234	29,203
Orissa	94	766	364	2,376	6,269
Punjab	1,318	8,604	3,754	3,455	55,582
Rajasthan	689	1,779	1,714	5,022	18,169
Uttar Pradesh	5,368	14,612	7,755	8,578	1,00,578
West Bengal	1,385	9,528	5,808	12,343	41,590
A. & N. Islands	..	..	..	..	26
Delhi	483	1,412	1,066	1,770	6,193
Himachal Pradesh	..	20	..	167	1,122
L. M. & A. Islands	..	..	..	..	..
Manipur	..	57	..	166	668
Tripura	..	119	42	483	804
N.E.F.A.	..	..	..	18	5
Pondicherry	..	21	2	68	278
India (1958-59)	N.A.	5,61,868	N.A.	N.A.	N.A.

† Billingual.

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18. EXPENDITURE ON RECOGNIZED INSTITUTIONS

By Sources

	Boys	Girls	Total
Government Funds (Central)	16,87,20,921	76,67,262	17,63,88,183
Government Funds (State)	1,27,17,99,286	13,07,31,942	1,40,25,31,228
District Board Funds	9,19,76,633	50,05,954	9,69,82,587
Municipal Board Funds	5,92,22,651	1,56,19,534	7,48,42,185
Fees	38,55,21,964	5,08,72,304	43,63,94,268
Endowments, etc.	5,93,35,288	1,04,79,046	6,98,14,334
Other Sources	13,15,75,411	1,79,43,192	14,95,18,603
By Type of Institution			
Direct Expenditure on :			
Universities	9,78,40,367	3,03,630	9,81,43,997
Boards of Secondary and/or Intermediate Education	1,75,70,112	..	1,75,70,112
Research Institutions	2,94,47,011	727	2,94,47,738
Arts and Science Colleges	12,81,38,389	1,30,19,395	14,11,57,784
Colleges for Professional and Technical Education	8,39,64,642	45,21,947	8,84,86,589
Colleges for Special Education	52,85,516	8,70,201	61,55,717
Post Basic Schools	5,71,382	45,255	6,16,637
Higher Secondary Schools	9,86,91,264	2,21,24,713	12,08,15,977
High Schools	28,74,57,178	5,55,14,344	34,29,71,522
Middle Schools :			
Basic	5,64,96,080	61,38,740	6,26,34,820
Non-Basic	12,42,40,248	2,07,76,851	14,50,17,099
Primary Schools :			
Basic	10,01,47,001	83,57,107	10,85,04,108
Non-Basic	51,20,56,662	4,68,17,854	55,88,74,516
Pre-Primary Schools	21,78,130	11,21,414	32,99,544
Vocational and Technical Schools	6,26,98,207	94,32,274	7,21,36,481
Special Education Schools	2,62,01,089	30,17,612	2,92,18,701
Total (Direct)	1,63,22,83,278	19,20,62,064	1,82,50,45,342
Indirect Expenditure on :			
Direction and Inspection	4,58,30,400	19,00,746	4,77,31,146
Buildings	25,57,81,655	2,19,47,874	27,77,29,529
Scholarships	9,42,12,347	1,13,59,380	10,55,71,727
Hostels	3,07,82,221	70,31,198	3,78,13,419
Other Miscellaneous Items	10,85,62,253	40,17,972	11,25,80,225
Total (Indirect)	53,51,68,876	4,62,57,170	58,14,26,046
Grand Total	2,16,81,52,154	23,83,19,234	2,40,64,71,388

19. TEACHERS IN SCHOOLS FOR GENERAL EDUCATION

Recognized

	Men	Women
Secondary Schools		
Trained	1,97,157	57,817
Untrained	1,29,123	22,395
Total	3,26,280	80,212
Primary		
Trained	3,67,588	95,847
Untrained	2,34,482	31,321
Total	6,02,070	1,27,168

20. COMPULSORY PRIMARY EDUCATION ††

State	Compulsion age-group Towns	Compulsion age-group Villages	Number of Towns	Number of Villages	Number of Schools in towns	Number of Schools in villages	Total number of pupils
Andhra	6–11	6–11	302	1,631	1,086	1,858	4,12,891
Assam	6–11	6–11	14	4,407	129	3,676	3,21,540
Bihar	6–10	6–14	16	55	651	39	67,552
Bombay†	6–14	7–11	282	28,018	3,512	26,472	26,58,556
Jammu & Kashmir	–	–	–	–	–	–	–
Kerala	–	5–14	–	22*	–	1,285	4,20,994
Madhya Pradesh	6–11	6–11	100	4,186	951	2,027	2,37,045
Madras	5–10	5–10	309	951	2,233	1,836	9,07,687
Mysore	6–10/11	6–10/11	126	2,244	1,198	7,470	6,51,560
Orissa	6–11	6–11	2	8	17	6	3,775
Punjab	6–11	6–12	30	5,584	254	2,288	2,95,353
Rajasthan	–	6–11	–	706	–	481	27,564
Uttar Pradesh	6–11	6–11	1,695	2,687	2,405	565	4,87,499
West Bengal	6–11	6–11	4	5,743	122	2,999	3,37,574
A. & N. Islands	–	–	–	–	–	–	–
Delhi	6–11	6–11	1	305	203	300	1,43,507
Himachal Pradesh	–	–	–	–	–	–	–
L. M. Islands	–	–	–	–	–	–	–
Manipur	–	–	–	–	–	–	–
Tripura	–	–	–	–	–	–	–
N. E. F. A.	–	–	–	–	–	–	–
N.H.T.A.	–	–	–	–	–	–	–
Pondicherry	–	–	–	–	–	–	–
India	–	–	1,281	55,525	12,851	51,302	69,73,097
India (1958-59)	–	–	1,195	57,499	14,177	50,886	72,35,207

* Compulsion enforced in six complete talukas and 16 selected centres of talukas. † Bilingual. †† Provisional.

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EVENTS OF THE YEAR (1st June 1960—31st May 1961)

JUNE 1960

4: A.I.C.C. Session begins in Poona.

5: Members of the Congress Working Committee vote against Mr. Nehru on the issue of Organisational reforms namely the elected executive.

7: Mr. Morarji Desai leaves Bombay on a 5-week tour of some continental countries and Russia to discuss with them economic problems and assess India's foreign aid prospects.

13: Heat wave in parts of Uttar Pradesh and Madhya Pradesh, 97 people die of sunstroke.

14: Central Government decides to appoint a 44-man Central Committee to review the progress of prohibition.

16: Bombay-London "Telex" service is introduced.

16: Indo-Russian Pact for technical collaboration in exploration, development and production of oil and gas is signed in Delhi.

17: Centre decides to give wider powers to Dandakaranya authority.

17: D. L. F. of U.S.A. approves ten million dollars loan to India's small industries.

20: Dr. Rajendra Prasad arrives in Moscow on a 15-day visit to Russia.

20: Dr. Radhakrishnan is sworn in as Acting President of India.

20: Indian Investment Centre agreement with U.S. is signed in New Delhi.

23: Shipping in Bombay Harbour is paralysed on account of the lightning strike by Port Trust workers.

28: The strike by Port Trust workers is called off.

28: Language dispute in Assam. Countrywide disturbances. Military called out.

JULY

1: Rs. 47.47 crore Heavy Electrical Plant, biggest in Asia, goes into production.

1: Small Savings drive in Bombay City. Target of Rs. 1.23 crores is exceeded. A sum of Rs. 3.50 crores is collected in the quarter ended June 30.

3: Pay Commission's Report is accepted by the Railway Board.

4: Acharya Bhansali undertakes a fast to protest against very high salaries drawn by dignitaries and high officials.

4: Dr. Rajendra Prasad arrives in Tashkant.

5: Third Five-Year Plan: Draft outline is officially released by the Planning Commission. Total investment of Rs. 10,200 crores is envisaged.

5: Mr. Nehru visits Chusul, Demchok, and other outposts on Indo-Tibetan border in Eastern Ladakh.

6: First session of Maharashtra's first State Legislature commences in Bombay.

8: Explosion in Bombay of Bombay Gas Company's gas holder. 92 people are injured.

8: Central Government Servants propose to strike. President Prasad issues ordinance to ban the strike.

8: 25 railway passengers riding on the roof of a train, are killed near Mathura.

8: Assam language riots.

10: Canada-India atomic reactor at Trombay reaches criticality.

11: Strike by Central Government employees begins. 25 per cent of 22 lakh employees join the strike.

11: First budget of Maharashtra is presented to the State legislature.

12: Police open fire at Dohad as a sequel to the Central Govt. Servants strike. Five are dead.

14: General strike in support of the Central Government Employees' strike is observed.

16: Strike by the Central Government servants is called off.

17: Mr. Nehru visits riot-torn Assam. He pleads for national unity at Gauhati meeting.

18: Brahmaputra in spate. 40,000 people in Bihar are affected.

23: Floods affect over 200 villages in Bihar.

24: Bhakra-Nangal mishap inquiry report is published. Project authorities are exonerated.

26: Mr. A. Z. Phizo, Naga rebel leader demands inquiry into his allegations of atrocities by Indian army in the Naga area.

27: Bombay-Poona vehicular traffic is interrupted as a result of the washing away of the bridge on the Kalundra river.

30: Naga State in the Indian Union is conceded.

31: Bailey Bridge built by the Indian army over Kalundra river to restore Bombay-Poona traffic is opened to traffic.

31: 29 persons are drowned in the Godavari river near Polavaram, Andhra State in a whirlpool.

AUGUST

1: Over 19,000 displaced persons return home in Assam after the language riots.

1: Mr. Nehru announces that the State of Nagaland will be created.

2: Pay Commission recommendations are accepted by the Government with retrospective effect from July 1, 1959. Compulsory Provident Fund Scheme for Government Staff is suggested.

3: Mr. Morarji Desais' tour abroad is successful. Foreign aid from Soviet Union and West Germany is assured.

3: Kerala Red Government's "Rice Deal". Audit Report to the State Assembly says that the loss of Rs. 10 lakhs was avoidable.

5: A historic event in the Indian Film Industry: Mughal-e-Azam, produced at a cost of nearly a crore of rupees with eight years in the making, is released in Bombay and other key centres in India.

8: South African Horse sickness breaks out in Baglan Taluka in Nasik District. 9,927 animals are affected in 23 districts of Maharashtra, killing 8,782 of them till November 7.

9: Palai Central Bank goes into liquidation in Kerala.

10: The Government of India announces that the first atom power station in the country is to be located near Tarapore.

10: Milkha Singh betters Olympic games mark in the 400 metres by winning the event in 45.8 seconds. Beat Abdon Seye of France who clocked 46.1 seconds.

12: Poona Race season suspended due to the prevalence of South African Horse Sickness.

13: Miss Iona Pinto—a Bombay stenographer, wins second place in the International Beauty Contest at Los Angeles.

15: India celebrates 13th Independence Day. Dr. Rajendra Prasad assures the people of the South that no laungage will be imposed on them.

18: Gujarat's first Assembly session begins in Ahmedabad.

19: Tisco Engineer Mr. N. P. Naik designs "Bell" for blast furnace. This invention is expected to save Rs. 1,40,000 in foreign exchange.

21: Heavy floods in Orissa. Millions are affected. Worst in the past 100 years.

22: Naga People's convention ratifies agreement on Nagaland.

24: A Bill is adopted in the Gujarat State Assembly that Gujarati and Hindi are to be the official languages of the State.

26: Draft outline of the Third Five Year Plan is approved by the Lok Sabha.

27: India wins a victory over Denmark in hockey in the Rome Olympics.

29: Floods in Punjab. 40,000 persons rendered homeless. Rs. 25-crore loss to property and crops.

30: Mr. Morarji Desai announces in Lok Sabha that the Soviet Union had offered an additional credit of Rs. 60 crores (500 million roubles) for the Third Plan.

31: F.A.O. allocates $107,000 to combat the outbreak of South African Horse Sickness in India.

SEPTEMBER

1: Prize Bonds' first quarterly draw all over India. Mr. Y. B. Chavan, Chief Minister of Maharashtra picks the first digit in the "A" series in Bombay.

3: Rohtak, in the Punjab is under water, due to unprecedented floods. 20,000 persons flee.

3: Mr. Deedar Singh of Jabalpur invents a safe and economical device to reduce consumption of fuel of petrol-driven vehicles. This device is expected to save 30 per cent in fuel consumption.

5: Supreme court ruling on the Ahuja murder case that the Governor has no power to suspend the life sentence of Commander Nanavati.

7: Grafting of parts of one ship to another, a unique piece of work, is done by the Mazagon Dock. The 18,000 ton freighter "General Artigas" and the "Jag Vijay" are involved in the transplantation operation.

8: Mr. Feroze Gandhi, M.P. and son-in-law of Prime Minister Nehru, dies of heart attack in the Willingdon Nursing Home, New Delhi.

8: Commander Nanavati is transferred from I.N.S. Kunjali to Arthur Road jail in Bombay.

9: Major proposals of the Tyagi Committee Report on Direct Taxes, are accepted by the Government of India.

15: The nation celebrates the centenary at Bangalore of Dr. M. Visvesvaraya, well-known engineer, industrialist and statesman, and author of Planned Economy for India with Mr. Nehru presiding over the function.

19: Historic Indus Water Treaty is signed.

21: Commander Nanavati is given leave to appeal to Supreme Court. Bail is refused.

21: The Reserve Bank of India announces new curbs on borrowings by scheduled banks.

25: New coal deposits are discovered in Bokaro and Raniganj area. Self-sufficiency in grade I coal for decades is estimated.

28: Locust swarms invade Vidarbha areas from Madhya Pradesh. A swarm 20 miles long and 1½ miles wide crosses into Akola.

OCTOBER

2: Nation celebrates 91st birth anniversary of Mahatma Gandhi, the Father of the Nation.

4: Mr. C. B. Gupta a prominent congressman and strong man of U.P. is elected President of the Uttar Pradesh Congress Committee.

7: Assam decides to adopt two official languages—Assamese and Hindi.

9: Flood waters of the Gomti enter Lucknow City. Thousands of persons are trapped. 37-year old record is broken.

14: The Planning Commission appoints a nine-member Committee headed by Prof. P. C. Mahalanobis to ascertain the extent of concentration of wealth and means of production in the country.

24: India and Russia sign trade agreement.

29: The Congress Constitution is amended. The 21-member Congress Working Committee is to have seven elected members.

NOVEMBER

1: Samyukta Maharashtra Samiti launches Border Satyagraha in Kolhapur in connection with the border dispute between Maharashtra and Mysore. 900 volunteers are detained.

6: Heavy Electricals Plant opened by Mr. Nehru in Bhopal. This is expected to be completed in 1967-68 and will produce electrical equipment valued at Rs. 50 crores.

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8 : Air Marshal Mukerjee, Chief of the Air Staff, Indian Air Force, dies in Tokyo of choking at a dinner party.

14 : Fourth White Paper on Sino-Indian Relations presented to the Lok Sabha by Prime Minister Nehru. The white Paper reveals violations of Indian territory and air space and harassment of Indian traders and nationals in Tibet.

18 : Nineteen persons are killed and 51 injured in an explosion in a six-storeyed building in Bazar Gate Street, Bombay. Bangle shop is gutted.

18 : Indo-Pak accord on rail links.

19 : Gandhi Sagar Dam is inaugurated by Mr. Nehru marking the first phase of the Chambal Project.

24 : West Bengal opposes Berubari transfer.

28 : President Prasad raises issue of the constitutional position of the Head of the State vis-a-vis his Cabinet during his speech at the foundation ceremony of the Indian Law Institute.

30 : Nehru states West Bengal consulted over Berubari.

DECEMBER

1 : Dr. B. C. Roy refutes Nehru's Berubari version.

2 : The first Cricket Test between India and Pakistan begins in Bombay.

7 : Mr. C. B. Gupta is sworn in as Chief Minister of Uttar Pradesh at the head of a 13-member cabinet.

7 : The first cricket test between India and Pakistan ends in a draw.

12 : B. C. Roy bows to Nehru's Berubari decision.

14 : West Bengal M.L.C.s exchange blows. Uproar over Berubari Merger Bill. Three members are injured.

16 : The second cricket test between India and Pakistan begins in Kanpur.

17 : Akali leader Sant Fateh Singh takes fast unto death for the acceptance by the Prime Minister of the principle of a Punjabi Suba.

18 : Miss Anita Bose, daughter of Netaji Subhas Chandra Bose, meets Mr. Nehru.

20 : The second cricket test between India and Pakistan ends in a draw.

20 : Lok Sabha passes Bill to transfer areas to Pakistan, (Berubari).

21 : Talks with China fail.

30 : The third cricket test between India and Pakistan begins in Calcutta.

JANUARY 1961

4 : MasterTara Singh is released to enable him to pursuade Sant Fateh Singh to end his fast unto death.

4 : The third cricket test between India and Pakistan ends in a draw.

4 : The 66th annual session of the Indian National Congress begins at Sardarnagar.

8 : Tara Singh-Nehru talks as a sequel to Sant Fateh Singh's fast ends in failure.

9 : Sant Fateh Singh breaks his 23-day old fast at 8-30 A.M. at Amritsar.

11 : Tara Singh declares at Amritsar that the battle for a Punjabi Suba would continue.

12 : The Indus Waters Treaty between India and Pakistan comes into force with the exchange of the Instruments of Ratification held at Delhi.

13 : Zerlina, India's third reactor reaches criticality at 1-32 a.m.

13 : The fourth cricket test between India and Pakistan begins in Madras.

16 : The Prime Minister formally inaugurates the Rs. 10-crore Canada India Reactor, described as the most modern and powerful experimental reactor of its size in the world, and three other nuclear plants at Trombay.

17 : The exchange of territory along the 126-mile western border along Ferozepore District with Pakistan under Nehru-Noon Agreement, which began on the 16th morning, is completed.

18 : The fourth cricket test between India and Pakistan ends in a draw.

18 : Mr. Gordon Churchill, Canadian Minister for Veteran's Affairs and Government Leader in the House of Commons, declares open the second power station of the Kundah project and work on the third stage.

21 : Her Majesty Queen Elizabeth II of England arrives in New Delhi on the first lap of her 21-day State visit to India.

24 : The Nagaland (Territorial Provisions) Regulation to be enforced on a date to be specified by the Government of India, is promulgated.

24 : Mr. Nehru issues a press statement at New Delhi that he has no thought of retiring in the forseeable future.

25 : Jet service between Bombay and Tokyo operated by Boeing 707 is introduced.

26 : Her Majesty Queen Elizabeth II and the Duke of Edinburgh witness the Republic Day parade in New Delhi.

26 : An equestrian statue of Chhatrapati Shivaji Maharaj is unveiled in front of the Gateway of India in Bombay by the Chief Minister of Maharashtra.

27 : Foundation of the first watch factory in the public sector is laid by the Union Minister of Industries at Bangalore.

31 : Dr. Sri Krishna Sinha, Chief Minister of Bihar, dies at Patna.

FEBRUARY

1 : The Chief Minister of Maharashtra lays the foundation stone of the Tagore Memorial Theatre at Nardulla Park, Parbhadevi, Bombay.

2 : Construction work in the Bhilai Steel Plant is completed by the commissioning of the last of the four rolling mills. The mill is inaugurated by the Governor of Madhya Pradesh.

7 : Police open fire at Jabalpur.

8 : The fifth cricket test between India and Pakistan begins in Delhi.

10 : The tenth decennial census commences throughout the country.

13 : The fifth cricket test between India and Pakistan ends in a draw.

14 : Report of the Sino-Indian officials on the boundary question is presented to the Parliament by the Prime Minister.

14 : President Rajendra Prasad inaugurates the Budget Session of Parliament. He declares that India cannot accept the results on unilateral action or decisions taken by China in regard to ths frontier between the two countries.

18 : The Governor of Assam inaugurates the interim set-up of Nagaland. 42 members of the interim body are sworn in.

20 : The Prime Minister categorically declares that the Sino-Indian border question could be settled only on the basis of Chinese vacation of areas occupied by them and their "broadly acknowledging" the Indian position on the border question.

25 : Orissa is placed under President's Rule by a proclamation by the President following the receipt of the State Governor's report and an emergency meeting of the Union Cabinet.

28 : The Union Finance Minister presents the Budget for 1961-62. The revenue deficit is Rs. 60·60 crores.

MARCH

4 : Indian Navy's first aircraft carrier "Vikrant" is commissioned by the Indian High Commissioner in U.K. at Belfast, Ireland.

5 : India's first financial daily the "Economic Times" is inaugurated by the Union Finance Minister.

8 : Mr. Nehru leaves for the Commonwealth Prime Ministers' Conference to be held at London on 9th March.

8 : Pandit Govind Ballabh Pant, Home Minister, Government of India, passes away.

14 : The first batch of Indian combat troops leaves for Leopoldville on their mission of peace in the Congo.

16 : The Nagaland Five-Man Executive Council headed by Mr. Shilu Ao is sworn in at Raj Bhavan, Shillong.

28 : The Prime Minister opens the wide strip mill, the penultimate stage of the Rourkela Steel project.

APRIL

1 : Police open fire on 10,000 Adivasis in Lohandiguda near Jagdalpur. The riot is for releasing the Ruler of Bastar. Twelve persons die and five injured.

3 : The Representatives of the U.S. and Indian Governments sign six project agreements allocating a total sum of Rs. 46 crores out of the loan portion of the P.L. 480 counterpart funds available to India.

3 : The foundation stone of the Tagore Theatre is laid at Ahmedabad by the Prime Minister.

4 : The 6th Congress of the Communist Party of India begins at Lumumbanagar.

5 : The Prime Minister inaugurates the Rs. 93-crore Narmada River Valley Project at Navagaum in Gujarat.

6 : The Prime Minister declares open the "Dandi Smaraka" at Dandi where exactly 31 years ago Mahatma Gandhi gave the clarion call to the nation in the great liberation movement.

13 : The President Dr. Rajendra Prasad inaugurates at Amritsar the National memorial to the martyrs who died in the Jallianwala Bagh firing on April 13, 1919.

15 : The Sixth Congress of the Communist Party of India adopts the controversial rightist-drafted political resolution.

15 : The Government of India's determination to keep the oil industry in the hands of the public sector is reaffirmed by the Minister for Mines and Oil, Govt. of India.

21 : North Bengal Express derails near Siliguri killing 23 passengers and injuring 81.

24 : The deposed Ruler of Bastar is released unconditionally.

30 : The foundation stone of the Rs. 10-crore rayon grade pulp factory, the first in the world to use bamboo as its raw material is laid at Kalsur, 44 miles from Hubli in the bamboo rich North Kanara District, by the Union Minister for Industries.

MAY

3 : The Union Government sets up a commission to review the availability of water in the Krishna and Godavari rivers with a view to determining the extent to which further demands for irrigation can be met.

5 : The new anti-aircraft frigate I.N.S. "Betura" arrives in Bombay.

8 : Indian expedition team scales Annapurna III. The first three men to set foot on the summit are the expedition leader Lt. M. S. Kohli, the Sikkimese mountainer Sonam Gyatso and Sherpa Girme.

8 : The birth centenary of Dr. Rabindranath Tagore is celebrated throughout India and abroad.

8 : Mr. Nehru lays the foundation stone of Rabindra Bharati (Tagore University) in Calcutta.

17 : The Working Committee of the Akali Dal takes a pledge to continue the struggle for a Punjabi Suba.

19 : Police opens fire at Silchar in the agitation for the recognition of Bengali as one of the official languages of Assam.

21 : The President gives his assent to the Dowry Prohibition Bill.

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FAMILY PLANNING

It is now widely accepted that the success of the schemes of economic development of India will be considerably hampered unless due attention is paid to the problem of growing population.

One basic consideration is that the growth of India's population has been accelerated in the last few decades. Since the 1921 census the four successive decades recorded increases of 11·0, 14.3, 13.4 and 21.5 per cent respectively in population.

It is estimated that India's population was expected to increase from 360 million in 1951 to between 528 and 539 million in 1971. And unless the rate of growth was checked by family planning to an extent hitherto unknown in this country it would outstrip supply of food and neutralize the benefits of increased production through the Plans.

Family planning as an official programme was launched in the First Five Year Plan, as part of Government of India's policy for population control.

The aims of the family planning programme as set out by the Planning Commission in the Third Five Year Plan are:

(1) wide-spread education to create the necessary social background for a large family planning programme, (2) integration of family planning activities with the normal health services, (3) provision of family planning services, including facilities for sterilization, through medical and health centres and facilities for distribution of contraceptives, (4) development of training programmes in medical colleges and other teaching institutions, and (5) utilization in the family planning campaign of local voluntary leadership to the largest extent possible.

The national non-governmental organisation in this field is the Family Planning Association of India which has its Headquarters in Bombay and has 25 Branches in different parts of the country. It follows a fourfold programme of clinical services, training of personnel, educational propaganda and encouragement to sociological, demographic and medical research.

The Central Family Planning Advisory Board under the Union Ministry of Health, advises on family planning programmes. There are also State Family Planning Boards in all the States except Kashmir. There is a Director of Family Planning under the Directorate-General of Health Services, and in most of the States full-time Family Planning Officers have been appointed.

Training in family planning techniques is given at the Family Planning Training and Research Centre in Bombay, the Family Planning Training Demonstration and Experimental Centre at Ramanagaram in Mysore, the All India Institute of Hygiene and Public Health in Calcutta and the Training Centre in New Delhi.

Regional Training Centres also exist in Andhra, Kerala, Madras, W. Bengal, Punjab, Maharashtra and Gujarat.

There are already four Demographic Training Research Centres, namely, (*a*) the Demographic Training & Research Centre at Bombay (under the joint auspices of the U.N., Government of India and Sir Dorabji Tata Trust where students from S. E. Asia are being trained), (*b*) at the Indian Statistical Institute at Calcutta, (*c*) at the Institute of Economic Growth, New Delhi, (*d*) at the Department of Statistics, University of Trivandrum, and (*e*) one is in the process of being established at Dharwar. The Govt. of India has appointed a Demographic Advisory Committee under the Chairmanship of Dr. V. K. R. V. Rao.

the Contraceptive Testing Unit has been established at the Indian Cancer Research Centre in Bombay to test all contraceptive products before they are allowed to be used in clinics.

Biological research and development of oral contraceptives is undertaken at the Indian Cancer Research Centre in Bombay, the All-India Institute of Hygiene and Public Health in Calcutta, Bacteriological Institute and the Institute of Post-Graduate Medical Education and Research, Calcutta.

The expenditure on family planning was as follows:—

First Plan (in Rs. lakhs):—Clinics 7·99; training and education 0·40; research 3·99; organization 3·44. Total 15·82.

Second Plan (Rs. lakhs):—

	1956-57	1957-58	1958-59	1959 (Apr.-Dec.)
Clinics	3·05	16·34	19·98	8·26
Training & Education ..	0·67	2·22	5·04	1·58
Research	3·99	6·70	5·76	2·60
Organization	0·93	0·75	0·72	0·66
Total	8·64	26·01	31·50	44·75*

Allotment for 1960-61 : Rs. 1·28 crores; 1959-60 : Rs. 80 lakhs.

* Includes a sum of about Rs. 31·65 lakhs as ways and means advances to State Governments.

During the First Plan a sum of Rs. 65 lakhs was allocated. During this period 21 rural and 126 urban clinics were established.

The Second Plan allocation was Rs. 497 lakhs —Rs. 400 lakhs at the Centre and Rs. 97 lakhs in the States. The target was 500 urban clinics and 2,000 rural clinics.

At the end of March 1961 the number of clinics reported to have been opened were 1,079 rural and 421 urban while 1,864 rural and 330 medical and health centres distribute contraceptives, making a grand total of 2,963 rural and 876 urban clinics.

Under the Third Plan an allotment of Rs. 50 crores is proposed for Family Planning.

It is estimated that out of the 310 Districts in the country at the end of 1958-59, 262 Districts had Family Planning Clinics.

CONTRACEPTIVES

The distribution of contraceptives is now earried out by Primary Health Centres, Hospitals, Dispensaries and Maternity Homes run or recommended by Government where there are no clinics. The facilities would be extended to welfare agencies conducted by employers of labour.

The sale of contraceptives has increased since 1956. The sale in 1957 was double that of 1956, and the sale during the years 1958 and 1959 was about six times that of 1957.

In rural and urban areas contraceptives are issued free to those with incomes below Rs. 300 per month, at half price to those with incomes between Rs. 300 and Rs. 500 and at cost price to those with incomes above Rs. 500 per month. Foam tablets, jellies and sheaths are issued free in rural areas irrespective of the income.

Voluntary sterilization is part of the Family Planning Programme. The question is decided on the merit of each case after a careful examination by a qualified doctor with the consent of both husband and wife. The Medical Council of India and the Indian Medical Association support sterilization.

The sterilization cases reported (these are considered an under-estimate) since 1956 are as follows:—

1956 : 7,823 (males 2,333; females 5,490); 1957 : 13,530 (males 3,671; females 9,859); 1958 : 25,873 (males 9,072; females 16,801); 1959 : 35,722 (males 13,925; females 21,797); 1960 : 37,951 (males 25,957; females 11,994).

The number of persons trained at the various centres was 3,727 by April 1961.

The number of trained persons State-wise is as follows (position Oct. 1959):—

Andhra 26, Assam 304, Bihar 4, Bombay (bilingual) 466, Kerala 116, M.P. 49, Madras 264, Mysore 429, Orissa 19, Punjab 42, Rajasthan 12, U.P. 112, W. Bengal 569, Kashmir 3, Delhi 126, Himachal 11, Manipur 35, Tripura 2. Total 2,589.

It is estimated that by the end of March 1961 about 92 lakh persons would have been educated in family planning through various media and 21 lakhs were given advice on family planning methods.

Family planning is an integral part of the health programme of a Community Development Block.

In view of the impending decentralization of planning programmes, when it is expected, planning would be done primarily by panchayats, the panchayats too will undertake the education of the rural population in family planning.

A wide awareness of family planning has been created. About 4,45,000 copies of posters, 3,27,400 copies of pamphlets and 3,49,000 folders on various aspects of family planning were published by the end of 1958-59. Films and slides have been produced. Programmes relating to family planning are broadcast over the radio. Honorary Family Planning Education leaders have been appointed for educational work for family planning through personal contacts, meetings, group talks etc. including the organisation of 2 or 3-day orientation camps.

The number of orientation camps held upto April 1961 by various agencies is 62 at which a total of 12,787 persons attended. There is a monthly magazine called 'Family Planning News' started in January 1960 and published by the Directorate General of Health Services, Govt. of India. A Family Planning day is observed through out the country every year on Dec. 18.

The programme for family planning in the Third Plan provides for (*a*) education and motivation for family planning, (*b*) provision of services, (*c*) training, (*d*) supplies, (*e*) communication of motivation research, (*f*) demographic research and (*g*) medical and biological research. The programme as approved, involves a total outlay of Rs. 50 crores.

PRODUCTION

The country has just begun to produce contraceptives.

There are at present two units in the country engaged in the manufacture of rubber contraceptives. The combined installed capacity of these two units for male contraceptives is about 16 lakh nos. per year. Against this, the production during the past was as follows:— 1954 : 345,252; 1955 : 111,552; 1956 : 78,612; 1957 : 108,456; 1958 : 155,760; and 1959 (January-August) : 124,956.

The current demand for male contraceptives has been estimated at 8 million (nos.) per year which is likely to go up to 10 million (nos.) per year by the end of 1961.

It would thus be seen that the current production of male contraceptives in the country is not adequate to meet the internal demand. Even if the existing capacity were fully utilised, it would meet the estimated internal demand only to the extent of about 20 per cent.

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With regard to female contraceptives there is no indigenous production of the diaphragm type contraceptives. The requirements for the diaphragm contraceptives were expected to be upto 500,000 nos. by 1960-61. The check pessary type of female contraceptive is also being manufactured in India though the production capacity is very limited.

In view of the meagre production of these items in the country, the Government have followed a liberal import policy. Till June, 1957, these items were on O.G.L. after which they were placed on quota licensing. Contraceptives falling under this item were exempted from the payment of customs duty. The particulars with regard to the imports of rubber contraceptives from 1957 onwards are as follows :—

1957 : 584,000 doz. ; Rs. 676,000. 1958 : 362,000 doz. ; Rs. 409,000. 1959 (Jan.-July) : 302,000 doz. ; Rs. 331,000.

Manufacture of rubber contraceptives involves a considerable amount of technical skill. It is perhaps for this reason that the existing capacity is not being fully utilised. To make the country less dependent on imports and also to meet the domestic demands, several steps have been taken. Necessary facilities are being given to the existing units to produce to the maximum extent possible. With a view to bringing into existence additional capacity, new entrepreneurs are being induced to take up the production of rubber contraceptives in collaboration with well known foreign manufacturers.

Since indigenous production is very small as compared to the demands pending creation of additional capacity, a liberal import policy for rubber contraceptives has been adopted. In view of the need for the creation of additional capacity for the manufacture of these items, new schemes and substantial expansions receive encouragement.

The entire requirement of foam tablets is produced in the country. Manufacture of jellies and creams has also been started in the country. It is anticipated that soon the entire requirements will be produced within the country.

HOUSING

It was estimated that in 1951 the shortage of houses was about 2·5 million on the assumption that each household should have a separate house.

The total urban population was 61·9 million, occupied houses 10·3 million and households 12·8 million.

For the period 1951-61, against an estimated requirement of 8·9 million additional houses in urban areas, it was calculated that only about three million dwelling houses could be provided.

Altogether, excluding about one million slum hovels, and allowing for deterioration and depreciation of existing houses, the overall shortage of housing at the end of 1961 would be of the order of 7·8 million units.

In the First Plan period about 1·3 million houses were constructed (742,000 by public authorities and 600,000 by the private sector).

The Second Five Year Plan envisaged the construction of about 1·9 million additional houses in the urban areas : 1·1 million in the public sector and 0·8 million in the private sector. Reliable data of the actual performance are not yet available. Safe indications, however, are that 1·7 million houses should have been constructed : 0·9 million in the public sector and 0·8 million in the private sector. According to an estimate prepared by the Reserve Bank of India, the probable private investment on housing during the 2nd Plan had been placed at about Rs. 600 crores. Including the funds provided by the various public authorities and the complementary contribution of the beneficiaries the total investment expected to have gone into the field of housing during the Second Plan period may be of the order of Rs. 1,100 crores.

The total allocation in the Second Plan was Rs. 84 crores. Against this provision, a total amount of about Rs. 72·70 crores had been utilised during the Second Plan period on the above Scheme. In addition, a sum of about Rs. 18 crores has also been disbursed under three non-Plan Schemes, *viz.* Middle Income Group Housing Scheme and Rental Housing Scheme for State Government Employees (both of which are financed by the Life Insurance Corporation), and House Building Advances to Central Government servants. Altogether under the various schemes mentioned above, about 1,94,750 houses have been sanctioned and about 1,26,400 houses have been completed during the Second Five Year Plan period.

Housing Schemes are administered by the Ministry of Works, Housing & Supply, the various other Central Ministries such as the Ministries of Transport & Communications, Defence, Home Affairs, Railways, Rehabilitation, etc., State Governments and Local Bodies etc. They are all engaged in snbstantial housing programmes connected with development or social welfare projects.

The Third Five Year Plan begins with a large estimated back-log of 7·8 million dwelling units and a prospective additional demand of 5·6 million units for the next five years in urban areas. Considering the current indications of increase in population, these figures may go up further. An investment of the order of at least Rs. 1,500 crores would have to be channelised into housing during the Third Five Year Plan period.

On the rural housing side, out of 54 million houses existing in the 5,58,100 villages in the country, it has been estimated that as many as 50 million houses have either to be re-built completely or improved substantially. Improvement of housing conditions in villages has therefore to be dealt with, as in the past, on the basis of aided-self-help, as part of an overall programme of rural development.

The Draft Outline of the Third Plan envisages a provision of only Rs. 120 crores for the urban and rural housing schemes administered by the Ministry of Works, Housing and Supply. The limited funds thus available will have to be augmented to a considerable extent by tapping institutional finance and mobilising private resources in an increasing measure. State Housing Boards or Corporations would be a valuable instrument for this purpose. The Governments of Andhra Pradesh, Gujarat, Madras, Madhya Pradesh, Maharashtra and Mysore have already set up Statutory Housing Boards in their respective States; the Government of West Bengal has established a non-statutory Housing Board. The other States are also likely to set up similar Boards during the course of the Third Plan period. A proposal for the introduction of a suitable Central Legislation is now under active consideration, so as to enable the State Governments to raise, through their Housing Boards or Corporations, additional funds by means of deposits, debentures, public loans etc. for financing housing activities.

According to the final report on the country's Third Plan, nearly 50 per cent of the amount earmarked for low-income group housing scheme was proposed to be utilised for subsidised housing schemes for those who earned Rs. 150 or less per month.

The details of progress achieved during the Second Plan period, under individual Housing Schemes administered by the Ministry of Works, Housing and Supply, are indicated below.

SUBSIDISED INDUSTRIAL HOUSING SCHEME

The Subsidised Industrial Housing Scheme, which was introduced in September 1952, contemplates grant of financial assistance by the Government of India to the State Governments and through them to other approved agencies, such as Statutory Housing Boards, Local Bodies, Industrial Employers and registered Co-operative Societies of industrial workers, for construction of houses for industrial workers, covered by Section 2(1) of the Factories Act, 1948, and mine workers (other than those engaged in coal and mica mines) falling within the meaning of Section 2(*h*) of the Mines Act, 1952. The benefits of financial assistance under the Scheme are available to workers, whose income does not exceed Rs. 350 per mensem. The Scheme is administered through the respective State Governments, within whose territorial jurisdiction the construction is contemplated.

Under the Scheme, the Government of India provides the entire cost of houses to be constructed for industrial workers by the State Governments, Statutory Housing Boards and Municipal Bodies (50 per cent as outright subsidy and the remaining 50 per cent by way of loan) subject to the maximum of the prescribed ceiling costs for various types of houses. Assistance is also given to employers and co-operatives of industrial workers by offering them an outright subsidy at 25 per cent of the estimated cost of houses (subject to prescribed ceiling costs) to be constructed by them in addition to loans at 50 per cent of the total cost of construction in case of employers and at 65 per cent of the cost in the case of co-operatives of industrial workers.

The following four types of accommodation can be provided under the Scheme, depending upon various factors, such as the rent-paying capacity of the workers, the cost and availability of land and local considerations etc. :— (*a*) Open developed plots; (*b*) Skeletal houses; (*c*) Pucca houses; (*d*) Hostel and dormitory buildings.

Outside Bombay and Calcutta, the rents prescribed for various types of accommodation range between Rs. 3 and Rs. 16 p.m., and that in Bombay and Calcutta and their industrial areas between Rs. 6·50 and Rs. 33·00 p.m.

Since the introduction of the Scheme in September 1952, upto the 31st of March 1961, a total sum of Rs. 45·35 crores has been sanctioned for construction of 1,37,567 houses, out of which 99,541 houses had been completed till December 1960. About 36,000 more houses have been sanctioned or are under construction. The actual disbursement upto 31 March 1961 to the different constructing agencies, however, amounted to Rs. 35·63 crores.

Till Sept. 1960, 79,833 houses were completed in the State sector, 14,485 by private employers and 1,426 by co-operative societies.

The State-wise break-up of houses sanctioned and built is given in the table below :

State	Houses sanctioned	Houses built
Andhra Pradesh ..	6,273	4,107
Assam	503	297
Bihar	10,575	7,151
Bombay-Gujarat-Saurashtra	45,019	32,713
Kerala	400	300
Madhya Pradesh ..	7,460	6,440
Madras	5,631	2,437
Mysore	9,953	7,863
Orissa	2,139	1,452
Punjab	4,923	3,950
Rajasthan	3,680	2,186
Uttar Pradesh ..	26,740	22,436
West Bengal	11,402	6,750
Total	1,34,698	98,082
Delhi	2,867	1,459
Grand Total ..	1,37,565	99,541

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PLANTATION LABOUR HOUSING

From the inception of this Scheme in April, 1956, a sum of Rs. 13·87 lakhs was drawn by the State Governments of Assam, Kerala, Madras, Uttar Pradesh and West Bengal for disbursement to planters, upto 31st March 1961. Out of 683 houses sanctioned by the States 298 were completed while the remaining were at various stages of construction.

The Govt. of India communicated to State Govts., in September 1960, their decision in regard to the setting up by each State Govt. of a "Pool Guarantee Fund" which would indemnify the State Govts. against bad debts that they might incur as a result of relaxation of the security provisions prescribed by them for advance of loans under the Scheme. Losses in excess of the assets of the Pool Guarantee Fund are to be shared equally by the State Government, Government of India, and the Commodity Board concerned. For the time being, only the Tea and Rubber Boards have agreed to participate in the Pool Guarantee Fund. Negotiations are under way with the Coffee Board.

LOW INCOME GROUP

This Scheme, which was introduced in November, 1954, envisages the grant of long-term loans for construction of new houses for persons having an annual income not exceeding Rs. 6,000. The loan to individuals and others generally bears an interest of about 5 per cent per annum (plus about ½ per cent administrative charges of State Governments) and is repayable in a period not exceeding 30 years. The quantum of assistance is limited to 80 per cent of the cost of the house, including cost of land, subject to a maximum of Rs. 8,000 per house. The following categories of persons or institutions can obtain loan assistance under the Scheme :—

(*i*) Individuals with annual income not exceeding Rs. 6,000 and co-operative societies of such individuals, for building their own houses.

(*ii*) Co-operative Tenancy Societies, Public Institutions run on a no-profit-no-loss basis and non-governmental but recognized health institutions, hospitals, educational trusts and educational institutions (including universities) and charitable institutions, for the construction of houses, which should be sold or let out to such of their members/employees as are eligible for benefits of the Scheme.

(*iii*) Local bodies and State Governments and their designated agencies, for the construction of houses which should be sold or let out to eligible persons, provided *not* more than 25 per cent of these houses are given by them to their own employees.

Short-term loans, repayable in a period not exceeding five years, with interest at about 8¾ per cent per annum are also advanced under the Scheme by the Central Government to the State Governments, for acquisition and development of land and for the subsequent sale of the developed sites to eligible persons on a no-profit-no-loss basis.

Since the introduction of the Scheme in November, 1954, upto 31st March, 1961, a sum of Rs. 42·76 crores had been advanced as loan to the various States. Out of a total number of about 82,850 houses sanctioned for construction by State Governments upto 31st December 1960, work on about 50,950 houses had been completed. About 32,000 houses were under construction (April 1961).

A sum of Rs. 31·94 crores has actually been drawn by the State Government etc., under the scheme during the Second Five Year Plan period.

SLUM CLEARANCE

Since the inception of the Scheme in May, 1956, 186 slum clearance improvement projects at an approved cost of Rs. 17·01 crores for the construction of 52,751 housing units have been approved/sanctioned by the Ministry of Works, Housing and Supply or the respective State Govts. upto 24th March 1961. According to the progress reports received from the State Governments etc., 13,044 housing units had been completed while work was in progress on 6,079 housing units in various States as on 31 Dec. 1960.

During the financial year 1960-61, a sum of Rs. 281·18 lakhs was paid to the State Governments and Union Territory of Tripura as the Central share of financial assistance, under the Scheme.

The quantum of Central subsidy has been enhanced from 25 per cent to 37½ per cent of the cost of projects; the State's share of subsidy remaining unaltered at 25 per cent of the cost. It has, however, been decided that the enhanced rate of Central subsidy should ordinarily be made applicable to the six major cities of Bombay, Calcutta, Madras, Delhi, Kanpur and Ahmedabad where the slum clearance or improvement operations are to be mainly confined at this stage. As regards slum clearance or improvement in other cities, the commitments already entered into shall be honoured and where there is special justification, some additional projects may also be sanctioned but such projects will not ordinarily be eligible for the enhanced rate of Central subsidy. The enhancement of total subsidy (both Central and State) from 50 per cent to 62½ per cent of the cost would have the effect of reducing the rents of various types of houses to be provided under the Scheme by Rs. 2 to Rs. 4 per month.

It has also been decided that slum clearance projects involving rehousing of sweepers and scavengers taken up in the six major cities stated above should, in addition to the 37½ per cent Central subsidy already admissible under the Scheme, be also eligible for an additional 12½ per cent Central subsidy under the schemes for the amelioration of living conditions of Scheduled Castes and welfare of other backward classes to the extent of houses proposed to be allotted to the sweepers and scavengers belonging to these categories. Such pooling of subsidy under the two Central Schemes would enable the State Governments to charge still lower rents in respect of houses allotted to sweepers and scavengers.

VILLAGE HOUSING PROJECTS

The Village Housing Projects Scheme which was introduced in October, 1957, envisaged the establishment of housing projects in about 5,000 selected villages in suitable Community Development Blocks spread all over the country, during the Second Five Year Plan period. Financial assistance is given in the form of loans not exceeding Rs. 2,000 or 66 2/3 per cent of the cost of construction of the house, whichever is less. Loan assistance is also granted to villagers for improving their existing houses. The Scheme is based on the principle of aided self help, and necessary technical guidance to beneficiaries is given by the Rural Housing Cells set up at State headquarters.

Out of 5,000 villages proposed to be taken up during the Second Plan period, about 3,700 villages had been selected, and survey had been conducted and layout plans drawn up for 1,600 villages till the end of December, 1960. The construction of about 15,000 houses had been sanctioned, out of which about 3,150 houses were completed and another 8,000 houses were under construction at the end of the above period.

The provision of Rs. 10 crores originally made in the Second Five Year Plan for this Scheme was reduced to Rs. 5 crores in consequence of the reappraisal of the Plan in 1958. The total amount drawn by the State Governments during 1960-61 comes to about Rs. 1·78 crores, bringing the total amount drawn during the Second Plan period to Rs. 3·7 crores.

The Government of India have also set up six Regional Research-cum-Training Centres, through Ford Foundation assistance for undertaking work relating to research, training and extension, in rural housing and village planning.

INSTITUTIONAL FINANCE

For the first time, institutional finance in a systematic manner has been harnessed to housing, on a Governmental basis, under two schemes—Middle Income and Government Employees—which are being financed through funds provided by the Life Insurance Corporation.

Under the Middle Income Group Housing Scheme, introduced in February, 1959, the Life Insurance Corporation advances loans to the State Governments (except in the case of Union Territories) to the extent authorized by the Central Government at 5 per cent interest, repayable in 25 annual equated instalments. The State Governments, in turn, advance loans to individuals within the income range of Rs. 6,000-12,000 per annum, or their co-operatives, for the construction of houses for their bona fide residential purposes, recovering the amounts over the same period (or any shorter periods as the individuals may desire), with an additional interest of about ½ per cent to cover normal administrative charges.

The amount of loan will be determined on the following lines :—

(*a*) In case of persons, who already possess land, 80 per cent of the estimated cost of construction (exclusive of land), subject to a maximum of Rs. 16,000.

(*b*) In case of persons, who do not possess land, 80 per cent of the estimated cost of houses including the cost of land, subject to a maximum of Rs. 20,000.

The loans will be advanced in stages. Before advancing loans to individual applicants, the State Governments will scrutinise and approve the layout, designs, specifications etc. and will also ensure that the necessary essential services in accordance with the normal standards applicable to the area would become available. The floor area of house constructed under this scheme should not be, ordinarily, less than 700 sq. ft. and the cost (exclusive of the cost of developed land) should not exceed Rs. 25,000. Loan assistance under the scheme was disbursed to the State Governments, to the extent of Rs. 3·0 crores, Rs. 4·4 crores and Rs. 7·9 crores during 1958-59, 1959-60 and 1960-61 respectively.

The entire demand of the State Governments for 1960-61 under the Scheme has been met in full and the amounts drawn in Rs. lakhs by each State is as follows :—

Andhra Pradesh :—74·64, Bihar 6, Gujarat 15, Kerala 5, Madhya Pradesh 5, Madras 34, Maharashtra 66, Mysore 37, Orissa 11, Rajasthan 2·86, Uttar Pradesh 34. The scheme was extended to Delhi in Nov. 1959 and to Tripura in Dec. 1960.

Another Scheme called the Rental Housing Scheme for State Government Employees, financed by the Life Insurance Corporation, was also introduced in February, 1959. The Scheme envisages the grant of loan assistance to State Governments for the construction of houses for allotment to their employees on a rental basis. Under this Scheme, loans to the extent of Rs. 1 crore, Rs. 2·56 crores and Rs. 3·40 crores were disbursed to the State Governments during 1958-59, 1959-60 and 1960-61 respectively. This is to assist the State Governments in constructing houses for allotment on rents to their employees, particularly those in the lower income bracket.

The entire demand of the State Governments for 1960-61 under the Scheme has been met in full and the amounts drawn in Rs. lakhs by each State are as follows : Andhra Pradesh 50; Kerala 5; Madras 50; Mysore 30; Orissa 17; Rajasthan 25; West Bengal 163.

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GOVERNMENT EMPLOYEES

House building advances are made to Central Government employees. During the year 1960, 505 applications for loan assistance to the extent of Rs. 58·27 lakhs were received out of which, 493 applications, involving the grant of loan, totalling Rs. 51·03 lakhs were approved.

LAND ACQUISITION AND DEVELOPMENT SCHEME

High land prices and general scarcity of good developed plots have been responsible, in a large measure, for the slow progress in housing and slum clearance, during recent years. A Land Acquisition and Development Scheme was therefore formulated and introduced in October, 1959.

This Scheme is designed to assist the State Governments to arrange bulk acquisition and development of land in large and growing towns through Governmental or semi-Governmental agencies, and to make available to public, developed plots at reasonable rates. The Scheme would also help in the stabilisation of land prices, rationalisation of urban development and promotion of self-sufficient composite colonies, giving due consideration to factors like provision of essential services, shopping centres, schools, and transport and other community facilities.

Central assistance to State Governments will be in the form of interest bearing loans repayable over a period not exceeding ten years. The State Governments were permitted to enter into commitments to the extent of Rs. 15 crores during the Second Five Year Plan period provided that the actual expenditure during that period did not exceed Rs. 2·90 crores. As against this allocation a sum of Rs. 38 lakhs was drawn in 1959-60 by Bombay (bilingual), Madras, Uttar Pradesh, Andhra Pradesh, Mysore, Orissa, and Punjab. During 1960-61, loan assistance to the extent of Rs. 183 lakhs had been drawn by the various States excepting Assam, Mysore and Jammu & Kashmir.

Details of land acquired under the Scheme by State Governments upto Dec. 31, 1960: Kerala 215 acres; Madras 334·21 acres; West Bengal 10·50 acres.

This will be a continuing scheme under the Third Plan.

IMPORT AND EXPORT TRADE

Rs. lakhs

	1958†	1959	1960
Total (sea and air) foreign trade	1,443,14	1,510,12	1,575,66
Imports*	864,18	887,38	940,39
Exports	570,56	615,78	623,03
Re-exports	8,40	6,96	12,24
Total Exports	578,96	622,74	635,27
Overall balance of trade	—285,22	—264,64	—305,12

* Excludes certain stores on Government account.

† Figures relate to sea, land and air foreign trade.

The trend of imports into and exports from India of the more important items during the years 1958, 1959, and 1960-61 is indicated below:

(In lakhs of rupees)

	1958	1959	April-Feb. 1960-61
Exports —			
Tea	136,54	126,39	117,06
Jute yarns and manufactures	103,82	110,75	72,63
Cotton yarns and manufactures	52,63	66,14	63,81
Metallic ores and metal scrap	30,35	34,42	35,32
Cotton, raw and waste	21,20	16,37	9,86
Oils — vegetable, mineral and animal	12,35	17,96	16,88
Fruits and vegetables	21,16	21,08	23,33
Tobacco	16,29	13,91	11,28
Mica	9,34	10,31	9,29
Wool and other animal hair	9,35	12,22	6,98
Gums, resins and lac	7,16	7,95	8,08
Spices	8,83	10,17	14,84
Hides and skins, raw	7,35	10,95	9,15
Imports —			
Machinery of all kinds	188,92	196,21	292,15
Iron and Steel	97,80	84,01	109,41
Oils — vegetable, mineral and animal	80,23	82,62	69,99
Chemicals, drugs and medicines	65,28	85,20	45,69
Electrical goods and apparatus	49,04	50,01	51,73
Vehicles (excluding aircraft, ships and boats)	52,53	60,10	49,29
Cotton, raw and waste	30,66	34,76	76,48
Fruits and vegetables	17,43	16,52	17,12
Paper, pasteboard, etc.	8,26	9,67	11,04
Dyes and colours	8,76	9,54	12,43
Spices	2,84	2,52	1,72
Woollen and worsted fabrics	30	23	17
Cotton fabrics	1,05	1,19	66

Trade during 1955-60

The following table shows the values in Rs. lakhs of the total import and export trade of India from 1955-56 to 1960. The total, includes trade across the land frontiers too:

	Imports	Exports	Balance
1955–56	649,64	591,23	—58,41
1956–57	842,53	601,36	—241,17
1957	1,025,82	642,85	—382,97
1958	864,18	578,96	—285,22
1959	887,38	622,74	—264,64
1960	940,39	635,27	—305,12

General Indices of Exports and Imports (1952-53 = 100)

—	1958	1959	1960
Quantity Index:			
Exports	107·0	125·0	99·0
Imports	120·2	145·0	107·0
Price Index:			
Exports	101·0	91·0	109·0
Imports	95·7	86·0	98·0

In 1960 engineering exports are estimated to have earned over Rs. 9 crores, an increase of Rs. 3 crores over 1959. U.S.A. was the largest single buyer being worth Rs. 1·3 crores.

India is essentially an agricultural country with farming regarded by the people as a tradition rather than as business. During the past 41 years the tendency has been towards rapid industrialisation. This change has been noticeable in the matter of foreign trade especially in the post-partition period.

Of the total imports worth Rs. 940·37 crores in 1960, capital goods accounted for 14·25 per cent. The percentage share of industrial goods was 61·60, of foodgrains 13·44 and of miscellaneous items 10·71.

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EXPORTS BY CUSTOMS ZONES*

The figures are for January to May 1960.

	(Rupees in lakhs) Merchandise	Treasure
Calcutta	9,684	—
Madras	4,850	7
Cochin	2,968	—
Bombay	6,753	556
Baroda	684	0·50
Delhi	291	29
Patna	5	50
Shillong	4	8
Total ..	25,239	650·50

IMPORTS BY CUSTOMS ZONES

Calcutta	13,604	2
Madras	5,980	0·52
Cochin	1,959	—
Bombay	14,725	244
Baroda	808	0·79
Delhi	288	39
Patna	2	—
Shillong	54	3
Total ..	37,420	289·31

* Including Re-exports.

BALANCE OF PAYMENTS

India's international payments position in 1959–60 recorded a further improvement, the loss of foreign exchange reserves being only Rs. 16 crores as compared with Rs. 42 crores in 1958–59 and as against the much heavier drafts of Rs. 260 crores in 1957–58 and Rs. 221 crores in 1956–57. The reserves would in fact, have shown a rise of Rs. 26 crores in 1959–60 but for the payments to the I.M.F., involving Rs. 42 crores in connection with the gold part of our increased subscription to, and the purchase of rupees held by, that institution. The improvement in reserves in 1959–60, in spite of a smaller inflow of external assistance and the absence, as in the previous year, of any special receipts like accelerated receipts from the U.K. under pensions annuities, was accounted for mainly by the drastically reduced level of imports which, at Rs. 924 crores, were the lowest in the Second Plan period.

A feature of the movements in reserve was that they started going up even before the seasonal rise in export commenced, and fell only following the repurchase in February 1960 of Rs. 24 crores from the I.M.F. At the end of March 1960, the reserves (including gold) stood at Rs. 363 crores as against Rs. 379 crores a year ago. However, there has since been some deterioration in the payments position, the reserves falling to Rs. 323 crores at the end of June 1960.

The trends in the balance of payments during the years 1957–58, 1958–59 and 1959–60 are shown in the table below.

(Crores of Rupees).

	1959–60 (Preliminary)	1958–59 (Revised)	1957–58
Imports *c.i.f.*			
(*a*) Private	507·3	504·8	696·2
(*b*) Government	416·4	524·8	537·4
Total	923·7	1,029·6	1,233·6
Exports *f.o.b.*	623·3	575·9	594·1
Trade balance	− 300·4	− 453·7	− 639·5
Official Donations	+ 35·6	+ 34·4	+ 34·1
Other Invisibles (Net)	+ 78·1	+ 91·7	+ 104·0
Current Account (Net)	− 180·8	− 327·6	− 501·4
Errors and Omissions	− 21·2	− 21·7	− 9·8
Official loans	+ 185·5	+ 218·6	+ 115·1
Other capital transactions (Net).. ..	+ 0·4	+ 88·4	+ 136·2
Movement in Foreign Exchange Reserves (Increase + Decrease)	− 16·1	− 42·3	− 259·9

IMPORT AND EXPORT CONTROL

Import trade control was first instituted in May 1940 for conserving the limited tonnage and the hard currency. In the post-war period, currency difficulties, the prospects of release of sterling balances and the Government's view on inflation were the guiding principles.

The import control policy pursued during the year 1959–60 continued to be an extension of the policy followed during the preceding year. Certain measures were, however, taken during the two licensing periods, namely, April-September 1959 and October 1959–March 1960 (*a*) to conserve the foreign exchange resources for essential imports and (*b*) to enable indigenous industry to maintain production at maximum levels so as to sustain the tempo generated by the economic development of the recent past. This can be shown by taking a bird's eye view of the balance of trade since the year 1957. The deficit in the balance of trade since the year 1957 has been progressively reduced. While the level of deficit in 1957 was of the order of Rs. 412 crores, it was reduced to Rs. 316 crores in 1958 and to Rs. 265 crores in 1959. The external payment position also showed an improvement during the year under review. While the balance of payments deficit amounted to Rs. 377·6 crores during 1957, the corresponding figure for the year 1959 was only Rs. 171·7 crores.

Now, to revert to import policy. The general policy pursued during the first half of the financial year 1959–60, as previously stated, remained more or less the same as for the previous half year. An effort was, however, made to adjust quotas of 93 items in a manner which would give relief and improve supplies where urgently necessary by saving foreign exchange through the reduction of quotas of 40 items which were considered to be comparatively less essential or where the indigenous production had increased to some extent and by increasing the quotas somewhat in the case of 53 items.

The items for which quotas were increased included, *inter alia*, asbestos packings, fractional horse power motors, garage tools, hydrosulphate of soda, gum arabic, scientific and mathematical instruments and apparatus. It was, however, laid down that the established importers of these items would ensure controlled distribution of these non-ferrous metals according to the directives issued by the Government of India in this behalf. A small cut was also made in respect of the general quota prescribed for the import of drugs and medicines but increased imports of certain essential items like P.A.S. and certain sulpha drugs were permitted. The quotas for a few chemicals like mercuric chloride, phosphoric acid and tri-calcium phosphate were withdrawn because of improved supply from indigenous sources.

With a view to affording further facilities to the industry and to enable the industrial units to procure their raw material requirements directly, the list of items licensable to actual users was further expanded.

Another important development of a procedural kind which took place during the period was the inauguration of the scheme to issue licences to certain scheduled industries for the imports of raw materials and components on the basis of advance allotments over and above their normal half yearly quotas. This advance allotment varied from 50 to 75 per cent of the value of the import licences granted to them for the period. This was done to ensure continuity of supply of raw materials to certain important industries borne on the books of the Development Wing and to enable them to plan their production in advance. This new scheme was introduced from the 1st of April 1959. To ensure that advance licensing done under this scheme does not lead to a disproportionate withdrawal of foreign exchange during the first few months of the validity of such licences a condition was imposed on the Customs and Exchange Control. Copies of such licences which prescribed that shipment and remittances not exceeding a certain percentage of the face value of these licences was permissible during the first six months from the date of the issue of these licences.

A provision was made for the grant of supplementary licences during the period under review to such industrial units which had obtained advance raw material allotment during the previous period.

The value of these supplementary licences was arrived at in each case by assessing the raw materials requirements for the half year October 1959-March 1960 on the basis of the policy announced for that half year and by reducing the amounts so arrived at by the value of advance allotments for which licences had been issued to such industries on the basis of the previous year.

Special emphasis was laid down in the import policy for the Second Plan Period, on the maintenance of the economy, raw materials for industries and on export promotion. As in the previous half year certain re-adjustments of quotas were made to economise in foreign exchange expenditure in certain directions in

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order to provide for increased imports of some items. With a view to promoting exports and earning more of foreign exchange the import policy followed during the two half years made special provisions for the grant of export promotion licences. A number of important export industries continued to enjoy preferential treatment in accordance with their export performance. The list of items under the Export Promotion Scheme was also expanded.

With the intention to check a precipitous rise in prices as a result of import restrictions and other causes, efforts to control sale prices and distribution of imported goods were also continued during the year under review. The various steps taken in achieving that end were the canalisation of imports through agencies approved by the Government, fixation of profit margins in respect of specific commodities, limitation on the sale of certain imported goods and imports through the S.T.C.

With a view to avoiding procedural delays, licences for the raw material requirements of 80 specified industries borne on the registers of the Development Wing covering as many as 240 items, were issued during the period on a "repeat" basis. The procedure for the submission of application was further simplified. The licensing of commercial imports, however, continued to be done strictly within the limits of the foreign exchange ceiling allocated by the Ministry of Finance.

The policy of progressive relaxation of control over exports generally and of organised export promotion consistent with the internal economy of the country was continued vigorously during the year. 37 additional items were placed on the free licensing list during the year under review while five items were decontrolled. A few items, which were banned, were licensed either on *ad hoc* basis or on quota basis so that the pace of export was regulated to suit both the demand in foreign countries and the requirements at home. As in the previous years, the policy in 1959-60 was formulated keeping in view the necessity for encouraging exports of indigenous manufactures.

The important features of the liberalisation measures introduced during the year are as follows: A large number of commodities were placed on the free licensing list as, for example, imported paper and pasteboard, fish meal, leather meal, chrome ore, picked goat skins etc.; export quotas in respect of H.P.S. groundnuts in shells and maple wood which were not allowed for export previously were also released; export of electric control and transmission gear, motors, diesel engines, celery seeds, cover crop seeds other than green manure seeds, dhoob grass seeds, silver ores and concentrates and silver bullion metal and alloys and certain wild life were decontrolled. There were only four items namely, raw goat skins, nuxvomica seeds, staple fibre yarn and cashewnuts on which fresh control was imposed during the period. Owing to difficult supply position, it became necessary to tighten the existing control on commodities like lemon grass seed and roots, cashewnut seeds and the like. Export policies in respect of the important commodities such as tea, jute manufactures and cotton textiles continued to be liberal.

Licences

During the licensing period April–September 1959, the Import Trade Control Organisation, in the Office of the Chief Controller of Imports and Exports, received 1,77,970 applications for import licences. During the period October 1959–March 1960, 210,197 applications have been received. This was the highest figure for any licensing period, barring July–December 1956.

The disposal of applications kept pace with the receipts and at the close of the licensing period, only 4,663 applications, *i.e.* about 2·2 per cent were pending. In the case of export licence applications, almost all the applications had been disposed of during the year 1959–60.

In addition to applications for import of goods, the Organisation dealt with a huge volume of correspondence on questions of policy, interpretation of rules and regulations, appeals, etc. received from the trade and various Chambers of Commerce and Trade Associations. The number of such letters reached a record figure of 7·43 lakhs.

In all, 79,859 import licences were issued during the period upto June 27, 1959.

One hundred and nine firms have been blacklisted during the period for contravening the import and export trade regulations.

A number of measures were introduced during this period to enable the industry and established importers to plan their imports on a long-term basis, and to facilitate expeditious disposal of applications. Import licences for items, where there was no change in the quota, were granted on "repeat" basis on the production of licences issued during the preceding licensing period. The scheme has been extended to a number of quota items during the current licensing period, *viz.*, April–September 1960. Quota licences for certain specified items are also granted to established importers to cover their entitlements for two licensing periods, *viz.*, April–September 1960 and October 1960–March 1961.

In addition raw materials for small scale industries and certain specified industries borne on the register of the development wing will be licensed on an annual basis. The scheme will enable the importers to take advantage of price situations and will maximize the quantum of imports for the same amount of foreign exchange.

TRADE AGREEMENTS

India has trade agreements or trade arrangements with 18 countries in Asia, Africa, Europe and other parts of the world.

The countries are Afghanistan, Bulgaria, Burma, Ceylon, Chile, Czechoslovakia, France, East and West Germany, Greece, Hungary, Indonesia, Iraq, Italy, Japan, Jordan, Morocco, Nepal, Pakistan, Poland, Rumania, Sweden, Switzerland, Tunisia, U.A.R. (Egypt), U.S.S.R., North Viet Nam and Yugoslavia.

Below we give the latest available position as on 31st Dec. 1960 about the trade agreements which India has entered into with some countries. The information given within brackets relates to the dates on which the agreements were signed and the duration of the agreements respectively.

Afghanistan (August 11, 1959—July 20, 1961); Bulgaria (March 3, 1960; January 1, 1960 to December 31, 1962); Burma (September 5, 1956—September 4, 1961); Ceylon (January 13, 1958—August 31, 1961); Chile (March 10, 1960—December 31, 1962); Czechoslovakia (November 3, 1960; January 1, 1961 to December 31, 1963); France (October 19, 1959—October 18, 1960) (but provision for renewal on request by either party); Germany, East (December 18, 1959; January 1, 1960 to December 31, 1962); Germany, West (March 31, 1955—Valid till terminated by either party giving three months' notice); Greece (February 14, 1958—December 31, 1960) (with provision for extension from year to year); Hungary (June 25, 1960; July 1, 1960 to December 31, 1963); Iraq (December 29, 1958; May 17, 1959 to May 16, 1961); Indonesia (January 30, 1953—March 31, 1961 by periodical extensions); Italy (October 6, 1959—June 30, 1961); Japan (February 4, 1958; valid initially for two years thereafter renewable periodically); Jordan (January 14, 1960—January 13, 1961, (therafter renewable for one more year); Morocco (September 26, 1960—will become valid on the signing of the payments agreement); Nepal (September 11, 1960; November 1, 1960 to October 31, 1965); Pakistan (March 21, 1960—March 20, 1962 (may be extended for a further period of one year provided either party does not give notice to the other); Poland (November 2, 1959; January 1, 1960 to December 31, 1962); Rumania (May 14, 1959—May 13, 1962); (December 22, 1960—in addition to the three-year agreement and valid from January 1, 1961 to December 31, 1966); Sweden (May 31, 1955 and exchange of letters on November 29, 1958; January 1, 1955 to continue indefinitely); Switzerland (October 10, 1959; Indefinite); Tunisia (October 5, 1960—October 4, 1961 and thereafter renewable year after year until terminated by either party giving three months' notice), U.A.R. (Egypt) (July 8, 1953; valid till terminated by either party on giving three months' notice. Periodically reviewed and extended); U.S.S.R. (November 16, 1958; January 1, 1959 to December 31, 1963); Viet Nam North (September 22, 1956—September 21, 1962); Yugoslavia (January 21, 1960—December 31, 1962).

Besides these agreements, the State Trading Corporation concluded agreements with foreign trade organizations of China, Italy, Japan, Lebanon, Switzerland and Viet Nam.

(For Statistical Tables about India's foreign trade see next page).

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FOREIGN TRADE BY COUNTRY

Countries	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Aden (including Protectorate)	4,79,04,057	1,67,55,419
Afghanistan	5,88,98,749	4,60,49,511
Algeria	17,81,974	42,864
American Samos (including Swains Islands)	46,766	..
Angola	6,98,422	9,910
Argentina (including Atlantic Coast of Pantagonia)	4,43,90,459	8,53,369
Australia	20,60,02,995	16,35,73,612
Austria	21,51,458	2,64,58,509
Bahamas	67,291	48
Bahrain Islands	1,81,48,613	4,79,93,017
Barbados	6,06,258	21,439
Belgian Congo (including Ruanda Urundi Trust Territory)	7,79,257	1,20,00,730
Belgium	4,57,83,592	13,80,69,884
Bermuda	12,679	43,175
Bolivia	3,38,465	3,04,725
Brazil	21,60,110	4,02,619
Brunei	2,150	4,851
Bulgaria	15,92,288	52,06,414
Burma	5,68,50,790	12,39,39,341
Cambodia	82,28,234	3,02,228
Canada (including Newfoundland and Coast of Labrador)	15,41,49,479	14,76,03,190
Canary Islands	1,09,402	
Cape Verde Islands	9	
Ceylon	16,70,27,541	3,51,22,780
Channel Islands	12,719	..
Chile (including the Pacific Coast of Pantagonia)	1,25,97,909	25,71,167
China (including Manchuria but excluding Hongkong and Macao)	5,25,34,158	2,51,13,387
Colombia	7,31,037	5,367
Comoro Islands (French Possessions in Africa)	43,441	60
Cook Islands (New Zealand)	36,668	..
Costa Rica	12,55,022	400
Cuba	7,04,99,139	8,08,017
Cyprus	26,02,671	25,728
Czechoslovakia	6,20,11,390	6,70,18,780
Denmark	1,49,97,835	1,72,17,783
Dominican Republic	33,42,724	22
Equador	15,74,060	5,514
Egypt	12,39,27,626	12,23,07,459
Ethiopia (including Eritrea)	2,16,66,541	2,59,312
Faeroe Islands	4,922	..
Federation of Malaya	4,96,78,261	12,66,15,498
Fiji Islands	58,03,845	4,723
Finland	23,71,072	2,92,27,225
Formosa	3,11,589	4,41,313
France (including Corsica and Monaco)	6,88,11,482	18,27,28,567
French Equatorial Africa	8,78,024	1,12,137
French Oceania (including *inter alia* Tahiti)	1,30,025	..
French West Indies	71,339	12,27,711
Gambia	16,88,900	358
Germany (East)	3,00,66,296	2,99,12,120
Germany (West) (Federal Republic of Germany including Saar)	17,03,74,204	115,79,68,764
Ghana (Gold Coast)	1,53,23,917	56,42,526
Gibraltar	1,74,322	5,790
Gilbert & Ellice Islands	8,349	..
Greece (including Crete and Dodecanese)	24,47,841	4,80,435
Guam	6,025	..
Guatemala	2,336	..
Guiana (British)	36,85,959	1,445
Haiti	11,75,879	6,768
Honduras (British)	4,82,908	..
Honduras (not British)	3,42,305	..
Hongkong	2,56,36,620	1,52,35,120
Hungary	1,24,56,950	1,81,12,375
Iceland	4,59,413	1,008
Indonesia	3,03,81,875	3,42,71,916
Iran	4,56,44,895	28,57,97,074

FOREIGN TRADE BY COUNTRY—*Contd.*

Countries	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Iraq	2,70,59,575	2,12,19,568
Irish Republic	4,65,93,457	24,016
Israel	91,383	1,79,188
Italy	8,46,47,995	23,22,30,612
Jamaica and Dependencies	17,31,502	41,22,735
Japan	31,18,36,027	54,21,33,751
Jordan	33,99,912	52,56,585
Kenya	4,40,95,189	11,78,49,618
Korea (North)	20,394	6,284
Korea (South)	16,79,333	3,063
Kuwait	2,88,25,188	5,59,792
Laos	7,31,221	2,075
Lebanon	29,39,189	12,28,903
Leeward Islands	82,040	842
Liberia	4,28,395	402
Libya	27,28,919	..
Liechtenstein	262	..
Luxembourg	6,352	51,03,554
Macao	..	6,218
Madagascar and Kerguelon	11,75,268	1,807
Maldives	2,58,556	1,97,213
Malta and Gozo	6,60,147	13
Mauritius and Dependencies	91,37,174	1,93,802
Mexico	5,72,280	1,02,92,801
Mongolian People's Republic	..	38,19,791
Morocco	4,12,697	3,52,80,122
Mozambique	1,11,16,148	27,83,214
Muscat and Oman	38,83,577	..
Nauru	..	..
Nepal	35,25,238	1,98,127
Netherlands	7,20,60,858	9,74,17,242
Netherlands Antilles	69,669	1,94,04,761
Netherlands New Guinea	29,050	..
New Caledonia (French)	25,805	..
New Guinea	23,76,860	270
New Hebrides (British and French Condominium)	13,033	..
New Zealand	6,79,99,052	1,23,87,317
Nicaragua	7,37,201	..
Nigeria (including Cameroons under British Trusteeship)	5,06,22,115	50,38,621
North Borneo and Labuan	92,514	15,032
Norway	89,79,835	2,67,72,856
Nyasaland	17,52,586	23,82,633
Other Pacific Islands	7,695	20
Pakistan (East)	4,83,34,984	11,19,35,856
Pakistan (West)	4,02,02,806	1,86,85,932
Panama Canal Zone	54,551	13,232
Paraguay	8,73,365	..
Peru	1,46,15,057	8,51,521
Philippines	75,54,583	38,27,391
Poland	3,23,03,262	3,79,60,723
Portugal (including Azores and Madeira)	15,53,378	35,06,319
Portuguese Guinea	41,252	25,101
Portuguese Timor	..	2,76,380
Puerto Rico	9,32,851	..
Qatar and Trucial Oman	1,84,71,294	1,37,91,897
Republic of Panama	6,58,316	1,66,724
Reunion	4,60,022	9,958
Rhodesia, Northern	18,78,067	9,42,07,602
Rhodesia, Southern	1,05,84,494	3,15,31,017
Roumania	1,33,72,239	4,70,75,230
Salvador	32,565	..
Sao Thome et Principe	29,096	..
Sarawak	10,10,947	44,499
Saudi Arabia	2,85,08,176	13,29,25,319
Seychelles	8,77,255	49,01,761
Sierra Leone	50,64,281	21,763
Singapore	6,34,67,119	9,79,43,595
Solomon Islands, British	55,798	10,908
Somaliland, British	5,55,149	29,759
Somaliland, French	13,62,496	18,952
Somaliland, Italian	34,51,420	1,027
South West Africa	651	1,37,802
Spain	92,45,296	1,03,66,644
Spitzbergan	..	29,382
St. Helena and Ascension	677	..
Sudan	8,87,50,292	9,24,96,118
Surinam	6,52,878	38,30,268

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FOREIGN TRADE BY COUNTRY—*Concld.*

Countries	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Swaziland	1,60,050	428
Sweden	1,36,19,556	9,62,10,208
Switzerland	1,16,81,979	9,10,36,954
Syria	1,08,90,800	1,41,72,254
Tanganyika (under British Trusteeship)	2,09,87,013	6,03,48,635
Tangier	13,300	2,608
Territory of Papua	56,803	..
Thailand	2,77,20,147	58,58,021
Tonga	85,921	1,71,623
Trinidad and Tobago	33,96,296	25,572
Tunis	50,49,104	2,03,357
Turkey	2,80,32,806	1,18,043
Uganda	55,59,226	1,46,99,821
Union of South Africa	9,94,299	40,574
United Kingdom	1,57,04,39,578	1,92,09,97,858
United States of America	91,10,59,745	2,41,23,87,604
Uruguay	36,33,604	..
U.S.S.R.	27,72,00,726	13,14,21,547
Venezuela	94,891	3,739
Viet Nam (Democratic Republic)	41,604	1,080
Viet Nam (South)	48,06,288	4,211
Virgin Islands of United States	34,126	..
West Africa, French (including the Cameroons and Togoland under French Trusteeship)	52,17,712	..
West Africa (Spanish)	61,786	..
Western Samoa (New Zealand)	47,896	1,590
Windward Islands	3,38,386	4
Yemen	1,15,676	..
Yugoslavia	3,10,33,797	3,95,03,872
Zanzibar and Pemba	30,81,027	1,78,01,624
TOTAL	5,77,83,96,426	9,54,56,30,723
Value of articles under reference	5,56,477	1,39,840
GRAND TOTAL	5,77,89,52,903	9,54,57,70,563

SUMMARY OF INDIA'S FOREIGN TRADE

Sections, Divisions and Group	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
FOOD		
Live animals chiefly for food :		
Live animals chiefly for food	11,24,566	2,43,330
TOTAL	11,24,566	2,43,330
Meat and meat preparations :		
Meat fresh, chilled or frozen	33,85,815	4,000
Meat, dried, salted, smoked or cooked, not canned	89,568	16,193
Meat canned and meat preparations, canned and not canned	52,49,361	17,60,133
TOTAL	87,24,744	17,80,326

SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Dairy products, eggs and honey :		
Milk and cream, fresh	..	1,250
Milk and cream, evaporated, condensed or dried	30	4,13,86,987
Butter	1,21,244	6,374
Cheese	299	4,17,517
Eggs	38,93,792	15,32,550
Natural honey	220	..
Dairy products, n.e.s.	5,849	92,75,338
TOTAL	40,21,364	5,26,20,016
Fish and fish preparations :		
Fish, fresh or simply preserved	3,79,21,400	3,21,57,437
Fish and fish preparations, canned or not	18,71,114	61,361
TOTAL	3,97,92,514	3,22,18,798
Cereals and cereal preparations :		
Wheat and spelt (including meslin), unmilled	..	90,15,15,754
Rice	7,116	13,67,53,487
Barley, unmilled	..	13,000
Maize (corn), unmilled	..	3,02,86,535
Cereals, unmilled, other than wheat, rice, barley and maize	274	89,50,633
Meal and flour of wheat and spelt (including meslin)	1,567	5,42,482
Cereals, milled, except wheat flour	..	5,22,668
Cereal preparations including preparations from flour and fecula of fruits and vegetables	7,05,910	9,91,420
TOTAL	7,14,867	107,95,75,979
Fruits and vegetables :		
Fruits and nuts, fresh (not including oil nuts)	19,39,02,600	12,02,70,300
Dried fruits, including artificially dehydrated	15,21,560	4,94,39,292
Fruits preserved and fruit preparations	6,03,249	42,614
Vegetables, fresh and dry, root and tubers, not including artificially dehydrated	3,07,50,764	13,28,657
Vegetables preserved and vegetable preparations	65,70,250	1,35,308
TOTAL	23,33,48,423	17,12,16,171
Sugar and sugar preparations :		
Sugar	2,68,46,135	7,10,188
Sugar confectionery and other sugar preparations	97,706	28,807
TOTAL	2,69,43,841	7,38,995
Coffee, tea, cocoa, spices and manufactures thereof		
Coffee	6,07,07,628	14,491
Cocoa	53,334	14,64,061
Chocolate and chocolate preparations	10,754	8,342
Tea and mate	117,05,67,641	1,830
Spices	14,83,76,772	1,72,08,280
TOTAL	137,97,16,129	1,86,97,604

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SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Feeding stuff for animals (not including unmilled cereals) :		
Feeding stuff for animals (not including unmilled cereals) ..	13,89,36,070	45,615
TOTAL	13,89,36,070	45,615
Miscellaneous food preparations :		
Margarine and shortenings ..	138	2,613
Food preparations, n.e.s. ..	8,32,726	22,54,536
TOTAL	8,32,864	22,57,149
TOTAL OF FOOD	183,41,55,382	135,93,93,383
BEVERAGES AND TOBACCO :		
Beverages :—		
Non-alcoholic beverages ..	30,286	3,781
Alcoholic beverages	7,357	50,02,532
TOTAL	37,643	50,06,313
Tobacco and tobacco manufactures :		
Tobacco unmanufactured ..	10,23,05,431	23,26,988
Tobacco manufactures ..	1,05,05,401	1,25,344
TOTAL	11,28,10,832	24,52,332
TOTAL OF BEVERAGES AND TOBACCO	11,28,48,475	74,58,645
CRUDE MATERIALS, INEDIBLE, EXCEPT FUELS :		
Hides, skins and fur skins, undressed :—		
Hides and skins, undressed ..	8,63,31,576	2,29,58,027
Fur skins, undressed	51,87,832	2,01,962
TOTAL	9,15,19,408	2,31,59,989
Oilseeds, oilnuts and oil kernels :		
Oilseeds, oilnuts and oil kernels	3,86,21,390	10,68,33,933
TOTAL	3,86,21,390	10,68,33,933
Crude rubber including synthetic and reclaimed :		
Crude rubber including synthetic and reclaimed	33,211	10,25,62,596
TOTAL	33,211	10,25,62,596
Wood, lumber and cork :		
Fuelwood and charcoal ..	1,17,219	33,934
Wood in the round or roughly squared	2,13,72,024	1,32,41,382
Wood shaped or simply worked	3,14,581	2,43,23,583
Cork, raw and waste	..	24,46,339
TOTAL	2,18,03,824	4,00,45.238
Pulp and waste paper :		
Pulp and waste paper	9,307	6,28,79,807
TOTAL	9,307	6,28,79,807

SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Textile Fibres (not manufactured into yarn, thread or fabrics) and waste :		
Silk	37,05,474	20,79,070
Wool and other animal hair ..	6,97,62,070	9,97,05,402
Cotton	9,85,08,204	76,48,23,647
Jute, including jute cuttings and waste	2,32,700	7,07,19,162
Vegetables fibres, except cotton and jute	1,42,20,904	1,05,33,157
Synthetic fibres	10,65,441	23,05,343
Waste materials from textile fabrics, including rags ..	20,03,449	2,405
TOTAL	18,94,98,242	95,01,68,186
Crude fertilizers and crude minerals, excluding coal, petroleum and precious stones :		
Fertilizers, crude	21,01,099	2,43,65,249
Crude minerals, excluding coal, petroleum, fertilizer materials and precious stones	11,69,15,034	6,31,27,547
TOTAL	11,90,16,133	8,74,92,796
Metalliferous ores and metal scrap :		
Iron ore and concentrates ..	15,23,82,271	40,621
Irons and steel scrap	5,15,01,972	57,46,965
Ores of non-ferrous base metals and concentrates	14,79,21,964	63,18,781
Non-ferrous metal scrap ..	13,91,243	1,97,06,605
TOTAL	35,31,97,450	3,18,12,932
Animal and vegetable crude materials, inedible, n.e.s.		
Crude animal materials, inedible, n.e.s.	4,16,24,918	45,97,694
Crude vegetable materials, inedible, n.e.s.	14,40,48,273	2,71,42,164
TOTAL	18,56,73,191	3,17,39,858
TOTAL OF CRUDE MATERIALS, ETC.	99,93,72,156	143,66,95,335
MINERAL FUELS, LUBRICANTS AND RELATED MATERIALS		
Mineral fuels, lubricants and related materials :		
Coal, coke and briquettes ..	3,13,76,745	5,15,443
Petroleum, crude and partly refined	..	16,67,44,782
Petroleum products	3,54,95,412	48,90,83,149
Gas, natural and manufactured	..	46,739
TOTAL	6,68,72,157	65,63,90,113
TOTAL OF FUELS, ETC. ..	6,68,72,157	65,63,90,113
ANIMAL AND VEGETABLE OILS AND FATS		
Animal and vegetable oils (not essential oils), fats, greases and derivatives :		
Animal oils and fats	1,24,988	74,80,162
Vegetable oils	8,30,46,922	3,54,12,308
Oils and fats processed and waxes of animal or vegetable origin	1,15,00,504	12,13,751
TOTAL	9,46,72,414	4,41,06,221
TOTAL OF ANIMAL AND VEGETABLE OILS AND FATS	9,46,72,414	4,41,06,221

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SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
CHEMICALS		
Chemical elements and compounds :		
Inorganic chemicals	14,18,950	13,50,58,925
Organic chemicals	63,65,454	22,43,26,287
TOTAL	77,84,404	35,93,85,212
Mineral tar and crude chemicals from coal, petroleum and natural gas :		
Mineral tar and crude chemicals from coal, petroleum and natural gas	10,38,585	14,31,398
TOTAL	10,38,585	14,31,398
Dyeing, tanning and colouring materials :		
Coal-tar dyestuffs and natural indigo	1,01,247	9,58,20,701
Dyeing and tanning extracts, and synthetic tanning materials	12,83,284	1,14,85,076
Pigments, paints, varnishes and related materials	25,34,035	1,69,79,050
TOTAL	39,18,566	12,42,84,827
Medical and pharmaceutical products :		
Medical and pharmaceutical products	91,30,832	9,75,41,086
TOTAL	91,30,832	9,75,41,086
Essential oils and perfume materials, toilets, polishing and cleansing preparations : ..		
Essential oils, perfumes and flavour materials	3,72,04,131	1,16,93,402
Perfumery, Cosmetics, soaps and cleansing and polishing preparations	41,73,398	15,55,449
TOTAL	4,13,77,529	1,32,48,851
Fertilizers manufactured :		
Fertilizers manufactured ..	1,485	10,03,74,879
TOTAL	1,485	10,03,74,879
Explosives and miscellaneous chemical materials and products :		
Explosives	2,842	1,94,77,875
Miscellaneous chemical materials and products	19,12,101	8,53,17,201
TOTAL	19,14,943	10,47,95,076
TOTAL OF CHEMICALS ..	6,51,66,344	80,10,61,329
MANUFACTURED GOODS CLASSIFIED CHIEFLY BY MATERIAL		
Leather, leather manufactures, n.e.s. and dressed furs :		
Leather	22,42,12,048	3,24,464
Manufactures of leather and artificial or reconstituted leather, n.e.s.	11,73,888	23,87,992
Furs, dressed or dressed and dyed	..	..
TOTAL	22,53,85,936	27,12,456
Rubber manufactures, n.e.s. :		
Rubber fabricated materials	10,26,928	16,37,029
Rubber manufactured articles	20,62,741	2,84,95,135
TOTAL	30,89,669	3,01,32,164

SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Wood and cork manufactures (excluding furniture) :		
Veneers, plywood, boards, artificial or reconstituted wood and other wood, worked n.e.s.	2,14,508	19,61,388
Wood manufactures, n.e.s. ..	6,52,020	5,21,445
Cork manufactures	48,020	18,24,217
TOTAL	9,14,548	43,07,050
Paper, paper-board and manufactures thereof :		
Paper and paper-board ..	51,98,851	10,78,76,290
Articles made of pulp, of paper and paper-board	6,86,427	25,35,144
TOTAL	58,85,278	11,04,11,434
Textile yarn fabrics, made-up articles and related products :		
Textile yarn and thread ..	10,21,41,148	13,54,94,848
Cotton fabrics of standard type (not including narrow and special fabrics) ..	53,60,37,245	66,21,609
Textile fabric of standard type (not including narrow and special fabrics) other than cotton fabrics..	73,03,40,441	85,02,000
Tulle, lace, embroidery, ribbons, trimmings and other small wares	92,80,343	14,46,980
Special textile fabrics and related products	1,36,09,913	1,16,97,672
Made-up articles wholly or chiefly of textile materials n.e.s. (other than clothing and foot-wear)	57,30,60,457	15,01,211
Floor coverings and tapestries..	8,42,90,654	1,43,108
TOTAL	204,87,60,201	16,54,07,428
Non-metallic minerals manufactures, n.e.s. :		
Lime, cement and fabricated building materials, except glass and clay materials ..	76,09,667	23,48,808
Clay construction materials and refractory construction materials	49,29,129	2,14,54,376
Mineral manufactures, n.e.s. not including clay and glass ..	74,66,933	2,10,12,128
Glass	2,04,929	66,49,582
Glassware	22,23,378	59,73,309
Pottery	1,50,192	2,37,139
TOTAL	2,25,84,228	5,76,75,342
Silver, platinum, gems and jewellery :		
Silver and platinum group metals	18,719	8,65,705
Precious and semi-precious stones and pearls, unworked and worked	14,11,317	98,52,907
Jewellery and goldsmiths' and silversmiths' wares ..	73,98,440	4,85,893
TOTAL	88,28,476	1,12,04,505
Base Metals :		
Iron and steel	9,37,78,240	1,09,40,76,719
Copper	11,39,651	21,00,33,003
Nickel	7,275	1,39,53,413
Aluminium	1,65,934	7,18,18,343
Lead	51,242	2,28,97,040
Zinc	6,03,683	8,74,60,181
Tin	34,613	3,44,83,647
Miscellaneous non-ferrous base metals employed in metallurgy	6,389	63,79,967
TOTAL	9,57,87,027	1,54,11,02,313

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SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Manufactures of metals :		
Ordnance	60,103	66,82,236
Manufactures of metals, n.e.s. ..	1,75,10,946	17,66,56,722
TOTAL	1,75,71,049	18,33,38,958
TOTAL OF MANUFACTURED GOODS, ETC.	242,88,06,412	2,10,62,91,650
MACHINERY AND TRANSPORT EQUIPMENT		
Machinery other than electric :		
Power generating (except electric) machinery ..	25,41,906	22,97,48,657
Agricultural machinery and implements	83,135	83,49,199
Tractors other than steam ..	6,658	5,48,43,208
Office machinery	52,906	1,74,46,468
Metal working machinery ..	4,77,274	35,42,29,491
Mining construction and other industrial machinery ..	1,32,71,443	1,15,91,21,080
TOTAL	1,64,33,322	1,82,37,38,103
Electric machinery apparatus and appliances :		
Electric machinery apparatus and appliances	99,78,744	51,73,39,823
TOTAL	99,78,744	51,73,39,823
Transport equipment :		
Railway vehicles	2,08,856	17,66,34,861
Road motor vehicles	9,95,435	30,29,33,561
Road vehicles other than motor vehicles	7,40,746	1,34,42,971
Aircraft	45,36,257	8,20,66,201
Ships and Boats	6,65,067	53,80,300
TOTAL	67,46,361	58,04,57,894
TOTAL OF MACHINERY AND TRANSPORT ETC. ..	3,31,58,427	292,15,35,820
MISCELLANEOUS MANUFACTURED ARTICLES		
Prefabricated buildings, sanitary, plumbing, heating and lighting fixtures and fittings :		
Prefabricated buildings and their assembled panels and parts of all Materials	..	42,357
Sanitary, plumbing, heating and lighting fixtures and fittings ..	14,50,200	1,03,23,579
TOTAL	14,50,200	1,03,65,936
Furniture and fixtures :		
Furniture and fixtures ..	23,74,799	12,43,671
TOTAL	23,74,799	12,43,671
Travel goods, hand-bags and similar articles :		
Travel goods, handbags and similar articles	35,18,422	1,34,548
TOTAL	35,18,422	1,34,548

SUMMARY OF INDIA'S FOREIGN TRADE—*Contd.*

Sections, Divisions and Groups	Apr. 1960 to Feb. 1961	
	Exports	Imports
	(Rupees)	(Rupees)
Clothing :		
Clothing except fur clothing ..	81,08,184	4,81,708
Fur clothing not including hats, caps or gloves	8,696	..
TOTAL	81,16,880	4,81,708
Footwear :		
Footwear	2,89,51,371	2,646
TOTAL	2,89,51,371	2,646
Professional, scientific and controlling instruments, photographic and optical goods, watches and clocks :		
Scientific, medical, optical measuring and controlling instruments and apparatus ..	8,82,037	5,06,02,173
Photographic and cinematographic supplies	29,124	3,61,59,830
Exposed cinematographic films whether developed or not ..	1,78,91,892	38,35,709
Watches and clocks	4,653	71,75,644
TOTAL	1,88,07,706	9,77,73,356
Miscellaneous manufactured articles, n.e.s. :		
Musical instruments, phonographs and phonograph records	14,45,436	20,41,967
Printed matter	1,11,13,561	2,37,23,989
Manufactured articles, n.e.s. ..	3,33,17,747	1,30,35,717
TOTAL	4,58,76,744	3,88,01,673
TOTAL OF MISCELLANEOUS MANUFACTURED ARTICLES	10,90,96,122	14,88,03,538
MISCELLANEOUS TRANSACTIONS AND COMMODITIES, N.E.S.		
Postal Packages :		
Postal packages, not classified according to kind	2,22,21,616	2,19,45,076
TOTAL	2,22,21,616	2,19,45,076
Live animals not for food :		
Live animals not for food ..	72,74,912	8,60,331
TOTAL	72,74,912	8,60,331
Returned goods and special transactions :		
Returned goods and special transactions	47,52,009	4,10,89,282
TOTAL	47,52,009	4,10,89,282
TOTAL OF MISCELLANEOUS TRANSACTIONS, N.E.S. ..	3,42,48,537	6,38,94,689
GRAND TOTAL	577,83,96,426	954,56,30,723
Total value of articles under reference	5,56,477	1,39,840
TOTAL VALUE ..	577,89,52,903	954,57,70,563

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INDUS WATERS TREATY

The Indus Waters Treaty, signed by the Prime Minister of India and the President of Pakistan at Karachi on September 19, 1960, brings to a close the 13-year old dispute regarding the waters of the Indus system of rivers.

Under the Treaty, the waters of the Indus, Jhelum and Chenab, except for essential uses in their own basins while they flow in India, are allotted to Pakistan; and the waters of the Ravi, Beas and Sutlej, except for a transition period, during which Pakistan will build works to replace the waters received by it from these rivers, are allotted to India.

This division is based on the proposal made by the World Bank in 1954. It divides the total waters of the Indus system in the proportion of 80 : 20 between Pakistan and India.

WESTERN RIVERS

India guarantees to let flow for all time to come all the waters of the Indus, Jhelum and Chenab to Pakistan, except for essential uses in India to be made in accordance with detailed regulations specified in the Treaty.

The present irrigated areas in India (Jammu and Kashmir, Punjab and Himachal Pradesh) from these rivers are approximately one million acres. These will continue to get water supplies from them.

In addition, provision is made for development of new irrigation facilities for another 0.7 million acres from these rivers in India.

Further, India may undertake measures for flood control and drainage in these basins (as long as these do not adversely affect Pakistan) and use these waters for generation of hydro-electric power in accordance with the criteria laid down in the Treaty.

In addition to storage for flood control purposes, India will be entitled to store on the Western Rivers for various purposes a total of 2.85 M.A.F. This storage will be mainly on tributaries.

EASTERN RIVERS

India will continue to give water from the Sutlej, Beas and Ravi, allotted to her under the Treaty, to Pakistan during the transition period only and at a diminishing scale. The transition period will be 10 years from the date the Treaty comes into force, *i.e.*, April 1, 1960.

This period may be extended for a further period of 3 years at Pakistan's request, but the extension is subject to a reduction in Indian contribution towards Pakistan's replacement works by Rs. 42 lakhs if the period is extended by one year, by Rs. 86 lakhs if by 2 years, and by Rs. 131 lakhs if by 3 years.

The transition period cannot be extended beyond 1973.

Under the Bank's plan of 1954, the transition period was estimated to last five years.

LOANS FOR INDUS WORKS

The U.S. Government has agreed to lend India a sum of Rs. 157,000,000 (dollars 33 million) and the World Bank Rs. 110,000,000 (dollars 23 million) to meet the foreign exchange costs of a dam on the Beas. This has been done taking into consideration the long transition period agreed to by India in order to accommodate Pakistan, and will enable India to avoid undue postponement of the perennial supplies to the Rajasthan canal, as would otherwise have been the case.

These loans will be the subject of separate agreements between India and the U.S. Government and India and the Bank.

WORKS IN PAKISTAN

Pakistan is undertaking on the Western Rivers a comprehensive system of replacement-cum-development works comprising storage reservoirs, barrages, link canals, tubewells, drainage and hydro-electric installations.

As the purpose of *part* of this system of works is the replacement from the Western Rivers of water supplies for irrigation canals in Pakistan, which were dependent on water supplies from the Eastern Rivers, India has agreed to make a fixed contribution of Rs. 83 crores (£62,500,000) towards the cost of the replacement element of these works.

The United States of America, United Kingdom, Canada, West Germany, Australia and New Zealand and the Bank are financing the remaining costs of this large plan of works. Their aid to Pakistan will be worth Rs. 333 crores (£250,000,000).

Apart from making the fixed contribution mentioned above, India is not concerned with the planning, construction and financing of the replacement-cum-development plan in Pakistan.

The detailed arrangements for the financing and construction, etc., of these works are the subject of a separate Agreement between the Bank, Pakistan and the participating countries mentioned above.

PERMANENT INDUS COMMISSION

The Treaty provides for a Permanent Indus Commission consisting of an Indian and a Pakistani Commissioner. Each Commissioner will be representative of his Government for all matters arising out of the Treaty, and will serve as a regular channel of communication on all matters relating to the implementation of the Treaty.

The Permanent Indus Commission will first iron out any differences between the two sides, that may arise in connection with the implementation of this Treaty.

The Treaty also provides for calling in a Neutral Expert, when necessary, to whom differences of a technical nature would be submitted for decision.

A Court of Arbitration will deal with major disputes, if any, on the interpretation of the Treaty.

FUTURE COOPERATION

The Treaty contains provision for future co-operation with regard to specific works, such as building dams to control floods or drainage works which may be required to be built by one party in the territory of the other. These will be built at the request and cost of the party which benefits from them under separate bilateral agreements.

The Treaty terminates the Indo-Pak Agreement of May 1948. Pakistan has agreed to pay all the 'undisputed' charges due to India and agreement has been reached to settle the 'disputed' charges by a payment by Pakistan of about Rs. 62 lakhs.

The total sum thus due to India, excluding the disputed amount lying in escrow with the Reserve Bank, comes to Rs. 58 lakhs (£440,000). This sum has been set off against the Indian contribution of £62,500,000.

The Permanent Indus Commission set up under the Indo-Pakistan Indus Waters Treaty to implement its provisions finalised the Annual Report for the year ended March 31, 1961 and submitted it to the two Governments on May 31, 1961. The Commission was set up immediately after 12th January. Mr. H. C. Kalsa, led the Indian delegation and Mr. M. A. Hamid, Pakistan's Commissioner led the Pakistan delegation.

INSURANCE

THE Life Insurance Corporation of India did a record business of Rs. 495·72 crores, assured under about 1·23 million policies during 1960. Foreign business completed by the L.I.C. during 1960 was Rs. 9·70 crores as against Rs. 9·47 crores in 1959.

This figure establishes a new record for new life business and represents an increase of Rs. 67 crores or 15·7% over 1959 figures, as against an increase of Rs. 84 crores or 24% in 1959. About Rs. 9·70 crores of this business were written outside India and the balance of Rs. 486·02 crores within India, including Rs. 1·82 crores under the Janata Policy Scheme. The corresponding figures for 1959 were Rs. 9·47 crores foreign business, Rs. 2·01 crores under Janata Policy Scheme and Rs. 419·47 crores business in India. The Corporation finalised a Five-Year Plan of development in 1959 to cover the period 1959–1963. The target of new business under this plan in the fifth year is Rs. 1,000 crores. The Plan target for 1959, the first year of the Plan, was exceeded by Rs. 13 crores; but there is a shortfall of about Rs. 29 crores in 1960, the target for the year being Rs. 525 crores.

The Life Insurance Corporation of India was established in September 1956 under a special Act, The Life Insurance Corporation Act, 1956 the Central Government contributing the whole of its capital of Rs. 5 crores. It has the monopoly of conducting life insurance business in India and abroad. It took over all the then existing life insurance business of Indian life offices and Provident Societies and also the Indian business of foreign life offices.

It is managed by an autonomous body consisting of 15 Directors, nominated by the Central Government functioning under the guidance and advice of the Finance Ministry of the Central Government within the scope and limits set down in the Act. This board of 15 members consists of 11 non-officials and 4 Government officials one of whom is designated Chairman of the Corporation, working as the chief whole-time officer.

The board has delegated certain of its functions to an Executive Committee of 5 members selected from among themselves, to facilitate speedy and effective execution of its duties. In addition to this, there is an Investment Committee consisting of 7 members which is a consultative body on all questions concerning the investment of the funds of the Corporation.

The Corporation has a network of offices all over the country to procure new business and for servicing the existing business. There are 5 Zonal Offices, one each in Bombay, Madras, Kanpur, Calcutta and Delhi. There are 35 Divisional Offices, and 460 Branch and Sub-offices *i.e.* 495 offices in all as against 377 in 1959, 355 offices in 1958, 266 offices in 1957 and 249 offices as on 1st September 1956 the date on which the Corporation was established. The Central Office of the Corporation is in Bombay.

The Corporation also transacts business in the following foreign countries with 2 Divisional Offices and 12 Branch Offices: Aden, Fiji, Hong Kong, Federation of Malaya, Kenya, Mauritius, Singapore, Tanganyika, Uganda and Zanzibar. Early in 1961, a Development Centre was opened in London.

In each of the Zonal Offices, there is an Advisory Board to help the Zonal Manager in matters concerning his relations with the public. The

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Boards consist of leading public men of the place with the local Zonal Manager as secretary. In addition, in each of these Zonal centres, there are committees known as Employees and Agents Relations Committees which, as the name suggests, serve to maintain good relations among agents, employees and the management.

1959 REPORT

At the end of 1959, the total business in the books of the Corporation including bonuses, stood at Rs. 1,964 crores under 69·36 lakh policies. Of this, Rs. 1,862 crores under 66·80 lakh policies represented life insurance business in India:

Year	In India		Outside India		Total	
	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)	No. of policies (lakhs)	Sum assured and bonuses (Rs. crores)
1954 ..	45·05	1,091	2·77	86	47·82	1,177
1955 ..	45·16	1,128	2·76	92	47·92	1,220
1956 ..			Figures not	available		
1957 ..	54·17	1,375	2·69	99	56·86	1,474
1958 ..	59·74	1,584	2·60	98	62·34	1,682
1959 ..	66·80	1,862	2·56	102	69·36	1,964

These figures show that India has a per capita insurance of Rs. 47—an increase of about Rs. 22 in seven years.

During the year the Corporation completed a new business of Rs. 429·17 crores sum assured under 11,51,299 policies. Business completed in 1958 amounted to Rs. 344·68 crores under 9,60,170 policies.

These figures include, 28,705 policies for Rs. 2·01 crores issued under the Janata Scheme (for industrial workers with a monthly premium collection scheme) which commenced operations in May 1957. 737 Deferred Annuities and 126 Immediate Annuities with a total annual payment of Rs. 11·07 lakhs and Rs. 1·93 lakhs respectively, were also issued.

New Business:

Year	In India		Outside India	
	No. of policies	Sum Assured Crores of Rs.	No. of policies	Sum Assured Crores of Rs.
1954 ..	7,40,093	237·60	32,682	17·65
1955 ..	7,96,030	240·51	35,461	20·33
1956 ..	5,49,401	187·69	17,956	12·59
1957 ..	8,10,738	277·67	5,055	5·40
1958 ..	9,54,771	339·06	5,399	5·62
1959 ..	11,43,387	419·70	7,912	9·47

A marked variation is noticeable in the size of the average policy sold in the different Zones by the Corporation. The figures are given below (Rs.):

Northern Zone (Delhi): 4,531; Central Zone (Kanpur): 3,993; Western Zone (Bombay): 3,987; Eastern Zone (Calcutta): 3,667; Southern Zone (Madras): 3,266; In India: 3,747; Foreign: 11,969; All business: 3,805.

ACCOUNTS

The Life Fund stood at Rs. 495·29 crores on 31st December 1959, registering an increase of about Rs. 47·39 crores in 12 months. During this period, the Corporation's income from all sources totalled about Rs. 104 crores, made up of Rs. 85 crores from premiums (excluding consideration for annuities amounting to about Rs. 47 lakhs) and about Rs. 19 crores from returns on its invested funds.

The interest income of Rs. 19 crores represents earnings of 4·08% on the mean life fund after deducting income-tax. The rate of interest from 1952 is given below:

1952: 3·43; 1953: 3·50; 1954: 3·52; 1955: 3·56; 1957 (16 months ended 31st Dec.): 3·74; 1958: 3·52; 1959: 4·08.

On the outgo side Rs. 32 crores represented claims and other benefits to the policy-holders, Rs. 24 crores expenses of management, nearly Rs. 66 lakhs taxes and transfer to special reserves and the balance of nearly Rs. 47 crores addition to the Life Fund. On the claims side, nearly Rs. 7 crores represented claims by death and nearly Rs. 21 crores by maturity, annuities, surrender and bonuses in cash etc., accounting for the balance.

Out of the expenses of management amounting to Rs. 24 crores, Rs. 12 crores or 50% were spent in salaries and other benefits to the staff, nearly Rs. 8·1 crores or 33% commission and allowances for procuring business, including Rs. 5·2 lakhs compensation to special and chief agents, and the remaining 12% in miscellaneous items as rent, travelling expenses, Doctors' fees, printing and stationery, postage, Bank charges and the like. The overall expenses of management amounted to 28·7% of the premium income.

Over-all expense ratio: 1954, 29·4; 1955, 31·8: 1956 Jan. to Aug., 33·7; 1956-57 (1 months), 27·3; 1958; 29·2; and 1959: 28·7.

The renewal expense ratio in terms of Rule 25(*b*) of Insurance Rules 1939 was 12·92% as against 15·46% in 1958 and 15·89% in 1957.

INVESTMENTS

The total investments pertaining to life business as at 31st December 1959 amounted to Rs. 455·98 crores of which Rs. 12·23 crores were out of India. The break up of Indian investments is as follows:

Indian and State Government and other approved securities	Rs. 316·71 crores
Debentures and shares of Joint stock companies in India	„ 81·58 „
Loans to Housing Schemes —State Governments and Cooperative Finance ..	„ 5·30 „
Mortgages of Properties ..	„ 10·37 „
House Property	„ 22·57 „
Due from State Governments for controlled business over..	„ 6·45 „
Other investments	„ 0·77 „
	Rs. 443·75 crores

On 31st December 1959, the Corporation held stock exchange securities aggregating nearly Rs. 410 crores, of which about Rs. 398 crores were in India and the balance outside India.

A broad classification of investments in India shows that 78·2% was invested in the public sector, and 21·8% in the private sector. Besides the loans issued by the Central and State Governments, investments in the public sector include loans, bonds, shares or debentures of municipalities, Improvement Trusts, Port Trusts, Land Mortgage Banks, State Financial Corporations, and Statutory Corporations. Investments in the private sector take the form of debentures, preference shares and ordinary shares of industrial and commercial undertakings.

Debentures, preference and ordinary shares of joint stock companies held by the Corporation may be classified as under according to the character of the industries (Rs. lakhs):

Banks: 298·52; Cement: 447·70; Chemicals: 176·06; Coal: 224·25; Coop. Housing Societies: 23·60; Cotton: 759·20; Electricity: 920·25; Engineering: 973·13; Insurance: 160·14; Investment Trust: 180·96; Iron & Steel: 683·64; Jute: 424·63; Managing Agents: 170·19; Mining: 64·54; Paper: 324·31; Plantations: 166·02; Railways: 68·59; Shipping: 166·31; Sugar: 179·45; Textiles (other than Cotton): 133·65; Vegetable Oil: 42·09; Miscellaneous: 1,576·57. Total: Rs. 81,57·80 lakhs.

Apart from investments in Government of India loans, in statutory corporations, in loans issued by the former Hyderabad Government, and foreign investments, stock exchange securities can be sorted State-wise as under:—

State	Percentage	
	To investment in States	To total investment
Andhra	4·69	2·05
Assam	1·03	0·45
Bihar	6·49	2·84
Bombay* ..	30·87	13·49
Delhi (State) ..	0·60	0·26
Kerala	2·03	0·89
Madhya Pradesh	2·18	0·95
Madras	9·02	3·94
Mysore	4·00	1·75
Orissa	2·39	1·04
Punjab	0·83	0·36
Rajasthan ..	1·36	0·60
Uttar Pradesh ..	10·43	4·56
West Bengal ..	24·08	10·52
	100·00	43·70

PERSONNEL, RURAL INSURANCE

On its formation, the Corporation took over about 21,000 employees, of whom 16,000 were in the clerical and supervisory cadre and 5,000 subordinate staff. On 31st December 1959, there were 37,341 employees of whom 1,479 were officers, 5,188 field officers, 24,652 supervisory and clerical staff and 6,022 subordinate staff. The total monthly salary bill in December 1959 was Rs. 86·88 lakhs.

Out of over 1·48 lakh agents on the books on 31st December 1959, about 94,000 were active.

The average production per active agent in 1959 was Rs. 44,435 as against Rs. 37,494 in 1958.

Permanent training centres have been opened at the headquarters of the five Zones to train development personnel on the professional aspects of sales and servicing. Other training centres at selected Divisional headquarters have also been opened.

Rural insurance in an intensified form has been undertaken in certain community development blocks of Rajasthan and Bihar. The scheme was extended to Assam, Andhra, Uttar Pradesh and Madhya Pradesh during 1959. The business secured from the rural areas has risen

* Bilingual.

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from 37% in 1957 to 38% in 1958 and to 43% in 1959. Out of the total business of Rs. 496 crores written in 1960, as much as 46% of the business has come from the rural areas of the country.

GENERAL INSURANCE

As at 31st December 1960 there were 166 companies registered under the Insurance Act, 1938 to transact one or more classes of general insurance business of which 88 were Indian and 78 non-Indian. The number of Indian insurers excludes the Life Insurance Corporation of India (which is registered for Life and Miscellaneous insurance business) but includes its four subsidiaries which conduct general insurance business. It also includes 12 insurers registered for Country Craft (marine) insurance business only and 7 non-tariff offices.

Of the 78 non-Indian offices, 62 have their head-offices in the U.K.

Since nationalisation of life insurance, 15 Indian and 23 non-Indian companies had closed down their general insurance business (Sept. 1960).

The total income and outgo in respect of the general insurance business of Indian insurers during 1959 is analysed below:

Particulars	Rs. lakhs
Income	
Premiums *less* reinsurances:	
In India ..	15,02
Outside India ..	13,32
Net interest, dividends and rents	36
Other income	8
Total..	28,78
Outgo	
Claims *less* reinsurances.. ..	14,20
Net commission	3,64
Expenses of management ..	7,40
Miscellaneous outgo	27
Total	25,51
Profits transferred to Profit and Loss Account	1,33
Actual increase in Reserves for unexpired risks and Additional Reserves	1,94
Excess of Income over Outgo ..	3,27

The proportion of the net premium income spent by way of claims, expenses, etc., during the year 1959 is shown in the following table:

Ratio to Net Premium Income of	Fire		Marine		Miscellaneous	
	Indian Insurers	Non-Indian Insurers	Indian Insurers	Non-Indian Insurers	Indian Insurers	Non-Indian Insurers
Net Claims	35·7	19·9	76·7	45·0	54·1	41·4
Expenses of Management including commission..	43·5	52·4	26·6	39·3	39·6	46·5
Increase in Reserves* ..	4·5	—0·6	1·5	2·6	6·6	3·3
Miscellaneous outgo ..	1·1	4·6	0·9	2·9	0·8	—0·1
Balance	15·2	23·7	—5·7	10·2	—1·1	8·9
TOTAL	100·0	100·0	100·0	100·0	100·0	100·0

* Increase in Reserve is obtained by taking 40 per cent in the case of Fire and Miscellaneous and 50 per cent in the case of Marine insurance business of the increase in Net premium income during the year 1959 over that of the preceding year.

The following tables present a comparative study of the insurance business in India and outside India of Indian insurers and of the business in India of non-Indian insurers.

(Premiums in lakhs of rupees)

Year	Fire Premiums		Marine Premiums		Miscellaneous Premiums		Total	
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
I. INDIAN INSURERS								
Business in India								
1957 ..	7,18	3,78	4,39	2,09	6,39	5,09	17,96	10,96
1958 ..	7,94	4,36	4,45	2,59	7,66	6,02	20,05	12,97
1959 ..	8,72	5,14	5,10	2,62	9,19	7,26	23,01	15,02
Business outside India								
1957 ..	2,09	6,93	2,00	2,05	2,39	2,61	6,48	11,59
1958 ..	2,19	6,65	1,74	2,36	2,72	3,00	6,65	12,01
1959 ..	1,99	7,28	1,74	2,49	3,31	3,55	7,04	13,32
II. NON-INDIAN INSURERS								
Business in India								
1957 ..	4,70	3,13	2,65	1,91	2,52	2,14	9,87	7,18
1958 ..	4,71	3,22	2,32	1,72	2,63	2,25	9,66	7,19
1959 ..	4,94	3,19	2,47	1,81	2,77	2,45	10,18	7,45

ASSETS

The total assets of the general insurance business of Indian insurers amounted to Rs. 57,04 lakhs on 31st December 1959 (as against Rs. 51,93 lakhs on 31st Dec. 1958 and Rs. 49,08 lakhs on 31st Dec. 1957) and were invested as shown below.

The total assets in India in respect of the general insurance business of the non-Indian insurers amounted to Rs. 11,41 lakhs on 31st December 1959 and were invested as shown below. The figures are in lakhs of Rupees.

	Indian insurers.			Non-Indian
	1959	1958	1957	1959
Central Govt. Securities	5,90	6,26	6,37	2,21
State Govt. Securities	1,66	1,31	1,21	4
Br. & Foreign Govt. Securities ..	1,76	1,99	2,05	—
Municipal, Port & Improvement Trust Securities	33	28	26	41
Debentures of Indian Companies ..	2,75	2,50	1,86	61
Preference Shares of Indian Companies	3,16	2,83	2,25	22
Ordinary Shares of Indian Companies	10,09	8,92	6,99	1,56
Land & House Property	91	86	84	30
Deposit, Cash & Stamps	12,41	11,18	13,73	3,70
Loans on mortgage of Property ..	49	38	43	4
Loans on Stocks & Shares	9	9	10	—
Other Loans	26	50	78	4
Agents' Balances, Outstanding premiums, Amounts due from other insurers and Accrued & outstanding interest	13,03	11,71	8,65	1,15
Miscellaneous	4,20	2,98	3,56	1,13
Total	57,04	51,79	49,08	11,41

The total amount of foreign business to the credit of the L.I.C. was Rs. 28·60 crores upto Oct. 15, 1960.

The Insurance (Amendment) Act, 1961.

The Insurance Act, 1938 was amended, early in 1961, by inserting Part IVA Reinsurance, Sections 101A and 101B. Section 101A provides that every insurance company operating in India must reinsure a certain percentage of its business (not exceeding 30%) with Indian reinsurance companies approved in this behalf by the Central Government. Section 101B provides for the constitution of an Advisory Committee consisting of five members having special knowledge and experience of the business of insurance, to advise the Government for fixing the percentages of reinsurance and distribution of these percentages among the approved reinsurers.

By various notifications, the Central Government has announced the names of the two approved Indian reinsurance companies, the names of the members of the Advisory Committee and the various percentages of the sum assured on each policy to be reinsured by every insurer in the two Indian reinsurers. The two approved reinsurers are: India Reinsurance Corporation Ltd., and Indian Guarantee & General Insurance Co. Ltd., both having their registered offices in Bombay.

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IRRIGATION TABLES

NET AREA IRRIGATED BY SOURCES, 1957-58.

The following table gives the figures in thousand acres :

STATES AND TERRITORIES	CANALS			Tanks	Wells	Other sources	Total
	Govt.	Private	Total				
Andhra Pradesh	3,019	38	3,057	2,746	744	214	6,761
Assam	178	921	1,099	–	–	634	1,733
Bengal (West)	820	928	1,748	934	38	466	3,186
Bihar	1,130	508	1,638	655	709	1,700	4,702
Bombay†	652	58	710	535	2,368	103	3,716
Jammu & Kashmir	143	560	703	–	7	26	736
Kerala	359	72	431	79	29	312	851
Madhya Pradesh	983	7	990	601	740	105	2,436
Madras	2,026	2	2,028	2,094	1,294	97	5,513
Mysore	419	12	431	829	315	301	1,876
Orissa	487	69	556	1,233	94	541	2,424
Punjab	4,827	191	5,018	15	2,316	43	7,392
Rajasthan	777	–	777	550	2,226	19	3,572
Uttar Pradesh	4,660	23	4,683	941	5,928	651	12,203
Delhi	38	–	38	6	40	–	84
Himachal Pradesh	–	–	–	–	(a)	93	93
Manipur	–	145	145	–	–	–	145
Tripura	–	–	–	(a)	–	8	8
TOTAL INDIA	20,518	3,534	24,052	11,218	16,848	5,313	57,431

† Bilingual. (a) Below 500 acres.

GROSS AREA IRRIGATED BY CROPS, 1957-58.

The following table gives the figures in thousand acres :

STATES AND TERRITORIES	Rice	Wheat	Jowar	Bajra	Ragi	Maize	Barley	Other Cereals and Millets	Total Cereals and Millets	Total Oilseeds
Andhra Pradesh	6,497	9	147	217	369	66	8	74	7,387	283
Assam	1,433	–	–	–	–	(a)	–	–	1,433	–
Bengal (West)	2,891	49	(a)	–	–	18	7	–	2,965	–
Bihar	3,768	264	–	–	(a)	3	120	11	4,166	12
Bombay†	804	807	621	139	2	48	16	15	2,452	95
Jammu & Kashmir	465	91	(a)	2	9	81	12	22	682	35
Kerala	829	–	3	–	2	–	–	7	841	–
Madhya Pradesh	1,474	409	(a)	(a)	(a)	11	107	1	2,002	5
Madras	5,213	2	407	159	447	10	–	84	6,322	283
Mysore	1,313	23	61	5	70	18	4	6	1,500	–
Orissa	2,425	9	1	(a)	20	5	–	2	2,462	–
Punjab	603	2,462	192	226	1	481	125	81	4,171	203
Rajasthan	19	1,331	46	55	–	410	890	10	2,761	97
Uttar Pradesh	1,088	4,133	27	9	30	199	2,129	81	7,696	84
Delhi	1	39	4	1	–	2	1	(a)	48	1
Himachal Pradesh	52	54	–	(a)	2	20	10	9	147	2
Manipur	145	–	–	–	–	–	–	–	145	–
Tripura	6	–	–	–	–	–	–	–	6	–
TOTAL INDIA	29,026	9,682	1,509	813	952	1,372	3,429	403	47,186	1,100

† Bilingual. (a) Below 500 acres.

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GROSS AREA IRRIGATED BY CROPS, 1957-58—*Contd.*

STATES AND TERRITORIES	Gram	Tur	Other Pulses	Total Pulses	Total Food grains	Sugar-cane	Other Food Crops	Total Food Crops	Cotton	Tobacco	Other non-Food Crops	Total non-Food Crops	Total under all Crops
Andhra Pradesh ..	4	11	46	61	7,448	181	266	7,895	4	78	83	448	8,343
Assam	–	1	15	16	1,449	–	2	1,451	–	–	82	82	1,533
Bengal (West) ..	–	–	102	102	3,067	27	104	3,198	–	–	28	28	3,226
Bihar	36	–	212	248	4,414	89	178	4,681	–	3	6	21	4,702
Bombay†	105	7	18	130	2,582	316	594	3,492	238	52	328	713	4,205
Jammu & Kashmir ..	2	(*a*)	18	20	702	1	31	734	1	1	16	53	787
Kerala	–	–	35	35	876	12	203	1,091	–	–	129	129	1,220
Madhya Pradesh ..	83	(*a*)	30	113	2,115	109	195	2,419	9	4	33	51	2,470
Madras	(*a*)	1	16	17	6,339	142	299	6,780	255	24	53	615	7,395
Mysore	4	1	2	7	1,507	138	137	1,782	19	–	147	166	1,948
Orissa	1	4	81	86	2,548	59	126	2,733	6	–	81	87	2,820
Punjab	1,188	(*a*)	106	1,294	5,465	358	208	6,031	1,427	3	1,482	3,115	9,146
Rajasthan	387	(*a*)	16	403	3,164	78	214	3,456	394	5	318	814	4,270
Uttar Pradesh ..	985	4	1,580	2,569	10,265	1,891	466	12,622	160	27	441	712	13,334
Delhi	2	(*a*)	1	3	51	9	12	72	1	1	9	12	84
Himachal Pradesh ..	1	–	3	4	151	(*a*)	7	158	(*a*)	1	(*a*)	3	161
Manipur	–	–	–	–	145	–	–	145	–	–	–	–	145
Tripura	–	–	–	–	6	1	1	8	–	–	–	–	8
TOTAL INDIA ..	2,798	29	2,281	5,108	52,294	3,411	3,043	58,748	2,514	199	3,236	7,049	65,797

† Bilingual. (*a*) Below 500 acres.

OFFICIAL LANGUAGE PROBLEM

IN accordance with the provisions of Article 344 of the Constitution the President constituted a Commission to make recommendations on the progressive use of Hindi and restriction on the use of English and also on the languages to be used for communication between the Union and a State or between one State and another.

This Commission called, for short, Official Language Commission, submitted its report to the President on 31st July 1956, and was laid on the table of Parliament on August 12, 1957.

A summary of the report was given in the previous edition of the *Directory* as well as the background of the language controversy.

It may be mentioned that the Constitution requires that the recommendations of the Language Commission have to be examined by a Parliamentary Committee consisting of 30 members (20 from the Lok Sabha and 10 from the Rajya Sabha). The President will base his final order on the report of this Committee.

PARLIAMENTARY COMMITTEE

The 20 members to form the Committee from the Lok Sabha were elected on Sept. 12, 1957 and the 10 members from the Rajya Sabha on 11th September.

The Committee held its first meeting on 16th Nov. 1957 at which Pandit Govind Ballabh Pant was elected chairman.

The Committee held in all 26 meetings before finalizing its report, which was presented to Parliament on 22nd April 1959.

The names of the members of the Committee were given in the 1960-61 *Directory*.

A summary of the Committee's report is given in the *Directory* for 1959-60.

With the permission of the President the report was laid on the tables of the two Houses on April 22, 1959 and later discussed in Parliament.

The general sense of Parliament appeared to be, and this was reflected in a Government of India resolution on the subject, that while the date for the switch-over to Hindi as the principal language should be retained there should be a flexible approach in the matter of the discontinuance of the use of English — an approach that should take into account the views of the non-Hindi speaking areas. In effect this means that English would continue to be used along with Hindi though to a progressively diminishing extent, and there would be no dead-line.

Apart from permitting the use of English for official work at the Centre for an indefinite period, the Government of India resolution gives the States the option to address communications to the Government of India or other States in that language.

It also urges the provision of adequate facilities in schools and at the university-level for the continued study of English.

On the other hand, the resolution recommends that all judicial courts, up to the level of the High Court, should entertain applications in Hindi and generally provide facilities for transaction of work in this language to the extent possible.

Candidates appearing for examinations conducted by the Union Public Service Commission will have the option of answering question-papers in Hindi.

The resolution discusses in some detail the lines along which the various regional languages of the country should develop. In the interests of national unity, it urges that, as far as possible, these languages should come closer together, particularly in the matter of vocabulary. It praises in this context the work of the Sahitya Akademy.

PRESIDENT'S ORDER

The President then made his order published in a gazette notification of April 27, 1960.

The President broadly accepted the recommendations of the Parliamentary Committee on Official Language and the Government of India's resolution and directed that after 1965 Hindi with international numerals should be the principal official language and English should continue as an associate language. No restrictions are therefore to be imposed for the present on the use of English for any of the official purposes of the Union.

The President directed that the Home Ministry should take necessary action in consultation with the UPSC for the introduction of Hindi as "an alternative medium of examinations for recruitment to all-India services and higher Central services."

It has, however, been clarified that, "for the present, only an optional Hindi language paper may be introduced." Such candidates as are selected and have qualified in this paper may be exempted from passing the Hindi departmental test after recruitment.

It is directed that international numerals be adopted uniformly in all technical and statistical publications of the Government of India. A uniform basic policy should be adopted for the use of Devnagari numerals, in addition to international numerals, in the Hindi publications of the Central Ministries.

The President has accepted the recommendation that the functioning of the Supreme Court should eventually be in Hindi. But it is pointed out that this will "require appropriate action only when the time comes for the change-over."

In respect of the language of the High Courts, the President has urged that the Ministry of Law may undertake necessary legislation in their case to provide for the use "optionally of Hindi and other official languages of the States for the purposes of judgment, decrees and orders, with the previous consent of the President."

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The Union Government should prepare and implement a plan of action for the progressive use of Hindi as the official language.

We give details of the President's order below.

Terminology

The main recommendations of the Commission which the Committee has accepted are: (*i*) in preparing the terminology clarity, precision and simplicity should be primarily aimed at; (*ii*) international terminology may be adopted or adapted in suitable cases; (*iii*) the maximum possible identity should be aimed at in evolving terminology for all Indian languages; and (*iv*) suitable arrangements should be made for co-ordinating the efforts made at the Centre and in the States for evolving terminology in Hindi and other Indian languages.

The Government of India have decided to set up a Standing Commission for Scientific and Technical Terminology for evolution of terms in scientific and technical subjects. The Chairman of the Commission will be Dr. D. S. Kothari and the Director of the Central Hindi Directorate will be the non-member Secretary.

Administrative Manual

In view of the need for ensuring a measure of uniformity in the language used in the translation of manuals and other procedural literature the Committee has accepted the recommendation of the Commission about the advisability of entrusting the work to a single agency.

The Ministry of Education may undertake the translation of all manuals and procedural literature other than statutory rules, regulations and orders.

The translation of statutory rules, regulations and orders is intimately connected with the work of translation of statutes and the Ministry of Law may take up this work. It should be the endeavour to secure in these translations maximum possible uniformity in terminology in all the Indian languages.

Training

In accordance with the opinion expressed by the Committee, in-service training in Hindi may be made obligatory for Central Government employees who are aged less than 45 years. This will not apply to employees below Class III grade, industrial establishments and work-charged staff.

In this scheme, no penalty should be imposed for failure to attain the prescribed standard by the due date. Facilities for Hindi training may continue to be provided free of cost to the trainees.

Necessary arrangements may be made by the Ministry of Home Affairs for the training of typists and stenographers employed under the Central Government in Hindi typewriting and stenography.

The Government of India have accepted the revised key-board for the Hindi typewriter suggested by the Hindi Typewriter and Teleprinter Committee, set up by the Government of India, under the chairmanship of Shri S. M. Aggarwal.

Propagation of Hindi

The Committee has agreed with the recommendation of the Commission that the responsibility for this work should now be sponsored officially. Where efficient voluntary organisations already exist, they may be aided financially and in other ways, and where such agencies do not exist, Government may set up the necessary organisation themselves.

The Ministry of Education may review the working of the existing arrangements for propagation of Hindi and take further action on the lines indicated by the Committee.

The Ministries of Education and Scientific Research and Cultural Affairs may, in collaboration, take steps to encourage studies and research in Indian linguistics, philosophy and literature as suggested by the Committee, and formulate necessary proposals for bringing the various Indian languages closer and for developing Hindi in accordance with the directive contained in Article 351.

Local Offices

In the opinion of the Committee, local offices of the Central Government departments should use Hindi for their internal working and the respective regional languages in their public dealings in the respective regions.

In formulating the plan for the progressive use of Hindi in addition to English in their local offices, the Central Government Departments should keep in view the need for providing facilities to the local public by making available to them forms and departmental literature for their use in the regional language in as large a measure as practicable.

In the opinion of the Committee, the staff structure of the administrative agencies and departments of the Central Government should be reviewed and decentralised on a regional basis, and the recruitment methods and qualifications may have to be revised suitably.

The suggestion may be accepted in principle, without introducing any domicile qualifications, in regard to categories of posts in local offices of which the incumbents are not ordinarily liable to transfer outside the region.

The Committee agrees with the recommendation of the Commission that the Union Government would be justified in prescribing a reasonable measure of knowledge of Hindi language as a qualification for entering services, provided a sufficiently long notice is given and the measure of linguistic ability prescribed is moderate, any deficiency being made good by further in-service training.

This recommendation may be applied for the present in regard to recruitment in the local offices of the Central Government departments in the Hindi-speaking areas only, and not in the local offices in non-Hindi-speaking areas.

All these directions will not apply to the offices under the Indian Audit and Accounts Department.

Training Establishments

The Committee has suggested that English may continue as the medium of instruction for training establishments such as the National Defence Academy but suitable steps may be taken to introduce Hindi as the medium for all or some of the purposes of instruction.

The Ministry of Defence may take suitable preparatory measures such as publication of instruction books, etc., in Hindi to facilitate its use as a medium of instruction, where feasible.

The Committee has suggested that English and Hindi should be the media of examination for entrance to training establishments with the option to candidates to select either with reference to all or any of the papers and an expert committee should be appointed to examine the practicability of introduction of regional languages as media without bringing in a quota system.

The Ministry of Defence may take necessary measures for introducing Hindi as an alternative medium for the entrance examination and for constituting an expert committee to examine the question of the introduction of regional languages as media without introducing any quota system.

Recruitment

The Committee's opinion is that (*i*) English may continue to be the medium of examination, and Hindi may be admitted as an alternative medium after some time, both Hindi and English being available thereafter as media at the option of the candidate for as long as necessary, and (*ii*) that an expert committee be appointed to examine the feasibility of introducing the various regional languages as media without bringing in any quota system.

Necessary action may be taken by the Ministry of Home Affairs in consultation with the Union Public Service Commission for the introduction of Hindi as an alternative medium after some time. The introduction of various regional languages also as alternative media is likely to lead to serious difficulties and it is not, therefore, necessary to appoint an expert committee to examine the feasibility of introducing regional languages as alternative media.

The Committee's opinion is that after due notice, there should be two compulsory papers of equal standard, one in Hindi, and another in a modern Indian language other than Hindi to be selected by the candidate.

For the present, only an optional Hindi language paper may be introduced. Candidates selected on the results of the competition who qualify in this paper may be exempted from appearing and passing at the Hindi departmental test after recruitment.

Numerals

As suggested by the Committee, a uniform basic policy should be adopted for the use of Devanagari numerals, in addition to the international numerals, in the Hindi publications of the Central Ministries depending upon the public intended to be addressed and the subject-matter of the publication. For scientific, technical and statistical publications, including the budget literature of the Central Government, the international numerals should be adopted uniformly in all publications.

Acts, Bills

The Committee has expressed the opinion that Parliamentary legislation may continue to be in English but an authorised translation should be provided in Hindi.

The Ministry of Law may, in due course, initiate necessary legislation to provide for an authorised Hindi translation of Parliamentary legislation which may continue to be in English. Arrangements may be made by the Ministry of Law also for providing translations of Parliamentary legislation into the regional languages.

The Committee has expressed the opinion that where the original text of Bills introduced in or Acts passed by the State legislature is in a language other than Hindi, a Hindi translation may be published with it besides an English translation as provided in clause (3) of article 348.

It is proposed to constitute a Standing Commission of Legal Experts for proper planning and implementation of the entire work relating to preparation of a standard legal terminology (for use, as far as possible, in all Indian languages) and translation of statutes in Hindi.

Nine States have passed State Language Bills and they are: Uttar Pradesh, Madhya Pardesh, Bihar, Orissa, Assam, Madras, Gujarat, Rajasthan and Punjab.

Courts

The Official Language Commission recommended that so far as the language of the Supreme Court is concerned, Hindi eventually should be the language of the Supreme Court when the time comes for the change-over. The Committee has accepted this recommendation.

In regard to the language of the Hindi Courts, the Commission considered the pros and cons of the regional and Hindi languages and recommended that when the time for the change-over arrives, the language of judgments, decrees and orders of High Courts should be the Hindi language in all regions, but the Committee has expressed the opinion that in the High Courts provision may be made by introducing necessary legislation for the use optionally of Hindi and official languages of States for purposes of judgments, decrees and orders of High Courts with the previous consent of the President.

The opinion of the Committee regarding the functioning of the Supreme Court eventually in Hindi is acceptable in principle, and will require appropriate action only when the time comes for a change-over.

In respect of the language of the High Courts the Ministry of Law may in due course undertake necessary legislation to provide for the use

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optionally of Hindi and other official languages of States for purposes of judgments, decrees and orders with the previous consent of the President, as suggested by the Committee in modification of the recommendation of the Commission.

The Committee has agreed with the recommendations of the Commission relating to the preparation of a standard legal lexicon, re-enactment of the statute book in Hindi in respect of both Central and State legislation, plan of action for evolving a legal terminology and for taking other preparatory steps during the transitional period during which the statute book as well as the case law will be partially in Hindi and in English, and has also suggested the constitution of a Standing Commission or a similar high level body consisting of legal experts representing the different national languages of India for the proper planning and implementation of the entire programme relating to translation of statutes and preparation of legal terminology and glossaries. The Committee has also expressed the opinion that the State Governments might be advised to take necessary measures in consultation with the Central authorities.

The Ministry of Law may take action in the light of the suggestion of the Committee to constitute a Standing Commission of legal experts for the proper planning and implementation of the entire work relating to preparation of a standard legal terminology (for use, as far as possible, in all Indian languages) and translation of statutes in Hindi.

PROMOTION OF HINDI

Below we give a summary of the various steps taken to promote the use of Hindi.

There is a body called Hindi Shiksha Samiti appointed to assist and advise the Government of India on the development and propagation of Hindi.

A Central Hindi Directorate also exists in the Union Ministry of Education to promote and propagate Hindi.

The Directorate is responsible for the detailed execution of the decisions of Government with regard to evolution of terminology, propagation and development of Hindi, translation of foreign agreements, standard works and important Government publications, preparation of dictionaries and other works.

It is decided that institutions for training Hindi teachers should be set up in States if there is a demand either by State Governments or by voluntary agencies.

If there is a genuine demand for schools with Hindi as medium, applications for grants might also be considered by the State as well as the Centre, the latter to make up possible deficit.

A basic Hindi grammar is under preparation.

A basic Hindi vocabulary has been determined and published in 'Basic Hindi Vocabulary'.

The ten volume Hindi encyclopedia: This is entrusted to the Nagari Pracharini Sabha of Banaras. The total cost would be Rs. 6·5 lakhs. Upto March 1960, Rs. 1.7 lakhs were paid. The first volume with about 1,400 topics is in the press.

Technical Terminology:—The former Board of Scientific Terminology under which a number of expert committees were working has now been replaced by a Standing Commission on scientific and Technical Terminology and a Review and Co-ordination Committee for non-scientific and non-Technical subjects.

Up to 31st July 1961 about 2,93,099 terms in different subjects were evolved of which 1,47,050 were approved by the different Expert Committees and 40,893 were finally approved by the then Board of Scientific Terminology.

A Dictionary Unit exists in the Hindi Division of the Ministry of Education for preparing a dictionary of scientific and technical terms evolved by the Board.

Technical terms in the following subjects have been finalized and are available for sale from the Manager of Publications, Civil Lines, New Delhi:

Agriculture I and II, Botany, Chemistry I and II, Defence I, II and V, Diplomacy I, Economics, Commerce, Engineering, General Administration I, Mathematics I and II, Overseas Communications Service, Posts and Telegraphs (Designations), Physics, Social Science, Zoology, Tourism, Railways, Posts and Telegraphs (General Terms), Transport (High Engineering).

Final lists on the following subjects were in the press:

Education (General) I, Botany II, Medicine I, Information & Broad-casting.

Revised lists for the following were with the Board for approval:

Agriculture III, Botany III, Chemistry III, Defence VI, General Banking & Trade, History (Pre-History), Advanced Banking, P. & T. (General Banking), Transport VI, Zoology II.

The following lists were in circulation:

Chemistry IV, Defence VII, VIII, & IX, Diplomacy III & IV, Education (Education Psychology) I, II & III, Engineering II & III, General Meteorology, Information & Broadcasting, Law I, II and III, Mathematic III & IV, Medicine II (Part II), Medicine III (Part I), Physical Geography I and II, Steno Typing, Labour Economics, Medicine II (Part I), Physics II, Meteorology II, Advanced Economic theory and thought.

Standard manuals based on the terminology evolved are under preparation.

Hindi Typewriter:—The Govt. of India has finalised the key-board. The Ministry of Commerce & Industry will arrange for manufacture of Hindi Typewriters on the basis of the accepted key-board. The key-board for the Hindi Teleprinter will also be announced shortly.

The work of carrying out morphophonemic analysis of Hindi and various regional languages for short-band was expected to be completed by the end of 1960. Thereafter the matter will be placed before the Hindi Shorthand Committee.

The Government of India have decided to initiate a project of translation and preparation of standard source and text books on sciences, technology and humanities through academic agencies.

This work will be financed wholly by the Government of India and will be entrusted to the academic bodies of the State Governments and to universities. The selection of books and supervision of their translation or preparation would be done by a committee of experts belonging to appropriate scientific and technical fields.

The terms approved by the Government of India will be compulsorily used in these works.

The special feature of the scheme is that sale proceeds of the published works would be ploughed back for continued production and publication of more such books. It will be stipulated that the language used in the proposed translations will be, as far as possible, natural and simple and the style consistent with the requirements of the subject.

Two hundred titles have already been selected for translation into Hindi to mark the initial phase towards the implementation of this scheme.

The Government of India have also appointed a sub-committee of experts to ensure systematic execution of this project in all its detail.

Other measures for the promotion of Hindi include:

The publication of revised and critical editions of standard Hindi works now out-of-print, of omnibus volumes of the works of eminent Hindi writers, visits of debating teams of schools and colleges from non-Hindi areas to Hindi areas, lecture tours of prominent Hindi speakers in non-Hindi areas, prizes for Hindi books of outstanding merit, preparation of histories of sciences, encyclopedia of Hindu mythology, dictionary of Indian phrases and fables.

The Union Ministry of Education have formulated a scheme for the free supply of suitable Hindi books to school libraries in non-Hindi speaking States where Hindi is taught either as a compulsory or as an optional subject.

The Central Government has indicated some more steps to introduce progressively Hindi in addition to English for the official purposes of the Union.

As far as possible, by the beginning of March 1962, all Hindi letters are to be replied in Hindi and, by the end of 1963-64, Hindi is to be used in addition to English generally for correspondence with those States which have adopted Hindi as their official language.

Government resolutions hereafter will issue in Hindi as well.

Bihar is the Hindi-speaking State to have taken a firm decision to switch over to Hindi in all State departments with effect from Jan. 1, 1960.

HINDI EXAMINATIONS

Over 60,000 employees of the Government of India have learnt Hindi in the classes started by the Centre at 56 places in the country. There were in July 1960, 85 centres in the country to offer instruction to as many as 20,000 employees.

The Hindi Teaching Scheme worked by the Union Home Ministry is expected to cover more than three lakh employees by 1961-62.

Employees are offered three courses—Prabhodh, Praveen and Pragya—each one lasting for nine months. The medium of instruction is English.

Prabhodh, the first or elementary course, is intended for those who speak a south Indian language or English. Praveen, that is the second or middle course, is meant for those whose mother tongue is either Marathi, Gujarati, Bengali, Assamese, or other allied languages. Pragya, which is of the standard of Matriculation, is for those whose mother tongue is Punjabi, Urdu, Kashmiri, Sindhi, Pushtu or other allied languages.

Since the aim of the Government's schemes is to enable people to pass the various tests quickly, the Government employees are permitted to take the tests without joining the classes.

To encourage more employees to learn Hindi, Government grants cash awards on the result of each test in the order of merit and entries are made in service books.

On the recommendation of the Hindi Shiksha Samiti the Government of India have recognised, for purposes of employment under them, the undermentioned Hindi Examinations conducted by certain organisations (April 1960):—

Hindi Sahitya Sammelan, Allahabad: Prathma Madhyama (Visharad), Uttama (Sahitya Ratna).

Rashtrabhasha Prachar Samiti, Wardha: Parichaya, Kovid, Ratna.

Prayag Mahila Vidyapith, Allahabad: Vidushi, Saraswati.

Hindi Vidyapith, Deoghar: Praveshika, Sahityabhushan, Sahityalankar.

Travancore Hindi Prachar Sabha, Trivandrum: Pravesh, Bhooshan.

Assam Rashtrabhasha Prachar Samiti, Gauhati: Prabodh, Visharad.

Hindi Prachar Sabha, Hyderabad: Visharad, Bhushan, Vidwan.

Bombay Hindi Vidyapith: Uttama, Bhasha Ratna, Sahitya Sudhakar.

Maharashtra Rashtrabhasha Sabha, Poona: Prabodh, Pravin, Pandit.

Akhil Bharatiya Hindi Parishad, Agra: Parangat.

Manipur Hindi Parishad, Imphal: Prabodh, Visharad.

Mysore Hindi Prachar Parishat, Bangalore: Pravesh, Uttama, Ratna.

Gujrat Vidyapith, Ahmedabad: Tisri, Vinit, Sevak.

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Dakshin Bharat Hindi Prachar Sabha, Madras: Praveshika, Visharad, Praveen.

Hindustani Prachar Sabha, Bombay: Qabil, Vidwan.

REGIONAL LANGUAGES

Central grants are made to States and private institutions under the Union Scientific and Cultural Affairs Ministry's scheme for the development of modern Indian languages.

The purpose is to provide for, among other things, the preparation and publication of encyclopaedias and old manuscripts, rare books, bilingual dictionaries, popular books on science and culture, works bringing out similarities among different Indian languages on points of grammar, syntax or specialised vocabulary and for literary conferences.

The total allocation for the scheme for 1960-61 was Rs. 7·7 lakhs.

The State-wise allocations in rupees were: Andhra Pradesh 83,370; Assam 58,900; Gujarat 28,000; Kerala 24,900; Madras 2,34,942; Maharashtra 1,17,733; Mysore 83,050; Orissa 8,310; Punjab 35,293; Rajasthan 12,000; Uttar Pradesh 5,000; West Bengal 14,101 and Delhi 12,810.

The distribution on language-wise basis in rupees was: Assamese 58,900; Bengali 14,100; English 20,710; Gujarati 38,621; Kannada 90,200; Malayalam 74,900; Marathi 1,20,737; Oriya 8,310; Punjabi 35,293; Sindhi 12,000; Tamil 1,70,442; Telugu 81,095; Urdu 43,100.

Hindi and Sanskrit are not included in the programme as their development is undertaken by the Union Ministry of Education through a separate scheme.

Under the scheme of development of modern Indian languages each State Government could develop any language and not confine itself only to those languages prevailing in its area. Further, all institutions in a State, engaged in the development of a modern Indian language, other than Hindi, will be eligible for assistance although that language be not the regional language of the State.

Generally, the Centre shares 50 per cent of the expenditure incurred by the State Governments or institutions on approved scheme. In special cases, however, a cent per cent grant is permissible.

State Governments may also recommend grants to private learned institutions engaged in language development work. In such cases the grants by the Centre equal the assistance given by the State Governments.

PETROLEUM INDUSTRY

PETROLEUM consists of mixtures of hydrocarbons which are in liquid, solid or gaseous forms. Very frequently these three forms are found together but in completely different proportions in different localities. In addition, all natural crudes contain small quantities of compounds containing sulphur, nitrogen or other elements.

Because of the varying mixtures of hydrocarbons, crude oils from different sources differ widely. Thus, from some crude oils sufficient lubricating oils and waxes may be obtained while others may yield insignificant quantities of wax but huge quantities of asphaltic bitumen.

Crude oil may be divided, very broadly, into three classes:—

(1) Paraffin Base Crudes: They usually give substantial yields of paraffin wax and lubricating oils, e.g. Assam Crudes. (2) Asphaltic Base Crude: This type of crude contains little or no paraffin but asphaltic matter in large proportions, e.g. crudes from Venezuela. (3) Mixed Base Crudes: Contain both paraffin wax and asphaltic matter in quantity, e.g. crudes from the East Indies.

Crude Oil is processed in a unit called a refinery to make it yield its various components. There are hundreds of products manufactured from crude oil. In fact, today, there is hardly an industry which does not use some kind of petroleum product. To list here a few products:—

Kerosine is used as illuminant and cooking fuel. Motor Spirit and Aviation Spirit are used as fuel by automobiles and aeroplanes respectively. High Speed Diesel Oil is used by trucks and buses as fuel as the diesel engines require less volatile fuel. Furnace Oil is used in factories and textile mills as under-boiler fuel and for steam raising. Mineral Turpentine is used as base in paints and varnishes. Wax is used for manufacturing candles. Lubricants are used for lubricating machines. Bitumen is used in road-making, insulation purposes. Chemicals are used for industrial, agricultural purposes.

Demand for petroleum products in India has been steadily growing with the years. Between the years 1948 and 1960, the total inland demand excluding refinery fuel has increased from 2·24 million tons to 7·1 million metric tons, representing an annual average growth rate of 10 per cent. By 1966, it is expected that demand will be in the region of 13·9 million metric tons representing an annual growth rate of 12 per cent during the Third Plan period.

All major petroleum products have been showing a rise in consumption over the years with the exception of motor spirit for which demand declined during 1957 and 1958, but since then there has been a substantial increase in domestic consumption. In 1960 the consumption rose to 7·5 million tons. Nevertheless, there are significant differences in the rate at which growth is taking place in the consumption of individual products. Most marked increases have taken place in kerosene and diesel oils constituting what is known as the 'distillate' group.

With the growth in India's economy and rapid industrialisation, set in motion by the various five-year plans, oil consumption has steadily grown but compared with other countries the per capita consumption is still very low. The figures given below are for 1959 in imperial gallons:

U.S.A. 630, Canada 538, Sweden 364, Australia 223, Argentina 146, U.K., 165, Japan 52, Ceylon 14, India 4.

It is interesting to observe that the more petroleum products a country consumes per head of population, the more prosperous that country tends to be.

India's current production of crude oil from the Digboi area in Assam is 400,000 tons per year which is just sufficient to meet 5·71 per cent of her present requirements of petroleum products. To meet increasing demand, India therefore imported in 1960 crude oil and other petroleum products worth Rs. 98·3 crores.

The total investment in the petroleum industry in 1958 was estimated at Rs. 244 crores out of which Rs. 214 crores is foreign investment.

India's annual oil bill in foreign exchange is of the order of Rs. 100 crores and this may well increase to Rs. 150—200 crores during the Third Plan.

Today, the refining capacity available in the country is a little over 6 million tons which is entirely in the private sector. However, taking into account the estimated oil production from Assam and Gujarat and our capacity to expand the public sector refineries it is possible that total refining capacity may reach about 12 million tons roughly half of which could be based on imported crude and the rest on indigenous.

REFINERIES

The Digboi Refinery of the Assam Oil Company is as yet the only producer of finished products making use of indigenous petroleum crude.

Commissioned in 1899, the Digboi Refinery was the only refinery in India till 1954. A new gasoline plant and a new lubricating oil distillation unit were added to the refinery in 1954, at a total cost of Rs. 585 lakhs. In 1960 the refinery produced a total of 331,896 tons of finished products.

As a result of agreements between the Government of India and the oil companies concerned, Burmah-Shell and Stanvac set up refineries at Trombay (near Bombay) while the Caltex Refinery was established at Visakhapatnam. The Stanvac Refinery which has an annual capacity of about 1·8 million tons went into production in July 1954 while the Burmah-Shell Refinery, with a capacity of over 2·6 million tons, went on stream in January 1955. The Caltex Refinery started refining operations in May 1957. Its capacity is about 0·8 million tons.

Thus, during the first Five-Year Plan period, with the establishment of the Burmah-Shell and Stanvac Refineries, the installed capacity for the refining of crude increased by 3·2 million tons.

During the Second Plan the capacity of these two refineries has increased by one million tons, and the Caltex refinery with a capacity of 0·8 million tons came on stream.

BURMAH-SHELL REFINERIES LTD.

Burmah-Shell Refineries Ltd. was incorporated in India on 3rd November 1952, for the purpose of constructing and operating a petroleum oil refinery on a 450-acre plot of land in south-west Trombay—near Bombay.

The Refinery commenced operations on January 30, 1955.

The crude oil intake of the Refinery is about 2·8 million tons per annum; the crude oil comes from the Persian Gulf area.

The refinery manufactures motor spirit, kerosene, high speed diesel oil, light diesel oil, furnace oil, bitumen and liquid petroleum gas.

The total cost of the refinery was about Rs. 26 crores, and the total labour staff employed in the refinery including all categories is about 1,900.

Residential quarters for key operating staff have been provided at a short distance from the refinery, and in addition, Burmah-Shell Refineries Ltd., have paid Rs. 40 lakhs to the Bombay Government for the provision of houses for Refinery labour employees and their families in the Chembur-Ghatkopar area.

Burmah-Shell Refineries Ltd., have also provided a 10-acre recreation ground for their staff and labour employees.

CALTEX OIL REFINERY

The Caltex Oil Refinery, costing Rs. 15 crores, went into full operation in 1957 at Visakhapatnam. The products include petrol, kerosene, diesel oil and fuel oils from the Refinery's flexible two-stage crude oil distillation unit, the fluid catalytic cracking unit with gas recovery facilities, the polymer plant, the propane decarbonisation unit and treating and blending plants.

About 9,000 construction workers were employed at the site during peak period, and in operation the Refinery now has a permanent staff of about 500. It took two years to build.

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The Visakhapatnam Refinery, is one of the most modern and efficient refineries. The Refinery occupies an area as large as 515 acres, and this relaxed setting, a feature unique among Indian Refineries, makes for beauty and work comfort, besides providing scope for future expansion.

The Refinery treats crude oils both from the Middle East and Indonesia, the latter, introduced for the first time to India, having special properties. It helps to realize some of India's technological goals by meeting the specific demands of the market for petroleum products such as low-sulphur fuel, so important to the country's fast-growing steel and other industrial plants.

Extensive technical training in refinery operations were given to all Indian personnel. A number of Indians spent from three to six months' training at the Caltex Refinery, Batangas, in the Philippines. Today, key Indian personnel are sent to the United States on scheduled training programmes.

STANVAC REFINERY

The Standard-Vacuum Refining Co. of India Ltd. started construction of the refinery in December 1952 and production started in July 1954.

The refinery which is situated on Trombay Island near Bombay cost about Rs. 17·5 crores. It employs a staff of about 640, and has a designed output of 38,000 barrels (5,100 long tons) a day—about 485 million gallons (1,850,000 long tons) a year.

Generally speaking, the refinery will meet about 25 per cent of the country's needs.

Initially, the refinery was designed to process 25,000 barrels a day of crude from the Middle East. In the first half of 1959, the work on the planned expansion programme was completed. This programme included steps for increasing refinery crude processing capacity as well as for manufacturing new products such as Bitumen and Jute Batching Oil.

The Refinery started production of liquefied petroleum gas in 1958 and this is being distributed in cylinders for domestic use. Bitumen is being produced in the refinery from July 1959. Besides these products, the Refinery has plans to produce other speciality products to meet the growing needs of the country and save additional foreign exchange.

The Stanvac Refinery in Bombay has earned foreign exchange of over Rs. 19 crores through the export of motor spirit and fuel oil during the six years of its operation.

The total net saving and earnings of foreign exchange, after paying for crude imports etc., from the time the Refinery went into operation in 1954 up to the end of 1959, were more than Rs. 7·92 crores and during 1960 alone about Rs. 5·65 crores.

Negotiations are in progress with the Government for the sale of refinery gases for the manufacture of fertilisers at a projected plant nearby in Trombay.

PUBLIC SECTOR REFINERIES

Two refineries are being set up in the public sector, one at Nunmati in Assam with a 750,000 ton capacity and the other at Barauni in Bihar with a capacity of about 2 million tons. Both the refineries are designed for maximum kerosene production.

In October 1958, an agreement was concluded between the Government of India and the Rumanian People's Government for setting up the first refinery in the public sector, in Assam, at an estimated cost of about Rs. 12 crores. A suitable site has been selected at Nunmati near Gauhati, and the refinery will go on stream on the first of January 1962. It is understood that the Rumanian Government has offered a long-term credit of Rs. 5·24 crores, and technical assistance.

The Rumanian credit will cover the cost of the plant, supplies and technical services. It will bear an interest of 2½ per cent per annum. Fifteen per cent of the credit will be repayable in six instalments between the signing of the agreement and the commissioning of the refinery.

The balance of 85 per cent of the credit will be repayable in 10 instalments between December, 1961 and December, 1965.

The Rumanian Government will, as far as possible, buy Indian goods against its credit. The balance of credit not thus utilised will, however, be made convertible after April 1, 1961, but not earlier.

Under the Indo-Rumanian agreement, the Rumanian Government has undertaken to design the refinery, supply equipment and materials, provide the necessary technical assistance in construction and erection, train Indian technicians in designing, erecting and operating the refinery in Rumania, and put the refinery into operation.

The Indian Government, on its part will be responsible for selecting the refinery site, collecting the necessary data, furnishing all facilities for construction, materials, storage, transportation and drawing up the contract. It will also be responsible for the construction and erection of the refinery with the assistance and under the supervision of Rumanian engineers.

A second refinery of 2-million ton capacity is to be set up in the public sector near Barauni in Bihar with the Co-operation of the Soviet Union. Under the terms of the agreement, which was signed in September 1959, the Soviet Union will supply the entire equipment for the refinery and will be responsible for its installation. It will also provide the necessary technical skill and undertake to train Indians to take over the refinery from Russian technicians as early as possible. It is expected to be ready by mid 1962.

On the financial side, the Soviet Government has agreed to extend a long-term credit of about Rs. 12 crores for repayment in 12 equal annual instalments and carrying an interest of 2½ per cent.

A Government-owned and Government managed private limited company—Indian Refineries Limited—was incorporated on August 20, 1958, to control and manage the two proposed refineries. Its total authorised capital is Rs. 30 crores.

These refineries will be fed with crude oil from the Nahorkatiya oil-wells.

Work on the 720-mile pipeline from the Upper Assam oilfields of Oil India Private Limited to the two Government refineries at Nunmati in Assam and Barauni in Bihar has begun (Feb. 1961).

The pipeline is to be built in two stages. The first of 270 miles, as far as Nunmati, is scheduled to be completed by November 1961. The second stage of 450 miles to Barauni in the second half of 1962.

The pipeline from the oilfields to Nunmati will be of 16-inch diameter and from Nunmati to Barauni of 14-inch diameter. It is intended to convey 2·75 million tons of crude oil per year from the Nahorkatiya oilfields to Nunmati and two million tons from Nunmati to Barauni. It has, however, been designed to be able to carry, as and when required, four million tons.

The construction agency appointed by Oil India is the Burmah Oil Company (Pipelines) Limited and the main contractors are Mannesmann and Saipem, a German-Italian combine, with long experience of this type of work.

The entire 720-mile pipe line project is estimated to cost approximately Rs. 41·36 crores.

Gujarat Refinery: The proposed refinery in Gujarat will start by the end of 1963 or even earlier. Its capacity may be 1½ million to 3 million tons, depending on the oil potential in Gujarat which will be fully known by the end of 1961. The Oil and Natural Gas Commission has selected Koyali, 10 miles from Baroda main town and near Bajwa railway station for location of the refinery.

The first public sector refinery at Nunmati which will be on stream by the end of 1961, would have an annual production of approximately 40,000 tons of green petroleum coke.

OIL EXPLORATION AND POLICY

At present oil exp oration is conducted by three agencies: The Assam Oil Company, The Oil India Ltd., and the Oil and Natural Gas Commission. The fourth agency the Indo-Stanvac Project have abandoned their efforts. They were operating only in West Bengal.

Nearly 4,00,000 square miles comprising parts of the Punjab, Ganga Valley, Assam, West Bengal, Gujarat, Kutch, Rajasthan and the East and West Coasts, are considered as areas deserving exploration for petroleum.

The first two agencies operate in Assam, and the Oil Commission in the Punjab, H.P., Jammu, U.P., Rajasthan, Cambay and Kutch.

At Jwalamukhi there is a technical school conducted by Government for training in drilling which trains batches of 20 at a time.

Assam Oil Company: India's first oil-well, 102 feet deep, was drilled with a steam-powered drill, near an oil seepage at Nahar Pong in Assam in 1866. It failed to strike oil. But on 26th March 1867, oil was struck at 118 feet at Makum. A few more wells were dug but not much was done for the next twenty years.

Assam Railway and Trading Company were the pioneers in the field of exploration. Between 1890 and 1893 they drilled 4 wells varying in depth from 662 feet to 910 feet. They obtained a concession from the Government to search for oil.

Another company, Assam Oil Syndicate, also obtained a similar concession. Both the companies met with a fair measure of success. By 1898, 15 wells were dug and the crude was refined at Margherita where a small refinery was set up.

The two companies then merged and formed the Assam Oil Company. A refinery was built at Digboi with a capacity of 17,000/20,000 gallons a day.

By 1920, the Assam Oil Company completed about 80 wells. Production reached 14,000 gallons a day. Burmah Oil Company, which had achieved considerable success in Burma, now took over control of the Assam Oil Company and re-equipped Digboi with modern machinery. By 1925, well No. 125, the first large well, was drilled. Production reached 4,500 barrels a day in 1931. Assam Oil Company has drilled nearly 1,000 wells so far out of which nearly 600 are in operation now.

The first gravity survey for sub-alluvial oil prospects in India was carried out by the Assam Oil Company in Nahorkatiya in 1925, long before oilfields had been discovered by such methods anywhere in the world. Seismic survey was carried out in the area in 1938-39, but drilling operations could be undertaken only in 1952. A year later oil was struck at the first well at 11,715 feet.

To advise on the use of natural gas at Nahorkatiya an Italian firm of consultants has been appointed.

Producer wells in Nahorkatiya led to an intensive programme of geophysical surveys over the entire alluvial area of Upper Assam and in March 1956 drilling operations started in Moran. The test well struck oil in September 1956 at 13,739 feet more than 2½ miles.

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Till the end of January 1961, 86 wells had been drilled in the Nahorkatiya-Moran region, of which 68 were oil producers, 12 have turned out to be dry, while another 6 were still under test.

It is estimated that the Nahorkatiya and Moran oilfields can support a production of 2½ million tons per year and the development of the resources discovered in this area has now been taken over by Oil India Limited, a partnership between the Government of India and the Burmah Oil Company. The reserves of crude oil in Assam are estimated at 42·5 million tons. They will meet about 40 per cent of India's present requirements of about six million tons.

Oil India Private Ltd., a partnership between the Government of India and the Burmah Oil Company, was registered on February 18, 1959, in Shillong, as a Rupee Company. The headquarters of the Company is at Digboi.

Oil India has an authorised capital of Rs. 50 crores, divided into 500,000 shares of Rs. 1,000 each. Two-thirds of the share capital will be provided by the Burmah Oil Company and one-third by the Government.

This Rupee Company took over the assets of the Assam Oil Company in the Nahorkatiya, Hoogrijan and Moran areas. It will explore and exploit oil resources in the above areas. It will deliver crude oil to the two refineries to be set up in the public sector, one in Assam and the other at Barauni in Bihar. It will undertake the construction of a pipeline in two stages and its operation or such other related facilities as may be considered necessary for the transportation of crude oil up to the two refineries. Burmah Oil Company have advanced a sterling loan to the extent of £10 million to meet the foreign exchange content of the cost of the first stage of construction of the pipeline.

Besides, the British Government have granted a loan of £3 million towards pipeline construction.

Oil India has thus taken over the 48 wells that have already been drilled by Assam Oil Company. Out of these, 8 have proved to be unsuccessful and seven are to be further tested. Thirty-two wells have so far proved successful. The average depth of a well is about 10,614 feet. According to the appraisals made at the end of 1957, the proved possible reserves in this area amount to about 42 million tons.

The oil exploration work in the Andamans has revealed interesting prospects. (March 1961). The geological survey in the middle Andamans has revealed some structures which called for more work. As soon as it was completed, it was proposed to extend oil exploration in the region.

An agreement has been signed between the Government of India and the Burmah Oil Co. Ltd. covering the grant to Oil India Ltd. of approximately 1,800 sq. miles for further oil prospecting in North East Assam.

Another oilfield of substantial size has been discovered near about the small town of Kalol, 15 miles north of Ahmedabad and 80 miles from Cambay. According to official sources Gandhinagar area is likely to prove to be one of the richest oilfields in India.

The Governments of India and Gujarat would be partners in the proposed refinery to be set up in the public sector near Baroda in Gujarat. The Gujarat refinery, according to the present plans, will have a capacity of two million tons.

The Gauhati oil refinery moved a step towards commissioning on Aug. 8, 1961 with the arrival of the first train-load of crude oil from Nahorkatiya. The first ten tons of crude oil from the Ankleshwar oilfield in Gujarat State was produced on Aug. 15, 1961, Independence Day, which also marked the fifth anniversary of the Oil and Natural Gas Commission.

The production had been started ahead of schedule by nearly two months.

The daily production was to be stored at the field till the beginning of September when the first consignment of 200 tons was expected to leave for the Burmah-Shell refinery at Bombay. The supply would be stepped up to 1,500 tons a day from January 1, 1962.

Out of the 15 wells drilled in Ankleshwar, 13 were oil producing and two were dry.

The three public sector undertakings in oil have jointly set up an information bureau called the Petroleum Information Service, temporarily located as the office of the Indian Refineries Ltd., State Bank Building, Parliament Street, New Delhi. The bureau will disseminate information regarding these public sector undertakings.

OIL AND NATURAL GAS COMMISSION

The Oil & Natural Gas Commission was formed in May 1956 and functioned as a Government department till 1959 when it was converted into a statutory organisation. In the interests of efficient and expeditious progress, the Oil and Natural Gas Commission, of which the Minister for Oil is chairman, has its headquarters in Dehra Dun. About 2,000 persons are employed on its staff. The Commission has three Directorates—Geology, Geophysics and Engineering.

Survey work has been undertaken by the Commission in various parts of the country: Jwalamukhi, Janauri, Hoshiarpur in the Punjab; the Cambay and Ankleshwar areas of Gujarat; Sibsagar in Assam; various districts in U.P.; around Jailsalmer in Rajasthan; the Cauvery basin in Madras; the Muslgarh anticline in Jammu.

Of these regions, drilling is in progress in Cambay, Ankleshwar, Sibsagar, Jwalamukhi, Hoshiarpur, Janauri and Rudrasagar. In the first two of these areas, oil is reported to have been found in commercially exploitable quantities. The Cambay region is estimated to yield 50 crore tons of oil. Though oil has been found in the first test well at Rudrasagar in Assam it is too early to assess the reserves there or to come to a conclusion about the feasibility of the commercial exploitation of the field. The Commission proposes to start trial production of crude oil at the rate of approximately 1,500 tons per day from Ankleshwar oilfield only towards the end of 1961.

DISTRIBUTION

Distribution is that stage of the petroleum industry when refined products leave the refinery on their way to the customer. Inland distribution is a very big undertaking in this country. Nearly 7·1 million tons of petroleum products are now distributed annually.

Up to 1954, the petroleum products obtainable from the only indigenous source Digboi Refinery —were absorbed in Assam and part of North India. The rest of the country's requirements were imported and distributed by Burmah-Shell, Stanvac, Caltex, Indo-Burma Petroleum Company and Western India Oil Distributing Company.

With the commissioning of the two refineries in Bombay in 1954-55 and the one in Visakhapatnam in 1957 the pattern of distribution changed. Large quantities of crude are imported into Bombay and Visakhapatnam and the refined products are distributed throughout the length and breadth of the country.

Currently, refineries in India have made the country self-sufficient in most petroleum products. The exceptions are kerosene and lubricants in particular which have to be imported to meet the growing demand. On the other hand, light distilled spirit is in excess of demand and some 174,166 tons were exported during the nine months ended December 1960.

The distribution network consists of a number of large storage points called 'Installations' situated at main ports. Installations receive supplies from the refineries or direct imports from overseas. From the Installations supplies move to the interior by rail to be stored at smaller storage points called 'Depots' scattered all over the country. These Depots in turn feed the surrounding areas.

A new company has been formed in the public sector to undertake marketing and distribution of petroleum products. Registered in June 1959 it is called the Indian Oil Company, and has its headquarters in Bombay. The authorised capital of the new company is Rs. 12 crores.

A joint committee of the Government and representatives of the private oil industry has been set up by the Government of India to study problems of supply, distribution and future demand in relation to indigenous production and refining capacity. In this way, machinery has been set up for close and continuous consultation between the private and public sectors on matters of common interest. Representatives from the Ministries of Railways, Transport, Finance, Commerce and Industry, and the Planning Commission are also associated with the working of this committee.

In May 1960 it was announced that Government proposed to import a large quantity of oil at cheaper rates from various oil-producing countries and to replace the present monopoly system of distribution by either cooperatives or in association with private companies.

The Government-owned Indian Oil Company (I.O.C.) had imported till the end of July 1961 122,814,177 litres (98,215 tonnes or over 27 million gallons) of vital refined petroleum products from the U.S.S.R. since it began its import operations in August 1960.

The I.O.C. received on 5th July 1961 its ninth shipment of top-quality Soviet oil products (the first shipment was unloaded in Bombay on August 17, 1960). Consisting of 13,639,052 litres (over 30 lakhs of gallons) of the "world's finest quality" oil products (over 10 million litres of superior kerosene and over three million litres of high speed diesel oil).

The public sector's nationwide oil marketing organisation—has upto end of July 1961 received over 84 million litres (66,150 tonnes) of superior kerosene and over 38 million litres (32,065 tonnes) of high speed diesel oil in nine shipments from the Soviet Union. Payment for these imports are being made in non-convertible Indian rupees only, thereby conserving valuable foreign exchange.

The total quantity to be imported by the Indian Oil Company Ltd. against the recent agreement entered into with Soviet Export Organisation was 1.5 million metric tons during a period of four years.

Depots have been set up by the Indian Oil Company at several places in the country. Within five months from March 1961, the I.O.C. was expecting to have 35 huge storage depots in 12 States to store superior kerosene, high-speed diesel oil, aviation turbine fuel and furnace oil.

In October 1959, the Oil Companies agreed to a further reduction in the prices of petroleum products amounting roughly to Rs. 15 crores a year with effect from November 1, 1959. This reduction is in addition to the annual reduction of Rs. 10 crores that had been agreed to by them in 1958.

In addition to these Rs. 15 crores per annum, there was a further reduction of Rs. 4 crores a year due to a drop in the landed cost of the oil, assuming that there was no further upward or downward movement in the landed cost.

The latest reduction was made on an *ad hoc* basis, and the present arrangement was to remain in force till March 1961.

These price reductions have been absorbed by the Government through the levy of additional duties. Consequently the benefit of the reductions was not passed on to the consumer.

A committee has been set up under the auspices of the Council of Scientific and Industrial Research to consider ways and means of expanding research and training facilities and setting up an Institute of Petroleum Technology.

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POSTS AND TELEGRAPHS

At the head of the Department is the Director-General, who is assisted by a Posts and Telegraphs Board of which he is Chairman.

The Department is responsible for the postal, telegraph, telephone and wireless communications of the country.

For purposes of administration, the country has been divided into 13 territorial units, 12 of which are P. & T. Circles, *viz.*, Andhra, Bihar, Bombay, Central, Madras, Punjab, U.P. and West Bengal under Postmaster-General; Assam, Mysore, Orissa, Rajasthan under Directors of Posts and Telegraphs, besides a Postal Circle at Delhi under a Director of Postal Services.

Four Telephone Districts have been set up in the cities of Calcutta, Bombay, Madras and Delhi. In the case of Delhi the General Manager, Delhi Telephone District is also in-charge of the Departmental Telegraph Offices in Delhi and New Delhi.

In addition to these, administrative units on a functional basis have also been set up *viz.* Additional Chief Engineer, P. & T., Jabalpur; General Manager, P. & T. Workshops, Calcutta; Chief Controller of Telegraph Stores, Calcutta; Deputy Director of Postal Life Insurance, Calcutta; Superintendent, Forms Stores and Seals, Aligarh; Superintendent, Forms Stores, Calcutta; and Superintendent, Forms Stores, Nasik Road and Director, Electrification Circle.

The posts and telegraphs services provide employment to nearly 3.4 lakh people including extra-departmental employees.

Budget Estimates

The revised estimates for 1960-61: gross receipts: Rs. 76·90 crores; working expenses: Rs. 65·58 crores; Balance 11·32 crores.

1961-62 Budget: gross receipts: Rs. 81·00 crores; expenses: Rs. 69·43 crores.

The accumulated surplus on 1st April 1960: Rs. 29·59 crores. The total interest-bearing capital outlay: Rs. 129·79 crores.

Staff: 363,162 (including 120,724 extra departmental employees) and 1,687 Gazetted Officers (as on 31st March 1961).

Traffic Statistics (1960-61 estimates): total number of postal articles handled: 405.4 crores; no. of registered articles handled: 11·70 crores; no. of money orders issued (inland and foreign) 7.89 crores; value of money orders issued: Rs. 326.68 crores; no. of savings bank transactions: 3.30 crores; no. of telegrams: 3.99 crores; no. of telephone connections 512,000; no. of trunk calls: 3.26 crores.

The no. of complaints received during 1960 was 525,593 and of those finally disposed of was 523,457.

Hindi: Efforts continue for the propagation of Hindi. The P. & T. Staff have been allowed to join the Ministry of Home Affairs Hindi classes. More than a thousand officials have so far learnt Hindi through classes and another 2,000 officials are attending these classes. Thirty-five night schools function at present where about 450 officials have since learnt Hindi and another 300 officials are at present in these schools to learn Hindi. Facilities for booking and transmitting telegrams in Hindi and all other modern languages if writen in Devanagari characters have been extended to about 1,820 offices in the country as on December 31, 1960.

Metric System: Accounts have been maintained in the Telephone branch in the decimal system since 1st April 1958. The metric system of weight and measures has been introduced on the Engineering side on a limited scale with effect from 1st April 1959. Metric System has been introduced in the Postal Branch of the department from February 1, 1961.

Five Year Plan:

The progress during the First and Second Plans is shown below:

	First Plan	*Second Plan (Dec. 31, 1960)*
Post Offices	19,712	16,206
Telegraph Offices ..	1,465	1,153
P.C.O.'s (Long Distance)	916	905
Telephones	109,600	165,438
New Exchanges	347	448
Channel Mileage (Telephones)..	44,800	134,139
Channel Mileage (Telegraph)	63,200	90,716

POSTS

No. of post offices (31st December 1960): 74,177. As on Aug. 15, 1961: 77,000.

Number of post offices opened from 1st April to 31st Dec. 1960: 3,464 (rural 3,384; urban 80). From Jan. 1, 1961 to March 31, 1961, it was proposed to open 2,992 (rural 2,828; urban 164) post offices. Another 20,000 post offices will be opened during the Third Plan.

Number of villages receiving daily, tri-weekly, bi-weekly, weekly and over a week delivery service:

As on Dec. 1, 1959: Daily 236,554; tri-weekly 151,574; bi-weekly 164,461; weekly 88,017; over a week 16,818.

As on Dec. 1, 1960: Daily 257,826*; tri-weekly 145,340; bi-weekly 156,109; weekly 78,981; over a week 15,185.

Total no. of letter boxes on 1st Dec. 1960: 156,407 (rural 120,119; urban 36,288) as against 148,458 letter boxes on 1st Dec. 1959.

In rural areas 205 runners lines covering a total length of 3,507 kilometres were converted into various speedier modes of conveyance during the year ending 31st March 1960.

Postal insurance, total business in force (as in Dec. 1960) 35·98 crores; (civil 30·13 crores; military 5·85 crores). No. of policies: civil 1,44,481; military 8,945.

Postal life insurance: Total no. of proposals accepted from April to Dec. 1960: 4,152 (civil 3,878; military 274), with a face value of Rs. 92,26,250 (civil Rs. 77,91,750; military Rs. 14,34,500).

Commemorative Stamps† (1960-61): These were issued on the following occasions: Kalidas Jayanti (June 22, 1960; 15 nP. & Rs. 1·03); Subramania Bharati Day (Sept. 11, 1960; 15 nP.); 100th birth anniversary of Dr. M. Visvesvaraya (Sept. 15, 1960; 15 nP.); Children's Day 1960 (Nov. 14, 1960; 15 nP.); UNICEF Day (Dec. 11, 1960; 15 nP.); 114th Death Anniversary (Aradhana Day) of Muscian Saint Tyagaraja (Jan. 6, 1961; 15 nP.); First Aerial Post Golden Jubilee (Feb. 18, 1961; 5 nP., 15 nP., and Re. 1); Shivaji Jayanti (April 17, 1961; 15 nP.); Birth Centenary of Pt. Motilal Nehru (May 6, 1961; 15 nP.); Birth Centenary of Rabindranath Tagore (May 7, 1961; 15 nP.); All India Radio Silver Jubilee (June 8, 1961; 15 nP.); Birth Centenary of Dr. Prafulla Chandra Ray (August 2, 1961; 15 nP.); 101st birth anniversary of Pandit Vishnu Narayan Bhatkhande (Sept. 1, 1961; 15 nP.).

TELEGRAPHS

The total no. of telegraph offices in the country was 6,304 on 31st Dec. 1960. This excludes the licensed telegraph offices worked by the Railways and Canals. The number of offices opened from April 1 to Dec. 31, 1960 was 139.

The channel mileage of voice frequency telegraph systems in use has increased from 3,83,552 miles to 3,88,768 miles during 1960-61.

The Telex system works to its full capacity. Now it is working between Bombay and Ahmedabad only. It has been proposed to expand the capacity and also to introduce the service in New Delhi, Calcutta and Madras. International Telex service was opened between Bombay and London from 17th June, 1960 and has since been extended to 22 other foreign countries. This service is available to Telex subscribers of Bombay and Ahmedabad and also to printogram subscribers at Bombay.

It has been decided to introduce phonogram service for booking and delivery of telegrams on telephones at all stations having telephone service. In pursuance of this policy the phonogram service has been introduced at a number of Stations during the year 1960.

The system of collecting phonogram charges has been introduced in the cities of Bombay, Calcutta, Delhi and Madras with effect from Sept. 1, 1960 along with the telephone trunk call bills of the subscribers with a view to relieving the inconvenience of making payment of the phonograms at the counters.

With effect from 8th Dec. 1960 the Inland Phototelegraph Services have been introduced between New Delhi and Calcutta. This service has been hitherto available between New Delhi and Bombay.

The tape relay exchange has been introduced for the expeditious disposal of traffic functions at present for 23 circuits with a capacity for handling 13,000 messages per day. Similar modernization of telegraph offices at Calcutta, Delhi and Madras is to be taken up during the Second and Third Plans.

The number of subscribers connected to Printergram Service in Bombay is gradually increasing. The number of subscribers at present is 62. The same has been introduced at New Delhi (C.T.O.) on Dec. 16, 1960 and it is proposed to introduce printogram at Calcutta during 1961.

About 1,534 teleprinters were in service on 31st Dec. 1960. A Teleprinter factory in the country is being established in Madras.

The Indian Language telegraph service in Devanagri Script was extended to more offices during 1960-61, raising the total number of offices having such facility as on 31st Dec. 1960 to about 1,820 including 60 railway telegraph offices. The total number of such offices was expected to be about 2,000 by March 31, 1961. The number of telegrams booked in Hindi steadily increased.

For the better handling of telegraph traffic and improving the quality of the service, the larger combined telegraph offices are gradually being converted into departmental telegraph offices. Thirteen such offices were made into departmental telegraph offices during 1960-61. Now there are 149 such telegraph offices in the country.

TELEPHONES

There has been a steady progress in the implementation of extending telephone facilities to rural and undeveloped areas. Out of 333 district headquarter towns, all but 9 have telephone facilities. Among 535 sub divisional towns only 36 have still to be linked to the telephone trunk net work.

The total number of direct connections at the end of Dec. 1960 was 314,005. The number of telephones in the country increased from 419,000 to 449,070 during 1960-61. During the period 137 exchanges were expanded. The equipped capacity of the Departmental exchanges increased from 382,830 to 398,280 during the same period.

122 long distance public call offices and 202 local public call offices were opened during the period 1st April to 31st Dec. 1960. The total number of long distance P.C.Os. and local P.C.Os. as on 31st Dec. 1960 were 2,109 and 3,886 respectively.

* Daily: About 2,60,000 villages (Aug. 15, 1961). † Six more are to be issued till the end of 1961: Annual Children's Day (Nov. 14; 15 nP.); Opening of Indian Industries Fair (Nov. 14; 15 nP.); Centenary of Scientific Forestry in India (Nov. 18; 15 nP.); Centenary of Archaeological Survey of India (Dec. 14; 15 nP. & 90 nP.); Birth Centenary of Pandit Madan Mohan Malaviya (Dec. 25: 15 nP.).

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Total number of telephone exchanges as on 31st Dec. 1960 was 1,223. 83 new exchanges were opened during the period. The equipped capacity of all departmental exchanges increased from 382,830 to 398,280 lines in Dec. 1960.

The Own Your Telephone scheme introduced in Dec. 1949 is in operation in:

New Delhi, Ahmedabad, Calcutta (in Barrackpore, Bhatpara and Uttarpara exchanges only), Madras (except Mount Road, Kilpauk and Mylapore areas), Bombay (except the 24 and 26 (North) exchange areas).

In a relaxed condition it is also in operation in Delhi (Tis Hazari and Karol Bagh exchange areas), Amritsar, Nagpur, Bangalore, Hyderabad, Verawal, Calcutta (except Barrackpore, Bhatpara and Uttarpara exchange areas), Bombay (the 24 & 26 North exchange areas), Madras (Mount Road, Kilpauk and Mylapore areas) and Kanpur.

Where relaxations have been permitted, telephones are given to O.Y.T. applicants on priority over general waiting list applicants.

The total number of connections given under this scheme upto 31st Dec. 1960 was 43,023 and the total amount collected upto that date was Rs. 9,77,29,480.

The measured rate system is in force in 50 towns.

Revised local telephone tariffs have been introduced with effect from 1st April, 1960.

WIRELESS

The following Wireless services were opened during the year: 1. Wireless Telegraph circuit between Delhi and Sibsagar for the Oil and Natural Gas Commission (on 1st Sept. 1960); 2. Wireless telegraph circuit between Calcutta and Kiriburu (Orissa) for National Mineral Development Corpn.; 3. Seasonal Wireless Stations at Uttar Kashi, and Kedarnath for the pilgrims and at Nangal, Jowar, Seoni, Rampur and Bilaspur for Bhakra Dam Authorities; 4. Wireless Telegraph Station at Ghilamora (Assam); 5. Coastal Wireless Station at Visakhapatnam (opened on 23rd Nov. 1960); 6. Radio Telephone Circuit between Bombay and Mangalore.

POPULATION

Note:—**Unless otherwise stated the following article is based on the 1961 census which are the latest. The figures are provisional. The populations of talukas are not available and hence they are not given in this article.**

Preparations for the 1961 Census began in July 1958. There were six stages in the census operations beginning with the checking of the boundaries of States and Union Territories and their constituents and ending with the actual census count which ended at sunrise on March 1, 1961. The count started on the morning of February 10, 1961.

There are several areas where there were departures from the scheduled time-table. They were (1) several snow-bound areas in Jammu & Kashmir, Himachal Pradesh, Punjab and Uttar Pradesh, where the enumeration was held in September and October 1960, whereafter either checkposts were established or identity cards issued to account those migrating out of or into the censured areas; (*ii*) several 'Agency areas' in Andhra Pradesh where the count was taken in December 1960 because of the difficulties of communication administration; (*iii*) the N.E.F.A. where the census began in January 1961 and was to continue until the summer of 1961; (*iv*) Two districts of Naga Hills Tuensang Area where the census was expected to be completed in early summer of 1961 and (*v*) a small pocket in Manipur where the census was still continuing.

Thus the 1961 census will cover the whole country except portions of Jammu & Kashmir currently under the occupation of Pakistan and China. The 1951 census did not cover Jammu and Kashmir, N.E.F.A. and Nagaland.

The census closed on the evening of March 5 and the first results began to flow in on 6th March.

About a million persons were employed as census agency—both enumeration and supervisory—in about 800,000 blocks.

The population of India has registered an unprecedented increase of 21·5 per cent from 359 million in 1951 to 438 million in 1961 according to the provisional 1961 census figures.

The increase is in excess of the upper limit of all the recent projections and is seven million more than the projected population of 431 million in 1961 on which the Third Plan is based.

The number of cities with a population of more than a million has gone up from five to six or seven, the number and the order of precedence varying with the definition adopted.

URBAN DENSITY

Greater Bombay ranks first with 4·15 million and Calcutta second with 2·93 million, Delhi (including New Delhi, Shahdara and the Cantonment) third with 2·34 million, Madras fourth with 1·73 million, Hyderabad fifth with 1·25 million, and Ahmedabad sixth with 1·15 million.

If, however, the population of Calcutta (including 34 contiguous urban townships in a compact area of 164 sq. miles) is aggregated, "Greater Calcutta" ranks first with 5·55 million inhabitants. Similarly, Metropolitan Bangalore" has a population of 1·21 million.

The density of population for the country works out to 384 per square mile as against 316 in 1951.

The highest urban density is to be found in Calcutta city (75,038). This compares with 22,293 per square mile in Greater Bombay and 55,208 in Madras.

The City-Sadar-Paharganj area of Delhi, however, has a density of 143,185 persons per sq. mile and the Karolbagh-Patel Nagar area of Delhi a density of 74,195. According to the provisional census reports these two areas "can be counted in the forefront of the world's highest density areas."

SEX RATIO

The sex ratio—the number of females per 1,000 males—is now 940 as compared with 946 in 1951. There has been a steady decline in this ratio since 1901.

Another odd feature is that the sex-ratio is above unity in distinct bands of territory, especially, along the coast. The state-wise sex-ratio is also appreciably lower north of latitude 22 degrees.

Literacy has registered a small increase from 16·6 per cent in 1951 to 23·7 per cent in 1961.

The test for literacy is satisfied if a person can both read and write with understanding.

LITERACY RATE

The literacy rate is highest in Delhi, Kerala, the Andamans, Gujarat, Madras and Maharashtra in that order and lowest in Kashmir, Himachal Pradesh, Rajasthan, Madhya Pradesh, Uttar Pradesh, and Bihar in that order.

Female literacy continues to be far below male lateracy, but again, oddly enough, the coastal belt generally exhibits a higher rate of female literacy than other areas.

The actual count has not yet been completed and totalled in Manipur, NEFA, Nagaland and Sikkim. The population of the rest of the country is provisionally estimated at 436·42 million. The inclusion of the probable population of Manipur, etc. would bring the all-India total to around 438 million.

Of the enumerated population (of 436 million), 82·16 per cent is rural and 17·84 per cent urban. This compares with 82·62 per cent and 17·38 per cent in 1951.

A stricter test has been applied in the test census in the classification of urban areas and towns. The three criteria applied are: a population of not less than 5,000, a density of not less than 1,000 per square mile and the employment of not less than 75 per cent of the adult male population in non-agricultural pursuits.

PRUNING OF 'TOWNS'

The application of these tests has eliminated many areas of a pronounced rural nature which had previously passed for towns. There has consequently been a heavy pruning of "towns" with populations of under 5,000.

The urban population has, however, risen from 61·87 million in 1951 to 77·84 million in 1961, an increase of 24·85 per cent. There are now 203 cities with a population of over 100,000 (excluding figures for Kerala which are not yet available).

There has been a noticeable general decline in the sex ratio in urban areas during 1951-61. It is noteworthy, however, that the southern States of Andhra, Madras and Mysore are the only ones with a sex ratio of over 900 (Kerala figures not available)—with the single exception of Rajasthan. This indicates differences in the growth of the sociological structure of urban areas of the south and the north.

The rate of growth of population has been particularly high in Assam (34·30 per cent) and West Bengal (32·94 per cent) over the past decade.

The high increase in Assam is explained by labour immigration attracted by the plantations, mines, oil fields, and railway and road projects as well as refugees from East Pakistan.

The increase in West Bengal is similarly explained by the influx of refugees from East Pakistan, Tibet and Nepal, the exceptional increase of immigrant population in centres of railway and communications expansion and in the Calcutta-DVC industrial region.

The final report of the Census Commissioner is likely to be published in 1963.

The complete census data will include 47 main tables and some special tables including a census of scientific and technological personnel.

Highest population: Uttar Pradesh 73,752,914. Lowest population: Laccadive, Minicoy, and Amindivi Islands: 24,108.

GROWTH OF POPULATION FROM 1901-1961

Years	Persons	Variation	Percentage (Approximate)	Males	Variation	Females	Variation
1901	235,478,813	..	..	119,398,710	..	116,080,103	..
1911	248,995,434	+13,516,621	+ 5·8	126,776,506	+ 7,377,796	122,218,928	+ 6,138,825
1921	248,120,746	− 874,688	− 0·3	126,878,971	+ 102,465	121,241,775	− 977,153
1931	275,468,432	+27,347,686	+11·0	141,218,490	+14,339,519	134,249,942	+13,008,167
1941	314,804,664	+39,336,232	+14·3	161,807,097	+20,588,607	152,997,567	+18,747,625
1951	356,879,894	+42,074,730	+13·4	183,333,874	+21,526,777	173,545,520	+20,547,953
1961	436,424,429	+77,207,524	+21.49	224,957,948	+41,624,074	211,466,481	+37,920,961

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POPULATION BY STATE (1911-1961)

	1911	1921	1931	1941	1951	1961
Andhra Pradesh	21,447,481	21,420,514	24,203,573	27,289,340	31,115,259	35,977,998
Assam	4,333,826	5,157,789	6,165,612	7,403,396	8,830,732	11,860,059
Bihar	28,315,024	28,127,283	31,347,810	35,171,869	38,783,778	46,457,042
Gujarat	9,803,095	10,174,465	11,489,275	13,701,901	16,262,657	20,621,283
Jammu & Kashmir	2,326,155	2,455,864	2,706,551	2,948,106	3,265,846[3]	3,583,585
Kerala	7,147,673	1,802,127	9,507,050	11,031,541	13,549,118	16,875,199
Madhya Pradesh	19,440,965	19,171,750	21,355,657	23,990,608	26,071,637	32,394,375
Madras	20,902,616	21,628,518	23,472,099	26,267,507	30,119,047	33,650,917
Maharashtra	21,475,015	20,850,190	23,959,853	26,832,408	32,002,564	39,504,294
Mysore	13,525,182	13,377,533	14,632,992	16,255,368	19,401,956	23,547,081
Orissa	11,378,875	11,158,586	12,491,056	13,767,988	14,645,946	17,565,645
Punjab	11,945,019	12,465,009	13,666,876	16,101,189	16,134,890	20,298,151
Rajasthan	10,983,509	10,292,648	11,747,974	13,863,859	15,970,774	20,146,173
Uttar Pradesh	48,152.273	46,669,865	49,776,754	56,531,848	63,215,742	73,752,914
W. Bengal	18,000,661	17,476,273	18,899,118	23,231,829	26,302,386	34,967,634
Andaman & Nicobar Islands	26,459	27,086	29,463	33,768	30,971	63,438
Delhi	413,851	488,452	636,246	917,939	1,744,072	2,644,058
Himachal Pradesh	876,562	890,046	954,276	1,057,711	1,109,466	1,348,982
Laccadive, Minicoy and Amindivi Islands	14,555	13,637	16,040	18,355	21,035	24,108
Tripura	229,613	304,437	382,450	513,010	639,029	1,141,492

Note: [1] Manipur, N.H.T.A. (Nagaland) and N.E.F.A. are not included in the table as enumeration has not yet been completed in these areas. [2] Population of each State or Union Territory has been adjusted as close as practicable to its present area and limits following the merger and reorganization of States (1956). Figures for 1961 are provisional. [3] The last census of Jammu & Kashmir was held in 1941. For estimating the 1951 population the increase between 1941-51 has been taken on the mean of the increase between 1941-61.

POPULATION, AREA, DENSITY BY STATE

The following table gives the population, area, etc., of the States and Territories forming the Indian Union:

	Area in sq. miles	Population	Density of population
INDIA	1,127,345	436,424,429	384@
STATES			
Andhra Pradesh	106,052	35,977,999	339
Assam	47,098	11,860,059	252
Bihar	67,198	46,457,042	691
Gujarat	72,154	20,621,283	286
Jammu and Kashmir	N.A.	3,583,585	N.A.
Kerala	15,003	16,875,199	1,125
Madhya Pradesh	171,210	32,394,375	189
Madras	50,132	33,650,917	671
Maharashtra	118,884	39,504,294	332
Mysore	74,122	23,547,081	318
Orissa	60,162	17,565,645	292
Punjab	47,084	20,298,151	431
Rajasthan	132,150	20,146,173	152
Uttar Pradesh	113,454	73,752,914	650
West Bengal	33,928	34,967,634	1,031
TERRITORIES			
Andamans	3,215	63,438	20
Delhi	573	2,644,058	4,614
Himachal Pradesh	10,879	1,348,982	124
Laccadives	11	24,108	2,192
Tripura	4,036	1,141,492	283

Note: Manipur, N.H.T.A. (Nagaland) and N.E.F.A. are not included in the table as enumeration has not yet been completed in these areas. @ Excludes Jammu & Kashmir State.

Rural and Urban Population: The first figure shows rural population and the second urban: *States*: Andhra Pradesh 29,716,869; 6,261,130; Assam 10,970,979; 889,080; Bihar 42,541,742; 3,915,300; Gujarat 15,340,833; 5,280,450; Jammu & Kashmir 2,981,627; 601,958; Kerala 14,339,625; 2,535,574; Madhya Pradesh 27,765,099; 4,629,276; Madras 24,659,599; 8,991,318; Maharashtra 28,475,442; 11,028,852; Mysore 18,359,976; 5,187,105; Orissa 16,454,587; 1,111,058; Punjab 16,219,051; 4,079,100; Rajasthan 16,912,958; 3,233,215; Uttar Pradesh 64,276,196; 9,476,118; West Bengal 26,872,049; 8,095,585.

Territories:—Andaman and Nicobar Islands 49,339; 14,099; Delhi 300,007; 2,344,051; Himachal Pradesh 1,285,171; 63,811; Laccadive, Minicoy and Amindivi Islands 24,108; Nil; Tripura 1,038,672; 102,820.

(Manipur, N.H.T.A. (Nagaland) and N.E.F.A. are not included in the above statement as figures are not available.)

RURAL AND URBAN POPULATION

It should be pointed out here that whether an area is urban or rural depends on a number of factors of which population is only one. Also these factors vary from State to State.

The rural and urban population grew as follows:

	Percentage	
	Rural	Urban
1921	88·6	11·4
1931	87·9	12·1
1941	86·1	13·9
1951	82·7	17·3
1961	82·16	17·84

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DECENNIAL PERCENTAGE VARIATION (+) (−)

	1901-11	1911-21	1921-31	1931-41	1941-51	1951-61
India	5·69	−0·31	11·00	14·23	13·34	21·49
Andhra Pradesh	12·49	−0·13	12·99	12·75	14·02	15·63
Assam	16·73	19·01	19·54	20·08	19·28	34·30
Bihar	3·67	−0·66	11·45	12·20	10·27	19·78
Gujarat	7·79	3·79	12·92	19·26	18·69	26·80
Jammu & Kashmir*	—	5·58	10·21	8·92	10·78	9·73
Kerala	11·75	9·16	21·85	16·04	22·82	24·55
Madhya Pradesh	15·30	−1·38	11·39	12·34	8·67	24·25
Madras	8·57	3·47	8·52	11·91	14·66	11·73
Maharashtra	10·74	−2·91	14·91	11·99	19·27	23·44
Mysore	3·60	−1·09	9·38	11·09	19·36	21·36
Orissa	10·44	−1·94	11·94	10·22	6·38	19·94
Punjab	−9·96	4·35	9·64	17·81	0·21	25·80
Rajasthan	6·70	−6·29	11·14	18·01	15·20	26·14
Uttar Pradesh	−0·97	−3·08	6·66	13·57	11·82	16·67
West Bengal	6·25	−2·91	8·14	22·93	13·22	32·94
Andaman & Nicobar Islands	7·34	2·37	8·78	14·61	−8·28	104·83
Delhi	1·98	18·03	30·26	44·27	90·00	51·60
Himachal Pradesh	3·82	1·54	7·22	10·84	4·89	21·59
Laccadive, Minicoy & Amindivi Islands	4·85	−6·31	17·62	14·43	14·60	14·61
Tripura	32·48	32·59	25·63	34·14	24·56	78·63

* Percentage increase for 1941-61.

Cities with a population over one million each in 1961

Andhra Pradesh: Hyderabad 1,252,337; Gujarat: Ahmedabad 1,149,852; Madras: Madras 1,725,216; Maharashtra: Greater Bombay 4,146,491; West Bengal: Calcutta 2,926,498.

Cities of Population 100,000 and over in each State for 1961

(Figures for Kerala State have not been included.)

States and Cities	Population	Percentage increase 1951-61	Sex Ratio
Andhra Pradesh:			
Hyderabad	1,252,337	15·35	928
Vijayawada	233,634	44·94	940
Guntur	187,068	49·35	979
Visakhapatnam	181,683	68·16	920
Warangal	156,163	17·63	930
Rajahmundry	130,030	23·41	983
Kakinada	122,655	22·71	973
Eluru	108,367	24·26	1,004
Nellur	106,797	31·07	934
Bandar (Masulipatnam)	101,396	30·07	948
Kurnool	100,849	67·46	939
Assam:			
Gauhati	100,702	130·89	530
Bihar:			
Patna	362,817	27·99	771
Jamshedpur	332,134	52·24	779
Gaya	150,884	12·85	834
Bhagalpur	143,994	25·73	817
Ranchi	139,437	30·50	785
Muzaffarpur	108,759	47·78	696
Darbhanga	103,106	21·56	868
Gujarat:			
Ahmedabad	1,149,852	45·86	N.A.
Baroda	295,304	39·69	N.A.
Surat	288,167	29·12	N.A.
Rajkot	194,510	47·28	N.A.
Bhavnagar	177,488	28·66	N.A.
Jamnagar	147,420	41·18	N.A.
Jammu & Kashmir:			
Srinagar	284,753	37·04*	867
Jammu	108,562	115·49	789
Madhya Pradesh:			
Indore	395,035	27·08	847
Jabalpur	367,215	42·89	807
Gwalior	300,513	24·40	848
Bhopal	225,460	120·32	767
Ujjain	144,996	11·69	876
Raipur	139,983	55·88	883
Durg (including Bhilai)	133,371	558·65	589
Sagar	104,680	30·74	856
Madras:			
Madras	1,725,216	21·83	902
Madurai	424,975	17·47	951
Coimbatore	285,263	44·25	886
Tiruchirapalli	249,933	14·17	943
Salem	249,084	23·10	954
Tuticorin	124,273	25·70	970
Vellore	113,580	7·13	981
Tanjore	110,968	10·22	979
Nagercoil	106,497	34·32	990
Maharashtra:			
Greater Bombay	4,146,491	38·47	663
Poona	721,134	49·93	868
Nagpur	643,186	43·22	884
Sholapur	337,544	21·82	899
Kolhapur	187,306	36·88	879
Amravati	137,847	58·26	849
Nasik	130,834	34·82	922
Malegaon	121,427	120·69	892
Ahmednagar	118,266	46·24	889
Akola	115,820	29·25	851
Ulhasnagar	107,758	33·26	909
Thana	101,103	101·58	768

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Cities of Population 100,000 and over in each State for 1961—*Contd.*

States and Cities	Population	Percentage increase 1951-61	Sex Ratio
Mysore :			
Bangalore	907,627	16·32	875
Mysore	253,524	3·77	905
Hubli	170,163	31·29	902
Kolar Gold Field	146,200	8·10	977
Mangalore	142,231	21·48	971
Belgaum	126,727	47·38	907
Orissa :			
Cuttack	146,590	43·01	725
Punjab :			
Amritsar	375,542	15·29	801
Ludhiana	244,238	58·81	828
Jullundur	221,952	31·48	847
Patiala	124,948	27·67	793
Ambala	105,507	12·19	724
Rajasthan :			
Jaipur	402,760	38·34	855
Ajmer	230,999	17·48	886
Jodhpur	224,723	24·35	1,182
Bikaner	150,494	28·50	881
Kotah	119,845	84·07	825
Udaipur	111,182	24·06	846
Uttar Pradesh :			
Kanpur	947,793	34·37	738
Lucknow	662,196	33·28	789
Varanasi	573,558	61·21	843
Agra	509,108	35·52	825
Allahabad	431,007	29·71	778
Meerut	283,878	21·74	803
Bareilly	273,204	31·30	841
Moradabad	198,081	22·38	857
Saharanpur	185,019	24·65	820
Aligarh	183,753	29·75	826
Gorakhpur	179,774	35·74	754
Jhansi	170,209	33·64	843
Dehra Dun	158,599	9·97	759
Rampur	135,566	0·96	849
Mathura	125,808	18·94	817
Shahjahanpur	117,225	11·82	866
Mirzapur	100,127	15·72	885
West Bengal:			
Calcutta	2,926,498	8·40	613
Howrah	514,090	18·60	636
South Suburbs	185,600	78·40	820
Bhatpara	147,725	9·50	578
Kharagpur	147,561	13·80	813
Garden Reach	130,675	19·70	650
Kamarhati	125,312	62·20	659
South Dum Dum	111,507	81·60	787
Burdwan	107,881	43·10	794
Baranagar	107,542	39·40	770
Asansol	103,659	35·90	665
Bally	102,285	62·00	526

Population, Area, Density per sq. mile, Sex ratio and Literacy of States and Districts in each State

States and Districts	Area in square miles	Population			No. of persons per sq. mile	No. of females per 1,000 males	Percentage increase since 1951	Literate		
		Total	Male	Female				No. of persons to 1,000 persons	No. of males to 1,000 males	No. of females to 1,000 females
Andhra Pradesh	106,052	35,977,999	18,175,349	17,802,650	339	980	15·63	208	297	118
Adilabad	6,236	1,009,301	509,697	499,604	162	980	21·37	115	184	44
Anantapur	7,385	1,764,223	906,655	857,568	239	946	18·92	201	310	85
Chittoor	5,908	1,913,169	977,809	935,360	324	957	14·82	206	311	96
Cuddapah	5,924	1,342,140	685,986	656,154	227	957	15·41	216	334	92
East Godavari	5,773	2,609,311	1,307,003	1,302,308	452	996	13·36	258	331	185
Guntur	5,795	3,009,997	1,522,881	1,487,116	519	977	17·58	274	370	175
Hyderabad	1,957	2,063,601	1,067,662	995,939	1,054	933	13·28	341	443	232
Karimnagar	4,565	1,620,417	812,377	808,040	355	995	13·46	126	207	44
Khammam	4,600	1,057,225	540,312	516,913	230	957	30·84	151	218	80
Krishna	3,502	2,076,103	1,058,113	1,017,990	593	962	19·56	310	385	231
Kurnool	9,277	1,909,644	965,131	944,513	206	979	18·06	211	326	94
Mahbubnagar	7,390	1,590,689	794,054	796,635	215	1,003	9·93	133	214	53
Medak	4,250	1,226,465	614,779	611,686	289	995	10·52	137	229	45
Nalgonda	5,351	1,574,797	808,232	766,565	294	948	22·35	129	201	55
Nellore	7,954	2,033,963	1,018,504	1,015,459	256	997	13·34	206	294	118
Nizamabad	3,112	1,021,503	509,485	512,018	328	1,005	22·30	141	227	56
Srikakulam	3,901	2,342,291	1,150,872	1,191,419	600	1,035	10·32	153	243	66
Visakhapatnam	5,200	2,288,976	1,141,752	1,147,224	440	1,005	10·43	169	247	90
Warangal	4,984	1,545,750	791,156	754,594	310	954	16·24	152	234	65
West Godavari	2,988	1,978,434	992,889	985,545	662	993	16·53	303	375	230
Assam State	47,098	11,860,059	6,318,229	5,541,830	252	877	34·30	258	355	146
Cachar	2,688	1,381,566	722,914	658,652	514	911	23·81	278	394	151
Darrang	3,369	1,289,650	694,644	595,006	383	857	39·64	209	296	107
Garo Hills	3,149	306,836	158,635	148,201	97	934	26·75	167	219	112
Goalpara	3,983	1,533,841	805,548	728,293	385	904	38·42	200	291	99
Kamrup	3,804	2,063,845	1,111,863	951,982	542	856	38·48	259	371	127
Lakhimpur	4,926	1,559,352	850,581	708,771	317	833	38·45	265	365	146
Mizo Hills	8,134	263,877	131,349	132,528	32	1,009	34·49	437	528	346
Nowgong	2,167	1,205,340	642,303	563,037	556	877	35·90	245	337	140
Sibsagar	3,453	1,513,526	811,695	701,831	438	865	24·86	328	433	207
United Khasi and Jaintia Hills	5,546	462,870	239,776	223,094	83	930	27·30	306	361	247
United Mikir and North Cachar Hill	5,878	279,356	148,921	130,435	48	876	68·86	168	250	74

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Population, Area, Density per sq. mile, Sex ratio and Literacy of States and Districts in each State.—*Contd.*

States and Districts	Area in square miles	Population			No. of persons per sq. mile	No. of females per 1,000 males	Percentage increase since 1951	Literate		
		Total	Male	Female				No. of persons to 1,000 persons	No. of males to 1,000 males	No. of females to 1,000 females
Bihar	67,198	46,457,042	23,328,178	23,128,864	691	992	19·78	182	296	68
Bhagalpur	2,179	1,715,128	878,166	836,962	787	953	20·02	199	308	85
Champaran	3,553	3,009,841	1,520,154	1,489,687	847	930	19·66	130	214	45
Darbhanga	3,345	4,442,363	2,150,081	2,272,282	1,322	1,057	17·32	168	265	58
Dhanbad	1,114	1,158,363	647,335	511,028	1,040	789	27·89	255	372	106
Gaya	4,766	3,647,268	1,819,561	1,827,707	765	1,005	18·78	193	316	70
Hazaribagh	7,010	2,394,317	1,203,317	1,191,000	342	990	23·60	145	244	45
Monghyr	3,975	3,384,897	1,704,520	1,680,377	852	936	18·80	187	300	73
Muzaffarpur	3,018	4,116,320	2,014,710	2,101,610	1,364	1,043	16·92	171	282	65
Palamau	4,931	1,187,914	599,764	588,150	241	987	20·51	134	226	40
Patna	2,164	2,942,614	1,520,017	1,422,597	1,360	936	16·39	284	430	127
Purnea	4,257	3,087,428	1,605,856	1,481,572	725	923	37·09	158	253	55
Ranchi	7,133	2,133,180	1,075,476	1,057,704	299	984	15·57	188	286	89
Saharsa	2,088	1,722,549	886,015	836,534	825	944	31·67	138	231	39
Santal Parganas	5,470	2,674,354	1,351,598	1,322,756	489	979	15·17	145	239	48
Saran	2,669	3,585,531	1,682,098	1,903,433	1,343	1,132	13·64	182	325	57
Shahabad	4,404	3,222,476	1,621,830	1,600,646	732	987	19·86	215	356	72
Singhbhum	5,122	2,052,499	1,047,680	1,004,819	401	959	20·69	223	339	17
Gujarat	72,154	20,621,283	10,636,470	9,984,813	286	939	26·80	303	408	191
Ahmedabad	3,461	2,231,534	1,200,287	1,031,247	645	859	33·17	416	523	292
Amreli	1,543	667,387	340,850	326,537	433	958	24·01	288	385	187
Banaskantha	4,039	995,980	512,571	483,409	247	943	28·70	125	201	45
Baroda	2,955	1,527,044	801,262	725,782	517	906	26·00	352	458	235
Bhavnagar	4,652	1,116,206	576,789	539,417	240	935	26·03	271	377	158
Broach	2,981	892,241	458,260	433,981	299	947	24·35	342	464	213
Dangs	689	71,589	37,450	34,139	104	912	51·41	88	122	50
Jamnagar	3,943	824,725	422,484	402,241	209	952	33·69	264	360	163
Junagadh	3,966	1,244,086	638,435	605,651	314	949	25·94	242	350	128
Kaira	2,621	1,974,351	1,038,789	935,562	753	901	22·45	361	482	227
Kutch	17,042	695,704	342,290	353,414	41	1,032	22·57	248	331	163
Mehsana	4,324	1,685,090	856,368	828,722	390	968	20·92	338	453	219
Panchmahals	3,486	1,467,485	756,579	710,906	421	940	29·72	191	288	88
Rajkot	4,588	1,209,004	616,633	592,371	264	961	30·00	317	423	207
Sabarkantha	2,845	917,809	470,286	447,523	323	952	34·18	238	358	112
Surat	4,790	2,438,740	1,226,107	1,212,633	509	989	23·02	342	440	243
Surendranagar	4,230	662,308	341,030	321,278	157	942	30·80	242	335	143
Jammu & Kashmir	N.A.	3,583,585	1,902,902	1,680,683	N.A.	883	21·56	107	164	42
Anantnag	N.A.	649,021	347,036	301,985	N.A.	870	23·28	78	133	14
Baramulla	N.A.	602,273	322,120	280,153	N.A.	870	19·16	74	125	15
Doda	N.A.	270,037	142,068	127,969	N.A.	901	33·93	80	137	17
Jammu	N.A.	547,348	288,630	258,718	N.A.	896	27·67	181	247	106
Kathua	N.A.	207,415	108,877	98,538	N.A.	905	16·74	109	169	43
Ladakh	N.A.	88,004	44,352	43,652	N.A.	984	15·75	77	143	9
Poonch-Rajouri	N.A.	327,560	172,890	154,670	N.A.	895	1·27	79	133	29
Srinagar	N.A.	632,568	341,628	290,940	N.A.	852	27·53	140	199	70
Udhampur	N.A.	259,359	135,301	124,058	N.A.	917	21·93	87	133	38
Kerala State	15,003	16,875,199	8,345,897	8,529,302	1,125	1,022	24·55	462	542	384
Alleppey	711	1,809,530	893,023	916,507	2,545	1,026	18·95	562	631	496
Cannanore	2,741	1,779,852	874,896	904,956	649	1,034	29·44	407	512	306
Ernakulam	1,266	1,858,440	930,876	927,564	1,468	996	21·46	499	570	428
Kottayam	2,322	1,730,436	881,440	848,996	745	963	30·34	562	619	502
Kozhikode	2,042	2,619,283	1,300,379	1,318,904	1,263	1,014	26·82	396	496	297
Palghat	1,982	1,775,477	831,239	924,238	896	1,086	13·44	336	415	262
Quilon	1,942	1,929,845	964,973	964,872	994	1,000	30·93	498	570	425
Trichur	1,149	1,634,251	782,508	851,743	1,422	1,089	19·93	480	546	419
Trivandrum	847	1,738,085	866,563	871,522	2,052	1,006	30·90	449	528	371
Madhya Pradesh	171,210	32,394,375	16,598,526	15,795,849	189	952	24·25	169	267	66
Balaghat	3,573	806,620	401,520	405,100	226	1,009	16·33	204	339	71
Bastar	15,124	1,167,810	582,962	584,848	77	1,003	27·80	67	113	21
Betul	3,884	560,356	281,034	279,322	144	994	24·07	166	270	61
Bhind	1,723	641,226	346,776	294,450	372	849	21·45	174	278	51
Bilaspur	7,615	2,022,072	999,561	1,022,511	266	1,023	15·81	180	303	60
Chhatarpur	3,380	587,611	310,682	276,929	174	891	22·13	112	179	35
Chhindwara	4,565	786,596	397,952	388,644	172	977	21·68	164	258	69
Damoh	2,827	439,049	223,577	215,472	155	964	22·82	163	287	75
Datia	782	200,502	105,697	94,805	256	897	22·02	146	242	40
Dewas	2,706	447,090	230,828	216,262	165	937	29·48	162	264	54
Dhar	3,150	643,601	327,972	315,630	204	962	27·71	130	207	49
Durg	7,576	1,885,906	946,983	938,923	249	992	27·28	181	298	64
Guna	4,271	593,543	312,430	281,113	139	900	23·17	135	217	44
Gwalior	2,002	658,126	354,417	303,709	329	857	24·10	277	388	146
Hoshangabad	3,867	628,656	326,626	302,030	163	925	23·56	228	345	102
Indore	1,479	753,775	400,948	352,827	510	880	25·41	377	496	241

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Population, Area, Density per sq. mile, Sex Ratio and Literacy of States and Districts in each State—*Contd.*

States and Districts	Area in square miles	Population			No. of persons per sq. mile	No. of females per 1,000 males	Percentage increase since 1951	Literate		
		Total	Male	Female				No. of persons to 1,000 persons	No. of males to 1,000 males	No. of females to 1,000 females
Jabalpore	3,918	1,274,497	662,842	611,655	325	923	21·89	280	400	149
Jhabua	2,616	515,098	263,105	251,993	197	958	34·61	58	86	29
Mandla	5,127	684,475	341,546	342,929	134	1,004	24·99	142	234	50
Mandsaur	3,966	752,822	391,102	361,720	190	925	24·10	221	352	80
Morena	4,489	780,172	424,336	355,836	174	839	23·14	152	245	42
Narsimhapur	1,979	412,387	211,362	201,025	208	951	21·61	215	324	100
Nimar (East)	4,132	685,492	353,410	332,082	166	940	30·95	239	357	113
Nimar (West)	5,202	991,152	506,856	484,296	191	956	30·64	146	234	55
Panna	2,716	331,383	170,927	160,456	122	939	27·62	110	183	32
Raigarh	5,064	1,042,400	518,079	524,321	206	1,012	22·19	148	248	48
Raipur	8,214	2,003,446	985,991	1,017,455	244	1,032	22·16	183	306	64
Raisen	3,272	411,935	216,122	195,813	126	906	30·62	133	212	46
Rajgarh	2,383	517,837	270,144	247,693	217	917	21·12	100	164	27
Ratlam	1,727	494,004	259,303	234,701	280	941	26·80	205	305	99
Rewa	2,509	772,413	388,955	383,458	308	986	21·87	148	259	35
Sagar	3,961	797,055	415,533	381,522	201	918	25·29	201	300	92
Satna	2,823	694,957	353,801	341,156	246	964	25·32	155	262	43
Sehore	3,600	755,017	405,577	349,440	210	862	44·88	212	298	112
Seoni	3,376	524,019	261,272	262,747	155	1,006	20·72	145	225	65
Shahdol	5,412	830,166	424,567	405,599	153	955	27·57	103	174	28
Shajapur	2,388	526,211	271,065	255,146	220	941	21·47	143	238	44
Shivpuri	3,986	558,333	294,765	263,568	140	894	17·27	115	190	31
Sidhi	4,060	580,725	294,182	286,543	143	974	25·07	77	141	11
Surguja	8,623	1,036,669	529,943	506,726	120	956	26·11	90	151	26
Tikamgarh	1,943	456,119	239,268	216,851	235	906	24·57	96	159	28
Ujjain	2,360	662,850	345,009	317,841	281	921	22·00	229	338	109
Vidisha (Bhilsa)	2,839	490,200	259,498	230,702	173	889	26·97	133	209	48
Madras	50,132	33,650,917	16,915,454	16,735,463	671	989	11·73	302	430	173
Arcot (North)	4,674	3,141,983	1,580,023	1,561,960	672	989	8·36	237	357	115
Arcot (South)	4,294	3,041,120	1,533,815	1,507,305	723	983	9·52	242	375	106
Chingleput	3,065	2,193,721	1,120,146	1,073,575	716	958	12·03	268	388	144
Coimbatore	6,018	3,541,401	1,802,585	1,738,816	588	965	12·27	294	421	162
Kanyakumari	643	996,852	504,013	492,839	1,550	978	20·63	481	556	404
Madurai	4,910	3,204,866	1,606,809	1,598,057	653	995	10·83	323	466	178
Madras	49	1,725,216	907,269	817,947	35,208	902	21·83	588	690	476
Nilgiris	984	409,440	213,926	195,514	653	995	10·83	323	466	178
Ramanathapuram	4,849	2,420,943	1,176,371	1,244,572	499	1,058	16·29	313	472	163
Salem	7,063	3,826,349	1,946,374	1,879,975	542	966	13·51	184	275	90
Thanjavur	3,740	3,249,960	1,612,973	1,636,987	869	1,015	8·96	326	474	179
Tiruchirapalli	5,514	3,169,599	1,580,243	1,589,356	575	1,006	7·67	286	429	143
Tirunelveli	4,419	2,729,467	1,330,907	1,398,560	618	1,051	8·96	354	488	227
Maharashtra	118,884	39,504,294	20,419,059	19,085,235	332	935	23·44	297	418	167
Ahmednagar	6,591	1,771,066	903,993	867,073	269	959	25·53	264	392	130
Akola	4,095	1,185,676	612,275	573,401	290	937	24·68	312	447	167
Amravati	4,723	1,231,622	636,714	594,908	261	934	19·44	336	458	205
Aurangabad	6,314	1,531,457	781,876	749,581	243	959	29·85	177	284	65
Bhandara	3,582	1,248,519	624,998	623,521	349	998	16·50	242	402	82
Bhir	4,261	1,001,105	509,008	492,097	235	967	21·19	148	242	52
Buldana	3,751	1,062,391	543,228	519,163	283	956	22·09	468	409	121
Chanda	9,200	1,238,701	624,007	614,694	135	985	17·64	171	284	57
Dhulia	5,072	1,350,143	687,023	663,120	266	965	27·34	248	369	122
Greater Bombay	186	4,146,491	2,493,234	1,653,257	22,293	663	38·47	585	649	488
Jalgaon	4,575	1,765,461	904,426	861,035	386	952	19·99	338	490	180
Kolaba	2,723	1,058,892	515,367	543,525	389	1,055	16·48	245	362	134
Kolhapur	3,205	1,598,400	813,372	785,028	499	965	22·20	262	399	120
Nagpur	3,842	1,511,187	783,736	727,451	393	928	22·41	350	479	212
Nanded	4,805	1,080,113	549,335	530,778	225	966	22·25	150	247	51
Nasik	6,021	1,854,396	953,743	900,653	308	944	29·69	268	392	137
Osmanabad	5,532	1,475,044	757,674	717,370	267	947	21·90	169	274	59
Parbhani	4,853	1,206,368	612,928	593,440	249	968	19·34	152	250	51
Poona	6,032	2,645,080	1,269,176	1,195,904	409	942	26·35	342	461	216
Ratnagiri	5,013	1,824,343	816,546	1,007,797	364	1,234	6·56	283	418	175
Sangli	3,297	1,229,640	628,607	601,033	373	956	23·16	279	416	135
Satara	4,041	1,427,020	696,064	730,956	353	1,050	21·24	339	473	211
Sholapur	5,811	1,858,512	960,589	897,923	320	935	23·46	250	367	125
Thana	3,683	1,653,327	862,425	790,902	449	917	28·91	306	411	191
Wardha	2,429	631,367	321,728	309,639	260	962	17·16	303	433	169
Yeotmal	5,246	1,097,973	556,987	540,989	209	971	17·81	234	353	112
Mysore	74,122	23,547,081	12,021,248	11,525,833	318	959	21·36	253	360	142
Bangalore	3,081	2,505,598	1,306,572	1,199,026	813	918	17·80	342	443	232
Belgaum	5,091	1,979,244	1,014,423	964,821	389	951	20·22	259	377	135
Bellary	3,825	914,284	466,333	447,951	239	961	18·17	206	318	90
Bidar	2,072	656,590	332,853	323,737	317	973	18·81	143	238	46

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States and Districts	Area in square miles	Population			No. of persons per sq. mile	No. of females per 1,000 males	Percentage increase since 1951	Literate		
		Total	Male	Female				No. of persons to 1,000 persons	No. of males to 1,000 males	No. of females to 1,000 females
Bijapur	6,590	1,658,453	839,455	818,998	252	976	18·78	244	379	106
Chikmagalur	2,787	595,849	313,323	282,526	214	902	42·71	275	375	163
Chitradurga	4,185	1,094,128	564,256	529,872	261	939	26·00	250	366	126
Coorg	1,591	321,516	172,514	149,002	202	864	40·15	363	433	281
Dharwar	5,303	1,950,540	1,000,624	949,916	368	949	23·81	333	473	186
Gulbarga	6,348	1,391,845	698,221	693,624	219	993	14·84	145	238	50
Hassan	2,638	893,379	454,292	439,087	339	967	24·92	242	353	128
Kanara (North)	3,965	689,392	354,065	335,327	174	947	33·14	332	431	228
Kanara (South)	3,250	1,562,699	750,588	812,111	481	1,082	17·42	323	413	240
Kolar	3,188	1,291,222	656,259	634,963	405	968	14·28	212	307	113
Mandya	1,917	898,553	457,070	441,483	469	966	25·23	172	263	78
Mysore	4,622	1,669,874	856,061	813,813	361	951	17·29	212	293	126
Raichur	5,508	1,092,470	549,023	543,447	198	990	14·56	155	259	50
Shimoga	4,066	1,014,723	535,334	479,389	250	896	52·98	281	383	166
Tumkur	4,096	1,366,722	699,982	666,740	334	953	18·70	225	337	107
Orissa	60,162	17,565,645	8,772,194	8,793,451	292	1,002	19·94	215	344	86
Balasore	2,495	1,415,812	717,648	698,164	567	973	28·01	292	453	127
Bolangir	3,440	1,070,016	534,560	535,456	311	1,002	16·58	144	247	40
Cuttack	4,237	3,064,474	1,532,239	1,532,235	723	1,000	21·16	302	458	145
Dhenkanal	4,181	1,030,632	517,216	513,416	247	993	22·81	232	386	77
Ganjam	4,825	1,873,655	898,566	975,089	388	1,085	15·31	210	350	80
Kalahandi	5,099	1,009,490	499,688	509,802	198	1,020	17·55	108	192	25
Keonjhar	3,208	745,893	376,620	369,273	233	981	26·76	171	285	54
Koraput	9,864	1,498,219	752,385	745,834	152	991	18·01	81	134	28
Mayurbhanj	4,022	1,209,097	604,546	604,551	301	1,000	17·52	141	239	44
Phulbhani	4,276	514,362	255,693	258,669	120	1,012	12·58	175	311	41
Puri	4,002	1,865,834	931,331	934,503	466	1,003	18·67	293	456	131
Sambalpur	6,764	1,508,721	755,793	752,928	223	996	15·89	227	367	87
Sundargarh	3,751	759,440	395,909	363,531	202	918	37·53	194	301	58
Punjab	47,084	20,298,151	10,866,910	9,431,241	431	868	25.80	237	324	137
Ambala	1,967	1,372,193	755,936	616,257	698	815	34.89	297	382	194
Amritsar	1,940	1,547,241	824,907	722,334	798	876	13.18	284	361	195
Bhatinda	2,253	1,056,033	574,546	481,487	469	838	34.20	185	263	93
Ferozepur	4,107	1,620,389	876,259	744,130	395	849	27.07	218	295	128
Gurdaspur	1,363	984,152	527,171	456,981	722	867	15.61	248	331	153
Gurgaon	2,368	1,238,128	656,937	581,191	523	885	27.95	203	311	82
Hissar	5,391	1,545,887	830,313	715,574	287	862	47.84	172	258	73
Hoshiarpur	2,235	1,229,473	645,884	583,589	550	904	12.38	284	388	168
Jullundur	1,334	1,224,434	654,447	569,987	918	871	15.99	332	417	234
Kangra	3,199	1,057,066	529,742	527,324	330	995	14.74	227	345	108
Kapurthala	630	343,775	182,337	161,438	546	885	16.51	288	370	196
Karnal	3,073	1,489,679	804,362	685,317	485	852	38.27	182	255	96
Lahaul and Spiti	6,391	20,478	11,538	8,940	3	775	60.89	162	262	34
Ludhiana	1,323	1,021,190	550,371	470,819	772	856	26.48	355	428	269
Mohindergarh	1,343	547,164	282,838	264,326	407	935	23.49	172	295	40
Patiala	2,575	1,047,437	572,015	475,422	407	831	34.72	243	316	156
Rohtak	2,329	1,416,915	748,917	667,998	608	892	26.28	211	321	88
Sangrur	3,254	1,425,261	774,140	651,121	438	841	28.22	161	229	80
Simla	8	111,256	64,250	47,006	14,543	732	4.78	440	557	279
Rajasthan	132,150	20,146,173	10,558,138	9,588,035	152	908	26.14	147	228	57
Ajmer	3,283	976,375	510,382	465,993	297	913	19.07	243	345	132
Alwar	3,241	1,089,333	576,497	512,836	336	890	26.37	138	221	46
Banswara	1,946	474,192	240,696	233,496	244	970	32.99	84	133	33
Barmer	10,174	648,734	347,300	301,434	64	868	35.21	72	124	15
Bharatpur	3,127	1,150,849	624,544	526,305	368	843	26.83	150	240	43
Bhilwara	4,034	865,835	453,996	411,839	215	907	18.85	109	178	34
Bikaner	10,501	444,183	232,739	211,444	42	910	29.95	222	313	121
Bundi	2,158	338,208	178,153	160,055	157	898	20.57	115	183	38
Chittorgarh	4,033	710,880	366,920	343,960	176	937	21.70	121	200	37
Churu	6,412	658,499	339,563	318,936	103	939	25.75	174	264	80
Dungarpur	1,460	407,382	204,414	202,968	279	993	32.16	103	170	35
Ganganagar	7,998	1,037,550	563,701	473,849	130	841	64.66	162	244	63
Jaipur	5,393	1,900,902	1,004,361	896,541	352	893	24.69	179	265	83
Jaisalmer	14,909	138,049	76,503	61,546	9	805	30.15	81	129	20
Jalore	4,916	545,862	284,327	261,625	111	920	29.65	79	135	18
Jhalawar	2,405	490,635	254,382	236,253	204	929	21.41	130	210	45
Jhunjhunu	2,282	719,299	370,574	348,725	315	941	22·18	177	295	53
Jhodpur	8,773	883,380	467,666	415,714	101	889	30.49	182	264	90
Kotah	4,794	847,424	446,439	400,985	177	898	26.47	187	286	78
Nagaur	6,883	932,707	479,577	453,130	136	945	22.11	124	195	49
Pali	4,793	806,840	415,239	391,601	168	943	22.09	135	218	48
Sawai-Madhopur	4,070	943,144	504,799	438,345	232	868	23.26	124	206	29
Sikar	3,027	819,852	418,037	401,815	271	961	21.22	145	242	45

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States and Districts	Area in square miles	Population			No. of persons per sq. mile	No. of Females per 1,000 males	Percentage increase since 1951	Literate		
		Total	Male	Female				No. of persons to 1,000 persons	No. of males to 1,000 males	No. of females to 1,000 females
Sirohi	1,978	352,528	181,055	171,473	178	947	21.65	132	207	54
Tonk	2,755	498,075	260,637	237,438	181	911	22.40	112	179	38
Udaipur	6,805	1,465,456	755,727	709,729	215	939	22.77	133	211	49
Uttar Pradesh	113,454	73,752,914	38,664,463	35,088,451	650	908	16.67	175	267	73
Agra	1,861	1,859,990	1,011,394	848,596	999	839	23.88	236	336	118
Aligarh	1,941	1,766,201	951,043	815,158	910	857	14.43	196	297	79
Allahabad	2,800	2,422,558	1,254,932	1,167,626	865	930	18.51	249	306	181
Almora	2,721	631,108	301,656	329,452	232	1,092	14.72	215	391	54
Azamgarh	2,221	2,401,484	1,183,780	1,217,704	1,081	1,029	14.00	159	259	61
Bahraich	2,620	1,497,879	789,007	708,872	572	898	11.48	97	162	26
Ballia	1,182	1,326,817	653,300	673,517	1,123	1,031	11.03	191	310	76
Banda	2,950	954,642	501,401	453,241	324	904	20.80	149	254	33
Bara Banki	1,714	1,411,883	745,730	666,153	824	893	12.02	114	186	33
Bareilly	1,591	1,481,311	807,342	673,969	931	835	16.74	149	207	80
Basti	2,821	2,621,937	1,346,487	1,275,450	929	947	9.81	115	196	30
Bijnor	1,866	1,186,001	632,467	553,534	635	875	2.50	175	261	78
Budaun	1,998	1,410,229	767,960	642,269	706	836	12.71	97	143	41
Bulandshahr	1,887	1,735,836	924,169	811,667	920	878	15.73	166	263	55
Chamoli	3,523	252,718	119,551	133,167	72	1,114	16.47	213	409	38
Dehra Dun	1,207	430,392	243,410	186,982	358	768	19.00	386	474	271
Deoria	2,087	2,372,088	1,189,477	1,182,611	1,137	994	12.72	139	238	39
Etah	1,715	1,300,199	697,395	602,804	758	864	15.64	162	247	65
Etawah	1,669	1,182,988	640,626	542,362	709	847	21.87	224	328	100
Faizabad	1,705	1,630,276	823,307	806,969	956	980	10.33	141	237	44
Farukhabad	1,645	1,294,404	705,385	589,019	787	835	18.47	209	301	100
Fatehpur	1,625	1,077,558	561,579	515,979	663	910	18.55	166	272	51
Garhwal	2,108	479,151	220,739	258,412	227	1,171	13.37	209	379	63
Ghazipur	1,308	1,320,711	653,410	667,301	1,010	1,021	15.76	169	268	72
Gonda	2,829	2,077,694	1,076,403	1,001,291	734	930	10.66	114	192	30
Gorakhpur	2,439	2,551,235	1,293,456	1,257,779	1,046	972	14.06	154	257	49
Hamirpur	2,776	794,475	413,260	381,215	286	923	19.57	160	263	48
Hardoi	2,320	1,567,867	844,369	723,498	676	857	15.15	147	228	52
Jalaun	1,762	661,477	350,793	310,684	375	886	19.49	225	352	82
Jaunpur	1,543	1,728,018	840,220	887,798	1,120	1,067	14.06	170	298	48
Jhansi	3,888	1,086,219	573,674	512,545	279	893	23.39	198	303	81
Kanpur	2,357	2,362,439	1,303,485	1,058,954	1,002	812	21.78	307	405	188
Kheri	2,972	1,263,231	682,401	580,830	723	844	16.51	109	169	37
Lucknow	977	1,345,494	732,145	613,349	1,377	838	19.27	297	381	197
Mainpuri	1,680	1,174,989	629,700	545,289	699	866	18.22	197	296	83
Mathura	1,467	1,070,572	581,220	489,352	730	842	17.35	213	328	76
Meerut	2,322	2,717,153	1,475,228	1,241,925	1,170	842	19.11	222	325	99
Mirzapur	4,372	1,247,466	642,872	604,594	285	941	22.57	166	275	51
Moradabad	2,288	1,971,135	1,057,840	913,295	862	863	19.59	136	194	69
Muzaffarnagar	1,683	1,444,616	786,007	658,609	858	838	18.24	166	248	68
Nainital	2,626	574,361	333,723	240,644	219	721	73.12	272	364	143
Pilibhit	1,352	618,220	335,404	282,816	457	843	22.58	135	202	55
Pithoragarh	2,789	262,393	126,733	135,660	94	1,070	17.78	224	402	57
Pratapgarh	1,460	1,251,402	607,293	644,100	857	1,061	16.06	136	248	29
Rae Bareli	1,758	1,316,753	670,918	645,835	749	963	13.84	129	219	35
Rampur	895	704,546	382,969	321,577	787	840	25.81	108	155	52
Saharanpur	2,132	1,608,011	879,729	728,283	754	828	18.79	195	274	100
Shajahanpur	1,762	1,133,599	619,895	513,704	647	829	12.86	136	201	58
Sitapur	2,236	1,615,928	876,450	739,478	723	844	16.51	109	169	37
Sultanpur	1,714	1,413,052	701,513	711,539	824	1,014	9.29	124	218	31
Tehri Garhwal	4,559*	347,535	158,074	189,461	103†	1,199	13.46	160	327	21
Unnao	1,774	1,227,048	649,137	577,911	692	890	14.99	148	231	55
Uttar Kashi	2,992‡	122,377	62,350	60,027	103†	962	15.39	156	287	19
Varanasi	1,962	2,445,242	1,251,656	1,193,586	1,246	954	23.65	254	386	116
West Bengal	33,928	34,967,634	18,611,085	16,356,549	1,031	879	32.94	291	400	168
Bankura	2,653	1,667,527	841,912	825,615	629	981	26.40	229	358	96
Birbhum	1,757	1,447,638	734,399	713,239	824	971	35.69	222	326	115
Burdwan	2,717	3,083,564	1,659,777	1,423,787	1,135	858	40.69	294	392	180
Calcutta	39	2,926,498	1,814,131	1,112,367	75,038	613	8.45	585	628	515
Cooch-Behar	1,291	1,019,747	539,794	479,953	790	889	51.94	211	319	90
Darjeeling	1,160	624,879	334,553	290,326	539	868	35.96	284	396	155
Hooghly	1,217	2,233,798	1,180,128	1,053,670	1,835	893	39.24	345	458	218
Howrah	575	2,043,225	1,128,833	914,392	3,553	810	26.80	369	477	220
Jalpaiguri	2,407	1,360,110	732,590	627,520	565	857	48.72	193	278	95
Malda	1,425	1,220,491	622,092	598,399	856	962	30.17	136	212	57
Midnapur	5,264	4,349,069	2,227,308	2,121,761	826	953	29.47	271	415	121
Murshidabad	2,086	2,298,074	1,162,177	1,130,897	1,099	973	33.65	159	234	82
Nadia	1,527	1,715,068	880,409	834,659	1,123	948	49.80	269	353	179

* Includes Uttar Kashi Area. † Density figures for Uttar Kashi and Tehri Garhwal Districts combined. ‡ Figure furnished by State Government.

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Population, Area, Density per sq. mile, Sex Ratio and Literacy of States and Districts in each State.—*Concld.*

States and Districts	Area in square miles	Population			No. of persons per sq. mile	No. of Females per 1,000 males	Percentage increase since 1951	Literate		
		Total	Male	Female				No. of persons to 1,000 persons	No. of males to 1,000 males	No. of females to 1,000 females
Purulia	2,408	1,358,842	687,292	671,550	564	977	16.23	183	312	50
24 Parganas	5,288	6,293,758	3,368,931	2,924,827	1,190	868	41.13	326	441	193
West Dinajpur	2,115	1,330,346	696,759	633,587	629	909	35.85	198	255	72
UNION TERRITORIES										
Andaman & Nicobar Islands ..	3,215	63,438	39,259	24,179	20	616	104.83	336	424	194
Delhi State	573	2,644,058	1,480,708	1,163,350	4,614	786	51.60	510	589	461
D. M. C. (Rural)	..	300,007	162,215	137,792	..	849	..	243	374	89
D. M. C. (Urban)	..	2,051,622	1,148,023	903,599	..	787	..	535	607	443
New Delhi	..	260,272	150,350	109,922	..	731	..	621	673	550
Delhi Cantonment	..	32,157	20,120	12,037	..	598	..	545	637	392
Himachal Pradesh	10,879	1,348,982	700,738	648,244	124	925	21·59	167	266	60
Bilaspur	448	158,544	81,102	77,442	354	955	25·73	190	309	65
Chamba	3,135	210,177	110,400	99,777	67	904	19·38	108	171	39
Kinnaur	2,486	40,640	20,489	20,151	16	984	17·88	150	259	38
Mahasu	2,192	358,430	188,575	169,855	164	901	21·03	189	259	67
Mandi	1,523	383,607	192,041	191,566	252	998	23·49	179	292	65
Sirmoor	1,095	197,584	108,131	89,453	180	827	18·97	153	228	62
Laccadive, Minicoy & Amindivi Islands	11	24,108	11,927	12,181	2,192	1,021	14·61	233	359	109
Tripura	4,036	1,141,492	591,214	550,278	283	931	78·63	222	322	114

SNOW-BOUND AREAS

List of snow-bound areas in the States and their provisional population in 1961. Under each State the population of such areas in districts with the population of tahsils or sub-divisions in such areas of the districts is given :—

Punjab State: 178,694 (males 92,541 ; females 86,153): (1) Lahaul and Spiti District 20,478 (Males 11,538 ; females 8,940): (*a*) Spiti 5,324 (males 2,873 ; females 2,451) ; (*b*) Lahaul 15,154 (males 8,665 ; females 6,489) ; (*ii*) Kangra District 158,216 (males 81,003 ; females 77,213) : (*a*) Kulu Sub-division 152,766 (males 78,431 ; females 74,335) ; (*b*) Bara Banghal Area 5,450 (males 2,572 ; females 2,878).

Himachal Pradesh Territory: 395,333 (males 206,967 ; females 188,366) : (*i*) Chamba District 51,393 (males 27,655 ; females 23,738) : (*a*) Pangi Sub-tahsil 11,644 (males 6,116 ; females 5,528) ; (*b*) Bharmur Sub-tahsil 25,582 (males 14,086 ; females 11,496) ; (*c*) Lylh Kanungo Circle of Chamba Tahsil 14,167 (males 7,453 ; females 6,714) ; (*ii*) Kinnaur District 40,640 (males 20.489 ; females 20,151) : (*a*) Nichar Sub-division 12,062 (males 6,373 ; females 5,689) ; (*b*) Pooh Sub-division 13,012 (males 6,248 ; females 6,764) ; (*c*) Kalpa Sub-division 15,566 (males 7,868 ; females 7,698) ; (*iii*) Mahasu District 238,963 (males 126,143 ; females 112,820) : (*a*) Rampur Tahsil 43,757 (males 22,519 ; females 21,238) ; (*b*) Chopal Tahsil 40,384 (males 22,603 ; females 17,781) ; (*c*) Theog Tahsil 41,014 (males 21,899 ; females 19,115) ; (*d*) Rohrù Tahsil 51,805 (males 26,218 ; females 25,587) ; (*e*) Jubbal Tahsil 17,636 (males 9,413 ; females 8,223) ; (*f*) Kumarsain Sub-tahsil 23,822 (males 12,437 ; females 11,385) ; (*g*) Kot-Khai Sub-tahsil 20,545 (males 11,054 ; females 9,491) ; (*iv*) Mandi District 64,337 (males 32,680 ; females 31,657) : (*a*) Pargana Chohar of Tahsil Jogindernagar 7,438 (males 3,637 ; females 3,801) ; (*b*) Parganas Uttarsal Badar and Snor of Tahsil Mandi Sadar 14,416 (males 7,501 ; females 6,915) ; (*c*) Parganas Maidangarh Dhangyara and Sraj of Tahsil Chachiot 42,483 (males 21,542 ; females 20,941).

Uttar Pradesh State: Pithoragarh District (Villages of Sipu, Marcha, Tejang, Khimling, Go, Filam, Dantu, Yangsung, Baun, Saun Dugtu, Dugtu, Baling, Nagling, Chal, Sela, Kuti, Navi, Rung, Kang, Napal Chyon, Gunji, Garbyang and Bundi of Dharchula Sub-division) 6,011 (males 3,150 ; females 2,861).

Jammu & Kashmir State: 300,657 (males 157,278 ; females 143,379) : (*i*) Kathna District : Basohli Tahsil 16,418 (males 8,792 ; females 7,626) ; (*ii*) Poonch District 43,776 (males 23,050 ; females 20,726) : (*a*) Haveli Tahsil 19,211 (males 10,078 ; females 9,133) ; (*b*) Mendhar Tahsil 6,607 (males 3,452 ; females 3,155) ; (*c*) Rajouri Tahsil 17,958 (males 9,520 ; females 8,438) ; (*iii*) Baramulla District 29,018 (males 15,783 ; females 13,235) : (*a*) Karnah Tahsil 18,237 (males 9,929 ; females 8,308) ; (*b*) Handwara Tahsil 2,299 (males 1,244 ; females 1,055) ; (*c*) Sopore Tahsil 8,482 (males 4,610 ; females 3,872) ; (*iv*) Ladakh District 86,927 (males 43,695 ; females 43,232) : (*a*) Leh Tahsil 42,486 (males 21,086 ; females 21,400) ; (*b*) Kargil Tahsil 44,441 (males 22,609 ; females 21,832) ; (*v*) Udhampur District : Reasi Tahsil 86,927 (males 43,695 ; females 43,232) ; (*vi*) Doda District 99,661 (males 52,988 ; females 46,673) : (*a*) Ramaban Tahsil 36,579 (males 19,201 ; females 17,378) ; (*b*) Doda Tahsil 20,848 (males 11,282 ; females 9,566) ; (*c*) Kishtwar Tahsil 14,963 (males 7,955 ; females 7,008) ; (*d*) Bhaderwah 27,271 (males 14,550 ; females 12,721) ; (*vii*) Anantnag District : Anantnag Tahsil 503 (males 275 ; females 228).

List of Agency areas in Andhra Pradesh State and their population in 1961 ; Andhra Pradesh 530,803 (males 268,685 ; females 262,118) : (*i*) Srikakulam 71,349 (males 36,337; females 35,012): (*a*) Parvatipuram 43,544 (males 22,321; females 21,223) ; (*b*) Salur 7,721 (males 3,942 ; females 3,779) ; (*c*) Palakonda 20,084 (males 10,074 ; females 10,010) ; (*ii*) Visakhapatnam 196,356 (males 100,514 ; females 95,842) : (*a*) Narasapatnam (Agency) 4,073 (males 2,049 ; females 2,024) ; (*b*) Chintapalle (Agency) 44,039 (males 22,885 ; females 21,154) ; (*c*) Chodavaram (Agency) 8,072 (males 4,127 ; females 3,945) ; (*d*) S. Kota (Agency) 8,072 (males 4,005 ; females 4,067) ; (*e*) Paderu (Agency) 132,100 (males 67,448 ; females 64,652) ; (*iii*) East Godavari 120,141 (males 60,224 ; females 59,917) : (*a*) Pratipadu Taluk 7,953 (males 4,045 ; females 3,908) ; (*b*) Rampachodavaram Taluk 48,618 (males 24,156 ; females 24,462) ; (*c*) Yellavaram Taluk 63,570 (males 32,023 ; females 31,547) ; (*iv*) West Godavari : Polavaram 46,271 (males 23,072 ; females 23,199) ; (*v*) Khammam 96,686 (males 48,538 ; females 48,148) : (*a*) Bhadrachalam Taluk 55,707 (males 27,891 ; females 27,816) ; (*b*) Nugur Taluk 40,979 (males 20,647 ; females 20,332).

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PRODUCTION (INDUSTRIAL) 1960

Industry	Accounting Unit	No. of Units	Installed Capacity	* Estimated Production
MECHANICAL AND GENERAL ENGINEERING				
Agricultural Implements	Metric Tonnes	58	29,900	17,367
Ball Bearings	Nos.	1	900,000	2,645,349
Belting :—				
(*i*) Hair and Cotton	Tons	8	1,333	765 (Metric Tonnes)
(*ii*) Rubber Ply Transmission and Conveyor	,,	8	1,333	2,340 (Metric Tonnes)
Bicycles (Complete)	Nos.	19	1,065,500	1,014,171
Bicycle Spare Parts and Accessories	Rs.	27	—	3,65,62,900
Boats and Crafts	Nos.	21	1,000	2,209
Bolts, Nuts, Rivets and Dog Spikes	Metric Tonnes	33	71,223	43,290
Bright Bars and Shaftings	,,	6	5,280	6,000
Building and Hardware Fittings (Hinges, Hasps, Staples, etc.)	Tons	25	10,885	7,617
Clocks	Nos.	5	66,000	54,200
Conduit Pipes	R. ft.	11	2,771,230	5,662,752
Crown Cork	Gross	7	4,636,000	5,184,305
Duplicators	Nos.	4	7,950	4,254
Expanded Metal	Tons	4	4,964	1,872
Hurricane Lanterns	Nos.	11	4,596,036	5,088,380
Incandescent Lamps	,,	9	145,600	136,171
Laminated Leaf Springs	Tons	7	12,150	14,900
Lifts (Passenger and Industrial)	Nos.	4	248	140
Machine Screws	Thousand Gross	11	1,878	1,610
Needles :—				
(*i*) Gramophone	Million Nos.	1	900·0	335·0
(*ii*) Hypodermic	Gross	1	11,700	554
(*iii*) Sewing Machine	Million Nos.	1	3·6	0·8
Razor Blades	,,	5	629·0	568·0
Rolling Stock (Railway Wagons and Under Frames)	Nos.	11	22,255	8,000
Sewing Machines	,,	7	133,700	292,420
Steel Belt Lacing	Boxes	5	1,072,200	116,416
Steel Furniture	Tons	21	32,824	27,509
Steel Link Chains	Metric Tonnes	3	2,683	450
Steel Pipes and Tubes	Tons	8	187,323	109,000
Steel Structurals	,,	122	346,785	150,000
Stoves	Nos.	9	256,400	224,230
Typewriters	,,	4	45,000	23,353
Umbrella Ribs	Dozen Sets	11	1,051,900	904,755
Utensils (Domestic)	Metric Tonnes	51	24,487	10,955
Welding Electrodes	Th. R. Metres	2	128,100	107,367
Wire Products :—				
(*i*) Chain Link Fencing	Tons	1	300	63
(*ii*) Gauge	,,	1	480	418
(*iii*) Netting	,,	4	2,484	912
Wire Ropes and Stranded Wire	Metric Tonnes	2	6,120	3,327
Wood Screws	Thousand Gross	20	6,997	10,210
Zip Fasteners	Metres	6	3,969,176	1,808,040
INDUSTRIAL MACHINERY				
Agricultural Machinery	Rs.	35	Made to order	1,91,04,041
Boilers (Industrial)	,,	3	Made to order	37,01,000
Cement Machinery	,,	5	Made to order	55,16,000
Chemical and Pharmaceutical Machinery	,,	31	Made to order	1,20,00,000
Constructional Machinery	,,	14	Made to order	1,01,67,000
Dairy Machinery	,,	2	Made to order	17,20,467
Drilling Machinery	,,	5	Made to order	10,00,000
Earth Moving and Road Making Machinery :—				
(*i*) Road Rollers (Diesel)	Nos.	3	414	388
(*ii*) Sheep Foot Rollers	,,	3	205	105
Industrial Machinery (Unclassified)	Rs.	23	Made to order	27,41,311
Jute Mill Machinery	,,	10	Made to order	2,18,02,866
Mining Machinery	,,	3	Made to order	19,58,000
Oil Mill Machinery	,,	50	Made to order	47,65,457
Printing Machinery	,,	5	Made to order	3,63,045
Reduction Gears	,,	1	Made to order	7,54,120
Rice, Dal and Flour Mill Machinery	,,	35	Made to order	42,74,794
Sugar Mill Machinery	,,	16	Made to order	3,25,00,000
Tea Processing Machinery	,,	7	Made to order	1,21,47,000
Weighing Machines	,,	5	Made to order	58,47,000

* Based on the actual production for the first 9 months and estimated production for October, November and December 1960.

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Industry	Accounting Unit	No. of Units	Installed Capacity	*Estimated Production
TOOLS				
Coated Abrasives	Reams	5	200,000	133,217
Grinding Wheels	Kgms.	6	2,937,205	1,853,040
Machine Tools—				
(i) Complete Machine Tools	Value No.	28	Rs. (Crores) 4·78	Rs. 5,47,56,339 / Nos. 5,912
(ii) Machine Tool Accessories				Rs. 13,38,009 / Nos. 9,440
(iii) Portable Tools				Rs. 61,12,424 / Nos. 30,181
Small Tools, Hand Tools—				
(i) Bandsaw Blades	R. ft.	2	6,200,000	1,879,968
(ii) Diamond Drill Bits	Nos.	1	3,600	5,641
(iii) Hacksaw Blades	Gross	4	264,000	73,973
(iv) Lathe Tools (Tool Bits)	Dozens	4	26,240	28,281
(v) Milling Cutters	Nos.	9	82,400	77,408
(vi) Reamers	,,	8	90,150	59,904
(vii) Steel Files	Dozens	5	384,000	254,201
(viii) Threading Tools (Taps, Dies, and Chasers)	Nos.	6	478,750	246,015
(ix) Tungsten Carbide (Sintered)	Kgms.	1	6,000	4,481
(x) Twist Drills	Nos.	4	3,088,680	1,385,993
AUTOMOBILES AND ANCILLARIES				
Automobiles	Nos.	7	57,700	50,725
Motor Cycles	,,	1	23,000†	3,849
Scooters (including Auto Cycles)	,,	2	—	12,461
Three-Wheelers (Auto Rickshaws)	,,	3	—	244
Trailers	,,	11	6,638	2,101
Automobile Ancillaries :—				
Brake Assemblies— (i) House Assembly (ii) Master Cylinder Kit (iii) Wheel Cylinder Kit	,,	1	15,000	230,179
Brake Linings	Tons/Ft./Metres	2	Tons 405	Metres 309,981
Clutch Assemblies :—				
(i) Cover Assembly (ii) Driven Plate Assembly	Nos.	1	15,000	58,648
Clutch Facings or Discs	,,	1	108,000	179,878
Cylinder Liners	,,	2	200,000	100,768
Dynamos	,,	1	7,000	3,987
Electric Horns	,,	3	146,000	12,672
Gaskets	,,	1	8,350,000	9,899,763
Gudgeon Pins	,,	1	600,000	257,305
Pistons	,,	2	900,000	294,968
Piston Rings	,,	2	6,600,000	5,979,197
Radiators	,,	4	37,200	34,765
Shock Absorbers	,,	3	255,100	62,409
Spark Plugs	,,	2	1,596,000	1,107,789
Valves	,,	3	1,192,000	514,568
DIESEL ENGINES, PUMPING SETS, AIR COMPRESSORS AND TRACTORS, ETC.				
Air Compressors	Nos.	7	2,596	1,681
Diesel Engines (Stationary)	,,	21	34,710	41,251
Diesel Engines (Vehicular Type)	,,	2	6,000	10,065
Fans and Blowers	,,	5	1,825	929
Filters :—				
(i) Filters	,,	2	72,600	35,515
(ii) Elements	,,	2	228,000	149,044
Fire Extinguishers	,,	5	—	60,000
Fuel Injection Equipment :—				
(i) Elements	,,	2	176,400	291,812
(ii) Delivery Valves	,,	2	176,400	289,061
(iii) Injection Pumps	,,	2	33,600	89,800
(iv) Nozzles	,,	2	102,000	339,543
(v) Nozzle Holders	,,	2	69,600	178,738
Gliders	,,	2	132	18
Inboard/Outboard Motors	H.P.	1	4,800	Nil
Locomotives	Nos.	1	100	94
Petrol/Kerosene Engines	,,	1	1,800	889

* Based on the actuals for the first 9 months and estimated production for October, November and December 1960.

† Includes installed capacity for Scooters, Auto Cycles and Three-Wheelers (Auto-Rikshaws) also.

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Industry	Accounting Unit	No. of Units	Installed Capacity	* Estimated Production
DIESEL ENGINES, PUMPING SETS, AIR COMPRESSORS, AND TRACTORS, ETC.—*Contd.*				
Power Driven Agricultural Implements :—				
(i) Plough	Nos.	1	200	56
(ii) Harrows	,,	1	—	120
(iii) Cultivators	,,	1	1,800	72
Power Driven Pumps	,,	46	116,224	96,867
Thin Walled Bearings	,,	1	300,000	322,333
Tractors (Assembled)	,,	2	3,000	769
ELECTRICAL ENGINEERING				
Cables and Wires :—				
(i) Aluminium Conductors	Tons	8	19,300	22,000
(ii) Bare Copper Conductors	,,	6	18,700	9,140
(iii) Rubber and Plastic Insulated Cables and Flexibles	Million Yds.	19	300·90	230·00
(iv) Winding Wires	Tons	8	4,345	4,000
Domestic Refrigerators	Nos.	4	13,600	11,400
Dry Batteries	Million Cells	5	224·50	198·24
Electric Fans	Nos.	24	871,750	985,326
Electric Lamps :—				
(i) Flourescent Tubes	Million Nos.	2	1·20	1·46
(ii) Incandescent Filament Lamps	,,	11	43·13	38·05
Electric Motors	H.P.	32	732,520	691,300
Electrical Steel Sheets	Nos.			129,150
Gramophones	Tons	1	18,000	16,000
House Service Meters	Nos.	1	21,000	6,700
Mathematical Instruments (Geometry Boxes)	,,	5	384,000	469,000
Power Transformers	Gross	3	24,641	21,558
Radio Receivers	K.V.A.	17	1,264,000	1,103,470
Room Air Conditioners	Nos.			8,040
Storage Batteries	,,	20	279,180	253,100
Water Coolers	,,	10	20,470	11,500
Water Meters	,,	12	379,300	509,000
Box Cameras	,,	4	3,900	2,270
Clinical Thermometers	,,	3	64,000	54,481
Levels	,,	2	38,000	16,871
Microscopes	,,	1	210,000	184,100
Pressure Gauges	,,	6	5,000	3,757
Theodolites	,,	8	7,100	5,068
	,,	2	132,000	44,959
	,,	3	650	547
METALLURGICAL				
(a) *Virgin Metals :—*				
Aluminium	Tons	3	18,192	17,500
Antimony	,,	1	912	809
Copper	,,	1	7,320	8,873
Lead	,,	1	6,096	3,522
(b) *Semi-Manufactures :—*				
Aluminium Foils	,,	1	2,028	2,000
Aluminium Rods/Sections (Extruded)	,,	1	1,224	1,200
Aluminium Sheets/Circles/Strips	,,	9	20,400	16,000
Aluminium Wire Rods for A.C.S.R.	,,	3	14,016	4,900
Brass/Copper Pipes and Tubes	,,	2	4,020	1,300
Brass/Copper Rods including Arsenical Copper Rods, Sections, Bars, etc.	,,	3	5,324	2,600
Brass/Copper Sheets/Circles/Strips	,,	27	70,200	40,500
Brass/Copper Wire for Non-Electrical purposes	,,	4	1,989	1,200
Lead Pipes and Tubes	,,	3	4,872	800
Lead Sheets	,,	2	2,316	65
Zinc Sheets/Strips	,,	4	5,856	3,200
(c) *Non-Ferrous Alloys :—*				
Non-Ferrous Alloys such as Antifriction Bearing Metal, Bell Metal, Bronze, Gun Metal, Solders, etc.	,,	15	70,000	23,000
(d) *Steel Castings :—*				
Steel Castings	,,	15	39,320	32,031
(e) *Ferro-Manganese :—*				
Ferro-Manganese	,,	6	92,052	73,000

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

Industry	Accounting Unit	No. of Units	Installed Capacity	* Estimated Production
CHEMICALS				
Chemicals :—				
Acids—				
(*i*) Chromic Acid	Metric Tonnes	4	596	220
(*ii*) Hydrochloric Acid	Tons	26	14,718	10,500
(*iii*) Monochlore Acetic Acid	Kgms.	1	(Tons) 50	10,018
(*iv*) Nicotinic Acid and Amide	,,	2	8,000	48
(*v*) Nitric Acid	Tons	22	7,049	5,200
(*vi*) Oleic Acid	,,	4	1,140	267
(*vii*) Phosphoric Acid	,,	2	1,949	1,607
(*viii*) Stearic Acid	,,	5	3,570	2,000
(*ix*) Sulphuric Acid	,,	40	475,484	350,000
Activated Carbon	Metric Tonnes	3	2,508	452
Alfloc Powder	,,	1	508	295
Alum (Ammonia)	Tons	14	9,930	4,843
Aluminium Sulphate :—				
(*i*) Ferric	,,	16	55,411	48,000
(*ii*) Iron Free	,,	14	14,918	6,000
Ammonium Chloride	,,	2	48,250	13,000
Ammonium Sulphate	,,	9	457,055	370,000
Bichromates	,,	7	6,848	4,500
Bismuth Salt	Kgms.	2	298,644	83,439
Bleaching Earth, Activated	Metric Tonnes	5	7,394	2,800
Bleaching Powder	,,	3	20,410	5,700
Bromides	,,	1	456	190
Bromine	,,	1	265	160
Calcium Carbide	,,	2	16,675	10,000
Calcium Carbonate :—				
(*i*) Activated	,,	2	1,860	1,050
(*ii*) Precipitated	,,	3	3,180	600
Calcium Chloride	Tons	3	2,861	1,526
Calcium Gluconate	Kgms.	5	211,596	57,987
Calcium Lactate	,,	2	161,545	70,726
Caustic Soda	Metric Tonnes	18	119,185	100,000
Chloral Hydrate	Kgms.	1	54,540	32,709
Chlorinated Paraffin	,,	1	(Tons) 100	7,552
Copper Sulphate	Tons	9	5,739	3,876
Electroplating Salts :—				
(*i*) Brass	Metric Tonnes	2	85	8
(*ii*) Cadmium	,,	2	175	44
(*iii*) Copper	,,	2	2,363	36
(*iv*) Nickel	,,	3	5,663	208
(*v*) Tin	,,	2	54	12
(*vi*) Zinc	,,	4	907	20
Ether (Anaesthetics)	Kgms.	3	392,000	66,497
Ether B. P.	,,	2	824,724	218,983
Ethyl Acetate	,,	2	(Tons) 360	131,447
Ethyl Chloride	,,	1	32,724	39,675
Ferric Chloride	Tons	4	2,397	21
Ferrous Gluconate	Kgms.	4	60,000	5,824
Ferrous Sulphate	Tons	9	3,917	2,046
Gases :—				
(*i*) Carbon Dioxide Gas	Metric Tonnes	17	20,036	8,248
(*ii*) Dissolved Acetylene Gas	Th. Cu. Metres	5	4,395	2,460
(*iii*) Nitrogen Gas	,,	1	180	200
(*iv*) Nitrous Oxide Gas	Million Litres	1	100	85
(*v*) Oxygen Gas	Th. Cu. Metres	6	29,038	19,405
Heat Treatment Salts	Metric Tonnes	2	11,455	970
Hydrogen Peroxide	,,	1	3,000	1,100
Hydroquinon	Kgms.	2	45,176	25,928
Incandescent Gas Mantles	Thousand Gross	7	254	136
Liquid Chlorine	Metric Tonnes	12	36,060	31,000
Magnesium Chloride	Tons	4	39,600	5,262
Magnesium Sulphate	,,	15	7,929	3,500
Metal Treatment Solution	Th. Litres	2	600	472
Nickel Ammonium Sulphate	Metric Tonnes	2	128	6
Nickel Carbonate	,,	4	307	6
Nickel Chloride	,,	3	99	8
Nickel Sulphate	,,	3	675	101
Nikethamide	Kgms.	3	8,088	3,931
Phosphorous Trichloride	Metric Tonnes	2	465	130
Potassium Chlorate	,,	3	4,254	3,450
Saccharine	Kgms.	2	102,552	88,255
Silica Gel	Metric Tonnes	3	156	37
Soda Ash	,,	4	217,000	145,000

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.

CC-0. Agamnigam Digital Presevation Foundation, Chandigarh

Industry	Accounting Unit	No. of Units	Installed Capacity	* Estimated Production
	CHEMICALS—*Contd.*			
Sodium Aluminate	Metric Tonnes	4	2,520	500
Sodium Bicarbonate	,,	2	12,120	7,500
Sodium Bisulphite	,,	5	1,277	1,000
Sodium Hexameta Phosphate	,,	1	672	480
Sodium Hydrosulphite	,,	2	2,300	600
Sodium Perborate	,,	1	250	110
Sodium Sulphate	Tons	17	21,770	15,466
Sodium Sulphide	,,	8	9,074	2,373
Sodium Sulphite	Metric Tonnes	4	856	750
Sodium Thiosulphate	,,	5	2,429	1,100
Superphosphates	Tons	15	343,670	325,000
Zinc Chloride	,,	3	1,216	1,087
Welding Fluxes	Metric Tonnes	2	N. A.	0·2
Solvents :—				
Acetic Acid	Kgms.	2	3,273,552	3,100,474
Acetic Anhydride	,,	1	2,550,000	3,063,367
Acetone	,,	1	609,000	752,511
C. P. Methanol	,,	1	(Tons) 60	15,647
Photographic Chemicals	Gallons/Ozs.	2	N. A.	50,305
Pharmaceuticals and Drugs :—				343,120
Galenicals	Gallons	47	3,086,400	1,087,659
Natural Drugs of Vegetable Origin :—				
Caffeine and its Salts	Kgms.	5	11,760	12,058
Emetine Hydrochloride	,,	1	187	220
Ephedrine and its Salts	,,	2	1,800	13
Opium Alkaloids and its Salts	,,	1	1,500	3,667
Quinine	,,	3	—	122,629
Strychnine and Brucine	,,	2	26,800	15,895
Liver Extracts :—				
Injections	Million CCs.	17	75·42	33·80
Orals	Kgms.	17	652,080	137,944
Antibiotics :—				
Chloramphenicol	,,	1	3,600	3,504
Chlorotetracyclin (Aureomycetin)	,,	1	9,600	2,362
Penicillin	Million M.U.	1	40·00	39·04
Chemotherapeutics :—				
(*a*) Anti-Leprosy :—				
D.D.S. and its Derivatives	Kgms.	3	8,220	7,191
(*b*) Anti-Tuberculosis :—				
Isonicotinic Acid Hydrazide	,,	7	39,432	29,244
P.A.S. and its Salts	,,	4	148,100	86,602
(*c*) Sulpha Drugs :—				
Sulphadiazine	,,	2	107,400	13,351
Sulpha Pyridine	,,	1	18,200	14,762
Sulphasomidine	,,	2	24,000	21,878
Sulphathiazole	,,	2	182,300	82,961
(*d*) Anti-Dysentery :—				
Carbarsone	,,	1	600	16
Di-iodohydroxyquinoline and Iodochlorohydroxy quinoline	,,	14	59,520	24,903
(*e*) Insecticides :—				
Benzene Hexachloride	Metric Tonnes	2	3,900	3,240
Copper Oxychloride	,,	5	2,268	455
D.D.T.	,,	2	2,800	2,855
Ethyl Diabromide	,,	1	96	8
(*f*) Formulations :—				
Dustings, Wettable Power/Liquids, Emulsion Concentrates etc. based on D.D.T., B.H.C., Copper Oxychloride, Diazinone, Chlorobenzilate, Parathion, Chloroane, Lindane, Aldrin, Dieldrine, Endrin, etc.	,,	30	56,244	22,776 Litres 2,172,654
(*g*) Alkaloids :—				
Reserpine	Gms.	1	18,000	8,747

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.

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Industry	Accounting Unit	No. of Units	Installed Capacity	*Estimated Production
	CHEMICALS—*Contd.*			
(*h*) Hormones:—				
Cortice Steride Hormones	Kgms.	2	240	134
Testosterone and other Hormones	Gms.	2	218	34
(*i*) Anti-Diabetes:—				
Tolbutamide and Carbutamide	Kgms.	1	3,600	427
Anti-Pyretic and Analgesics :—				
Aspirin	Kgms.	1	136,000	59,269
Phenacetin B.P.	,,	1	22,000	14,151
Sodium Salicylate	,,	4	1,200,000	243,500
Vitamins :—				
Vitamin "A"	M.M.U.	2	20	15
Vitamin "B_{12}"	Gms.	1	4,000	1,226
Aromatic Chemicals :—				
Amyl Acetate (Perfumery Grade)	Kgms.	2	3,273	3,710
Amyl Salicylate	,,	2	6,545	2,635
Aurantial	,,	2	4,636	N. A.
Cedryl Acetate	,,	1	2,727	N. A.
Citronellol	,,	2	1,636	6,009
Citronellyl Acetate	,,	2	273	53
Geraniol	,,	2	8,182	22,659
Geranyl Acetate	,,	2	1,818	3,773
Hydroxy Citronellol	,,	2	2,000	5,159
Ionone	,,	2	4,364	4,924
Linallol	,,	2	545	386
Phenyl Ethyl Acetate	,,	2	2,727	N. A.
Essential Oils :—				
Eucalyptus Oil**	Metric Tonnes	—	—	136·0
Flavouring Essences	,,	12	300/325	260·0
Geranium Oil**	Kgms.	—	—	680
Lemon Grass Oil**	Metric Tonnes	—	—	1,067
Linalee Oil**	Kgms.	—	—	2,722
Palmarosa Oil**	Metric Tonnes	—	—	96·5
Rosin (Organised units)	,,	3	12,390	11,350
Sandalwood Oil	Kgms.	6	146,420	126,959
Turpentine Oil (Organised units)	Litres	3	3,341,281	2,800,000
Resinoids :—				
Balsan Telu	Kgms.	2	4,364	733
Benzoin	,,	2	7,273	2,299
Styrax	,,	2	8,182	3,307
Dye Stuffs :—				
Azo Dyes	Thousand Kgms.	3	1,397	1,219
Basic Dyes	,,	2	75	50
Fast Colour Basis	,,	2	764	366
Fast Colour Salts	,,	2	217	46
Naphthols	,,	3	1,069	785
Optical Bleaching Agents	,,	4	198	168
Organic Pigments	,,	3	504	180
Solubilised Vats	,,	3	202	101
Stabilised Azoics	,,	4	445	176
Sulphur Black	,,	2	1,832	1,448
Vat Colours (Commercial Strength)	,,	2	482	473
Coke Oven and Coal Tar Distillation Products :—				
Benzene	Thousand Litres	4	7,333	4,647
Creosote Oil	,,	6	†	5,010
Crude Coal Tar	Th. Metric Tonnes.	13	363	212
Motor Benzol	Thousand Litres	4	11,144	4,060
Naphthalene Refined	Metric Tonnes	4	588	635
Pitch	,,	4	†	4,900
Road Tar	,,	4	†	7,670
Solvent Naphtha	Thousand Litres	5	†	446
Toluene	Thousand	4	3,213	1,052
Industrial Explosives :—				
Industrial Explosives	Metric Tonnes	1	4,500	6,396
Safety Fuses	Number of Mil. Coils of 24′ length	2	6·68	1·70

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.
** These Oils are produced on a cottage industries scale. As such authentic statistics about their production are not available.
† No separate installed capacity for these items.

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Industry	Accounting Unit	No. of Units	Installed Capacity	*Estimated Production
CHEMICALS—*Concld.*				
Paints and Varnishes :—				
Alkyd Resins	Tons	12	4,040	2,910
Aluminium Pastes	"	1	500	421
Chrome Colours	"	10	—	870
Nitrocellulose Lacquers	Lakh Gallons	8	8·0	3·6
Paints	Tons	53	71,160	52,000
Phthalocyanine Blue	Lbs.	1	—	116,330
Red Lead	Tons	3	8,360	3,690
Titanium Dioxide (Anatase)	"	1	3,600	2,640
White Lead	"	2	3,720	900
Zinc Oxide	"	5	17,100	8,220
MINERAL				
Abrasive Grains	Tons	2	2,064	890
Asbestos Cement Sheets	Metric Tonnes	6	243,390	208,820
Cement	Tons	32	(Million) 8·57	7,685,905
Ceramics :—				
(*i*) Glazed Tiles	Dozens	5	1,173,216	767,884
(*ii*) Insulators :—				
(*a*) H.T.	Tons	7	4,652	2,545
(*b*) L.T.	"	13	7,974	4,054
(*iii*) Sanitarywares	"	18	8,760	5,952
(*iv*) Stoneware, Other kinds	"	24	11,520	7,692
(*v*) Stoneware Pipes	"	19	67,872	56,391
(*vi*) Whitewares	"	42	39,984	27,214
Enamelware	Million Pcs.	22	30·00	13·00
Glass and Glassware :—				
(*i*) Bottlewares	Tons	94	223·112	110·290
(*ii*) Glass Shells	Million Pcs.	3	43·18	42·50
(*iii*) Laboratory Glasswares	Tons	16	9,384	4,837
(*iv*) Lampwares	"	82	45,759	19,600
(*v*) Miscellaneous Glasswares	"	29	14,325	6,705
(*vi*) Sheet Glass	Million Sq. Ft.	4	120·96	78·07
(*vii*) Table and Pressedwares	Tons	80	77,694	38,950
(*viii*) Thermos Flasks	Dozens	6	297,300	121,320
Graphite Crucibles	Nos.	15	1,000,000	916,949
Liquid Gold	Ozs.	5	456,000	168,600
Pencils	Gross	15	1,720,200	1,075,024
Refractories	Tons	46	814,320	538,500
TIMBER AND CELLULOSE				
Rayon :—				
Continuous Filament Acetate Rayon Yarn	Metric Tonnes	1	1,800	1,946
Continuous Filament Viscose Rayon Yarn	"	5	21,400	18,909
Cellophane	"	1	3,600	2,127
Viscose Staple Fibre	"	1	21,600	21,792
Paper and Paper Board :—				
Kraft Paper and Wrapping Paper	Tons	25	4,00,000	67,412
Miscellaneous Varieties	"			8,533
Printing and Writing Paper	"			216,684
Pulp and Paper Board	"			57,371
TOTAL	"	25	4,00,000	3,50,000
Newsprint, Carbon Paper :—				
Carbon Paper	Boxes of 100 sheets	5	2,844,000	2,583,776
Duplicating Stencils	Reams	3	28,000	47,427
Newsprint	Tons	1	30,000	24,019
Typewriter Ribbons	Dozens	5	216,200	126,052
Timber :—				
Battery Separators (Wooden)	Nos.	3	20,000,000	11,050,517
Chipboard (Particle Board)	Sq. Ft.	1	6,000,000	847,175

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.

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Industry	Accounting Unit	No. of Units	Installed Capacity	* Estimated Production
TIMBER AND CELLULOSE—*Contd.*				
Cork Products :—				
(*i*) Discs	Gross	1	3,000,000	6,41,666
(*ii*) Sheets	Sq. Ft.	2	10,800,000	4,761,117
(*iii*) Stoppers	Gross	2	1,380,000	1,452,641
Hard Board	Sq. Ft.	2	29,250,000	8,943,632
Jax Board (Reed Board)	,,	1	9,000,000	467,051
Jute Based Board	,,	1	2,160,000	1,310,784
Plywood :—				
(*i*) Commercial	Sq. Ft.	71	201,000,000 (2 Shift basis)	64,325,825
(*ii*) Teachest	,,			102,963,628
Matches	Cases of 50 Gr. Boxes of 60 sticks each	62	905,796	656,519
LEATHER AND RUBBER				
Leather Industries :—				
‡ Chrome Tanning of Hides by Organised units	Hides	12	1,549,000	770,000
†† Vegetable Tanning of Hides by Organised units—(expressed in terms of cow hides—one buffalo hide = two cow hides)	In terms of cow hides	32	4,422,120	2,600,000
† Indigenous Type of Leather Footwear by Organised units	Pairs	12	§	3,770,000
** Western Type of Leather Footwear by Organised units	,,	12	7,011,600	5,300,000
Glue	Metric Tonnes	9	2,835,600	1,879,348
Myrobalan Extracts	,,	4	12,432	1,850
Pickers	Gross	5	29,760	9,500
Rubber Manufactures :—				
Belt :—				
(*i*) Fan Belts	Nos.	7	1,298,800	1,096,253
(*ii*) Vee Belts (Industrial)	,,	5		931,593
Camel Back	Kgms.	10	2,964,866	4,922,660
Dipped Rubber Goods	Thousand Dozens	13	44,427	32,738
Ebonite	Kgms.	14	583,640	123,445
Hoses :—				
(*i*) Radiator Hoses	Nos.	9	546,300	252,724
(*ii*) Vacuum Brake Hoses	Thousand Nos.	4	1,080	316
(*iii*) Other Types of Hoses	Thousand Metres	14	3,460	3,480
Latex Foam Sponge	Thousand Kgms.	7	547	1,243
Rubber Components of Railway Fittings (Springs)	Thousand Nos.	4	1,536	611
Rubber Footwear	Thousand Pairs	19	48,771	42,266
Tyres :—				
(*i*) Automobile				
(*a*) Giant	Thousand Nos.	3	974·5	903·5
(*b*) Motor	,,	2	366·6	335·9
(*c*) Motorcycle	,,	2		95·8
(*ii*) A.D.V.	Nos.	2	47,160	48,353
(*iii*) Aero	,,	1	4,320	3,125
(*iv*) Bicycle	Million Nos.	9	14·6	10·8
(*v*) Cab	Metres	3	391,620	62,993
(*vi*) Off-The-Road	Nos.	2	3,000	3,713
(*vii*) Tractor	,,	2	38,040	46,762
Tubes :—				
(*i*) Automobiles				
(*a*) Giant	Thousand Nos.	2	775·9	806·4
(*b*) Motor	,,	2	458·2	348·8
(*c*) Motorcycle	,,	2		98·8
(*ii*) A.D.V.	Nos.	2	67,200	62,873
(*iii*) Aero	,,	2	2,880	1,005
(*iv*) Bicycle	Million Nos.	8	13·8	12·5
(*v*) Off-The-Road	Nos.	2	5,760	2,810
(*vi*) Tractor	,,	2	42,360	50,641
Water-proof Fabrics	Metres	13	691,145	3,494,245

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.

** In addition, Western type of leather footwear is also produced on a cottage and small scale industry basis in many parts of the country. Agra is the best known and is the largest Western type footwear producing centre on cottage and small scale industry basis. Annual production by this method is estimated at 12 to 13 million pairs.

† In addition, indigenous type of leather footwear is also produced on cottage and small scale industry basis in almost all parts of the country. Production from this source is estimated at 65 to 70 million pairs annually.

†† In addition, vegetable tanning of buffalo and cow hides is also carried on on cottage industry basis in almost all villages and on small scale basis by over 500 tanneries mostly situated in South India. The annual output of tanned buffalo and cow hides by the two sections combined is estimated at 16 to 17 million tanned hides. In addition this section of the industry also processes about 24 million goat and sheep skins a year for vegetable tanning.

‡ In addition, there are about 250 small scale chrome tanneries mainly situated in the Calcutta area and owned and run by the Chinese Community. Their annual output is estimated at about 1·5 million hides.

§ There is no installed capacity as these are handmade and production depends upon demand.

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Industry	Accounting Unit	No. of Units	Installed Capacity	*Estimated Production
Cigarettes*	OTHERS Million Pcs.	15	31,878	32,878
Food Industries :—				
Beer and Ale	Litres	2	13,640,000	10,309,899
Biscuits	Metric Tonnes	40	31,020	21,403
Breakfast Food :—				
(i) Corn and Wheat Flakes	,,	4	1,982	190
(ii) Processed and Pearl Barley	,,	4	5,000	1,550
(iii) Processed and Rolled Oats and Oat Flakes	,,	4	1,424	430
Chocolate and Cocoa Powder :—				
(i) Chocolate (including Drinking Chocolate)	,,	3	1,079	730
(ii) Cocoa Butter and Cocoa Powder	,,	3	445	80
Confectionery	,,	43	52,672	15,180
Flour Milling	,,	64	2,051,928	947,834
Liquid Glucose and Dextrose :—				
(i) Liquid Glucose	Metric Tonnes	3	11,582	8,500
(ii) Dextrose Powder	,,	4	7,315	2,660
Plastic Goods :—				
Injection Moulding and Compression Moulding	Million Gross	50	..	5·70
Leather Cloth	Thousand Yards	6	8,950	6,081
Linoleum	Thousand Lineal Yards	1	500	586
Phenol Formaldehyde Moulding Powder	Tons	4	3,360	2,041
Phenolic Laminates	,,	1	600	567
Polyethelene	,,	1	3,500	3,361
Polystyrene Moulding Powder	,,	1	4,500/5,400	3,708
Polythene Films and Layflat Tubings	,,	7	1,032	1,251
PVC (Flexible) Sheetings (Unsupported)	,,	2	1,232	961
Urea Formaldehyde Moulding Powder	,,	3	742	353
U. F. Resins for Plywood	,,	1	2,160	N.A.
Alcohol :—				
Power Alcohol	Thousand Litres	20	..	52,636
Rectified Spirit	,,	51	..	36,814
Denatured Spirit	,,	51	..	25,718
Vegetable Oils :—				
Cotton Seed Oil	Tons	12	176,460†	11,942**
Oil Milling	,,	350	1,495,500†	318,900**
Solvent Extracted Oil from Oilcakes	,,	32	547,500††	23,440**
Soap and Toilet Goods :—				
Carboxy Methyl Cellulose	Tons	1	..	64
Face Cream and Snow	Lbs.	11	2,765,408	1,643,000
Glycerine (Refined)	Tons	9	7,578	5,530
Guar Gum	,,	2	6,192	6,530
Metallic Stearates	,,	3	312	102
Penta Chlore Phenol	,,	1	..	13
Powder :—				
(i) Face Powder	Thousand Lbs.	12	2,855	604
(ii) Toilet Powder	,,	12	3,202	5,684
Soap (Organised Sector Only)	Tons	90	253,270	136,400
Synthetic Detergent	,,	2	7,200	1,530
Textile Auxiliaries	,,	5	31,528	4,970
Tooth Paste	Thousand Lbs.	10	3,218	3,337
Tooth Powder	,,	6	1,411	587

* Based on actuals for the first 9 months and estimated production for October, November and December 1960.

** In terms of extracted Oil.

† In terms of Seeds.

†† In terms of Oil Cakes.

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PUBLIC SERVICES

Public Services in India can be broadly classified into four distinct categories: All India Services, Central Services, State Services and Local Bodies' Services. All India Services are common to the Union and the States and are created under Article 312 of the Constitution. The Central and State Services are intended for the administration in the respective fields assigned to the Union and the States under the Constitution. The Local Bodies in different States have their own Services though they may also utilise the State or All India Services for specific functions.

The Constitution provides for the setting up of a Public Service Commission for the Union and for each State. Two or more States may, however, join together to have a common Public Service Commission.

The Union Public Service Commission or the State Public Service Commission, as the case may be, is required under the Constitution to be consulted on all matters relating to the methods of recruitment to Civil Services and for civil posts and on the principles to be followed in making appointments to Civil Services and posts, and in making promotions and transfers from one service to another, as well as on disciplinary matters affecting a person serving under the Government of India or the Government of a State in a civil capacity.

However, the President in respect of the All-India Services and other services and posts in connection with the affairs of the Union, and the Governor in respect of the other services and posts in connection with the affairs of a State, may make regulations specifying the matters in which either generally or in any particular class of cases or in any particular circumstances, it shall not be necessary for the Public Service Commission to be consulted.

The Chairman and Members of the Union Public Service Commission, and of Joint Commissions if any, are appointed by the President of the Union while the chairman and members of a State Public Service Commission are appointed by the Governor.

A member of the Union Commission holds office for six years or till he attains the age of 65. A member of a State Commission also holds office for six years but retires earlier on attaining the age of 60.

In order to assure the independence of Public Service Commissions beyond doubt, the Constitution has provided that the Chairman of the Union Public Service Commission shall be ineligible for further employment either under the Government of India or under the Government of a State; the Chairman of a State Public Service Commission shall also be ineligible for employment either under the Government of India or under the Government of a State except as the Chairman or Member of the Union Public Service Commission or as the Chairman of any other State Public Service Commission. A Member of the Union Public Service Commission shall also be eligible for employment only as the Chairman of the Union Public Service Commission or as the Chairman of a State Public Service Commission. And a Member of a State Public Service Commission shall be eligible only for appointment as the Chairman or Member of the Union Public Service Commission or as the Chairman of that or any other State Public Service Commission.

The Chairman or any Member of a Public Service Commission shall only be removed from his office by an order of the President on grounds of misbehaviour after the Supreme Court, on reference being made to it by the President, has, on inquiry held in accordance with the procedure prescribed in that behalf, reported that the Chairman or such other Member, as the case may be, ought on any such ground to be removed.

In the discharge of their functions, the Union and State Commissions conduct examinations for recruitment to Government services.

The Union Public Service Commission also serves as the Commission for the Union Territories.

The annual reports of the Public Service Commissions which are required to include a list of cases in which Government did not accept the advice of Commissions, together with memoranda from the Government explaining the reasons for non-acceptance of the advice of the Commissions on such matters, are placed before the appropriate legislature.

In addition to the Union Public Service Commission, there are the following Public Service Commissions in different States:—

Andhra Pradesh Public Service Commission (Hyderabad).

Assam Public Service Commission (Shillong).

Bihar Public Service Commission (Patna).

Gujarat Public Service Commission (Ahmedabad).

Jammu & Kashmir Public Service Commission (Srinagar).

Kerala Public Service Commission (Trivandrum).

Madhya Pradesh Public Service Commission (Indore).

Madras Public Service Commission (Madras).

Maharashtra Public Service Commission (Bombay).

Mysore Public Service Commission (Bangalore).

Orissa Public Service Commission (Cuttack).

Punjab Public Service Commission (Patiala).

Rajasthan Public Service Commission (Jaipur).

Uttar Pradesh Public Service Commission (Allahabad).

West Bengal Public Service Commission (Calcutta).

ALL INDIA SERVICES

There are two All India Services — the Indian Administrative Service (I.A.S.) and the Indian Police Service (I.P.S.). The members of these Services are allotted to the State Governments and they are also appointed to posts under the Central Government on deputation.

Recruitment to the two All India Services is made on the basis of an open competitive written examination, supplemented by a personality test, conducted by the Union Public Service Commission, except for 25 per cent of the senior Duty Posts in the various State cadres of the two Services which are reserved for promotion from the State Civil Service and the State Police Service respectively.

The rules also provide that the Central Government may, in special circumstances and on the recommendations of the State Government concerned and in consultation with the Union Public Service Commission, recruit to All India Services any person of outstanding ability and merit serving in connection with the affairs of the State, even though such a person may not be a member of the State Civil Service. Such persons can be appointed up to a maximum limit of 15 per cent of the posts reserved for promotion for the State Civil Service officers in any particular State Cadre.

The total authorized cadre strength of the I.A.S. and I.P.S. in the different States was 2,010 and 1,089 respectively as on 1st January 1961.

The new authorised strength of I.A.S. cadres of various States is as: Andhra Pradesh—151; Assam—80; Bihar—188; Gujarat—110; Maharashtra—155; Madhya Pradesh—180; Madras—141; Orissa—100; Punjab—141; Uttar Pradesh—249; West Bengal—139; Mysore—100; Rajasthan—137; Kerala 71 and Jammu and Kashmir—33, and Delhi and Himachal Pradesh—35.

The I.P.S. cadre stood at 1,210 in March 1961. It is felt that the expansion in this cadre in the next ten years will be to the extent of 662 over the present strength.

During 1960, 73 and 48 officers were appointed to the I.A.S. and I.P.S. respectively on the results of the competitive examinations conducted by the U.P.S.C. During the same period 35 and 22 officers were appointed by promotion to the I.A.S. and I.P.S. from the State Civil Service and the State Police Service respectively.

The States Reorganisation Commission's recommendation that at least 50 per cent of new entrants to the All-India Services be from "outside a State" has been implemented in case of both the I.A.S. and I.P.S.

Figures collected since 1957 show that out of 267 appointments made to the I.A.S. through open competitive examinations, 161 candidates (60 per cent) were allotted to States other than to which they belonged. In respect of the I.P.S. also, 114 candidates (61 per cent), out of 189, were posted in States other than those of their origin.

CENTRAL SERVICES

The total number of Central Government employees (excluding those serving in Union Territories) on 30th June 1959 was 19,85,616 of which the Railways accounted for 11,54,752 (58.14 per cent), the Posts and Telegraphs 2,35,754 (11.87 per cent), the Civilians under the Ministry of Defence 2,67,124 (13.45 per cent) and others 3,27,986.

All employees declared surplus as a result of the economy drive are reported to the Special Cell in the Directorate General of Employment and Training, which has been created for re-absorption of surplus employees in alternative posts. All vacancies occurring in Central Government offices are also reported to the Special Cell. Surplus employees on the register of the Special Cell are given top priority for employment in these vacancies. Vacancies against which they cannot *prima facie* be considered are released to the Regional Employment Exchange.

Recruitment to the non-technical Central Class I Services also takes place on the basis of an open competitive written examination conducted by the Union Public Service Commission.

The following are the more important among the class I Central Services:—

Archaeological Service (Class I); Botanical Survey of India (Class I); Central Engineering Service (Class I); Central Electrical Engineering Service (Class I); Central Health Service (Class I); Central Revenues Chemical Service (Class I); Central Secretariat Service: (*a*) Selection Grade, (*b*) Grade I, (*c*) Grade II; General Central Service (Class I); Geological Survey of India (Class I); Indian Audit and Accounts Service; Indian Defence Accounts Service; Indian Foreign Service (Class I); Indian Meteorological Service (Class I); Indian Postal Service (Class I); Indian Posts and Telegraphs Traffic Service (Class I); Indian Revenue Service: (*a*) Customs Branch (Indian Customs Service, Class I), (*b*) Central Excise Branch Central Excise Service (Class I), (*c*) Income Tax Branch (Income Tax Service, Class I); Indian Salt Service (Class I); Mercantile Marine Training Ship Service (Class I); Mines Department (Class I); Overseas Communications Service (Class I); Survey of India (Class I); Telegraph Engineering Service (Class I); Zoological Survey of India (Class I); Indian Frontier Administrative Service (Class I); Central Legal Service (Class I); Railway Inspectorate Service (Class I); Indian Foreign Service (Branch B); Central Information Service; Indian Supply Service (Class I) and Indian Inspection Service (Class I).

Two other services which will be constituted soon are the Indian Economic Service and the Indian Statistical Service.

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QUALIFICATIONS

The lower levels of Government services are generally not required to have a university degree. The educational qualifications and in certain cases, the age limits for recruitment to the various Government services have been changed following the decision on the recommendations made by the Public Services (Qualifications for Recruitment) Committee. The Committee was set up in April 1955 to examine how far, and at what levels, the possession of a university degree was necessary for recruitment to the Government services.

The higher level of Government services, All India and Central Class I, will continue to require a candidate to possess a university degree as recommended by the Committee. The age limit will also remain unchanged at 21 to 24 years generally and 20 to 24 years for the Indian Police Service.

INDUSTRIAL MANAGEMENT POOL

In order to build up a pool of officers for manning the managerial posts in the public enterprises whether run directly by Government or Corporations or Companies in which Government have a controlling interest, Government have sanctioned the constitution of an Industrial Management Pool. The Pool consists of seven senior grades and a junior grade each with a different pay scale. Within each grade persons appointed to the Pool are not accorded any intense order of seniority and they are eligible for promotion to the next higher grade on merit by selection.

Recruitment to the Pool was entrusted to the Union Public Service Commission. In February, 1959, the Commission published a list containing 212 names of persons recommended for appointment to the various grades of the Pool.

Of these 212 officers, 130 have accepted the offer, 69 have declined and three have been found unsuitable for appointment to the Pool. All the 130 officers have been assigned to the Central Ministries.

SCIENTISTS' POOL

The Scientists' Pool under the Council of Scientific and Industrial Research was established in 1958, to provide temporary placement for well-qualified Indian scientists, technologists, engineers and medical personnel until they are absorbed in regular employment. This Pool is mainly intended for scientific and technical personnel who return from abroad after acquiring high qualifications in their subjects. There is also provision for the appointment of persons with Indian qualifications who have outstanding academic records. All persons enrolled in the Indians Abroad Section of the National Register of Scientific and Technical Personnel are considered for the selection to the Pool. Advertisements are also issued periodically to enable suitable persons to apply.

Persons selected to the Pool are attached or seconded to Government Departments, State Undertakings, National Laboratories, universities or Scientific and technical institutions, and other establishments including those in the private sector.

About 500 persons had been selected to the Scientists' Pool by April 1961.

TRAINING

National Academy of Administration: In the context of the objectives of a welfare State and the need for the successful implementation of the Five Year Plans, it has been considered essential that civil servants, particularly those at the higher levels, should possess not merely professional skill and experience but also a wide outlook, greater adaptability and a deeper realisation of the ethics and obligations of public service. With this object in view, a combined course of training for new entrants to the All India Services and Central Class I Services, in background and foundational subjects, is now imparted at the National Academy of Administration which was set up at Mussoorie in September 1959. In this Academy, arrangements have also been made for providing refresher courses to older civil servants in order that officers working in different capacities under the State and Central Governments may have opportunities to study, reflect on and discuss subjects of general importance.

The Director of the Academy also functions as Director of Training, Government of India and in the latter capacity, co-ordinates the training programmes of probationers in the All India Services as well as Central Class I Services. He is, in addition, in overall charge of the Secretariat Training School at New Delhi, and advises the Commandant of the Central Police Training College, Mount Abu in drawing up the training programme of the probationers of the Indian Police Service.

Secretariat Training School: With the expanding activities of Government it was realised that the new entrants to the Central Secretariat Service could no longer acquire the requisite training "on the job," and that it was necessary to set up an organisation to give "pre-entry" training. To meet this need, the Secretariat Training School was started in Delhi in May 1948. It has since been placed on a permanent footing and functions as an Attached Office under the administrative control of the Union Ministry of Home Affairs.

The Secretariat Training School imparts training in various subjects including training in typewriting, to the ministerial staff of the Govt. of India, namely, Section Officers, Assistants and Lower Division Clerks who are recruited on the results of the Union Public Service Commission examinations and also to those who are already employed under the Government of India.

SERVICE CONDITIONS

The Public Employment (Requirement as to Residence) Act 1957 provides that there shall not be any condition of residential qualification for any public service in India except in regard to certain non-gazetted appointments in subordinate posts in the Telengana area of Andhra Pradesh and in the Union Territories of Himachal Pradesh, Manipur and Tripura. The special provisions made in respect of these areas will, however, be operative only for a short while.

The conditions of service of Central Government servants and norms of conduct for them are embodied in four sets of rules *viz.* the Fundamental and the Supplementary Rules, the Civil Service Regulations, the Central Civil Service (Conduct) Rules and the Central Civil Service (Classification, Control and Appeal) Rules. The Fundamental and the Supplementary Rules and the Civil Service Regulations were framed many years ago. The Conduct Rules and the Classification (Control & Appeal) Rules are more recent.

The Conduct Rules require every government servant to maintain integrity and devotion to duty. Government servants are expected to avoid participation in politics except to the extent of casting their votes by secret ballot at elections. They may not offer themselves as candidates even for municipal and other local authorities. It is open to the Government servants to organise associations of their own which have to be recognised by the Government in accordance with the Central Civil Services (Recognition of Service Associations) Rules so that they may be able to promote their service interests. The Conduct Rules disallow non-industrial employees to organise strikes or demonstrations in furtherance of their service interests.

Staff Councils consisting of representatives of the different sections of employees and the nominees of Government have been in existence in some of the Ministries and other organisations for the purpose of promoting employer-employee understanding and to serve as a forum for discussion of general questions affecting the employees' conditions of service. The question of replacing them by whitley-type machinery has been under consideration on the basis of the recommendations made by the Central Pay Commission presided over by Shri Jagannath Das.

The Conduct Rules for the All India Services and the Railway Services require, as in the case of the Central Civil Services, that Government servants' transactions in immovable and movable property should in specified circumstances be reported to Government either for their information or for according sanction to those transactions. Officers of the All India Services and of the Class One Central Services may not take up commercial employment within two years of their retirement from Government service without first obtaing Government's permission. The son, daughter or other dependant of such officers may take up employment with a private firm having dealings with Government only after the officer concerned has reported the facts to Government and obtained their permission.

ADMINISTRATIVE VIGILANCE DIVISION

The Administrative Vigilance Division in the Ministry of Home Affairs functions on the basis that the main effort and initiative in dealing with the problem of corruption must come from within each Ministry and Department and that the main responsibility in this behalf is that of the Secretary of the Ministry or Head of the Department. Each Ministry or Department has appointed a Vigilance Officer who assists the Secretary or Head of the Department in this behalf. At present there are 37 Vigilance Officers in the Ministries for dealing with cases arising in the Ministries proper. However, all cases relating to members of the Services controlled by the Ministry of Home Affairs *viz.* All India Services (where it is proposed to impose punishments of dismissal, removal or compulsory retirement), Central Secretariat Service, Central Secretariat Stenographers' Service, Central Secretariat Clerical Service and the Services in the Union Territories, are dealt with in the Ministry of Home Affairs.

Vigilance Officers have also been appointed in the attached and subordinate offices and in the Corporations and semi-Government and non-Government organisations (not falling within the definition of Attached and Subordinate offices). There are 447 such Vigilance Officers who deal with complaints and vigilance cases arising against officers serving in these offices and organisations. The Vigilance Officer in the Ministry controlling these offices and organisation provides necessary guidance and advice in such matters as may be referred to him and ensures quick disposal of cases.

Separate Directorates of Inspection look after the vigilance work in the Income-tax and Customs Departments. The Railways have a separate Vigilance Directorate.

The other technical units that at present function are: Engineering Vigilance cell in the Railways, Chief Technical Examiner's Cell in the Ministry of Works, Housing and Supply, Engineering Cell in the Army Headquarters, Directorate of Revenue Intelligence in the Ministry of Finance, Enforcement Directorate for Foreign Exchange Regulations in the Ministry of Finance, and the Fraud Squad of the Special Police Establishment.

To ensure that departmental enquiries are quickly disposed of and that such enquiries are conducted according to the prescribed procedure, two Commissioners for Departmental Enquiries are functioning under the administrative control of the Division.

During the period from April 1, 1956 to the end of 1960 the Division dealt with 40,617 complaints and 27,713 vigilance cases.

132 gazetted officers and 2,700 non-gazetted employees were dismissed, removed, compulsorily retired or reduced in rank. Minor penalties were imposed on 274 gazetted officers and on 9,286 non-gazetted officers.

In 1960, out of 10,721 complaints including those pending from the previous year, 2,362 complaints related to gazetted officers (22 per cent) and 8,359 related to non-gazetted employees (78 per cent). 1,333 complaints against the gazetted officers and 3,603 complaints against non-gazetted employees had to be dropped without enquiry or after enquiry as

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the complaints were either vague and did not contain verifiable allegations or the allegations were proved to be baseless. Only 564 complaints against gazetted officers and 3,048 complaints against non-gazetted employees could be taken up for further action.

The Division has undertaken the scrutiny of reports of Parliamentary Committees like the Public Accounts Committee and the Estimates Committee with a view to finding out which of the irregularities reported by such committees conceal elements of lack of integrity. During 1960, 97 items reported by the Public Accounts Committee in their reports received during 1960 were brought to the notice of the various Ministries. 12 recommendations of the Estimates Committee were also referred to the various Ministries.

Special Police Establishment : The Special Police Establishment functions under the administrative control of the Division. The Fraud Squad of the S.P.E. which was set up in 1959, registered nine cases during 1960 in which 68 persons are involved.

During 1960 prosecution was launched in 259 cases and 205 cases were decided by courts. Of these, 162 cases resulted in conviction giving a percentage of successful cases at 79. The persons convicted include six gazetted officers and 112 other Government servants and one other person. Fines totalling Rs. 1,34,744 were also imposed by the courts in the above cases.

419 cases were decided departmentally during 1960 out of which 372 ended in punishment giving a percentage of successful cases at 88·8. In these 372 cases, 52 gazetted officers, 349 non-gazetted employees and four other public servants were punished.

1,282 public servants, including 172 gazetted officers were involved in the new cases taken up for investigation by the S.P.E. during 1960 as against 1,164 public servants including 207 gazetted officers in the new cases of the year 1959. In the new cases of 1960, there were 22 other public servants (employed in statutory bodies or other public undertakings) who are also equivalent in status to gazetted officers.

Fifty-nine traps were laid during 1960 as against 44 laid during 1959 in which 61 public servants were caught red-handed while accepting illegal gratification. They belonged to the Ministries of Railways (53); Defence (6); Finance (1); and Rehabilitation (1).

The Special Police Establishment of the Government of India took up 111 cases for open enquiries during June, 1961, involving 109 public servants of whom 23 were Gazetted Officers.

The Gazetted Officers belonged to the Ministries of Defence (4—all of them Commissioned Officers), Transport and Communications (5), Works, Housing and Supply (4), Railways (3), Bhilai Steel Project (2), and one each of Central Excise, Scientific Research and Cultural Affairs, Commerce and Industry, Information and Broadcasting, and Union Territory.

There were 8 trap cases during the month. In one of these cases, a Major of the Army Supply Corps was caught while accepting Rs. 300 as bribe. Six employees of the Railways and one of Communications were also caught red-handed while accepting bribes.

Convictions were secured in 15 cases during the month of June, 1961. Six non-Gazetted public servants and 2 private individuals were convicted. Substantial sentences of imprisonment were awarded in addition to fines amounting to Rs. 11,000.

Almost all States have appointed part-time Special Judges and Magistrates to try cases filed by the S.P.E.

ORGANISATION AND METHOD DIVISION

The O. & M. Division was established in March 1954 and was located in the Cabinet Secretariat. The objective was to develop consciousness of the need for administrative improvements, to Co-ordinate such work and to initiate new projects which may act as catalytic agents for further action by the Ministries. O. & M. Division is under the charge of a Director who is also concurrently the head of the Special Reorganisation Unit of the Finance Ministry and Secretary of the Committee on Plan Projects.

The first phase of the activities of the O. & M. Division was directed to building up certain elementary procedures which had been discontinued during the war as an emergency measure and which had to be adjusted to the necessities of the circumstances obtaining in the first few years of the post-Independence period. Most of the activities were, therefore, concerned with expediting disposal of papers received in the Secretariat and in keeping track of them with a view to avoiding delay. Several special task groups were set up to carry out studies of problems having a bearing on the disposal of work. The first phase was, therefore, essentially one of creating consciousness for an ordered improvement in the Secretariat.

The second phase of activities has just started. In association with the Special Reorganisation Unit and the Committee on Plan Projects, activities in the following directions will be undertaken :—

(a) Improvements in Procedural competence of Government, supervisory capacity, techniques of programming direction and control etc. (By O. & M. Division).

(b) Work studies of organisations, matching of work load and staffing and such other aspects of economy in expenditure as may arise during the course of work studies. (Special Reorganisation Unit).

(c) Cost reduction in projects. (Committee on Plan Projects). The personnel in the three Units are utilised in an integrated way as all the three types of activities have close relationship with each other.

The three units have undertaken training activities jointly. Work study courses, of varying duration, for different types of personnel have been arranged and 96 officials have so far been trained including a few from the State Governments. It is proposed to intensify training programmes so that O. & M. activities could be broad-based with the assistance of knowledgeable personnel.

Integration of Services : More than 80 per cent of representations, 5,357 out of 6,458, from the Government servants affected by the States Reorganisation have been disposed of by the Central and State Committees advising on the integration of services (March 1961).

The cases generally relate to seniority, service conditions, etc.

Till November 1960, the Central Committee received 2,943 representations and recommended action on 1,528. The State Advisory Committees passed orders on 3,297 representations out of 3,515 received during the same period.

Provisional orders had also been issued allocating the personnel of the former Bombay State to the new States of Gujarat and Maharashtra, which came into existence on May 1, 1960.

PAY COMMISSION REPORT

The Second Pay Commission was appointed in Aug. 1957 to ward off a general strike threatened by Posts and Telegraphs and other Central Government employees.

The members of the Commission were Mr. Jagannadha Das (Chairman), Dr. V. B. Gandhi, Mr. N. K. Sidhanta, Prof. M. L. Dantwala, Mrs. M. Chandrasekhar, Mr. L. P. Singh (Secretary), Mr. H. F. B. Pais (Associate Secretary).

Towards the end of 1957 the Commission submitted an interim report on which Government issued orders in Dec. 1957.

The final report was submitted to Government on Aug. 24, 1959 and was laid on the table of the Lok Sabha on Nov. 30, 1959.

The details of the report are given in the 1960-61 Directory.

GOVERNMENT DECISIONS

On August 2, 1960 the Finance Member laid on the table of the Lok Sabha a statement giving the Government of India's decisions on the recommendations of the Pay Commission. These differed in many respects from the ones that were announced earlier.

The total cost to the exchequer would now be about Rs. 44 crores annually. The earlier estimate was Rs. 29 crores.

Below we give a brief summary.

Briefly, it may be stated that the Government has accepted all the major recommendations of the Pay commission with a financial bearing.

The pay structure is changed with the minimum wage fixed at Rs. 80 a month.

In the place of the 500 odd pay-scales there would now be only about 140.

The earlier decision to give effect to these new scales from November 1, 1959, has been rescinded and the date proposed by the Commission, namely, July 1, 1959, adopted.

Further the arrears for the entire period will be paid in cash.

The Commission's recommendations regarding the liberalisation of retirement benefits, casual leave and holiday and leave travel concessions have been accepted, as also the suggestions about converting temporary into permanent posts.

Central Government employees are further to be brought in line with Railway employees in the matter of educational facilities for the children of the staff who get less than Rs. 300 a month. These children will be eligible for education at boarding schools of their choice in the absence of suitable facilities at stations of posting.

The maximum house rent recoverable from employees getting less than Rs. 150 will be 7-1/2 per cent. of the pay. A compulsory provident fund scheme will be introduced to which employees will be required to contribute 6 per cent. of their pay. Class IV employees will have the option of a slightly lower contribution range.

Government have accepted the recommendation of the Commission that if during a period of 12 months the consumer price index remains on an average 10 points above 115, the Government should review the position and consider whether an increase in the allowance should be allowed ; and if so, at what rate.

Orders have already been issued implementing the decisions on the recommendations relating to pension which were announced on 30th November, 1959. Government have agreed to liberalise these orders by accepting the Commission's recommendation that special pay should also count for pension in full if the post to which it was attached was held in a substantive capacity, and to the extent of half in all other cases.

The Government have accepted and already announced their decisions on the Commission's recommendations regarding the grant of gratuity to temporary and quasi-permanent employees on their retirement, discharge from service, or death, and improvement of death gratuity in the case of permanent employees who die

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before completing five years of qualifying service, as also in respect of employees who are governed by the Contributory Provident Fund Scheme.

The recommendations of the Commission for improvement or liberalisation of retirement benefits in the case of scientists and technologists have also been accepted and orders issued.

Below we give some typical new pay-scales. The existing scales are given in brackets.

Indian Audit and Accounts Service: Class I—Rs. 400—1,250. ((I) Rs. 600—1,150, (II) Rs. 350—850).

Central Secretariat Service—Class I: Grade I: Rs. 900—1,200. (Rs. 800—1,150). Grade II: Rs. 350—900 (Rs. 530—800).

Section Officers: Rs. 350—900 (Rs. 530—800 (II) Rs. 275—500).

Central Secretariat Service—Class II: Assistants: Rs. 210—530 (Rs. 160—450). Stenographers: Rs. 210—530 ((I) Rs. 250—375, (II) Rs. 160—330).

Central Secretariat Stenographers' Service: Grade I: Rs. 350—600 (Rs. 275—500). Grade II: Rs. 210—530 ((I) Rs. 250—375, (II) Rs. 160—330).

Central Secretariat Clerical Service: Grade I: Rs. 130—280 (Rs. 80—220). Grade II: Rs. 110—180 (Rs. 60—130).

Stenographers: Non-Secretariat: Rs. 130—300 (Rs. 80—220).

U.D.C. Secretariat: Rs. 130—280 (Rs. 80—220).

U.D.C. Non-Secretariat: Rs. 130—300 (Rs. 80—220).

L.D.C. Secretariat: Rs. 110—180 (Rs. 60—130).

L.D.C. Non-Secretariat: (I) Rs. 150—240. (II) Rs. 110—180 (Rs. 60—130).

Staff car drivers: Rs. 110—139 (Rs. 60—75).

Despatch riders: Rs. 100—180 ((I) Rs. 55—85). (II) (Rs. 50—65).

The Government of India has accepted in principle the recommendation of the Second Pay Commission that a scheme of educational assistance similar to the one in operation in the Railways should be introduced for Central Government employees whose salary does not exceed Rs. 300 per mensem.

This is to enable them to send their children to boarding schools of their choice if suitable teaching facilities do not exist at the station where they are posted.

The details of the scheme are now being worked out (March 1961).

The Union Ministry of Finance have accepted all the recommendations of the Pay Commission in regard to casual labour including that on payment of remuneration (Feb. 1961).

It has been decided that casual labour should be paid at market rates subject to the condition that where the market rates are lower than the minimum wages fixed by the respective State Governments for comparable scheduled employments, the wages shall be the minimum wages fixed by the State Governments.

Other three recommendations of the Pay Commission accepted by the Finance Ministry are:

1. Casual employment should be restricted to work of a truly casual nature and in order to ensure that this is done, there should be a general review of the existing position;

2. All casual labour under the Central Government including those to whom the minimum wages law is not applicable, should have the benefits and safeguards provided by Rules 23-25 of the Minimum Wages (Central) Rules, 1950 relating to weekly holidays, working hours, night shifts and payment for overtime and

3. Long experience as casual labour should be taken into consideration while making selections for appointment to regular establishments.

The decisions of the Finance Ministry have already come into force.

Two lakh persons working under the various establishments of the Government of India come under the category of casual labour. The Ministry of Railways employs about 1·6 lakhs as casual labour and the rest are employed in the other Ministries including Defence, Posts and Telegraphs and the Central Public Works Department.

A minimum wage has also been fixed. The total expenditure involved as a result of the new decisions is expected to be a few crores of rupees.

The Government have approved of a revised scale of pay for general service officers of the Army. The scale of pay of the other categories of Army officers as well as those of the Navy and the Air Force were being worked out on the basis of the approved Army scale (Oct. 1960).

STATISTICS

Below we give the total number of employees of the Central Government from 1950 (excluding railways and Indian missions abroad).

1950: 577,386; 1951: 590,662; 1952: 615,493; 1953: 616,211; 1954: 632,736; 1955: 647,841; 1956: 669,439; 1957: 689,271; 1958: 703,124; 1959 (Jan.): 715,659; 1959 (April): 721,805.

Below we show the distribution of employees by pay range (1956 (30th June) provisional figures):

Upto Rs. 50: 968,046; Rs. 51–100: 492,808; Rs. 101–150: 130,042; Rs. 151–200: 57,735; Rs. 201–250: 24,424; Rs. 251–300: 12,502; Rs. 301–350: 8,419; Rs. 351–500: 10,307; Rs. 501–750: 5,465; Rs. 751–1,000: 2,497; Rs. 1,001–1,500: 1,544; Rs. 1,501 to Rs. 2,000: 577; Rs. 2,001–3,000: 354; above Rs. 3,000: 69; not known: 919; total: 1,715,708 (Gazetted: 19,691; non-Gazetted 1,696,017).

Number of persons employed by department and class is given below. It excludes officers of the All-India Services (I.C.S., I.A.S., I.P.S.) and persons appointed to diplomatic posts on ad hoc basis and local personnel of missions abroad. The figures are as on 30th June, 1957.

EMPLOYEES—BY CLASS

Class	Railways	P & T	Defence civilians	Others	Total
Class I	2,578	485	1,307	6,021	10,391
Class II	756	932	1,167	16,415	19,270
Class III	224,422	146,631	58,351	123,759	553,163
Class IV	480,882	50,333	42,767	119,336	693,318
Workshop	288,608	6,459	156,219	15,849	467,135
Unclassified	16	..	11,101	19,176	30,293
TOTAL	997,262	204,840	270,912	300,556	1,773,570
Permanent	817,354	151,465	81,881	120,120	1,170,820
Temporary	179,892	46,916	177,930	161,260	565,998
Non-regular	16	6,459	11,101	19,176	36,752

EMOLUMENTS—BY CLASS

The number of persons employed under State Governments (1957 figures) and the average monthly emoluments of officers of various classes (figures in Rs. for 1958-59):

State	Senior Gazetted	Junior Gazetted	Subordinate	Class IV	Total	Average Monthly Emoluments (Rs.)				
						Class I	Class II	Class III	Class IV	All Classes
Centre	..	..	..	..	..	967	491	187	81	140
Assam	1,112	1,020	25,353	29,083	56,568	817	433	167	72	122
W. Bengal	1,887	1,126	90,834	31,272	125,119	1,185	502	134	67	128
Bihar	4,226	3,175	39,283	104,491	151,175	912	488	150	55	107
Orissa	1,884	1,465	38,735	29,063	71,147	921	475	128	57	112
M.P.	2,001	2,836	96,995	61,893	163,725	708	465	113	58	97
U.P.*	3,683	5,028	180,524	135,347	324,582	977	456	109	60	97
Punjab**	3,120	3,147	67,870	30,986	105,123	1,115	594	162	63	149
Kashmir	1,777	3,534	18,674	13,459	37,444	468	260	93	39	88
Rajasthan	2,479	1,631	74,981	67,274	146,365	741	493	133	64	109
Bombay††	..	..	..	..	255,473	785	468	168	79	164
Andhra†	2,363	2,949	150,480	42,584	198,376	901	491	137	51	122
Madras	2,077	1,245	97,239	25,635	126,196	991	515	141	61	109
Kerala‡	2,042	6,376	56,738	30,744	95,900	1,200	465	159	80	124
TOTAL	..	..	..	..	2,011,193	..	..	..	..	..

For Mysore the total number employed is 154,000 (1957).
* Position before 31st March 1959.
** Position before the pay revision of 1958.
† Position before the pay revision of 1958-59.
‡ Classes III and IV of State taken as Class III and Class V taken as class IV.
†† Bilingual.

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REFUGEES AND REHABILITATION

BELOW we give a few facts and figures for 1960–61.

Displaced persons from West Pakistan 47·40 lakhs; from East Pakistan 41·17 lakhs (including the post-census migration); total 88·57 lakhs.

Total estimated expenditure on D.P.s upto end of March 1961: Rs. 367·39 crores. Provision for 1961–62: Rs. 16·69 crores.

Total amount spent on D.P.s from West Pakistan: Rs. 189·29 crores.

On D.P.s from East Pakistan: Rs. 178·10 crores.

Dandakaranya: Rs. 7·00 crores.

Total expenditure (1960-61—R.E.): Rs. 23·27 crores.

The distribution of displaced persons among the various States was as follows.

Andamans and Nicobar Islands 9,500; Andhra Pradesh 4,000; Assam 4,87,000; Bihar 65,000; Bombay 4,15,000; Delhi 5,01,000; Himachal Pradesh 5,000; Madhya Pradesh 2,26,000†; Madras 9,000; Manipur 2,000; Mysore 7,000; Orissa 12,000; Punjab 27,37,000; Rajasthan 3,74,000; Tripura 3,74,000; Uttar Pradesh 4,97,000; West Bengal 31,32,000.

† This includes 9,300 persons sent to Dandakaranya.

GRANTS, LOANS

The figures are in Rs. crores and are upto March 31, 1961:

Rs. crores

	West Pakistan	East Pakistan	Total
Establishment ..	2·65	0·77	3·42
Grants ..	90·97	82·92	173·89
Loans ..	26·18	41·94	68·12
Housing ..	62·19	37·63	99·82
Miscellaneous ..	0·01	—	0·01
Dandakaranya ..	—	10·54	10·54
Rehabilitation Industries Corporation ..	—	0·35	0·35
Loans paid by R.F.A. (upto Dec. 31, 1960)	7·28	3·94	11·22
Total ..	189·29	178·10	367·39*

Loans advanced to State Governments for rehabilitation upto 31st March 1962 (includes 1961-62 budget):

Total: Rs. 7,113·27 lakhs (Western Zone: Rs. 25,35·41 lakhs; Eastern Zone: Rs. 40,12·60 lakhs; For Dandakaranya Project: Rs. 100·18 lakhs; For industrial purposes: Rs. 465·08 lakhs).

The total at the top does not include housing loans to States etc. and loans by Rehabilitation Finance Administration.

Loans to State Governments in 60-61: Rs. 355·32 lakhs (R.E.).

Loans to State Governments in 1961-62: Rs. 260·56 lakhs (B.E.).

EMPLOYMENT, HOUSING COMPENSATION

Placements of displaced persons through Employment Exchanges upto 31st December 1960:

Total: 2·69 lakhs (from West Pakistan 2·04 lakhs; from East Pakistan 0·65 lakhs). Total number of displaced persons remaining on live register as on 31-12-1960: 42,777.

Total number of residential units constructed/under construction for displaced persons from West Pakistan (upto Dec. 1960): 1·93 lakhs (by Government 1·66 lakhs; by private parties with Govt. assistance 0·27 lakhs).

Total number of residential units constructed/under construction for displaced persons from East Pakistan (upto Dec. 1960): 4·43 lakhs (by Government 0·11 lakhs; by private parties with Government assistance 4·32 lakhs).

Total number of houses/tenements State-wise for displaced persons from West Pakistan:

Andhra Pradesh 21; Bihar 621; Bombay‡ 43,801; Delhi 51,088; Jammu and Kashmir 4,026; Kerala 1,324; Madhya Pradesh 5,728; Madras 78; Mysore 55; Punjab 47,525; Rajasthan 3,592; Uttar Pradesh 19,720. In the townships of Faridabad 5,158; Gandhidham 4,349; Hastinapur 594; Nilokheri 985; Premnagar 1,477; Rajpura 2,572.

Total of shops/stalls: 28,396.

Total number of displaced families from East Pakistan settled on land upto 31st Dec. 1960: 6,39,800.

The total State-wise: Andamans 2,400; Assam 90,000; Bihar 13,700; Madhya Pradesh 2,600; Manipur 500; Orissa 2,900; Rajasthan 300; Tripura 68,800; Uttar Pradesh 3,600; West Bengal 4,55,000.

Total number of displaced persons from West Pakistan settled on land: 5,68,000.

During Dec. 1959, Jan. 1960 and Feb. 1960, the number of migrants to India from Pakistan were 1,026; 665 and 904 respectively.

Total number of claimants paid compensation as on 31st Jan. 1961: 4,83,840.

Total amount of compensation paid: Rs. 146,14,65,937.

Amount paid in Cash: Rs. 58,31,00,802.

Amount paid by transfer of properties: Rs. 65,27,07,807.

Amount paid by adjustment of public dues: Rs. 22,56,57,328.

Number of displaced persons from West Pakistan who had been paid compensation till the end of June, 1961: 4·93 lakhs.

Total amount of compensation paid upto Aug. 1961: Rs. 156·59 crores.

Number of persons whose claims were pending in Aug. 1961: 9,604.

No. of 1st and 2nd priority categories applications received (31st Dec. 1960): 1,89,559.

Residual no. of claims: 4,88,486.

No. of allottees (from W. Pakistan) given permanent proprietary rights in land upto 31st Dec. 1960:

In the Punjab: 2,69,000.

In other States: 15,000.

Area of land involved:

In the Punjab: 19,58,000 (Standard acres).

In other States: 41,000 standard acres plus 1,85,000 ordinary acres and Rs. 37 lakhs worth groves.

Amount spent by the Government of India on creating employment opportunities for the D.P.s from East Pakistan settled in West Bengal: Rs. 7·5 crores.

In West Bengal alone, about 4,32,000 displaced families have been given rehabilitation allowance costing the Union Government about Rs. 120 crores.

MISCELLANEOUS ITEMS

Relief:

No. of persons in receipt of gratuitous relief from Government upto Dec. 1960. No. of recipients (peak figure): 1,33,000.

Amount spent: Rs. 140 lakhs.

Industries:

Medium Industries for displaced persons from West Pakistan—

Number of schemes sanctioned	45
Investment on the part of Government	Rs. 192 lakhs
Number of displaced persons expected to be employed	9,400

Small/Cottage Industries for displaced persons from West Pakistan—

Number of schemes sanctioned	50
Expenditure involved ..	Rs. 15 lakhs
Number of displaced persons expected to be employed	1,300

Medium Industries for displaced persons from East Pakistan—

Number of schemes sanctioned (including those sanctioned by Rehabilitation Industries Corporation)	43
Investment on the part of Government	Rs. 539·00 lakhs
Number of displaced persons expected to be employed	15,900

Small/Cottage Industries for displaced persons from East Pakistan—

Number of schemes sanctioned	314
Expenditure involved ..	Rs. 136·10 lakhs
Number of displaced persons expected to be employed	18,400

Technical and Vocational Training—

Displaced Persons from West Pakistan—

Number trained	92,000

Displaced persons from East Pakistan—

Number trained	44,000
Number under training ..	2,000

During 1960–61, the Rehabilitation Ministry have approved the setting up of 45 training-*cum*-production centres and production centres for the benefit of displaced persons from East Pakistan in the Eastern Zone. The total expenditure on these schemes has been over Rs. 88 lakhs, and they provide employment facilities to nearly 5,000 persons.

More than eight lakh D.P.s from East Pakistan will have benefited by the Union Government's decision to convert certain types of loans given to them into grants.

* Does not include the following:—(In crores of rupees). The first figure within brackets indicates revenue upto 1960-61 and second, provision made in 1961-62 budget estimates. 1. Amount debited against revenue on account of write back of the amount paid as compensation to displaced persons from Capital to Revenue (53·06; 9·00); 2. Amount debited against revenue on account of transfer to Revenue and Capital of the loans to the Faridabad Development Board in the past (1·53; 0·57); 3. Amount of maintenance and educational loans paid to East Pakistan displaced persons in the past, converted into grants (0·65; 0·77); 4. Gross capital expenditure incurred on payment of compensation and Rehabilitation Grants to displaced persons from West Pakistan, excluding the value of evacuee property transferred or set in kind (103·91; 7·25); 5. *Ex-gratia* payments to migrants from Pakistan held area of Jammu & Kashmir (0·68; 3·25).

‡ Bilingual.

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The number of displaced persons from East Pakistan in West Bengal camps was 39,000 (Aug. 1961) against about 89,500 on Jan. 1, 1961. The number of camps in Aug 1961 was 53 as against 91 in 1960.

Administration of Evacuee Property Act:—The Lok Sabha passed a Bill to amend the Administration of Evacuee Property Act, on Feb. 11, 1960.

The Bill, among other things seeks to vest the Custodian of Evacuee Property with powers for assessing and recovering rent or damages and gives the Custodian-General greater powers with regard to the restoration of non-evacuee property.

Over 2·5 lakh students have benefitted every year during the last 10 years by the facilities provided by the Union Ministry of Rehabilitation for the primary education of children of D.P.s from East Pakistan. The Govt. of India have so far (March 1961) spent Rs. 5·22 crores on primary education in the Eastern Region.

REHABILITATION FINANCE ADMINISTRATION

(Church Road, New Delhi)

Chief Administrator, R. N. Hazari.
Asstt. Chief Administrator, D. L. Sondhi.
Chief Accountant, B. R. Suri.
Inspector (Law), S. Saran Singh.
Internal Auditor, G. G. Asnanee.

The relevant statistics are given in the table below. They show the position as at the end of December 1959:

Origin of applicants	Applications received	Applications disposed of	Applications sanctioned Net	Amount sanctioned Net	Amount paid
				Rs. lakhs.	Rs. lakhs.
West Pakistan	47,298	47,298	9,799	791·49	727·88
East Pakistan (Old) ..	18,451	18,451	4,332	328·48	377·65
East Pakistan (New) ..	23,872	23,256	1,789	102·02	
Total	89,629	89,005	15,920	1,221·59	1,105·53

Amount of total outstandings: Principal: Rs. 640·79 lakhs; Interest: Rs. 128·03 lakhs; Total: Rs. 768·82 lakhs.

Amount of recoveries made: Principal: Rs. 444·58 lakhs; Interest: Rs. 187·34 lakhs; Total: Rs. 631·92 lakhs.

REHABILITATION INDUSTRIES CORPORATION LTD.

In pursuance of the decision to create an effective machinery for setting up industries to provide employment to displaced persons, the Rehabilitation Industries Corporation was established in April 1959. It has an authorised share capital of Rs. 5 crores divided into 50,000 equity shares of Rs. 1,000 each.

The functions of the Corporation are to set up industries on its own or in partnership with private enterprise and to advance loans to private entrepreneurs for setting up industries and opening up new vistas of employment for displaced persons.

Upto the end of August 1960, the Corporation had sanctioned loans aggregating about Rs. 1·20 crores to 19 industrial units. These schemes when fully implemented will provide employment to about, 4,500 displaced persons.

Two 'Industrial Estates' one at Behala and the other at Bonhooghly (Calcutta) have also been sanctioned. The work relating to the Corporation was transferred to the Union Ministry of Commerce & Industry with effect from 1st September 1960.

Dandakaranya Scheme

The 1959-60 edition of the Directory carries the genesis and main features of the Dandakaranya Scheme. The object is to resettle displaced persons from East Pakistan and to develop the area generally with particular regard to the promotion of the interest of the area's tribal population. Reclamation of large areas of land for agricultural and other purposes, grant of loans to displaced persons and tribals for settlement, improvement of roads and communications, setting up of small-scale and cottage industries, etc. are included in the scheme.

The Prime Minister held discussions with the Chief Minister and Rehabilitation Minister of West Bengal and the Union Ministers of Rehabilitation and Law on the Dandakaranya Scheme on June 16, 1960 and the following broad decisions were reached: 1) The Dandakaranya Development Authority should be reconstituted to provide for a whole-time Chairman, and the Chief Secretary, West Bengal Govt. as a member of the Authority. 2) The Authority should be given a considerable measure of autonomy and should be asked to prepare a general five-year plan and more specific plan for the year. 3) Its chief function should be to rehabilitate displaced persons from East Pakistan. For this priority should be given to displaced persons at present in camps in West Bengal. 4) Displaced persons sent to Dandakaranya should be provided with shelter and other facilities pending full rehabilitation. 5) The work of the Rehabilitation Ministry was expected to be over in 12 to 15 months. Any unfinished work on the expiry of that period could be distributed to other Ministries of the Government of India or Govts. of West Bengal, M.P. and Orissa.

The Scheme made considerable progress after the appointment of the Shri Sukumar Sen as the full-time Chairman on September 1, 1960.

Upto the end of February 1961, 2,391 families consisting of 10,599 persons moved up to Dandakaranya.

On 31st Dec. 1960, the position of allotment of land to Displaced persons under compensation scheme was as follows:—No. of land claimants: 29,385; No. of land claimants whose cases have been settled: 21,650; Area allotted in acres 1,84,585; Amount of compensation paid in respect of claimants settled by transfer of properties by payment in cash and by adjustment of public dues: Rs. 3,58,34,311.

The Government of India have accepted the recommendation of the Dandakaranya Development Authority that seven acres of agricultural land should be allotted to a displaced agriculturist family in Dandakaranya.

Displaced agriculturist families would also be given 800 square yards for homestead plots and to develop horticulture, dairy, poultry etc. To supplement the income from the agricultural land and to keep the displaced families gainfully occupied during the off season, financial assistance for the development of cottage industries would also be given.

A total of 46,690 acres in Umerkote and Raigarh areas of Orissa, and 35,062 acres in Paralkote and 3,063 acres in Pharasgaon in Madhya Pradesh have so far been made available by the State Govts. to the Dandakaranya Development Authority.

Preliminary work for the construction of four dams in Dandakaranya, which, on completion, will irrigate a total area of over 1 lakh acres, was started during May 1961.

The four dams are: Umerkote Dam (commandable area—13,760 acres), Paralkote Dam on Deoda Nallah (commandable area—33,750 acres), dam on Potteru river (commandable area—20,000 acres) and Malkangiri Dam (commandable area—37,500 acres).

Considerable progress has already been made in the preliminary work relating to the Umerkote Dam, while the work connected with the other dams is at varying stages. The construction of all these dams is estimated to cost about Rs. 6 crores.

Amount spent on Dandakaranya Scheme upto the end of 1960-61: Rs. 10·54 crores. Provision for 1961-62: Rs. 7·00 crores.

SPORTS

The sports come within the purview of the Ministry of Education.

The main body for sports is the All India Council of Sports with H. H. the Maharaja of Patiala as President. (For a note on this see under Association in Delhi.)

There are also State Sports Councils.

A national plan is in operation called the National Plan of Physical Education and Recreation for promoting physical education.

The first national college of physical education —Rani Lakshmi Bai College—was set up at Gwalior in 1957. It offers a three-year degree course in physical education.

A Sports Committee appointed by the Government of India in July 1958 with H.H. the Maharaja of Patiala, President of the Indian Olympic Association, as the Chairman, submitted a Report to the Union Minister of Education, Dr. K. L. Shrimali, on 4th Feb. 1959.

The details of the Report were given in the 1959-60 edition of the Directory.

The Government of India have set up a National Institute of Sports at Patiala to provide adequate facilities for the training of coaches of the highest calibre in various games and sports.

The National Institute of Sports is managed by an autonomous board of Governors, consisting of nine persons. Lt. Gen. Sant Singh is its Director.

The Council of Sports decided to amalgamate the Rajkumari Sport Coaching Scheme, which had so far functioned independently, with the National Institute of Sports. This will cut down expenses and avoid duplication of projects.

The Union Ministry of Education had placed a sum of Rs. 9 lakhs at the disposal of the State Governments during 1959-60 for disbursement of grants to educational institutions for acquisition of playfields and play-grounds. An additional amount of Rs. one lakh was being allotted to the Centrally-administered areas for this purpose.

The provision of Rs. two crores made in the Second Five Year Plan for the development of games and sports was cut down to Rs. 70 lakhs. A sum of Rs. 9·98 lakhs had been spent for the above purpose during the period April 1, 1956 to July 31, 1959.

TOURNAMENTS

Below we give the results of the national tournaments and principal sporting events of the year 1960-61.

It was not a good year for Indian sports. We lost our 32-year-old world supremacy in hockey by losing to Pakistan in the Rome Olympic Games.

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The cricket series between India and Pakistan, which featured the year's programme, proved listless, all the five Test matches ending in draws.

A bright patch, however, was struck by Krishnan Ramanathan, our tennis idol. At the Wimbledon Championships he reached the last four stage, but was beaten by Neale Fraser (Australia), the eventual champion.

Athletics

Men's Events

100 metres: N. Ferrao (Maharashtra); 200 metres: Makhan Singh (Services); 400 metres: Milkha Singh (Services); 800 metres: Amrit Paul (Services); 1,500 metres: Mohinder Singh (Services); 5,000 metres: Pan Singh (Services); 10,000 metres: Tarlok Singh (Services); 110 metres hurdles: Sirichand Ram (Services); 400 metres hurdles: Balwant Singh (Punjab); 3,000 metres steeplechase: Pan Singh (Services); 50 kilometres walk: Zora Singh (Services); 4 × 100 metres relay: Services; 4 × 400 metres relay: Services; Marathon: Lal Chand (Services); High Jump: Ajit Singh (Services); Long Jump: Virsa Singh (Services); Hop, Step and Jump: D. Boosey (Maharashtra); Pole Vault: Ajaib Singh (Punjab); Putting the Shot: Dinshaw Irani (Maharashtra); Hammer Throw: Devi Dayal (Services); Discus Throw: Balkar Singh (Services); Javelin Throw: Mohinder Singh (Services); Decathlon Champion: Lashkar Singh (Punjab).

Women's Events

100 metres: Stephie de Souza (Maharashtra); 200 metres: Stephie de Souza (Maharashtra); 4×100 metres relay: Maharashtra; 80 metres hurdles: Janic Spink (Madras); Long Jump: Marie Brown (Madras); High Jump: G. Broughton (W. Bengal); Putting the Shot: Ann Richton (W. Bengal); Javelin Throw: Inder Mohini Oberoi (Delhi); Discus Throw: Man Mohini Oberoi (Delhi).

Badminton

Men's Singles: Nandu Natekar (Bombay); Men's Doubles: N. M. Natekar and C. Deoras (Bombay); Mixed Doubles: C. Deoras and Mrs. Prem Prasher (Bombay); Women's Singles: Miss Meena Shah (Railways); Women's Doubles: Mrs. Prem Prasher and Miss Manda Kelkar (Bombay); Boys' Singles: Ashok Saidha (M.P.); Girls' Singles: Miss Shobha Murthy (Poona).

Basketball

Men: Services.

Women: Mysore.

Billiards

Billiards: Wilson Jones.

Snooker: Mahomed Lafir (Ceylon).

Boxing

Bantamweight: Sammy Khatau (Railways); Feather: P. Bahadur Mall (Services); Lightweight: Percy Khatau (Maharashtra); Light-heavy: Joginder Singh (Services); Welter: R. Kalekar (Services); Light-middleweight: B. D'Souza (Railways); Middle: Surat Singh (Services); Light-heavy: Ashoke Gangull (Railways); Heavyweight: Inder Singh (Services); Team Championship: Services.

Cricket

Pakistan in India

All five Tests were drawn.

First Test—at Bombay: Pakistan 350 and 166 for 4 wkts. India 449 for 9 wkts. decl.

Second Test—at Kanpur: Pakistan 335 and 140 for 3 wkts. India 404.

Third Test—at Calcutta: Pakistan 301 and 146 for 3 wkts decl. India 180 and 127 for 4 wkts.

Fourth Test—at Madras: Pakistan 448 and 59 for no loss. India 539 for 9 wkts. decl.

Fifth Test—at New Delhi: India 463 and 16 for no loss. Pakistan 286 and 250.

Ranji Trophy: Bombay

Rohinton Baria Trophy (Inter-University): Bombay.

Cooch Behar Trophy (Inter-School): South Zone.

Cycling

1,000 metres sprint: J. Baliwala; 1,000 metres time trial: P. Irani; 4,000 metres individual pursuit: Amar Singh; 4,000 metres team pursuit: Air Force; 95-mile road-race: P. Irani; 25-mile team time trial road-race: West Bengal; Team Championship: Maharashtra.

Women's Events

500 metres sprint: Dr. Miss Yasmin Ladak; 2,000 metres individual pursuit: Dr. Miss Yasmin Ladak; Team Championship: Maharashtra.

Football

Santosh Memorial Trophy (National): Services; Rover's Cup: Andhra Pradesh Police; I.F.A. Shield: Mohun Bagan; Durand Cup: East Bengal.

Golf

All-India Tournament: Ashok Malik.

Hockey

National: Services; Aga Khan Cup: I.H.F. President's Eleven; Bombay Gold Cup: Madras Engineering Group, Bangalore; Beighton Cup: Central Railway, Bombay.

Women's National: Mysore.

Kabbadi

Men: Maharashtra.
Women: Maharashtra.

National Bridge

Inter-Association Team-of-four Championship: Bombay (Messrs. R. R. Ruia, S. R. Sethi, J. Kohli, B. J. Shivdasani, G. Hemnani and L. J. Jagtiani).

National Masters' Pair: R. R. Ruia and S. R. Sethi.

Races

Bombay Races

1,000 Guineas: Mr. & Mrs. N. E. D. Pandole's "Request".

2,000 Guineas: Maharaja of Gwalior's "Alijah".

The Indian Derby: Maharaja of Gwalior's "Alijah".

The Oaks: Mr. H. D. Appoo's "Winged Beauty".

The Eclipse Stakes of India: Maharaja of Gwalior's "Lough Ine".

The St. Leger: Mr. Al. M. Muthukaruppan Chettiar's "State Bank".

Queen Elizabeth II Stakes—two races: Maharaja of Gwalior's "Flying Carpet" and Mr. H. B. Medhora's "Fair Babb".

Poona Races

Season abandoned owing to horse disease.

Calcutta Races

Indian Republic Gold Cup: Mr. & Mrs. M. S. Medora's "Artist's Proof".

Calcutta Derby: Maharaja of Bhutan's "Glasgow Courser".

Queen Elizabeth II Stakes: Mrs. A. H. Billimoria's "Pa Bear".

Madras Races

South India Derby: Mr. Al. M. Muthukaruppan Chettiar's "State Bank".

Rugby

All-India Tournament: Calcutta Football Club.

Swimming

Men

100 metres backstroke: Rup Chand (Services); 100 metres butterfly: C. N. Paul (Services); 100 metres freestyle: Narayan Nair (Services); 100 metres breaststroke: Ram Deo Singh (Services); 200 metres backstroke: Rup Chand (Services); 200 metres butterfly: Shanmugam (Services); 200 metres freestyle: Babu Lal (Services); 200 metres breaststroke: Ram Deo Singh (Services); 400 metres freestyle: Babu Lal (Services); 1,500 metres freestyle: L. Bhownic (Bengal); 4 × 100 metres medley relay: Services; 4 × 100 metres freestyle relay: Bengal; 4 × 200 metres freestyle relay: Services; Spring Board Diving: Bajrangi Prasad (Services); High Board Diving: Bajrangi Prasad (Services); Water Polo: Bengal; Team Championship: Services.

Women's Events

100 metres backstroke: Miss Sandhya Chandra (Bengal); 100 metres freestyle: Miss Sandhya Chandra (Bengal); 100 metres breaststroke: Miss Mira Cariappa (Bengal); 200 metres freestyle: Miss Kalyani Bose (Bengal); 400 metres freestyle: Miss Sandhya Chandra (Bengal); 4 × 100 metres freestyle relay: Bengal; Team Championship: Bengal.

Table Tennis

National: Men's Singles: S. K. Thackersey (Bombay); Men's Doubles: S. K. Thackersey and F. Khodaiji (Bombay); Mixed Doubles: S. K. Thackersey and Meena Parande (Maharashtra); Women's Singles: Miss Prisca Rozario (Bombay); Women's Doubles: Miss Meena Parande and Miss Rachael John (Madras); Juniors' Singles: Saikumar (Mysore); Team Championship: Men: Bombay; Women: Railways.

Asian Table Tennis Championships

Asian Table Tennis Championships:—Men's Singles: I. Ogimura; Men's Doubles: I. Ogimura and T. Murakami; Mixed Doubles: I. Ogimura and Miss K. Matsuzaki; Women's Singles: Miss K. Yamaizumi; Women's Doubles: Miss K. Yamaizumi and Miss K. Matsuzaki; Team Championship: Men: Japan; Women: Japan.

Tennis

Men's Singles: R. Krishnan; Men's Doubles: Premjit Lall and Jaydeep Mukherjea; Mixed Doubles: C. A. Fernandes (Brazil) and Miss Margaret Hellyer (Australia); Women's Singles: Miss Margaret Hellyer (Australia); Women's Doubles: Miss D. Appiah and Mrs. K. Cherian; Junior Boys' Singles: Gopal Bannerji; Junior Boys' Doubles: S. P. Misra and S. S. Misra; Junior Girls' Singles: Miss S. Raphael.

Volleyball

Men: Railways.

Women: Punjab.

Junior Boys: Hyderabad.

Russia beat India by three "Tests" to nil; First Test: 17–15, 16–14, 16–14; Second Test: 15–5, 15–3, 15–9; Third Test: 15–7, 6–15, 15–4, 16–18, 15–12.

Wrestling

Flyweight: Malwa Singh (Punjab); Bantam: Jia Singh (Services); Feather: Surat Singh (Punjab); Lightweight: Hariram (Services); Welter: Uday Chand (Services); Middle: Gurudial Singh (Punjab); Light-heavy: Biswanath Singh (Services); Heavyweight: Lila Ram (Services); Team Championship: Railways.

Weight-lifting

Flyweight: D. L. Choudhary (Railways); Feather: Laxmikant Das (Railways); Lightweight: Nil Mony Das (Railways); Middleweight: A. N. Ghosh (Services); Light-heavy: Karmini Easwara Rao (Andhra); Middle-heavy: Pritam Singh (Railways); Heavyweight: C. R. Shetty (Railways); Team Championship: Railways.

Best Physique: (Bharat Shree): Satyan Das (Bengal).

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SMALL SAVINGS

Below we give the figures for 1960-61 for various categories which are together classed as Small Savings. The figures are in Rs. lakhs:

National Savings Certificates :

Five Year Certificates, outstandings: 1,23.

Seven Year Certificates, outstandings: 2,49.

Twelve Year Certificates, outstandings: 81,68.

Twelve Year National Plan Savings Certificates :

Receipts: 82,11; Outstandings: 2,86,39.

Post Office Savings Bank Deposits :

Receipts: 2,37,31; Outstandings: 3,01,69.

Ten Year National Plan Certificates :

Outstandings: 18,85.

Post Office Cash Certificates, Defence Savings Certificates :

Outstandings :—40,65.

Ten Year Treasury Savings Deposit Certificates, 3½% :

Outstandings: 41,01.

Ten Year Treasury Savings Deposit Certificates, 4% :

Receipts: 16,07; Outstandings: 37,47.

Fifteen Year Annuity Certificates :

Receipts: 70; Outstandings: 3,40 (Relates to first series issued from July 1954 to Dec. 1957 and to second series issued from January 1958).

Cumulative Time Deposits :

Receipts: 1,74; Outstandings: 2,52.

Total :

Receipts: 3,37,92; Outstandings: 7,76,73 (outstandings in relation to the item under Post office cash certificates, etc. are not included).

An amount of Rs. 550 crores is expected from the people during the Third Plan period by way of small savings.

The net collections from small savings are shared between the States and the Centre in the proportion of 2 : 1.

The various small savings schemes include the 12-year National Plan Savings Certificates, the 10-year Treasury Savings Deposit Certificates, Post Office Savings Bank Accounts and the Prize Bonds.

The total net collection in small savings securities during the Second Plan period amounted to Rs. 406 crores. The total collections during the year 1960 were about Rs. 106 crores, recording an increase of Rs. 22 crores over the net collections during the preceding year.

As on March 1961, the total figure for Maharashtra State stood at over Rs. 21 crores, against the target figure of Rs. 19 crores.

Greater Bombay has reported a total collection of Rs. 14·50 crores exceeding its target by Rs. 3 crores.

In March 1961, twelve out of 26 districts of Maharashtra State either fulfilled or exceeded the small savings targets assigned to them.

SMALL SAVINGS SECURITIES

State	1959–60 Net Collections	1960–61 Net Collections
	Rs.	Rs.
Andhra	3,52,90,868	2,68,74,481
Assam	2,75,96,159	3,80,04,157
Bihar	9,86,88,932	10,48,47,351
Bombay@ ..	30,74,24,735	1,46,76,369*
Delhi	2,12,68,920	4,27,64,484
Gujarat ..	..	12,66,94,236†
H.P.	2,19,815	3,47,772
J & K	45,27,570	62,06,612
Kerala	1,22,92,662	3,75,11,437
Madras	65,39,630	3,91,72,495
M.P.	2,61,63,105	3,32,08,059
Maharashtra ..	..	23,27,64,842†
Manipur ..	2,20,487	—69,936
Mysore	1,79,12,661	2,94,49,300
Orissa	1,49,82,061	2,09,97,584
Punjab	7,58,90,503	6,09,63,755
Rajasthan ..	1,42,95,475	1,46,04,009
Tripura ..	7,34,047	15,15,817
U.P.	9,46,44,607	13,08,83,836
West Bengal ..	9,84,69,075	12,56,64,386
Base Post Offices ..	64,015	2,42,140
India Total ..	85,72,25,327	1,08,73,23,186‡

Note :—The figures for 1959-60 include interest on P.O.S.B.

@ Bilingual. * For April 1960 only. † From May 1960 to March 1961. ‡ Total collections from Jan. to June 1961 : Rs. 51·28 crores.

STATE BUDGETS (1961-62)

Revenue Receipts — TABLE 1 — (In lakhs of rupees)

States	Union Excise Duties	Taxes on Income other than Corporation Tax	Estate Duty	Taxes on Railway Fares	Land Revenue (net)	State Excise Duties	Stamps	Forests	Registration	Taxes on Vehicles
Andhra Pradesh	630·20	657·12	19·10	112·17	925·00	812·35	370·19	300·00	105·80	299·02
Assam	229·56	431·64	4·65	35·00	293·45	181·48	53·57	153·97	8·25	67·85
Bihar	603·00	1091·70	22·00	122·00	1,022·37	531·84	250·33	162·71	72·00	10·20
Gujarat	832·78	879·42	18·00	70·00	513·84	18·28	167·86	141·64	15·45	240·13
Jammu & Kashmir ..	125·67	91·29	2·50	..	67·70	40·00	15·00	400·00	6·53	11·0
Kerala	256·33	521·08	12·00	24·00	201·00	278·00	161·79	450·00	44·86	240·00
Madhya Pradesh	478·39	542·91	15·46	114·59	979·61	510·00	157·95	1,015·00	24·12	185·00
Madras	625·00	731·00	30·00	89·00	433·67	23·69	483·22	179·11	102·02	593·79
Maharashtra	748·46	541·61	35·00	147·00	692·85	65·71	530·00	523·95	39·43	414·38
Mysore	373·38	496·26	16·92	55·63	484·54	295·11	218·00	692·93	32·80	365·00
Orissa	268·86	303·89	11·00	22·00	350·42	257·13	62·08	296·89	21·25	84·01
Punjab	386·70	342·55	13·32	111·84	462·83	539·43	408·05	101·28	48·54	93·82
Rajasthan	292·76	336·83	12·00	92·00	895·00	465·00	124·00	92·00	12·50	116·00
Uttar Pradesh	1,264·00	1,408·72	48·93	234·50	2,185·15	622·16	390·00	624·92	78·78	300·60
West Bengal	613·59	882·42	42·87	85·43	806·76	600·96	372·79	150·17	68·58	203·80
Andaman & Nicobar Islands	..	..	..	..	3·11	0·01	0·38	105·00	0·01	0·12
Delhi	..	..	..	..	7·26	166·85	95·82	0·10	8·89	47·99
Himachal Pradesh ..	..	..	..	..	19·18	16·60	5·67	197·60	0·36	1·90
Manipur	..	..	..	..	14·50	0·10	1·80	4·06	0·30	3·50
Pondicherry	..	7·00[1]	..	..	4·90	38·14	1·50	..	5·25	..
Tripura	..	..	..	..	14·00	1·75	4·20	7·05	2·10	1·20

[1]Represents taxes on income.

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TABLE 1—*Contd.*

Revenue Receipts

(In lakhs of rupees)

States	Sales Tax	Other Taxes and Duties	Irrigation, Navigation	Debt Services	Civil Administration	Civil Works and Miscellaneous Public Improvements (net)	Miscellaneous (net)	Adjustments between Central and State Governments	Community Projects and Local Works	Extraordinary	Grand Total Revenue Receipts
Andhra Pradesh ..	1,271·57	242·48	146·95	107·42	665·73	83·13	368·47	1,155·94	38·09	..	8,512·54[1]
Assam	2,99·50	271·74	0·53	31·02	128·38	71·36	162·56	1,170·97	2·11	90·00	3,687·49
Bihar	1,009·76	114·77	276·57	69·85	1,003·15	72·61	318·25	1,776·70	..	7·00	8,446·81
Gujarat	1,069·57	173·20	12·16	244·06	438·42	28·36	36·18	549·35	..	1·00	5,425·38
Jammu and Kashmir..	25·00	5·00	9·31	11·25	62·30	181·82	56·49	..	..	..	1,718·80[2]
Kerala	930·00	22·20	10·00	125·28	373·43	34·73	119·32	892·18	28·23	1·08	4,725·51
Madhya Pradesh ..	700·00	206·30	80·00	221·79	556·16	60·74	112·21	1,413·49	6·00	..	73,79·72
Madras	1,862·40	240·33	153·82	742·05	675·04	109·43	152·81	1,386·24	..	0·47	8,750·09[3]
Maharashtra	3,197·87	902·00	109·23	453·50	800·44	324·49	624·94	900·90	..	..	11,061·83[4]
Mysore	921·14	238·87	9·39	263·82	2,173·61	42·30	139·38	1,819·95	15·37	..	8,654·40
Orissa	334·35	108·46	65·19	72·30	238·61	37·47	72·55	1,185·06	2·64	10·00	4,110·00[5]
Punjab	716·68	446·87	145·05	532·29	486·45	76·22	454·80	789·12	..	5·42	6,376·52[6]
Rajasthan	471·00	128·00	69·00	135·00	362·39	70·64	75·30	811·14	9·60	263·12	4,833·28
Uttar Pradesh ..	1,021·00	935·12	212·11	455·80	2,335·85	66·45	196·19	2,182·50	0·11	..	14,562·98
West Bengal	1,743·26	866·09	54·03	137·35	658·64	87·56	274·68	1,887·86	1·49	5·80	9,548·13
Andaman and Nicobar Islands	..	0·20	..	0·12	34·19	..	5·43	..	..	..	1,48·57
Delhi	524·45	246·68	..	143·27	83·68	..	2·45	..	0·07	..	1,327·51
Himachal Pradesh ..	1·19	6·05	..	1·54	13·64	12·23	85·29	..	0·70	..	370·77[7]
Manipur	3·75	2·10	..	0·04	3·68	1·75	9·82	..	..	..	44·27[8]
Pondicherry	..	12·87	..	..	..	3·00	7·73	..	..	..	228·11[9]
Tripura	..	2·00	..	0·10	5·99	2·00	1·10	..	..	..	39·38[10]

[1] Includes Electricity Schemes Rs. 201·81 lakhs. [2] Includes Grants-in-aid from Central Govt. Rs. 607·94 lakhs. [3] Includes taxes on Agricultural income Rs. 137·00 lakhs. [4] Includes Electricity Schemes Rs. 10·07 lakhs. [5] Includes Multipurpose River Schemes Rs. 170·76 lakhs and Electricity Schemes Rs. 135·08 lakhs. [6] Includes Multipurpose River Schemes Rs. 215·26 lakhs. [7] Includes Electricity Schemes Rs. 8·82 lakhs. [8] Includes Electricity Schemes Rs. 0·93 lakh. [9] Includes Miscellaneous Departments Rs. 4·00 lakhs Electricity Schemes Rs. 34·75 lakhs and Customs and Central Excise Rs. 108·95 lakhs. [10] Includes Electricity Schemes Rs. 2·11 lakhs.

TABLE 2

Revenue Expenditure

(In lakhs of rupees)

States	Direct Demands on the Revenue	Revenue Account of Irrigation, Navigation	Debt Services (net)	General Administration	Administration of Justice	Jails	Police	Scientific Departments	Education	Medical	Public Health
Andhra Pradesh	791·64	515·26	—186·42	716·87	127·81	54·74	597·33	6·18	1,716·55	484·48	233·21
Assam	245·35	68·89	174·36	186·41	24·89	26·14	439·22	2·72	807·75	169·44	115·63
Bihar	617·04	97·01	536·12	619·54	111·90	113·41	574·39	13·35	1,584·92	390·49	350·99
Gujarat	318·27	207·46	870·21	351·04	89·95	29·07	441·37	4·06	1,165·46	240·04	183·52
Jammu & Kashmir ..	143·18	41·91	59·70	64·16	14·10	6·03	101·66	0·69	241·28	97·91	31·68
Kerala	352·22	122·67	276·59	163·18	94·56	36·60	241·73	5·25	1,809·68	345·69	223·86
Madhya Pradesh	765·26	79·40	550·17	408·28	118·02	51·48	670·81	9·46	1,677·52	387·92	602·48
Madras	327·79	367·14	575·41	607·41	145·77	129·39	598·17	3·35	2,061·90	548·47	217·22
Maharashtra	1,137·03	292·94	976·28	732·93	215·66	101·63	1,074·70	18·32	2,223·16	598·82	307·77
Mysore	878·74	344·44	434·02	345·02	99·12	50·57	405·12	15·82	1,645·00	332·90	277·23
Orissa	358·07	77·20	354·89	331·19	35·88	35·49	227·64	88·12	543·92	176·21	90·32
Punjab	565·88	234·39	355·00	366·47	74·15	62·18	528·54	2·24	1,277·31	329·06	168·15
Rajasthan	373·92	79·52	311·65	267·71	55·22	34·49	463·90	33·86	1,227·37	363·79	212·65
Uttar Pradesh	11,40·97	705·84	1,840·71	1,052·91	187·59	158·51	1,051·77	17·19	2,117·19	513·55	425·33
West Bengal	681·17	317·27	853·96	378·73	127·39	110·41	846·92	0·76	1,845·82	637·48	244·45
Andaman & Nicobar Islands	120·24	..	..	11·40	0·03	0·65	23·49	..	13·05	11·65	3·44
Delhi	82·78	3·71	..	41·91	20·56	9·75	225·69	..	390·08	90·66	5·15
Himachal Pradesh ..	155·05	5·75	..	45·38	6·21	2·52	66·46	0·13	34·19	12·39	28·50
Manipur	14·56	1·68	..	16·95	2·13	1·88	71·11	..	19·10	5·91	14·39
Pondicherry	..	..	..	13·77	4·96	1·69	20·21	..	29·37	103·91[1]	103·91[2]
Tripura	56·79	3·50	..	24·79	2·77	4·05	53·91	..	56·00	15·78	3·38

[1] Includes Public Health. [2] Includes Medical.

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Revenue Expenditure

TABLE 2—*Contd.*

(In lakhs of rupees)

States	Agriculture	Animal Husbandry	Co-operation	Industries and Supplies	Miscellaneous Departments	Civil Works and Miscellaneous	Electricity Schemes	Miscellaneous	Extraordinary including Community Projects	Grand Total Expenditure on Revenue Account	Surplus (+) or Deficit (—) on Revenue Account
Andhra Pradesh ..	409·83	170·58	184·52	218·09	398·69	808·48	400·79	580·11	534·19	8,762·93	—250·40
Assam	210·89[1]	54·83	54·24	108·66	16·27	522·11	..	244·95	225·76	3,701·51[2]	— 14·02
Bihar	464·42	157·30	395·32	369·27	90·51	317·89	0·94	465·46	637·34	7,907·73	+539·08
Gujarat	284·47	63·75	89·07	103·84	146·73	298·34	..	561·11	160·51	5,811·82[12]	—386·44
Jammu & Kashmir	57·65	35·64	18·53	40·85[3]	36·81	120·48	..	163·55	106·63	1,382·44	+336·36
Kerala	290·98[4]	41·13	27·62	76·58	301·49	446·28	..	359·62	179·20	5,401·35[5]	—675·84
Madhya Pradesh ..	242·70	127·65	69·34	156·27	322·37	557·51	..	692·04	538·08	8,026·76	—647·04
Madras	420·62	133·02	225·62	334·10	426·89	805·52	..	410·51	697·12	9,035·32	—285·23
Maharashtra.. ..	251·34	109·26	154·74	159·65	526·85	660·30	0·66	1,032·80	466·20	11,068·54[13]	— 6·71
Mysore	358·49[1]	123·80	69·63	1,831·81	123·12	912·92	..	461·24	378·63	90,85·92	—431·52
Orissa	177·00	88·68	74·28	75·03	248·88	835·54	49·45	256·15	403·65	4,528·93[6]	—418·93
Punjab	221·76	117·42	104·80	199·90	110·06	616·64	..	850·82	287·88	6,472·65	— 96·13
Rajasthan	170·88[1]	126·72	63·82	54·63	222·98	256·83	..	379·31	226·88	4,926·13	— 92·85
Uttar Pradesh ..	504·42	246·19	189·29	680·18	1,283·87	646·87	154·45	1,458·37	1,037·32	15,412·52	—849·54
West Bengal ..	713·83	100·76	67·62	419·07	273·37	619·35	..	1,120·78	498·00	9,867·82[7]	—319·69
Andaman & Nicobar Islands	13·33	2·27	0·47	2·80	19·29	4·93	..	8·03	5·38	297·97[8]	..
Delhi	12·09	7·43	7·33	9·46	76·05	..	..	496·92	4·83	1,484·40	..
Himachal Pradesh ..	52·99	18·55	11·61	27·85	14·10	104·54	..	298·63	64·55	949·40	..
Manipur	9·96	0·61	3·92	10·90	2·23	20·42	..	180·72	22·99	399·46	..
Pondicherry ..	2·34[9]	..	2·28	5·24	6·80	28·02[10]	41·13	8·19	..	431·79[11]	..
Tripura	33·47	..	4·52	22·46	12·53	8·76	..	298·17	25·97	626·85	..

[1] Includes Fisheries and Rural Development. [2] Includes Ports and Pilotage Rs. 3 lakhs. [3] Only Industries. [4] Includes Rural Development. [5] Includes Ports and Pilotage Rs. 6·42 lakhs. [6] Includes Ports and Pilotage Rs. 1·36 lakhs. [7] Includes Ports and Pilotage Rs. 10·58 lakhs. [8] Includes Ports and Pilotage Rs. 57·52 lakhs. [9] Includes Fisheries. [10] Civil Works only. [11] Includes Ports Rs. 0·49 lakh; Superannuation Allowances and Pensions 24·37 lakhs; Community Projects, N.E.S. and Local Development Works Rs. 6·09 lakhs; Development Schemes 104·49 lakhs; Construction of a new Pier Rs. 11·86 lakhs. [12] Includes Ports and Pilotage Rs. 94·15 lakhs and Dangs District Rs. 109·40 lakhs. [13] Includes Ports and Pilotage Rs. 27·50 lakhs.

THIRD FIVE-YEAR PLAN

An account of the First and Second Plans was given in the previous editions of the book.

Parliament gave its general approval to the Third Plan Draft Outline in August 1960.

The Draft Outline was discussed throughout the country and served as the basis for the preparation of the plans of States. These were considered with the Chief Ministers of States between September and November, 1960.

In January, 1961, the National Development Council made its recommendations concerning the overall size of the Third Plan, the Council also set up a Committee on Savings to suggest ways of securing the maximum mobilisation of resources for the Third Plan. Finally, on May 31, and June 1, 1961 the National Development Council considered the Draft Report on the Third Plan and generally approved it.

The final draft of the Plan was placed before the Parliament on August 7, 1961.

The Planning Commission in the final draft proposes additional taxation of Rs. 1,710 crores as against Rs. 1,650 crores in the draft outline. The investment outlays of both the public and private sectors have been raised from those of the draft outline.

The Rs. 10,400-crore Plan covering the period 1960-61 to 1965-66 aims at increasing national income from Rs. 14,500 crores to Rs. 19,000 or by 30 per cent and per capita income of the people from Rs. 330 to Rs. 385 or by 17 per cent, the pattern of investment being designed also to sustain this rate of growth during subsequent Plan periods. Other principal aims are :—

(1) to achieve self-sufficiency in foodgrains, and increase agricultural production to meet the requirements of industry and export;

(2) to expand basic industries like steel, chemical industries, fuel, and power and establish machine-building capacity, so that the requirements of further industrialisation can be met within a period of 10 years or so mainly from the country's own resources;

(3) to utilise to the fullest extent possible the manpower resources of the country and to ensure a substantial expansion in employment opportunities; and

(4) to establish progressively greater equality of opportunity and to bring about reduction in disparities in income and wealth and a more even distribution of economic power.

To achieve these aims, a certain minimum development must take place in different sectors of the economy during the next five years.

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THIRD PLAN TARGETS

	Unit	1960-61	1965-66	Percentage Increase
Foodgrains production	million tons	76	100	32
Area Irrigated (net total)	million acres	70	90	29
Co-operative movement advances to farmers	Rs. crores	200	530	165
Steel ingots	million tons	3·5	9·2	163
Aluminium	000 tons	18·5	80	332
Machine tools	value Rs. in crores	5·5	30·0	445
Sulphuric acid	000 tons	363	1,500	313
Petroleum products	million tons	5·7	9·9	70
Cloth :				
Mill-made	million yards	5,127	5,800	13
Handloom, powerloom and Khadi	million yards	2,349	3,500	49
Total	million yards	7,476	9,300	24
Iron ore	million tons	10·7	30·0	180
Coal	million tons	54·6	97·0	76
Exports	Rs. in crores	645	850	32
Power : Installed capacity	million K.W.	5·7	12·7	123
Rail freight carried	million tons	154	245	59
Com. vehicles	in 000	210	365	74
Shipping	lakh g.r.t.	9·0	10·9	21
Students in Schools	in millions	43·5	63·0	47
Engineering and technology (degree level intake)	in 000	13·9	19·1	37
Hospital beds	in 000	186	240	29
Doctors (practising)	in 000	70	81	16
Cloth	yards per capita per annum	15·5	17·2	11
Consumption levels				
Food	Calories per capita per day	2,100	2,300	10

The Plan envisages a 30 per cent increase in agricultural production whose index (base : 1949-50 = 100) is expected to go up from 135 to 176 and a 70 per cent increase in industrial output whose index (base: 1950-51 = 100) will move up from 194 to 329.

The increase in population, the growing expectations of the people and the urgent need for attaining the stage of self-sustained growth over the next two or three Plan periods make it essential that there should be every effort to achieve the targets during the next five years, says the Commission.

In addition, certain measures must be taken during the Plan period itself in preparation for the Fourth Plan. The physical pogrammes included in the Third Plan have been formulated with both these objectives in view.

The estimated financial resources have been placed for the present at Rs. 7,500 crores and are distributed as follows :

RESOURCES FOR THE THIRD PLAN

(Rs. crores)

Head	Second Plan		States	Union Territories	Centre	Total	Percentage
	Total expenditure	Percentage					
Agriculture and community development	530	11	919	24	125	1,068	14
Major and medium irrigation	420	9	630	2	18	650	9
Power	445	10	880	23	109	1,012	13
Village and small industries	175	4	137	4	123	264	4
Organised industry and minerals	900	20	70	neg.	1,450	1,520	20
Transport and communications	1,300	28	226	35	1,225	1,486	20
Social services and miscellaneous	830	18	863	87	350	1,300	17
Inventories	..	..	..	..	200	200	3
Total	4,600	100	3,725	175	3,600	7,500	100

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Out of this, investment is estimated to be Rs. 6,300 crores and current outlay, representing expenditure on staff, subsidies, etc., Rs. 1,200 crores. Investment in the private sector is placed at Rs. 4,100 crores (exclusive of Rs. 200 crores to be transferred from public revenues to this sector by way of loans and other assistance.) Thus the total investment will be Rs. 10,400 crores.

The scheme of financing the public sector plan that is now envisaged is indicated in the Table below. The last two columns indicate the estimates separately for the Centre and the States:

FINANCIAL RESOURCES

(Estimates for the Second and the Third Plans) (Rs. crores)

	Second plan		Third Plan		
	As initially estimated	As estimated now	Total	Centre	States
1. Balance from current revenues (excluding additional taxation) ..	350	(−) 50	550	410	140
2. Contribution of Railways	150	150††	100	100	—
3. Surpluses of other public enterprises	**	**	450	300	150
4. Loans from the public (net) ..	700	780*	800	475	325
5. Small savings (net)	500	400	600	213	387
6. Provident funds (net) ..		170	265	183	82
7. Steel equalisation fund (net)	250	38	105	105	—
8. Balance of miscellaneous capital receipts over non-plan disbursements		22	170	428	(−) 258
9. Total 1 to 8	1,950	1,510	3,040	2,214	826
10. Additional taxation including measures to increase the surpluses of public enterprises	4,50†	1,052	1,710	1,100	610
11. Budgetary receipts corresponding to external assistance	800	1,090‡	2,200	2,200	—
12. Deficit financing	1,200	948	550	524	26
Total	4,800	4,600	7,500	6,038	1,462

† In addition there was a gap of Rs. 400 crores to be covered by additional domestic effort.
†† Inclusive of increased fares and freights.
* Includes investments by the State Bank out of PL 480 funds.
** Included in items 1 and 8 in the Table.
‡ This includes investment of PL 480 funds by the Reserve Bank in special securities in 1960-61.

INVESTMENT AND FOREIGN EXCHANGE REQUIREMENT

(Rs. in Crores)

	Total investment	Foreign exchange
A *Public Sector*		
1. Agriculture and community development	610	30
2. Major and medium irrigation	650	50
3. Power	1,012	320
4. Village and small industries	100	20
5. Large and medium industries and minerals (including oil) ..	1,470	690
6. Transport and communications	1,486	320
7. Social services and miscellaneous	572	90
8. Inventories	200	†
Total (Public Sector)	6,100	1,520
B *Private Sector*		
1. Large and medium industries, minerals and transport	1,350	495
2. Villages and small industries	325	15
3. Others	2,625	Neg.
Total (Private Sector)	4,300	510
C *Grand Total* (A + B)	10,400	2,030

† Included under other heads.

OUTLAYS IN II AND III PLANS

(Rs. in Crores)

	Second Plan			Percentage	Third Plan			Percentage
	Public	Private	Total		Public	Private	Total	
Agriculture and Community Development ..	210	625	835	12	660	800	1,460	14
Major and Medium Irrigation ..	420	..	420	6	650	..	650	6
Power	445	40	485	7	1,012	50	1,026	10
Village and Small Industries ..	90	175	265	4	150	275	425	4
Organised Industry and Minerals	870	675	1,545	23	1,520	1,050	2,570	25
Transport ..	1,275	135	1,410	21	1,486	250	1,736	17
Social Services ..	340	950	1,290	19	622	1,075	1,697	16
Inventories ..	..	500	500	8	200	600	800	8
Total ..	3,650	3,100	6,750	100	6,300	4,100*	10,400	100

* Excludes transfers from public to private sector.

STATES' PLANS

Among the States, Uttar Pradesh has the single largest plan accounting for Rs. 497 crores. This is followed by Maharashtra whose outlay is Rs. 390 crores and Bihar with an outlay of Rs. 337 crores. The Third Plan outlays for different States with figures in brackets representing the estimated outlay in the Second Plan are: (Rs. in crores.)

Andhra Pradesh—305 (175); Assam—120 (51); Bihar—337 (166); Gujarat—235 (143); Jammu and Kashmir—75 (25); Kerala—170 (76); Madhya Pradesh—300 (145); Madras—290·9 (167); Maharashtra—390 (207); Mysore—250 (122); Orissa— 160 (85); Punjab—231·4 (148); Rajasthan—236 (99); Uttar Pradesh—497 (227); West Bengal—250(†) (145); Total—States—3847·3 (1981).

Of the total investment of over Rs. 4,300 crores in the private sector, Rs. 200 crores will be provided by way of transfer of resources from the public sector. The assistance by the Reserve Bank to agriculture, small-scale industries and co-operatives will also be on a larger scale. External assistance to the private sector may be of the order of Rs. 300 crores.

Investment in the private sector during the Second Plan has been at high levels and there is evidence of a greater readiness on the part of private enterprise to avail itself of the opportunities being created by the development process. Investment in the private sector of the order of Rs. 4,300 crores does not appear to be difficult of achievement.

ADDITIONAL TAXATION

For financing the Rs. 7,500-crore outlay in the public sector heavy reliance is placed on additional taxation and external assistance which will account for Rs. 1,710 crores and Rs. 2,200 crores respectively.

The credit of Rs. 2,200 crores taken for external assistance is part of the total of such assistance envisaged in the Plan, namely Rs. 3,200 crores.

The entire amount of Rs. 3,200 crores does not come to the public exchequer. About Rs. 450-500 crores of the total receipts of external assistance will go towards repayments of loans maturing during the Third Plan while about Rs 300 crores might go directly to the private sector by way of private capital inflows or loans from agencies like the I.B.R.D., the International Finance Corporation and the U.S. Export-Import Bank.

Another Rs. 200 crores may represent agreed retentions of rupee resources by the U.S. authorities and additions to buffer stocks from P.L. 480 imports.

Thus, about Rs. 1,000 crores in all would not be available for the budget.

The resources for the Plan are sought to be raised as follows:

15-YEAR OUTLOOK

Taking a broad view of the development of the Indian economy, it is reckoned that, at 1960-61 prices, the national income should rise from about Rs. 14,500 crores at the end of the Second Plan to about Rs. 19,000 crores at the end of the Third Plan, about Rs. 25,000 crores at the end of the Fourth and about Rs. 33,000 to Rs. 34,000 crores at the end of the Fifth Plan.

Allowing for the estimated annual increase in population of about two per cent., on these estimates, income per head should go up from around Rs. 330 at the end of 1960-61 to about Rs. 385, Rs. 450 and Rs. 530 in 1966, 1971 and 1976.

This will require net investment as a proportion of national income to rise from about 11 per cent. at present to 14-15, 17-18 and 19-20 per cent, per annum by the end of the Third, Fourth and Fifth Plans respectively.

† Provisional.

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In other words, as compared to about Rs. 10,500 crores postulated for the Third Plan, net investment over the Fourth and the Fifth Plan periods should be of the order of Rs. 17,000 crores and Rs. 25,000 crores.

Domestic savings would have to rise in corresponding measure from about 8·5 per cent. at present to about 11·5, 15 to 16, and 18 to 19 per cent of the national income at the end of the Third, Fourth and Fifth Plans.

By the end of the Fifth Plan the economy will be strong enough to develop at a satisfactory pace without being dependent on external assistance outside of the normal inflow of foreign capital.

In the course of preliminary studies on the Third Plan the following tentative targets of capacity have been suggested for some important items for 1970-71.

Steel ingots	million tons	18–19
Pig iron	million tons	3–4
Aluminium	thousand tons	230-250
Electric power	million kW	21–23
Coal	million tons	170–180
Oil refining	million tons	18–30
Nitrogenous fertilisers	million tons (N)	2·0–2·2
Cement	million tons	24–26
Machine building	Rs. crore of output	1,600
Railway freight transport—long distance (originating traffic)	million tons	380–420
Food Grains	million tons	135
Exports	Rs. crores	1,300–1,400

These targets indicate the order of effort called for as a basis for further studies.

The Plan says that for working out a long-term plan on these lines there is need for close and continuous collaboration between various Government agencies at the Centre and in the States and with leading institutions engaged in scientific, economic and social research.

Foreign Exchange :

The following Table sets forth the balance of payments estimates for the Third Plan.

Financing of foreign exchange requirements for the Third Plan

(Rs. crores)

	Total Second Plan	Total Third Plan	1961-62	Annual average Third Plan
A RECEIPTS				
1. Exports	3,053	3,700	667	740
2. Invisibles (net) (excluding official donations)	420*	nil	28	nil
3. Capital transactions (net) (excluding receipts of official loans and private foreign investment)	(—) 172	(—) 550	(—) 133	(—) 110
4. External assistance	927†	2,600	575**	520
5. Draft on foreign exchange reserves	598	nil	nil	nil
Total (1 to 5)‡	4,826	5,750	1,131	1,150
B. PAYMENTS				
1. Imports of machinery and equipment for Plan projects	4,826	1,900	325	380
2. Components, intermediate products etc., for raising production of capital goods		200	60	40
3. Maintenance imports		3,650	746	730
Total (1 to 3)‡	4,826	5,750	1,131	1,150

* Includes reimbursements from the U.S.A. for freight expenses on P.L. 480 imports initially incurred by India.

** Represents external assistance required for financing imports as shown below.

† Including net drawing on the I.M.F.

‡ P.L. 480 imports are excluded from both sides — about Rs. 534 crores for the Second Plan and Rs. 600 crores for the Third Plan.

PRICE POLICY

The Plan postulates a price policy which will ensure that movements of relative prices are in keeping with its priorities and targets and that prices of essential goods which enter into the consumption of low-income groups do not rise unduly.

In the Third Plan stress is being placed on the careful phasing of projects in relation to one another. Prices fluctuated widely in the First Plan period and they have shown a rising trend through the Second Plan period. At the commencement of the Third Plan, the levels of wholesale prices and cost of living are already high and it is essential to ensure that there is no accentuation of inflationary pressures in the course of the Third Plan and that the levels of living of the more vulnerable classes in society are safeguarded.

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TARGETS

The following table shows the targets set. It also shows the progress and development over the period 1950-51 to 1960-61.

Item	Unit	1950-51	1955-56	1960-61 (estimated)	1965-66 Targets	Increase in 1960-61 over 1950-51 (percentage)	Increase in 1965-66 over 1960-61 (percentage)
1. *Agriculture & Community Development*							
Agricultural Production :—							
Foodgrains	million tons	52·2(a)	65·8(a)	76·0	100·0	46	32
Cotton	million bales	2·9	4·0	5·1	7·0	76	37
Sugarcane-gur	million tons	5·6	6·0	8·0	10·0	43	25
Oilseeds	million tons	5·1	5·6	7·1	9·8	39	38
Jute	million bales	3·3	4·2	4·0	6·2(b)	21	55
Tea	million lbs.	613	678	725	900	18	24
Tobacco	'000 tons	257	298	300	325	17	8
Fish	million tons	0·7	1·0	1·4	1·8	100	29
Milk	million tons	17·1	19·3	22·0	25·3	29	15
Wool	million lbs.	60	65	72	90	20	25
Agricultural Services :—							
Area Irrigated (net total)	million acres	51·5	56·2	70·0	90·0	36	29
Land reclamation (additional area) (d)	million acres	..	2·7	1·2	3·6	..	200
Soil Conservation (Additional area benefited) (d)	million acres	..	0·7	2·0	11·0	..	450
Nitrogenous Fertilisers consumed	'000 tons of N	55	105	230	1,000	318	335
Phosphatic Fertilisers consumed	'000 tons of P_2O_5	7	13	70	400	900	471
Seed farms (d)	number	..	..	4,000	4,800	..	20
Community Development :—							
Blocks	number	..	1,069	3,110	5,223	..	68
Villages covered	thousands	..	106	368	550	..	49
Population served	million number	..	69	204	359	..	76
Cooperation :—							
Primary agricultural credit societies	'000 numbers	105	160	210	230	100	10
Short and medium term Loans advanced	Rs. crores	22·9	49·6	200·0	530·0	773	165
2. *Power*							
Electricity (installed capacity)	million kW	2·3(c)	3·4(c)	5·7	12·7	148	123
Electricity generated	million kWh	6,575 (c)	10,777 (c)	19,850	45,000	202	127
Towns and villages electrified	thousands	3·7	7·4	23·0	43·0	523	87
3. *Minerals*							
Iron ore	million tons	3·2	4·3	10·7	30·0	234	180
Coal	million tons	32·3	38·4	54·6	97·0	69	76
4. *Large-scale Industries*							
Metallurgical Industries :—							
Steel ingots	million tons	1·4	1·7	3·5	9·2	150	163
Finished steel	million tons	1·0	1·3	2·2	6·8	120	209
Pig Iron (for sale)	million tons	0·35	0·38	0·90	1·50	157	67
Alloy, tool and special steels (finished)	'000 tons	..	..	40	200	..	400
Aluminium	'000 tons	3·7	7·3	18·5	80·0	400	332
Copper	'000 tons	6·6	7·5	8·9	20·0	35	125
Mechanical and Electrical Engineering :—							
Cement machinery	value in Rs. lakhs	..	34 (c)	60	450	..	650
Sugar machinery	value in Rs. lakhs	..	19	330	1,000	..	203
Industrial boilers	value in Rs. lakhs	..	..	40	2,500	..	6,150
Machine tools (graded)	value in Rs. lakhs	34	78	550	3,000	1,518	445
Ball and roller bearings	million number	0·1	0·9	2·9	14·0 (e)	2,800	383
Diesel engines	thousands	5·5	10·0	40·0	66·0	627	65
Tractors	number	..	..	2,000	10,000	..	400
Electric motors (200 b.h.p. and below)	'000 h.p.	100	272	700	2,500 (f)	600	257
Electric transformers (33 kV and below)	'000 kva	179	625	1,200	3,500	570	192
Electric cables (ACSR) conductors	'000 tons	1·7	8·7	22·0	44·0	1,194	100
Railway Locomotives :—							
Steam	number	7	179	295	1,175 (d)	3,214	
Diesel	number	..	..	..	434 (d)	..	..
Electric	number	..	..	..	232 (d)	..	..
Rubber manufacturers :—							
Automobile tyres	million numbers	..	0·9	1·35	3·0	..	122
Bicycle tyres	million numbers	..	5·8	11·0	31·0	..	182

(a) Estimates of production adjusted for changes in statistical coverage and methods of estimation upto 1956-57.
(b) Excludes mesta which may provide an additional 1·3 million bales in the Third Plan. (c) Relates to calendar year.
(d) Relates to five-year period. (e) By working the capacity on three shifts. (f) 300 h.p. and below.

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TARGETS—*Contd.*

Item	Unit	1950-51	1955-56	1960-61 (estimated)	1965-66 Targets	Increase in 1960-61 over 1950-51 (percentage)	Increase in 1965-66 over 1960-61 (percentage)
Chemicals :—							
Fertilisers :							
Nitrogenous (in terms of nitrogen) ..	'000 tons of N.	9	79	110	800	1,122	627
Phosphatic fertilisers (in terms of P_2O_5)	'000 tons	9	12	55	400	511	627
Sulphuric acid	'000 tons	99	164	363	1,500	267	313
Soda Ash	'000 tons	45	81	145	450	222	210
Caustic Soda	'000 tons	11	35	100	340	809	240
Sulpha Drugs	tons	..	83 (c)	150	1,000	..	567
D.D.T.	tons	..	284	2,800	2,800	..	..
Dyestuffs	million lbs.	..	4·0	11·5	18·0	..	57
Other Industries :—							
Sewing machines (organised sector only)	thousands	33	111	297	700	800	136
Bicycles (organised sector only) ..	thousands	101	513	1,050	2,000	940	90
Motor Cycles and Scooters	thousands	..	1·5	18	50	..	178
Automobiles	thousands	16·5	25·3	53·5	100·0	224	67
Shipbuilding	'000 GRT	..	50 (d)	20	50–60	..	150–200
Cotton Textiles (mill made)	million yards	3,720	5,102	5,127	5,800	38	13
Rayon filament	million lbs.	0·4	16·0	47·0	140·0	11,650	198
Sugar (g)	million tons	1·12	1·86	3·0	3·5	168	17
Steel Structural Fabrications	'000 tons	..	90	150	1,000	..	567
Cement	million tons	2·7	4·6	8·5	13·0	215	53
Petroleum Products	million tons	..	3·6	5·7	9·9	..	74
Paper and Paper Board	'000 tons	114	187	350	700	207	100
Plastics	'000 tons	..	0·7	10·0	74·0	..	640
Glass and glassware	'000 tons	92	125	225	440	145	96
Industrial gases—Oxygen	million cft.	..	..	700	1,650	..	136
5. *Village and Small Industries*							
Khadi :—							
Traditional	million yards	7·3	28·9	48·0		558	
Ambar	million yards	..	..	26·0	3,500	..	49
Handloom	million yards	742	1,471	1,900		156	
Powerloom	million yards	148 (c)	273 (c)	375		153	
Sericulture..	million tons	2·5(h)	3·2(c)	3·6(c)	5·0	44	48
6. *Transport and Communications*							
Transport Services :—							
Railways :							
Freight carried	million tons	91·5	114·0	154·0	245·0	68	59
Roads :							
Surfaced including national highways ..	'000 miles	97·5	122·0	144·0	169·0	48	17
Roads : Commercial vehicles on roads..	'000 numbers	116	166	210	365	81	74
Shipping	lakh GRT	3·9	4·8	9·0	10·9	130	21
Major Ports :—							
Handling capacity	million tons	20	25	37	49	85	32
Communications :—							
Post Offices	'000 numbers	36	55	77	94	114	22
Telegraph Offices	'000 numbers	3·6	5·1	6·5	8·5	81	31
Number of Telephones	'000 numbers	168	280	460	660	174	43
7. *Education :*							
General Education :—							
Students in Schools	million numbers	23·5	31·3	43·5	63·9	85	47
School going children as percentage of children in the respective age groups :							
Primary stage	6-11 years	42·6	52·9	61·1	76·4	79(i)	45(i)
Middle stage	11-14 years	12·7	16·5	22·8	28·6	102(i)	55(i)
High, higher secondary stage	14-17 years	5·3	7·8	11·5	15·6	139(i)	57(i)
Institutions :							
Primary/junior basic schools	'000 numbers	209·7	278·1	342·0	415·0	63	21
Middle/senior basic schools	'000 numbers	13·6	21·7	39·6	57·7	191	46
High/higher secondary schools ..	'000 numbers	7·3	10·8	16·6	21·8	128	31
Multipurpose schools	'000 numbers	..	0·3	2·1	2·4	..	14

(c) Relates to Calendar year.
(g) Relates to crop year (Nov. to Oct.).
(d) Relates to five-year period.
(h) Calendar year 1951.
(i) Worked out from enrolment figures.

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TARGETS—*Contd.*

Item	Unit	1950-51	1955-56	1960-61 (estimated)	1965-66 Targets	Increase in 1960-61 over 1950-51 (percentage)	Increase in 1965-66 over 1960-61 (percentage)
Technical Education :							
Engineering and Technology degree level (intake)	number	4,120	5,890	13,858	19,137	236	38
Diploma Level (intake)	number	5,900	10,480	25,570	37,390	333	46
Agriculture :							
Degree Level (intake)	number	1,060 (*j*)	1,989	4,600	6,200	334	35
Veterinary :							
Degree Level (intake)	number	434 (*j*)	1,269	1,300	1,460	200	12
8. *Health*							
Institutions :—							
Hospitals and dispensaries	'000 numbers	8·6	10·0	12·6	14·6	47	16
Hospital beds	'000 numbers	113	125	186	240	65	29
Primary Health Units	number	..	725	2,800	5,000	..	79
Family Planning Centres	number	..	147	1,649	8,200	..	397
Personnel :—							
Medical Colleges (intake)	number	2,500	3,500	5,800	8,000	132	38
Doctors (*k*)	'000 numbers	56	65	70	81	25	16
Nurses (*k*)	'000 numbers	15·0	18·5	27·0	45·0	80	67
Mid-wives* (*k*)	'000 numbers	8·0	12·8	19·9	48·5	149	144
Nurse-dais and dais (*k*)	'000 numbers	1·8	6·4	11·5	40·0	539	248
Health assistants and sanitary inspectors	'000 numbers	3·5	4·0	6·0	19·2	71	220

(*j*) Relates to 1951-52. (*k*) In Practice or Service.

* Including nurses registered as auxiliary-nurse mid-wives.

PROJECTS

Below we give a list of industrial and mining projects in the public sector which are in the planning or execution stage during the Third Plan period : Figures within brackets are the total investment and foreign exchange component respectively in Rs. crores :

A. *Projects under execution and carried over from the Second Plan :*

Completion of the three steel plants Bhilai, Rourkela and Durgapur; Rourkela Fertilizer Factory at Rourkela (50; 20); Heavy Machine Plant, Ranchi; Foundry Forge Shop, Ranchi; Mining Machinery Plant, Durgapur (80; 55); Heavy Electrical Plant, Bhopal (16; 7); Drug Projects: Synthetic Drugs Plant, Sanatnagar; Antibiotics Plant, Rishikesh; Phyto-Chemicals Plant, Munnar; Surgical Instruments Plant, Guindy (30; 15); Organic Intermediates Plant, near Panvel (11; 6); Expansion of Hindustan Antibiotics, Pimpri (0·5; —); Trombay Fertilizer Factory, Trombay (25: 13); Nahorkatiya Fertilizer Factory, Nahorkatiya (12; 7); Neyveli Fertilizer Factory, Neyveli (15·68; 11·56); Briquetting and Carbonisation Plant, Neyveli (13·84; 8·61); Neyveli Thermal Power Plant, Neyveli (9·67; 5·86); Nunmati Oil Refinery, Nunmati (8·5; 4·9); Barauni Oil Refinery, Barauni (23; 7·5).

Coal :

Coal Programme of N.C.D.C. (8; —); Washeries at Bhojudih, Patherdih and Dugda (7·5; 4).

Oil : Oil India :

Crude Pipe line (8; —); Share capital in Oil India (1·42; —).

Lignite : Neyveli Lignite Project:

Mining Scheme (3·29; 1·3); Housing (3; —).

Iron Ore :

Kiribwin (6; 3·93).

B. *New projects for which external credits are already assured, wholly or partly :*

Expansion of Heavy Machinery Plant, Ranchi (14; 11); Expansion of Foundry Forge, Ranchi (10; 5·5); Expansion of Mining Machinery Plant, Durgapur (15; 10); Second and third heavy electrical projects, location not yet decided (69; 45); Heavy Machine Tool Project, Ranchi (11; 9); Precision Instruments Project, location not yet decided (8; 6); Ophthalmic Glass Project, Durgapur (2·6; 2); Raw Film Project, Ootacamund (8; 5); Watch Factory, Bangalore (2·5; 1·5); Expansion of Bhilai Steel Plant, Bhilai (138; 56); Expansion of Durgapur Steel Plant, Durgapur (56; 27); Expansion of Rourkela Steel Plant, Rourkela (90; 50); Expansion of Hindustan Machine Tools, Bangalore (3; 2); Basic Refractories Project, Bhilai (3; 1·5); New Machine Tools Works in Punjab, near Pinjore, 3 miles from Kalka (5; 3); Gujarat Oil Refinery, exact location not yet decided (30; 15); Expansion of Praga Tools, Secunderabad (1; 0·5); Heavy Structural Works and Heavy Plate and Vessel Works, location not yet decided (10·1; 6·4); Gorakhpur Fertilizer Factory, Gorakhpur (18; 8); Security Paper Mill, Hoshangabad (5·5; 4); Expansion of Hindustan Cables, Rupnarainpur (3·5; 1·2).

Coal :

Additional coal (17 m. tons) from N.C.D.C. (57; 28); Singareni expansion (3 m. tons) (20; 6); Maintenance of production (16; 10); Central Workshop (8; 2·7); Drills (prospecting (2; 1·4); Advance action for the 4th Plan (10; 7); Central ropeways (16; 8); Additional washing capacity for coking coal(20; 11·3).

Oil :

Oil exploration (115; 53·53).

Iron Ore :

Bailadla Iron Ore Project (17; 8·55).

Copper Projects :

Khetri Copper Project (10); Daribo Copper Project (2·5). Foreign exchange component for both together 6·36.

C. *Other projects :*

Bokaro Steel Project, Bokaro (200; 100); Alloy and Steel Tools Plant, Durgapur (50; 20); Expansion of Bhopal Heavy Electrical Plant, Bhopal (19; 8); Expansion of Hindustan Shipyard (expansion and subsidy), Vishakapatnam (10; 1·5); Dry Dock Project of the Hindustan Shipyard, Vishakapatnam (2; 0·5); Second Shipyard, Cochin (20; 5); Expansion of FACT, Alwaye (8; 5·6); Expansion of Nepa Mills, Nepanagar (4; 3); Salt development (3; 0·8); Heavy Compressors and Pumps Project, location not yet decided (15; 10); Ball and Roller Bearing Project, location not yet decided (8; 6); Additional capacity for machine tools, second heavy structural works and second plate and vessel works, location not yet decided (15; 10); Marine Diesel Engine Factory, location not yet decided (3; 1·5); Expansion and modernisation of the Govt. Alkaloid Factory, Ghazipur (0·4; —); Lubricating Oil Plant (12; 6); Low temperature carbonisation plants (22; 15); Neyveli Lignite High Temperature Carbonisation Plant and connected facilities for pig iron production, Neyveli (25; 13); Townships at project sites (50).

Coal :

Non-coking Coal Washeries (12; 7).

Neyveli Lignite Project :

Expansion of mine output (3·8; 1·45).

Oil :

Oil distribution programme (10; —); Oil India (8; —); Crude oil pipe lines (4; —); Oil products pipe lines (37; 10).

Other minerals :

Sikkim Copper Project (2·5; 1·3); Panna Diamond Project (1·5; 0·6); Manganese ore beneficiation plants (5; 1); Project for sulphur from projects (5; 2·5); Kolar gold mines (1·5; 0·84); Hutti gold mines (0·50; 0·20); Expansion of Kiriburu (6; 3); Uranium Mining Fabrication and Plutonium Extraction Plant (24; 8·17).

Surveys :

G.S.I Expansion (10; 3·19); I.B.M. Expansion (5; 1·89).

Industrial Projects of State Governments : Schemes with a total outlay of Rs. 50 lakhs or more :

A. Projects spilling over from the Second Plan. Figures within brackets are total investment and foreign exchange component respectively in crores of rupees :

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Expansion of Andhra Paper Mills, Rajahmundry (4 ; 2·49) ; Expansion of Mysore Iron and Steel Works, Bhadravati : (*a*) Steel expansion programme (2*; 3·5) ; (*b*) Expansion of ferro-silicon plant (0·95 ; 0·37) ; Expansion of Govt. Electric Factory, Bangalore (0·9 ; 0·48). Durgapur Coke Ovens, Durgapur : (*a*) Gas Grid (2·25 ; —) ; (*b*) Tar Distillation Plant (0·5 ; 0·17) ; (*c*) Doubling of Coke Ovens and by-products plant (4·2 ; —).

B. *New Projects included in the Third Plan.*

Natural gas distribution, Assam (1·65 ; 0·3) ; Gas fractionation and transmission scheme, Assam (1·5 ; 0·5) ; Expansion of Bihar Superphosphate Factory, Sindri (0·5 ; 0·15) ; Expansion of High Tension Insulator Factory, Ranchi (0·58 ; 0·17) ; Fertiliser Project, location not yet decided (20 ; 10) ; Cotton Spinning Mill, Samba (0·5 ; 0·25) ; Pilot Iron and Steel Plant, Madras (0·75) ; Steel Rolling Mill, Madras (1 ; —) ; Distribution of Gas in Bombay, Bombay (0·5 ; —) ; Reorganisation of the workshop at Nangal (0·5) ; Refractories Plant, Churk (0·85 ; 0·3) ; Expansion of the Precision Instruments Factory, Lucknow (0·69 ; 0·22) ; Organic Chemicals Scheme, Durgapur (4 ; 2) ; Cotton Spinning Mill, West Bengal (0·65 ; 0·08) ; Miscellaneous schemes costing less than Rs. 50 lakhs each (15·61 ; 4).

Mineral Projects of the State Governments : New schemes included in the State Plans with total outlay of Rs. 50 lakhs or more. The outlay in Rs. lakhs is given within brackets :

Kalakot Coal Mining Project (Jammu and Kashmir) (0·60) ; Rajashthan Mining Corporation (exploitation of Palana lignite and flourspan at Durgarpur) (2·75) ; Board of Mineral Development of Mysore (exploitation of iron and manganese ores in the State) (0·9) ; Miscellaneous schemes/programmes costing less than Rs. 50 lakhs each (6·75).

* Made up of Rs. 5 crores in the Central Plan and Rs. 2 crores in the State Plan.

PROGRESS REPORT 1950-51 TO 1960-61

The First and the Second Five Year Plans mark the first phase in fulfilling the economic and social objectives of India's planned development.

The balance sheet for the first decade of planning shows a steadily rising trend in national income, agricultural and industrial production and in the development of India's human resources. The period has also been marked by a quicker rate of growth of the national economy and greater emphasis on increasing employment opportunities, reducing disparities in income and wealth and preventing the concentration of economic power.

INVESTMENT

Reckoned at current prices, the total investment during the two Plans was Rs. 10,110 crores, Rs. 5,210 crores in the public sector and Rs. 4,900 crores in the private sector.

(Rs. crores)

Sector	First Plan 1951-56	Second Plan 1956-61 (anticipated)	Total 1951-61
Public Sector outlay	1,960	4,600	6,560
Public Sector investment	1,560	3,650	5,210
Private Sector investment*	1,800	3,100	4,900
Total investment	3,360	6,750	10,110

* These are revised estimates. They exclude transfers from the public sector.

NATIONAL INCOME

The increase in national income has been 42 per cent over the last decade ; but owing to the increase in population, the increase in income per capita has been 16 per cent.

Agricultural production has gone up by 41 per cent and industrial production by 94 per cent. The following table gives a summary of agricultural production trends since 1949-50.

(1949-50 = 100)

	1950-51	1955-56	1960-61
All crops	96	117	135·0
Food crops	91	115	131·0
Other crops	106	120	143·0

The table shows that there was a rising trend but variations from year to year were considerable. The increase in the production of major agricultural commodities has been as follows :—

Crop	Unit	1950–51	1955–56	1960–61
Foodgrains (cereals and pulses)	million tons	52·2	65·8	76·0
Oilseeds..	,,	5·1	5·6	7·1
Sugarcane (gur)	,,	5·6	6·0	8·0
Cotton	million bales	2·9	4·0	5·1
Jute	,,	3·3	4·2	4·0

The total outlay on agriculture, community development and irrigation amounted to Rs. 1,551 crores during the decade. The net area irrigated is estimated to have increased from 51·5 million acres in 1950-51 to 70 million acres in 1960-61.

Among the most significant developments in the agrarian economy during the past decade, mention may be made of the introduction of the extension services throughout the country as an integral part of the community development movement and democratic decentralisation of rural development work. At the end of the Second Plan, the community development movement covered about 370,000 villages and well over half of the country's population. About 60,000 village level workers and technical officers were given special training in extension work.

The cooperative movement has made considerable progress. By the end of 1960-61 there were 210,000 primary agricultural societies —almost double the number in 1950-51. About 1,870 cooperative marketing societies and 41 cooperative sugar factories were set up.

By the end of 2nd Plan 11·8 million acres were estimated to have been brought under green manuring. About 2·7 million acres were covered by soil conservation measures. Production of milk went up from 17 million tons to 22 million tons and of fish from 0·7 million tons to 1·4 million tons.

INDUSTRY

The past decade has witnessed striking development in industry—in terms of the rate as well as the pattern of industrial growth. Some idea of the trend may be obtained from the following indices of industrial production :

Group	1955–56	1960–61
General index ..	139	194
Cotton textiles ..	128	133
Iron and steel ..	122	238
Machinery (all types) ..	192	503
Chemicals	179	288

With the successful completion of the First Plan, it was possible to take up in a large way the development of new industries especially the capital and producer goods industries, which constitute the basis for any programme for accelerated industrial growth.

A key role was assigned to the public sector in the development of basic and heavy industries. Total public sector outlay on industries and minerals amounted to Rs. 974 crores over the decade. Investment in the Second Plan alone amounted to as much as Rs. 870 crores in the public sector or 56 per cent of the total investment in organised industry, public and private.

The three new steel projects in the public sector have reached the stage of production and the output of steel ingots has increased from 1·4 million tons in 1950-51 to 3·5 million tons in 1960-61 and of pig iron from 3·5 lakh tons to 9 lakh tons. The availability of other essential industrial materials like aluminium, cement, heavy chemicals and dyestuffs, of fuels such as coal and petroleum, and of power has also increased substantially since 1950-51.

There has been a rapid growth of machine-building industries. The value of graded machine tools produced in the country has increased from Rs. 34 lakhs in 1950-51 to Rs. 550 lakhs in 1960-61. The progress made by chemical industries particularly pharmaceuticals, heavy chemicals and fertilisers has been remarkable. Significant progress has been made in increasing the indigenous content of industrial products manufactured in the country.

The following table gives some idea of the progress made in the production of important producer and consumer goods during the decade.

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Production in selected industries

Item	Unit	1950–51	1960–61
Steel ingots	mln. tons	1·4	3·5
Aluminium	'000 tons	3·7	18·5
Diesel engines	'000 number	5·5	40
Electric cables (ACSR conductors)	'000 tons	1·7	22·0
Nitrogenous fertilizers (in terms of N)	"	9	110
Phosphatic fertilisers	"	9	55
Sulphuric acid	"	99	363
Cement	mln. tons	2·7	8·5
Cotton textiles (mill-made)	mln. yds.	3,720	5,127
Sugar *	mln. tons.	1·1	3·0
Paper and paper board	'000 tons	114	350
Bicycles (organised sector only)	'000 number	101	1,050
Automobiles	"	16·5	53·5

*Relates to crop year November-October.

POWER

A number of hydro-electric and thermal power projects were constructed during the period and the total public sector investment in power amounted to Rs. 705 crores. The installed capacity of hydro-electric power increased from 0·56 mln. kW to 1·93 mln. kW and of thermal power from 1·74 mln. kW to 3·77 mln. The total installed capacity thus rose from 2·3 mln. kW in 1950 to 5·7 mln. kW in 1960-61, which is short of the target of 6·9 mln. kW. The total number of towns and villages electrified went up from 3,687 in 1950-51 to 23,000 in 1960-61.

TRANSPORT AND COMMUNICATIONS

The total public sector outlay was Rs. 1,823 crores. There was substantial expansion in railways, road transport, shipping and airways. 1,180 miles of new railway lines were added. The number of locomotives increased from 8,500 in 1950-51 to 10,600 in 1960-61, coaches from 20,500 to 28,200 and wagons from 222,400 to 341,000. The passenger miles increased from 41·3 billions to 48·6 billions. The total freight traffic carried went up from 91·5 mln. tons to 154 mln. tons.

The mileage of surfaced including national highways increased from 97,500 to 144,000 and unsurfaced from 151,000 to 250,000. The shipping tonnage increased from 3·9 lakh GRT to 9 lakh GRT. The capacity of major ports rose from 20 mln. tons to 37 mln. tons. The number of road transport commercial vehicles increased from 116,000 to 210,000.

The number of postal articles handled increased by about 80 per cent and of trunk telephone calls by about fivefold between 1950-51 and 1960-61. The number of post offices rose from 36,000 to 77,000 and of telephones from 168,000 to 460,000. In the field of broadcasting each language area was provided with one transmitting station and there were 28 stations in 1960-61. The number of radio licences increased by about fourfold during the period.

SOCIAL SERVICES

Altogether Rs. 1,289 crores were spent for social services during the period.

Education: The number of students in all schools increased from 23·5 mln. in 1950-51 to 43·5 mln. in 1960-61—an increase of 85 per cent. The proportion of children attending schools in the age group 6-11 increased from 42·6 per cent to 61·1 per cent and in the age group 11-14 from 12·7 per cent to 22·8 per cent. The number of primary schools increased from 210,000 to 342,000 while that of high and higher secondary schools from 7,300 to 17,000. The number of universities increased from 27 to 46 and of colleges (excluding intermediate colleges) from 542 to 1,050.

In the field of technical education, facilities in existing institutions were expanded and 51 new degree colleges and 110 polytechnics were opened. The total intake of students in these institutions increased from 10,000 in 1950-51 to 39,400 in 1960-61. The annual intake of agriculture and veterinary colleges increased about fourfold.

Scientific research: Twenty national laboratories and 3 regional research centres were opened. Notable progress was made in basic and applied research in nuclear science and the peaceful use of atomic energy.

Health: The number of medical institutions increased from 8,600 with about 113,000 beds to 12,600 institutions with 185,600 beds. In addition, 2,800 primary health centres were opened. The number of medical colleges increased from 30 to 57 and that of doctors in practice or in service increased from 56,000 to 70,000. As a result of all the health measures the average expectation of life at birth improved by about 10 years during the period. By 1960-61 there were 549 urban centres and 1,100 rural centres engaged in family planning service.

Welfare of backward classes: An area of 3·6 mln. acres of land was allotted to members of scheduled castes and scheduled tribes, and another 2·6 mln. acres to other backward classes. About 68,000 post-matric scholarships were awarded to students of these classes.

Rehabilitation: Total expenditure on rehabilitation of displaced persons from East and West Pakistan during the two Plans amounted to Rs. 168 crores.—Rs. 71 crores on housing, Rs. 31 crores on education and vocational training and Rs. 11 crores on urban loans and the balance on miscellaneous schemes. Development of Dandakaranya area for resettlement of displaced agriculturist families from East Pakistan was initiated during the Second Plan.

Employment: The additional employment opportunities created during the 2nd Plan are estimated at 8 million of which 6·5 million were outside agriculture. At the end of 2nd Plan the backlog of unemployment is estimated at about 9 million.

The following are some of the achievements during the First and Second Plans, proposals for the Third Plan or requirement for the Third Plan of certain items:

The highlight of the programme to control communicable diseases in the Third Five Year Plan for Health is the eradication of malaria and smallpox. The outlay on control of communicable diseases in the Plan is Rs. 70 crores as against Rs. 64 crores provided for in the Second Plan and Rs. 23 crores spent during the First Plan.

About Rs. 239 crores have been spent on the rehabilitation of displaced persons till the end of the Second Plan. The Third Plan, at present, envisages a provision of Rs. 40 crores. Programmes formulated by the Ministry of Rehabilitation in consultation with the State Government had added upto a total outlay of Rs. 74 crores. Since the objective is to complete rehabilitation in as short a period as feasible and rehabilitation programmes have special features of their own, financial provisions will be reviewed and made each year.

During the Third Plan period it is proposed to increase power generation by 6·99 MW, construct 66,000 circuit miles of transmission lines of 11 KV and above and electrify about 20,000 villages.

According to the phased programme of power generation, 0·60 million kW will be added to the generating capacity during 1961-62, 0·73 million kW in 1962-63, 1·05 million kW in 1963-64, 2·07 million kW in 1964-65 and 2·54 million kW in 1965-66. The aggregate installed generating capacity by the end of the year 1965-66 will be 12·69 million kW.

It is expected, that the power requirements in different parts of the country might be substantially met by the end of the Third Plan.

During the Third Plan, a sum of Rs. 35 crores will be spent on the schemes for the welfare of b ckward classes that will be totally financed by the Centre.

The approximate estimated requirement of rails for the Third Plan is 16·50 lakh tons.

The requirement of 4·50 lakh tons during 1961-62, is being met by indigenous production to the extent of 1·66 lakh tons, and, from imports to the extent of 2·84 lakh tons.

During 1962-63 also some imports might be necessary. During the remaining years of the Third Plan, the full requirements are expected to be met from the indigenous production.

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INDIA'S FRONTIER WITH CHINA

The course of the frontier may, broadly speaking, be described as follows.

India's northern frontier with China extends over 2,500 miles from north-west Kashmir to the tripartite junction of India, Burma and China near the Talu Pass. The frontier is traditional and well enough known.

In some sectors it has also been demarcated or defined. It runs along the Muztagh and the Karakoram ranges through the Karakoram pass and then along the Kuen Lun ranges to a point east of 80° longitude. Thereafter, it follows the watershed and runs through Lanak pass and along the Changchengmo range. Cutting across the Pangong Tso and the Spanggur Tso, it runs through Chang pass and along the Kailash range. It then turns south-west near Demchok and skirting the Hanle mountains cuts across the Para Chu river south of Chumar. It then follows the watershed between the Spiti and the Para Chu and the watershed between the Ganga and the Sutlej to the tri-junction of India, Nepal and China.

The boundary of Sikkim and Tibet is also a watershed, while the crest of the Himalayas forms the boundary between Bhutan and Tibet.

The north-east frontier of India, about 700 miles long, from the eastern Limits of Bhutan to a point near the Talu pass, is for the most part the northern watershed of the Brahmaputra. This is the so-called McMahon Line.

Frontier of Kashmir with Tibet: The frontier in this sector is about 1,100 miles long. About 300 miles of the extreme western sector is covered by the territory of Kashmir which is illegally occupied by Pakistan. The major part of Kashmir's frontier with China runs along a well-defined watershed, and the eastern section in particular has been recognised by custom for over three centuries. It was also confirmed by treaties signed between Ladakh and Tibet *circa* 1684 and in 1842. This boundary includes in India, the whole of the Aksaichin plateau, the Changchengmo valley, and the Pangong, Rupshu and Hanle areas. However, Chinese maps have been showing the boundary in this area much further west so as to include about 6,000 square miles—the greater part of Aksaichin, and parts of the Changchengmo valley, and the Pangong, Spanggur Tso and Chang La areas—in Tibet. The road constructed by the Chinese runs for about a hundred miles through the eastern part of Aksaichin. In September 1957 it was announced that this road had been completed. Indian parties have been arrested near the northern extremity of Aksaichin in 1958 and in the Spanggur area in 1959.

The Punjab-Tibet Frontier: This is about 70 miles in length. In the southern part of this sector, some Chinese maps show the boundary four to five miles west of the traditional boundary which is the watershed between the Spiti and Para Chu rivers. In 1956 and 1957, Chinese parties visited this area.

Himachal Pradesh and Uttar Pradesh boundary with Tibet: It is about 320 miles long and follows well-defined watersheds. In Himachal Pradesh it is the watershed between the eastern and western tributaries of the Sutlej, and in Uttar Pradesh that between the Sutlej on the one hand and the Kali, Alakhnanda and Jadhganga on the other. The six passes on the watershed—Shipki, Mana, Niti, Kungri Bingri, Darma, and Lipu Lekh—have been mentioned in the 1954 Agreement as passes between India and China. The Great Himalayan Range in this region lies in some places thirty to forty miles south of the watershed. The Nilang-Jadhang area, about a hundred square miles in area, has always been Indian territory.

Sikkim-Tibet Frontier: This was defined in the Anglo-Chinese Convention of 1890, and was later, in 1895, demarcated on the ground. All Chinese maps seem to show this boundary correctly.

Bhutan-Tibet Frontier: This is a customary boundary and follows the crest of the Himalayan Range for about three hundred miles. Chinese maps level out Bhutan in two sectors in the north and include a considerable part of south-eastern Bhutan in Tibet.

McMahon Line: From the eastern border of Bhutan to a point near the Talu pass, the frontier is a customary one which was defined in detail at the Simla Conference of 1914. The line follows the northern watershed of the Brahmaputra except where the Lohit, Dihang, Subansiri and the Namjang rivers break through. This watershed is for its greater part the Himalayan Range and in other places the highest range in the area. In one place the Line departed from the watershed to leave two sacred lakes, the village of Migyitun and a pilgrimage route in Tibet.

The line shown on Chinese maps includes in Tibet nearly 32,000 square miles of our territory in this area. This piece of territory comprises the whole of three Divisions of the North-East Frontier Agency—Kameng, Subansiri and Siang—and the major part of the fourth—the Lohit Frontier Division. In the extreme west it includes a belt of the Assam plains also.

INDIAN CASE

Having traced the course of the customary frontier between India and China we may next describe the Indian point of view.

Briefly it is this.

India's traditional frontier with China is well known being based partly on treaty, partly on custom and partly on agreement.

The present controversy arose because, the Chinese Government laid claim for the first time to extensive areas of Indian territory in the Chinese Prime Minister's letter of 8th September 1959.

The tension on the India-China border increased in 1959 and 1960 because Chinese forces had been pushing forward to assert their claims, and this has resulted in clashes involving the death of Indian personnel.

The Government of India have stated that in spite of recent Chinese provocations they will always explore the possibilities of a peaceful settlement. But they cannot accept the Chinese contention that the entire India-China frontier is undelimited. Negotiations on this basis are unacceptable to the Government of India. But they are prepared to discuss with the Chinese Government existing disputes and such minor rectifications of the frontier as may be considered necessary by agreement.

Though this is not part of the Indian case it may be added that the precise nature of the Chinese claims have not been stated by Chinese authorities. They can only be inferred from Chinese maps published from time to time.

The entire length of this border has been either defined by treaty or recognized by custom or by both, and until the present controversy no Chinese Government had ever protested against the exercise of jurisdiction by the Government of India upto the customary border.

The Government of the People's Republic of China contend in their letters that this boundary is entirely undelimited. This is wholly incorrect. The traditional border has been well-known for centuries. It follows the geographical principle of the watershed which is in most places the crest of the Himalayan mountains.

Moreover, in most parts the boundary has the sanction of specific international agreements.

NORTH-EASTERN FRONTIER

In the north-east, the traditional boundary was formalized at a Tripartite Conference held in Simla from October 1913 to July 1914 and attended by the Plenipotentiaries of the Governments of India, Tibet and China. The Indian, Tibetan and Chinese Plenipotentiaries had equal status. The boundary between India and Tibet in the sector east of Bhutan was confirmed by an exchange of notes between the Tibetan and Indian representatives on 24th and 25th March 1914. The boundary was delineated on two sheets of a large-scale map of the north-east frontier. Two copies of the map were signed and sealed by the Indian and Tibetan representatives. The line was drawn after full discussion and later re-affirmed by a formal exchange of notes. The Indo-Tibetan boundary line as agreed upon by the Indian and Tibetan Plenipotentiaries was incorporated on the map attached to the draft convention and was never challenged by the Chinese representative at that time or afterwards.

There is nothing to indicate that the Tibetan authorities were, in any way, dissatisfied with the delineation. On the other hand, Lonchen Shatra, the Tibetan Plenipotentiary, stated explicitly in the letters exchanged that he had received orders from Lhasa to agree to the boundary as marked on the map.

There is no doubt that the McMahon Line (so called after McMahon, the British representative at the Conference) merely confirmed the natural, traditional, ethnic and administrative boundary in the area. It runs mostly along the crest of the High Himalayan Range which forms the natural frontier between the Tibetan plateau in the north and the sub-montane region in the south. The Monba, Aka, Dafla, Miri, Abor and Mishmi tribes, who inhabit the area, are of the same ethnic stock as the other hill-tribes of Assam and have no kinship with the Tibetans. The Tibetans refer to these tribes as Lopas—southern barbarians beyond the pale.

It has to be appreciated however that boundaries between any two countries are not determined by ethnic affiliations of people living in frontier regions. It is also possible that people of the same racial stock live on either side of a border. India is a multi-national State in which many racial minorities enjoy rights of citizenship. In this context, it is relevant to mention that there are thousands of Indian citizens of Tibetan origin in our frontier areas. The fact is that the ethnic composition of frontier peoples is not a determining factor.

The important consideration to bear in mind is that Tibetan authorities had not exercised jurisdiction at any time in this area. On the other hand, the exercise of jurisdiction by the Government of India has been long and continuous.

Both the Simla Convention and the map attached to it were signed by Ivan Chen, the Chinese Representative. Although the Chinese Government later repudiated his signature, the objections to the Simla Convention listed in their memorandum of 25th April, 1st May and 13th June 1914 and 30th May 1919 were solely in regard to the boundary between Inner Tibet and China and between Inner Tibet and Outer Tibet. China neither protested against the boundary between India and Tibet nor did she seek modification of it after the Simla Convention. It is significant too that the Chinese Government agreed in 1956-57 to consider the eastern sector of the McMahon Line, which for about 120 miles forms the boundary between Burma and China, as the traditional boundary between the two countries.

CENTRAL SECTOR

The central sector of the boundary between Tibet and India is the frontier of Uttar Pradesh, Himachal Pradesh and the Punjab States in north India. The boundary between Uttar Pradesh and Tibet follows the watershed between the Sutlej on the one hand and the Ganges (the Kali, the Alaknanda and the Jadhganga) on the other. In this sector, the High Himalayan Range, with passes at a height of about 17,000 feet, runs 30 miles south of the water-parting, which is a lower range easily crossed from the Tibetan plateau. However, this watershed has been the traditional and well-known boundary. Revenue records of the Garhwal district as far back as 1850 establish this. Even Chinese maps upto 1958 showed the watershed as the frontier. The Nilang-Jadhang area, Bara Hoti, Lapthal and Sangcha Malla, which according to the contention of the Chinese Government lie in Tibet, are in fact well on the Indian side of the watershed.

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Nilang-Jadhang is an area of about 700 square miles north of the main Himalayan range but south of the watershed. Bara Hoti, a small area of about 1½ square miles, also lies between the highest range of the Himalayas and the main watershed. Lapthal and Sangcha Malla are south-east of Bara Hoti, in Almora district in Uttar Pradesh. The boundary between Himachal Pradesh and Tibet is the water-parting between the eastern and the western tributaries of the Sutlej; and the boundary between the Punjab and Tibet is the major watershed between the Pare Chu and the Spiti river systems.

LADAKH

The boundary of Jammu and Kashmir with Sinkiang and Tibet is about 1,100 miles in length. Of this the frontier of Ladakh (which is part of Jammu and Kashmir) forms nearly two-thirds.

This boundary between Ladakh and Tibet, long sanctified by custom, was reaffirmed by the Treaty of 1842 signed by the representatives of Kashmir on the one hand and the Dalai Lama and the Emperor of China on the other. The Tibetan text of the treaty confirms that China was a party to it. It is true that the treaty did not define the boundary but referred merely to the "old established frontiers". This was because these frontiers were well-known and did not require any formal delimitation. In 1847 the Chinese Government informed the British Government that as the boundary was sufficiently and distinctly fixed, there was no need for additional measures for fixing them. The area was surveyed by Indian officials and, once a detailed first-hand knowledge was obtained of the region, official Indian maps began to show the boundary with precision. Even an official Chinese map of 1893 showed the boundary in this area as depicted in official Indian maps today.

For many years after 1949, when the People's Republic was established, there was no reason to believe that the Chinese authorities either were unaware of the traditional boundary or disputed its alignment. In 1950 the Chinese Government expressed their gratification over the desire of the Government of India "to stabilize the Chinese-Indian border" and the Government of India replied that "the recognized boundary between India and Tibet should remain inviolate". The Chinese Government questioned neither the location nor the recognition of this boundary, and the Government of India saw no reason to assume that there was any doubt regarding the border. On various occasions in 1951 and 1952, Indian interests in Tibet were discussed but the Chinese Government never suggested that there was any frontier issue to be negotiated.

The only cause for doubting whether the Chinese authorities accepted the traditional boundary was the fact that different alignments were being shown on Chinese maps. The alignments included about 36,000 square miles of territory on the north-eastern frontier and an area of about 15,000 square miles in north-eastern Ladakh within China.

CHINESE CASE

The Chinese case is set out in a letter which the Chinese Prime Minister wrote to Mr. Nehru and was delivered at the Indian Embassy in Peking on Dec. 26, 1959. This was in reply to a letter of Mr. Nehru's dated 26th Sept. and a note dated 4th Nov.

The Chinese Note contends that the entire 2,500-mile boundary between the two countries has never been delimited and "is, therefore, yet to be settled by negotiations."

The traditional border has been correctly depicted in the Chinese maps. The McMahon Line and the Indian delineation of the 1842 treaty boundary are tantamount to usurping 90,000 square kilometres of Chinese territory in NEFA and 33,000 square kilometers in Ladakh.

The thesis that China's traditional expansion is asserting itself with the growth of industrial power and the pressure of population, is answered at some length with reference to the fact that there is currently a labour shortage in China; the food output has far outstripped the population growth; despite industrial progress, China will remain economically and culturally backward for decades; one half of China's vast territory is sparsely populated and it has all the natural resources it wants.

About the Tibet-Sikkim border, the note says that this has been formally delimited and there is no dispute here.

But a claim is made to parts of north-eastern Bhutan.

The note deals with the boundary section by section.

LADAKH

The 1842 treaty contained no provision or hint whatsoever about the concrete location of (the Tibet-Ladakh) boundary. In any case, 80 per cent. of the disputed area of 33,000 square kilometres forms part of Sinkiang which was no party to the treaty and, therefore, does not come within the ambit of the treaty. Indian maps upto 1950 showed the border as undefined.

Aksaichin is itself a Uighur name and has "all along been a place for pasturage and salt-mining for the Uighur and Kirghiz people."

Since the mid-eighteenth century, the Ching rulers have established check-posts to exercise jurisdiction over and patrol this area. More recently, the Tibet-Sinkiang highway was built along the old caravan route. "This area is the only traffic artery linking Sinkiang and western Tibet, because, to its north-east lies the great Gobi of Sinkiang through which direct traffic with Tibet is practically impossible." The Indian maps cut across the Hotien river system and are, therefore, contrary to the watershed principle.

"The traditional customary line claimed by the Indian Government, instead of separating the Hotien river system from the Indus river system, actually cuts across the Hotien river system. On the contrary, the traditional customary line as shown on Chinese maps truly reflects the geographical features of this area, that is, having no steep slopes in the north-south direction, the area is easily passable and, therefore, naturally forms the only route linking Sinkiang and western Tibet."

To the west, however, there lies between this region and Ladakh the towering Karakoram range which is extremely difficult to pass through. The Indian Government also admits that this area is extremely difficult of access from Ladakh.

Referring to the treaty of 1842 between Tibet and Kashmir, the Note elaborated :—

"The treaty contained no provision or hint whatsoever about the concrete location of the boundary. None of the arguments advanced by Prime Minister Nehru in his letter of September 26, 1959, to Premier Chou En-lai to the effect that the location of the boundary has been long established can prove that the boundary line now claimed by the Indian Government is well-founded.

"The 1842 treaty was concluded between the authorities of the Tibet region of China and the Kashmir authorities, but the greater part (about 80 per cent.) of the area now disputed by the Indian Government is part of China's Sinkiang province which was no party to the treaty. It is obviously inconceivable to hold that, judging by this treaty, vast areas of Sinkiang have ceased to belong to China but have become part of Ladakh. The British Government proposed in 1899 to delimit the boundary between Ladakh and Kashmir on the one hand and Sinkiang on the other, but nothing came of it. It is also inconceivable that the territory of another country can be annexed by a unilateral proposal.

"The Indian Government says that it has been sending regular patrols to this (western) area, and that this is one way India exercises its jurisdiction.

"According to data available to the Chinese Government, however, armed Indian personnel intruded only three times into this area to carry out reconnaissance, namely, in September, 1958, July, 1959, and October, 1959, and on each occasion they were promptly detained and then sent out of China by Chinese frontier guards. Apart from these three intrusions, they have never been to this area. It is precisely for this reason that the Indian Government has been so unaware of the long-term activities of the Chinese personnel in this area that it declares that it was in 1957 that Chinese personnel first entered this area.

"The Indian Government says that the delineation of the western sector of the boundary on an official Chinese map published in 1893 approximates to that of the Indian maps. The Chinese Government does not know what map is referred to here and consequently, is unable to comment on it. As to the atlas published in 1917 by the British-owned paper, the North China Daily News and Herald, it can only represent the British view but not the Chinese, and there is no need to discuss it here."

MIDDLE SECTOR

This is the boundary between the Punjab, Himachal Pradesh and U.P. on the one hand and Tibet on the other.

The Tibetan authorities have old land deeds and other records relating to Shipki, Nilang, Bara Hoti, etc. They have collected taxes and included them in the Tibetan census. The people are of Tibetan nationality and official Indian maps up to 1950 showed the border as undefined.

The Chinese Note quotes from letters exchanged between the British Government and the Tibetan authorities between 1921 and 1927, speeches of Mr. Nehru and some other data to support the contention that the border in the western region had never been delimited.

"The Indian Government considers that the specification in Article IV of the 1954 Sino-Indian Agreement of six passes in this area as passages for traders and pilgrims of both countries indicates that the Chinese Government has already concurred in the Indian Government's opinion about this sector of the boundary. The Chinese Government holds that this allegation is untenable both factually and logically."

The 1954 Sino-Indian discussions on Tibet were limited to trade and the border question was specifically excluded by mutual consent.

India has, however, since occupied Shipki Pass, Kaurik, Bara Hoti, Sangcha and Lapthal, The British had earlier occupied Nilang and Jadhang.

The question of the boundary between the two countries was not touched on at all in the 1954 Sino-Indian Agreement or during the negotiations. The Chinese side's draft wording for Article IV of the agreement was that 'the Chinese Government agrees to open the following mountain passes in the Ari District of the Tibetan region of China for entry and exit by traders and pilgrims of both parties'. The Indian side disagreed with the Chinese draft; its own draft wording was that 'traders and pilgrims from India and western Tibet may travel by the routes traversing the following localities and passes.' Later on the two sides agreed to change the wording into : 'traders and pilgrims of both countries may travel by the following passes and routes.' The concession made by the Chinese Government was only to adopt a wording which did not involve the ownership of these passes.

"Nobody can draw from this the conclusion that this sector of the boundary between the two countries has thus been fixed. On the contrary, the Chinese representative, Vice-Foreign Minister Chang Han-fu, in his talks with the Indian representative, Ambassador N. Raghavan, on April 23, 1954, clearly stated that the Chinese side did not wish, in those negotiations, to touch on the boundary question. And Ambassador Raghavan agreed forthwith. The Chinese Government, therefore, maintains that there is no ground for saying that this sector of the boundary has been delimited and that there is no need to conduct negotiations for its delimitation."

NEFA

The Tibetan administration always extended to the Tawang area and the Monba tribes. The Sixth Dalai Lama came from these parts. The

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people continued to pay taxes and render *corvee* (forced labour) to the Lhasa Government until 1946. The 1853 Anglo-Monba agreement is quoted to prove Monba's acceptance of Lhasa's sovereignty. The British treaties with other NEFA tribes, such as the Akas and Abors, show that their territories were not part of India.

"The Indian Government holds that the so-called McMahon line is the product of the 1914 Simla Conference jointly attended by Britain, China and the Tibet region of China, and is, therefore, valid. The Chinese Government holds that the so-called McMahon Line is wholly illegal, and the Indian Government's assertion is utterly unacceptable to the Chinese Government."

"Many dirty unequal treaties signed by the past Chinese Governments under imperialist oppression have already been proclaimed null and void. The Chinese Government feels perplexed why the Government of India, which has likewise won independence from under imperialist oppression, should insist that the Government of its friend, China, recognise an unequal treaty which the Chinese Government has not even signed.

"The McMahon Line is wholly illegal. The Tibet-Assam border was drawn up in a secret agreement between the British and Tibetan representatives and far from being on the agenda of the Simla Convention, was entirely unknown to the Chinese delegate. Further, China never signed the Simla Convention. The Kuomintang Government repudiated the McMahon Line in a Note delivered to the External Affairs Ministry as late as November 18, 1949. Many authoritative maps published up to 1952 in India and up to 1958 abroad showed the NEFA border as undemarcated."

The assertion that China did not raise any objection to the so-called McMahon Line between China and India is also inconsistent with the facts. It was during the most difficult period of China's war of resistance to Japanese aggression that the so-called McMahon Line gradually and unofficially appeared on Indian maps; and after 1943 the Tibet local authorities were under the firm control of British imperialism and their relations with the Chinese Central Government steadily deteriorated.

During Prime Minister Nehru's visit to China in 1954, Premier Chou En-lai made it clear that the Sino-Indian boundary was yet to be delimited. Premier Chou also said that the reason why the delineation of old maps was followed in Chinese maps was that the Chinese Government had not yet undertaken a survey of China's boundary, nor consulted the countries concerned, and that it would not make changes in the delineation of the boundary on its own. This was reiterated in the memorandum delivered to the Indian Embassy in China by the Chinese Ministry of Foreign Affairs on November 3, 1958. Besides, even the local authorities of Tibet did not regard as reasonable the so-called McMahon Line, which was the product of underhand schemes; they repeatedly objected to this Line and asked for the return of occupied Chinese territory south of the Line. This fact is not denied even by the Indian Government.

On the question of traditional border, the Note stated: "In drawing the boundary (mainly the eastern and western sectors) on its maps, the Indian Government has gone far beyond the extent of its original, actual jurisdiction. The Chinese Government holds that the delineation of the Sino-Indian boundary in current Indian maps, which differ greatly from those in Chinese maps, are not based on any international treaty, and, what is more, are not based on tradition and custom.

A CRITICISM

A brief criticism of the Chinese case is given below.

Despite the great length of the Dec. 26 Note, the Chinese case still appears at many points to rest on negative evidence.

It is alleged that the British treaties with the Akas and Abors show that these tribal territories were not part of India. Therefore, Peking argues, they must, by definition, be Chinese. There is not a shred of evidence to support the claim to 90,000 square kilometers in NEFA and Assam extending as far south as the Brahmaputra plains.

Similarly, if Aksaichin is an Uighur word meaning "the desert of white stones," then Kailas and Mansarowar are equally Indian names. This proves nothing.

Again, if Mr. Nehru's "Discovery of India" carries a map incorrectly showing NEFA as part of Tibet, then Marshal Chiang Kai-shek's "China's Destiny," published in the heyday of the Kuomintang regime, contains a map of China and adjacent areas in which Tibet is shaded as a separate entity.

If the Sixth Dalai Lama came from the Tawang area, some of the other Dalai and Panchen Lamas have also been discovered outside Tibet.

If the Monbas and other Indian border people are of Tibetan stock, then the Chinese claim should extend to Nepal, Bhutan, Sikkim and the whole of Ladakh. The argument is absurd and unhistorical.

The Dec. 26 Chinese Note claims that geography—the watershed principle—supports its case in Ladakh. It quotes Hayward (1870), author of the "Sketch Map of Eastern Turkestan," as stating "explicitly that the boundary ran along the main chain of the Karakoram mountains to the passes in Chang Chenmo." This position would appear to conflict with the Chinese acceptance of the Karakoram Pass as the Sino-Indian border in their Note of November 1, 1958.

In the "war of maps," the Chinese have politely dismissed all the Chinese and Indian maps that are against them and make no reference to the mass of historical data presented by India in its earlier correspondence.

Peking never once protested that the new Indian maps had incorporated Chinese territory. The most they ever said was that their maps were based on older maps and would be corrected. The impression given all along was that only minor adjustments may be sought.

The Simla convention was initialled by the Chinese delegation, but was never formally ratified by China on account of the differences relating to the borders between Inner and Outer Tibet. The McMahon Line was never questioned even when the matter was reopened in 1919.

It is true that the border has not been physically demarcated on the ground along certain sectors. But it is delimited on the basis of treaty, custom and usage and the very significant and highly valid geographical principle of the watershed.

In every sector from NEFA to Ladakh, the Indian border, with a few recognised exceptions follows the crest of the main mountain range that divides Central Asia and the Indian subcontinent.

Earlier Indian maps sometimes did not mark every sector of the border. But there are very early maps such as Walker's map of 1867 which do so. The more recent omissions have been filled in on the basis of accurate and up-to-date surveys and interpretation of data. In this process, India has given up portions of territory such as the depression north of the Karakoram Pass, which had been claimed by early Indian surveyors. The lines on the Chinese maps have travelled up and down through Ladakh and very few editions of even recent maps show the same line.

The Chinese Consul in Delhi, some years ago, defined Bara Hoti as being within India. He was later repudiated by his Government. Later a Chinese delegation failed to give the exact latitude and longitude of Bara Hoti in the course of several weeks of painful negotiations in Delhi. This is an illustration of how vague some Chinese claims are.

NEGOTIATIONS

The Chinese Prime Minister came to New Delhi on April 19, 1960 at the invitation of the Indian Government and stayed till April 26. During his stay discussions were held about the India-China border question.

Just before the Chinese Prime Minister left a communique was issued—on April 25.

The communique said that the two Prime Ministers explained fully to each other their respective stands on the problems affecting the border areas. This led to greater understanding of the views of the two Governments, but the talks did not result in resolving the differences that had arisen.

The two Prime Ministers were of the opinion that further examination should take place by officials of the two sides of the factual material in the possession of both the Governments.

The two Prime Ministers, therefore, agreed the officials of the two Governments should meet and examine, check and study all historical documents, records, accounts, maps and other material relevant to the boundary in support of its stand, and draw up a report for submission to the two Governments. This report would list the points on which there was agreement and the points on which there was disagreement or which should be examined more fully and clarified.

This report should prove helpful towards further consideration of those problems by the two Governments.

It was further agreed that the officials should meet from June to September, 1960, alternately in the capitals of the two countries. The first meeting should take place in Peking and the officials would report to the two Governments by the end of September, 1960.

During the period of further examination of the factual material, every effort should be made by the parties to avoid friction and clashes in the border areas.

Accordingly a team of External Affairs Ministry officials left New Delhi on June 6 for Peking for talks with Chinese officials on the Sino-Indian border dispute.

The team was headed by Mr. J. S. Mehta, Director of the China Division of the Ministry, and included Dr. S. Gopal, Director of the Historical Division, Mr. V. V. Tarapore, Mr. T. S. Murthy and Mr. G. Narayana Rao were advisers.

The report of the team which was signed on Dec. 12, 1960 at Rangoon, was placed before the Parliament on February 14, 1961. The correctness of the traditional Sino-Indian boundary as shown in Indian maps, China's aggression and unlawful occupation of 12,000 square miles of Indian territory and Chinese duplicity over the years on the frontier question have been clearly brought out in the report. The report also shows that China has now openly declined to recognise the accession of Jammu and Kashmir State to India and has gone back on Premier Chou En-lai's acceptance in April 1960 of India's relations with Bhutan and Sikkim.

The report is a damning indictment of the Peking Government which has been totally unable to substantiate its sweeping claims to some 50,000 square miles of Indian territory except by the fact of stealthy and illegal occupation of nearly a quarter of this area in Aksaichin and Eastern Ladakh.

On the other hand the alignment of the Indian border has been upheld in every sector by a mass of evidence based on geography, tradition, treaty, international law and an impressive and unbroken series of administrative and other records spanning several centuries. Numerous Chinese maps and reports are also quoted in support of the Indian contention.

The evidence by the Chinese team is scanty, imprecise, inconsistent and of recent origin. Far from assisting the Chinese, it lends powerful support to the Indian case.

The Indian side commanded an impressive array of evidence to prove beyond doubt that various important nodal points on the border such as Demchok, Khurnak, Lanak La, the Chang Chenmo Valley and Aksaichin (in the western sector), and Kaurik, Shipki Pass, Nilang-Jadhang, Bara-Hoti, Sannchamalla and Lapthal (in the middle sector) had always been part of India.

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SANCTION OF TREATIES CITED

TRADITIONAL BOUNDARIES

For all the three sectors, the Indian side also proved that the traditional boundaries had received the sanction of treaties—in the western sector the treaties of 1684 and 1842 and subsequent diplomatic correspondence; in the middle sector formal communications of 1890, 1914, and 1950 and the agreement of 1954; and in the eastern sector the formalisation of the boundary in 1914.

Among the documents brought forward by the Indian side is a Note presented by the Government of China in 1947 recognising the validity of this agreement.

EVIDENCE OF MAPS

The Chinese officials sought to suggest that India had few or no maps to support the Indian alignment. The analysis of the evidence of maps and surveys furnished by the two sides, however, clearly shows that while the Chinese side had cited very few maps and even these had been erroneously interpreted, the vast bulk of official and unofficial maps from foreign, Indian, and, indeed, even from Chinese sources went to corroborate the Indian alignment. Indeed, not a single official Chinese map published prior to 1950 was cited by the Chinese side in support of the Chinese alignment.

Faced with this enormous array of Indian evidence, the Chinese side could neither refute it nor produce any comparable evidence of their own.

TRUE BOUNDARY

The Chinese set out to prove that the traditional boundary was the one shown by them but that this had never been formally delimited. They, therefore, pleaded for the setting up of a joint boundary commission. The Indian side defeated the first proposition in detail and proved that the second was superfluous as international law recognised well-defined natural and traditional borders as delimited.

The Indian report concluded with these words: "The positive Indian evidence as well as the analysis of the Chinese evidence establish indisputably that the true traditional boundary between India and China is that defined in the description provided by the Indian side at the commencement of these discussion.

The title of India is an ancient and immemorial one and no major dispute regarding it existed till just over 12 months ago.

"The majestic arc of Kuen Lun and the great Himalayan ranges forming the most impressive natural boundary in the world, has been recognised by tradition and custom for centuries, has determined the limits of administration on both sides and has received confirmation, for different sectors at different times during the last 300 years, in valid international agreements. The facts, therefore, demand respect for this boundary defined by nature, confirmed by history and sanctified by the laws of nations."

The Prime Minister emphatically declared in the Parliament that the Sino-Indian frontier question could be settled only when the Chinese vacated the Indian territory they had occupied and when they "broadly acknowledged" the Indian position on the frontier. Mr. Nehru assured that the Government of India is going ahead with its programme of strengthening defence, along the Sino-Indian border by developing road and other communications.

The Chinese reply to the Indian Note of June 19 on the question of the trijunction of the boundaries of India, Burma and China is believed to reiterate the earlier Chinese memoranda on the subject rejecting the Indian interpretation of the trijunction as defined in the Sino-Burmese treaty map and even challenging India's right to raise the issue arbitrarily.

Sind-Burmese Border Pact:—The specific geographical location of the south-eastern extremity is given in the treaty, whereas no such location is given for the western extremity.

When the Govt. of India informed the Chinese and Burmese Governments that it could not accept the delineation of the "Western extremity" on the Sino-Burmese border in the map appended to their border agreement the Burmese Prime Minister made a statement in the chamber of deputies that the "Western extremity of the Sino-Burmese boundary would remain indeterminate until an agreement was reached on the Sino-Indian border". This western extremity is the point where the three international boundaries meet, these being the boundry between Burma and China, the boundary between Burma and India and the boundary between China and India. Of these the boundary between China and Burma has been settled by the Sino-Burmese Border Agreement.

Sino-Pakistan Border Negotiation: Pakistan has been anxious to demarcate the frontier between Sinkiang and the Gilgit and Hunza regions of Pak-occupied Kashmir along the Karakorum ranges. The Pakistan Government has expressed that any agreement regarding the above border entered into between India and China would not be binding on Pakistan.

India sought elucidation of the Pakistan Foreign Minister's statement that China had agreed to negotiate a border agreement with Pakistan. Mr. Nehru also made a statement in parliament on Feb. 15, 1961 that India would not recognise any agreement between Pakistan and China on the border of Pak-occupied Kashmir. The Pakistan President reaffirmed Pakistan's right to negotiate demarcation of the border with Communist China in respect of territories under its occupation.

Pakistan had made certain proposals to Peking in connection with the demarcation of Pak-occupied Kashmir with China. But Pakistan's overtures to China for demarcation of the boundary has not evoked any great response from China. After the reply from Pakistan to India's note, that it was under no obligation to clarify its statement that it intended to hold border negotiations with China, there had been no development. In India's view Mr. Nehru explained in the Lok Sabha that there was no common border on which Pakistan and China could hold negotiations. The only commonness arose from the fact that Pakistan was in unlawful occupation of certain areas of Kashmir. Pakistan is awaiting the next move from China in the negotiations for demarcation of the border.

THE PUNJAB

Capital: Chandigarh.

Area: 47,084 square miles.

Total Population (1961 Census provisional): 20,298,151.

(Males 10,866,910. Females 9,431,241.

Literacy (1961): 23·7 per cent; Males 32·4 per cent; Females 13·7 per cent. Density 431 per sq. mile; Sex ratio 868 females for 1,000 males; Percentage increase 1951-61: 25·80.

Main Occupation: Agriculture (66.5 per cent).

Languages spoken: Punjabi, Western Hindi, Pahari.

The number of seats allotted to the Punjab:—in Lok Sabha 22: Rajya Sabha 11; in the State Vidhan Sabha 154; in the Punjab Legislative Council 51.

Administrative Divisions: 3; Districts: 19; Tahsils 73; Towns 194; Villages 21,516.

Divisions: Ambala, Jullundur, Patiala.

Names of districts (with headquarters in brackets): Hissar (Hissar), Rohtak (Rohtak), Gurgaon (Gurgaon), Karnal (Karnal), Ambala (Ambala), Hoshiarpur (Hoshiarpur), Amritsar (Amritsar), Jullundur (Jullundur), Ludhiana (Ludhiana), Ferozepore (Ferozepore), Gurdaspur (Gurdaspur), Kangra (Kangra), Simla (Simla), Patiala (Patiala), Bhatinda (Bhatinda), Sangrur (Sangrur), Kapurthala (Kapurthala), Mahendragarh (Narnaul), Lahaul and Spiti (Keylong).

POPULATION

The population District-wise is given under "Population" in *Late Particulars*.

There are 12 District Boards, 175 Municipal Committees, two Notified Area Committees and a Panchayat in every village with a population of over 500.

REGIONS

In the Zonal Division the Punjab falls within the northern Zone, comprising the States of Punjab, Rajasthan and Jammu and Kashmir and the Union territories of Delhi and Himachal Pradesh.

For the more convenient transaction of business with regard to some specified matters, the State is divided into two regions, the Punjabi-speaking and the Hindi-speaking regions.

The Hindi region consists of the districts of Kangra, Simla, Karnal, Rohtak, Gurgaon, Hissar, Mohindergarh, Ambala district, excluding the Rupar and Chandigarh Assembly constituencies, Jind and Narwana tehsils of Sangrur district.

The Punjabi region consists of the districts of Gurdaspur, Amritsar, Bhatinda, Jullundur, Hoshiarpur, Ferozepur, Ludhiana, Kapurthala, the Rupar and Chandigarh Assembly constituencies in Ambala district, Patiala district and Sangrur district, excluding the Jind and Narwana tehsils.

The Chandigarh capital project will not form part of either of the two regions. So long, however, as it does not become a full-fledged constituency on a population basis, its representative will sit in the Regional Committee for the Punjabi region.

For each region there is a regional committee of the State Assembly consisting of the members of the State Assembly belonging to that region including the Ministers from the region but not including the Chief Minister.

The Regional Committees have been empowered to make proposals with regard to questions of general policy not involving any financial commitments other than expenditure of a routine and incidental character.

The advice tendered by the regional committees will normally be accepted by the Government and the State Legislature. In case of difference of opinion, reference will be made to the Governor whose decision will be final and binding.

The regional committees will deal with the following matters: (*i*) Development and economic planning, within the framework of the general development plans and policies formulated by the State Legislature; (*ii*) Local Self-Government, that is to say, the constitutional powers of municipal corporations, improvement trusts, district boards and other local authorities for the purpose of local self-Government or village administration including "Panchayats"; (*iii*) Public health and sanitation, local hospitals and dispensaries; (*iv*) Primary and secondary education; (*v*) Agriculture; (*vi*) Cottage and small-scale industries; (*vii*) Preservation, protection and improvement of stock and prevention of animal diseases, veterinary training and practice; (*viii*) Pounds and prevention of cattle trespass; (*ix*) Protection of wild animals and birds; (*x*) Fisheries; (*xi*) Inns and Inn-keepers; (*xii*) Markets

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and fairs; (*xiii*) Co-operative Societies and (*xiv*) Charities and charitable institutions, charitable and religious endowments and religious institutions.

Language Policy: The Sachar formula will continue to operate in the area comprised in the former Punjab State; and in the area comprised in the former PEPSU State, the existing arrangements will continue until they are replaced or altered by agreement later.

The official language of each region will, at the district level and below, be the respective regional language.

The State is bi-lingual recognising both Punjabi (in Gurmukhi script) and Hindi (in Devnagri script) as the official languages of the State.

Hindi or Punjabi (as the case may be) will be the medium of instruction in all schools in its region upto the matriculation standard and the other language shall be taught as a compulsory language from the last class of the primary department upto the matriculation stage and in the case of girls in the girls' schools in the middle classes only.

On the administrative side the State Government envisages a gradual switch-over from English and Urdu as official and court languages to Hindi and Punjabi.

The Punjab High Court has decided to introduce Hindi in the Hindi region and Punjabi in the Punjabi region as court languages up to the district level from January 2, 1962.

INDUSTRIES

The total number of registered factories in 1958-59 was 3,500 (approximately).

No. of workers engaged in these factories: over a lakh.

Some of the main industries in Punjab are textile, hosiery, sports, cycle and cycle parts, sewing machines, cement, sugar, starch factories, non-ferrous metals, resin and turpentine, scientific instruments, paper and wool spinning and weaving units.

Production of important industries in the State during 1958-59: Cotton textile 6,07,20,300 yards—1,61,54,700 lbs.; Powerloom weaving Rs. 5·74 crores; Woollen goods Rs. 4·27 crores; Hosiery Rs. 3·68 crores; Machine Embroidery Rs. 62 lakhs; Machine tools and Agriculture implements Rs. 3·78 crores; Bicycles 2,98,420 (Nos.) and Bicycle parts Rs. 3·24 crores; Sewing Machine 52,000 (Nos.); Sewing Machine parts Rs. 1·12 crores; Wood & Machine Screws Rs. 60·56 lakhs; Bolts & Nuts Rs. 60·88 lakhs; Steel re-rolling 51·454 tons; Non-Ferrous Metal Rs. 5·04 crores; Conduit pipes Rs. 24·85 lakhs; Sports goods Rs. 78·85 lakhs; Sugar 80,000 tons; Glass Rs. 15·75 lakhs; Paper 15,500 tons; Cement 4,80,162 tons; Scientific instruments Rs. 35 lakhs and Resin & turpentine Rs. 1,92,10,500.

The third machine tool factory in the public sector was to be erected near Pinjore, about three miles from Kalka (July 1961).

Financed by the Centre, the factory, which will cost between Rs. 8 and 10 crores, will be erected by technicians of H.M.T.

AGRICULTURE

In the matter of food production, Punjab is the second largest wheat and gram producing area in the Union, third in barley and maize, fourth in bajra and sugarcane, while it produces considerable quantities of jawar, cotton, rice, rape, mustard and small quantities of tea, tobacco, groundnut and linseed. The production of cotton in the Punjab amounts to one-fifth of the total production of the country.

During the year 1958-59 the Punjab's production of foodgrains reached 6,076,000 tons and oilseeds 2,22,000 tons as against the targets of production of foodgrains of 5,941,000 tons and oilseeds 1,85,000 to be achieved by the end of the 2nd Five Year Plan—1960-61. It was expected that the targets of cotton 1,050,000 bales and sugarcane 780,000 tons would also be achieved by 1960-61.

Area and Production of Principal Crops (1958-59):

Crops	Acreage	Output (tons)
Paddy** ..	901,000	542,000
Maize	1,240,000	501,000
Jowar	738,000	51,000
Bajra	2,395,000	268,000
Wheat	5,350,000	2,301,000
Gram	6,460,000	2,403,000
Barley	523,000	177,000
Sugarcane‡ ..	503,000	718,000
Cotton	1,500,000	722,000 bales
Groundnut§ ..	148,000	43,000
Linseed§ ..	26,000*	80% of normal
Karif pulses§ ..	141,000†	99% of normal
Rabi oilseeds§ ..	682,000*	92% of normal

* Information relates to 2nd forecast.

† Information relates to 1st forecast.

‡ Production of sugarcane is in terms of gur.

** Production of paddy is in terms of husked rice. § Figures for 1956-57.

ELECTRIC POWER

1958-59: No. of 11/04 KV sub-stations: 3,320; installed generating capacity: 144 MW; firm: 100 MW; energy generated: 630·54 mln. kWh.

The main sources of electric supply in the State are (1) Uhl River Hydro-Electric Scheme at Joginder Nagar where four sets of 12,000 kW. each, including one stand-by, are installed, (2) The Nangal Power House I at Ganguwal with 3 units of 24,000 kW. each, all the three are working, (3) The Nangal Power House II at Kotla with 3 units of 24,000 kW. each, all the three are working, (4) Bhakra Dam—Left Bank Power House with six generating units of 90,000 kW. each and (5) Bhakra Dam—Right Bank Power House with five generating units of 90,000 kW. each.

Panchayats

Number of panchayats: 11,407.

Activities of the Panchayats in Punjab from 1951-52 to 1958-59: Number of school buildings constructed 6,916; Number of libraries started 6,188; Number of reading rooms started 2,731; Panchayat Ghar constructed 3,240; Number of panchayats with community listening sets 4,500; Length of road constructed 9,103 miles; Roads and public paths repaired 3,373; Number of culverts constructed 5,824; Number of buildings constructed for dispensaries 216; Number of wells constructed, 6,886; Number of buildings constructed for veterinary dispensaries and First aid centres 201; No. of Maternity centres opened 137; Number of cases decided upto 31-3-1959 by the Panchayats 6,14,671 (civil & revenue 3,10,566, criminal 3,14,105).

During the year 1957-58, Rs. 5,950 were awarded as cash prizes to 22 Panchayats.

The President has given assent to the Punjab Panchayat Samitis and Zila Parishads Bill, 1960. The legislation seeks to abolish the district boards and replace them by Panchayat Samitis at tehsil or block level and Zila Parishads at district level.

The Punjab Government had decided formally to introduce "Panchayat Raj" in the State with effect from October 12, 1961.

FIVE-YEAR PLAN

During the Second Five-Year Plan an outlay of Rs. 162·68 crores as finally approved by the Planning Commission, had been provided for the integrated State. During the first four years a sum of Rs. 116·07 crores was spent which amounts to 71·4 per cent of the total outlay.

During 1960-61 an expenditure of Rs. 36·34 crores was proposed to be incurred bringing the total effective ceiling of the Plan to Rs. 152·41 crores as per details given below:

	Main Heads	Crores
I.	Agriculture and Rural Development except Community Projects ..	18·07
II.	Community Projects and N.E.S. Blocks ..	8·58
III.	Irrigation and Power ..	76·13
IV.	Industries	4·99
V.	Roads..	9·07
VI.	Road Transport	0·27
VII.	Education	11·44
VIII.	Health	6·11
IX.	Other Social Services ..	7·97
X.	Chandigarh Capital	7·56
XI.	Miscellaneous including Publicity and Development of Mandis in Bhakra-Nangal areas	2·22
	Total	152·41

BUDGET (1961-62)

(*See 'Late Particulars'*).

PUNJAB UNIVERSITY

Chandigarh Capital.

VICE-CHANCELLOR

Dr. A. C. Joshi, D.Sc., F.N.I.

REGISTRAR

S. Kirpal Singh Narang, M.A. (Hons.).

This is an Affiliating, Teaching and Examining University.

Subjects where provision exists for post-graduate and research: English, Economics, Zoology, Physics, Chemistry, Anthropology, Chemical Engineering, Geology, History, Botany, Mathematics, Sociology, Hindi, Sanskrit, Punjabi, Psychology, Philosophy and Political Science.

In the Arts examinations the candidates have the option to answer question papers in English, Hindi, Punjabi or Urdu.

Number of colleges affiliated: 143.

Total number of students as on 31st March 1960 (Affiliated Colleges and University Teaching Departments): 66,251.

LIST OF COLLEGES

Punjab University College of Commerce, Jullundur City; Punjab University Law College, Chandigarh; Punjab University Law College, Jullundur City; Ahir College, Rewari; A. I. Jat H. M. College, Rohtak; Arya College, Ludhiana; Arya College, Panipat; Arya Girls' College, Ambala Cantt.; A. S. College, Kalalmajra, Khanna; Baring Union Christian College, Batala; Brijindra College, Faridkot; B. L. M. Girls' College, Nawanshahar, Doaba; Chhotu Ram College of Education, Rohtak; Chhotu Ram Arya College, Sonepat; Christian Medical College, Ludhiana; Dr. A. N. Training College. Nawanshahar, Doaba; D. A. V. College, Abohar; D. A. V. College, Ambala City; D. A. V. College, Amritsar; D. A. V. College, Chandigarh; D. A. V. College, Hoshiarpur; D. A. V. College, Jullundur; D. A. V. College for Girls, Yamuna Nagar; D. A. V. College for Women, Karnal: Dayanand College, Hissar; Dyal Singh College, Karnal; Dyal Singh (Evening Camp) College, New Delhi; Dairy Science College, Karnal; Dental College, Amritsar; Dental College, Patiala; Dev Samaj College for Girls, Ambala City; Dev Samaj College for Women, Ferozepore City; Dev Samaj Training College for Women, Ferozepore City; D. M. College, Moga; D. M. Training College, Moga; Doaba College, Jullundur City; Dronacharya S. D. College, Gurgaon; Fateh Chand College for Women, Hissar; G. H. G. Khalsa College, Gurusar Sadhar; H. G. H. Khalsa Training College, Gurusar, Sadhar; G. M. N. College, Ambala Cantt.; G. G. N. Khalsa College, Ludhiana;

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Govt. Bikram College of Commerce, Patiala; Govt. College, Chandigarh; Govt. College for Women, Chandigarh; Govt. Basic Training College, Chandigarh; Govt. Degree College, Chamba; Govt. College, Dharamsala; Govt. College for Women, Amritsar; Govt. College for Women, Gurgaon; Govt. College for Women, Rohtak; Govt. Basic Training College, Dharamsala; Govt. College, Gurdaspur; Govt. College for Women, Ludhiana; Govt. Training College for Teachers, Jullundur City; Govt. Training College, Faridkot; Govt. College, Hoshiarpur; Govt. College, Hissar; Govt. College, Ludhiana; Govt. College, Malerkotla; Govt. College, Muktsar; Govt. Ripudaman College, Nabha; Govt. College, Narnaul; Govt. College, Rampur Bushahr; Govt. College, Rohtak; Govt. College, Rupar; Govt. College of Physical Education, Patiala; Govt. College, Solans; Govt. College, Tanda Urmar; Govt. Agricultural College, Ludhiana; Govt. College, Bilaspur; Govt. College for Women, Patiala; Govt. Training College for Women, Simla; Guru Nanak College, Guru Tej Bahadur Garh; Guru Nanak College, Mandi Dabwali; Guru Nanak Engineering College, Ludhiana; Govt. Basic Training College, Solan; Govt. Sanskrit Vidyalaya, Nabha; Govt. Sanskrit Vidyalaya, Patiala; Hans Raj Mahila Mahavidyalaya, Jullundur; Hindu National College, Hariana; Hindu College, Amritsar; Hindu College, Sonepat; I. B. Bharati College for Girls, Panipat; J. S. D. Basic Training College, Baijnath; Kanya Mahavidyalaya, Jullundur; Khalsa College, Amritsar; Khalsa College for Women, Ludhiana; Khalsa College for Women, Sidhwan Khurd; Khalsa Basic Training College for Women, Sidhwan Khurd; Khalsa College, Nangal Ambia; Khalsa College, Patiala; Khalsa Training College, Amritsar; K. M. Teachers' Training College, Bhiwani; Khalsa Training College, Muktsar; Lajpat Rai Memorial College, Jagraon; Lyallpur Khalsa College, Jullundur City; Lyallpur Khalsa College for Women, Jullundur City; Mahendra College, Patiala; Malwa Training College, Ludhiana; Mata Gurja College, Fatehgarh Sahib; Medical College, Amritsar; Medical College, Patiala; M. R. College, Fazilka; Montgomery G. N. Basic Training College, Jullundur; Mukand Lal National College, Yamuna Nagar; National College, Sathiala; National College, Sirsa; Nehru College, Jhajjar; Public College, Jind; Punjab Engineering College, Chandigarh Punjab College of Veterinary Science and Animal Husbandry, Hissar; Radha Krishna Arya College, Nawanshahar, Doaba; Ranbir College, Sangrur; Ranbir College for Women, Sangrur; Ramgarhia College, Phagwara; Ramgarhia Training College, Phagwara; Rajindra College, Bhatinda; R. K. S. D. College, Kaithal; Randhir College, Kapurthala; R. S. D. College, Ferozepur City; Rana Padam Chand Sanantan Dharam Bhargava College, Simla; Saraswati Training College for Women, Amritsar; S. A. Jain College, Ambala City; S. A. Jain College, Malerkatta; S. D. College, Ambala Cantt.; S. D. College, Barnala; S. D. College, Hotiarpur; S. D. College, Palwal; Shri Guru Ram Rai Degree College, Nahan; Shri Saraswati Sanskrit College, Khanna; Sikh National College, Banga; Sikh National College, Qadian; S. G. G. S. Khalsa College, Mahipur; S. M. D. R. S. D. College Pathankot; State College of Education, Patiala; Sohan Lal Training College, Ambala City; Teachers' Training College, Rewari; Technological Institute of Textiles, Bhiwani; Thapar Institute of Engineering and Technology, Patiala; Vaish College, Bhawani; Vaish College, Rohtak; Vallabh Mahavidyalaya, Mandi; Visheshwara Nand Vedic Research Institute, Hoshiarpur; Yadvindra College, Patiala.

PUNJAB FINANCIAL CORPORATION

(See State Financial Corporations under 'Late Particulars').

ADMINISTRATIVE PERSONNEL

(See under "States Administrative Personnel")

PUNJAB LEGISLATIVE COUNCIL

(See under 'General Elections')

PUNJAB LEGISLATIVE ASSEMBLY

(See under 'General Elections')

SHIROMANI GURDWARA PARBANDHAK COMMITTEE, AMRITSAR

(Teja Singh Samundri Hall, Amritsar.)

The Shiromani Gurdwara Parbandhak Committee is constituted under the provisions of the Sikh Gurdwaras Act, 1925 (Punjab Act VIII of 1925). It consists of:

(*i*) 140 elected members;

(*ii*) Head Priests of Golden Temple, Amritsar and the following four Takhats (*a*) Akal Takhat Sahib, Amritsar; (*b*) Takhat Keshgarh Sahib, Anandpur; (*c*) Takhat Patna Sahib, Patna; and (*d*) Takhat Hazur Sahib, Nanded (Bombay) and

(*iii*) Fifteen members resident in India of whom at least ten are residents of the States other than the Punjab State co-opted by the members of the S.G.P.C., as described in clauses (*i*) and (*ii*).

Every Sikh man or woman, more than 21 years of age, who resides in the Punjab is entitled to have his name registered on the electoral roll of a constituency formed for the election of a member or members of the board provided he does not trim or shave his beard or Keshas except in case of Sehajdhari Sikh and does not smoke or take alcoholic drinks. Every voter is eligible for election provided he is not of unsound mind, is not an undischarged insolvent, is not an apostate from the Sikh religion, does not take alcoholic drinks, is not a Minister of a Notified Sikh Gurdwara, other than mentioned above in clause (*ii*), is not a paid servant of any Notified Sikh Gurdwara, being a Keshadhari Sikh is not an Amritdhari and can read and write Gurmukhi.

Elections to the Shiromani Gurdwara Parbandhak Committee are held every five years. Dates for the elections are fixed by the State Government and the preparation of electoral rolls and other arrangements are also made by the State Government.

The Shiromani Gurdwara Parbandhak Committee directly manages some of the important and historic Sikh Gurdwaras situated within the Punjab. All the above mentioned Gurdwaras are administered by a Committee of Management consisting of five members of whom four are elected by the voters of the constituency concerned and one member is nominated by the Shiromani Gurdwara Parbandhak Committee. The S.G.P.C. supervises the affairs of these Gurdwaras.

A Judicial Commission is also constituted under the provisions of the Sikh Gurdwaras Act to settle disputes regarding the management of the Gurdwaras. This commission has the same powers as are vested in a Court by the Code of Civil Procedure, and the Commission has unlimited jurisdiction as regards the value of the suits throughout the Punjab.

Under the provisions of the Sikh Gurdwaras Act, the S.G.P.C. and the Gurdwaras under its control and supervision can spend their funds for religious, charitable, educational or industrial purposes and also for such non-political purposes as are connected with the general uplift and welfare of the Sikhs. Its accounts are annually audited by the Auditors appointed by the State Government.

In the last Gurdwara elections held on Jan. 17, 1960 out of 140 members elected 136 members were elected on the Shiromani Akali Dal ticket and four on the Sadh Sangant Board, that is, Congress Sikhs ticket.

The total strength of the S.G.P.C. is 160.

At the first General Meeting of the S.G.P.C. held on 7th March, 1960, Master Tara Singh, the Akali Leader, was elected President, S.G.P.C. unanimously. The other office-bearers and the members of the Executive Committee as also the Dharam Parchar Committee were also elected unanimously. All of them belong to the Shiromani Akali Dal.

The S.G.P.C. manages about 700 Gurdwaras in the Punjab.

The S.G.P.C. also runs an Arts College, Shri Guru Nanak Khalsa College, Matunga, Bombay, an Industrial College and School and several High Schools, hospitals, and libraries.

Budget 1960-61: Revenue Estimates Rs. 45 lakhs. Expenditure Rs. 44·95 lakhs.

The President of Shiromani Gurdwara Parbandhak Committee is ex-officio member and Chairman of the Dharam Parchar Committee.

ASSOCIATIONS ETC.

ENGINEERING ASSOCIATION OF INDIA

(Punjab Regional Office)
Tandra Road, Jullundur City.

Regional Secretary: T. N. Srivatsava.

EAST PUNJAB CYCLE PARTS MANUFACTURERS' ASSOCIATION

Gill Road, Ludhiana.

President: B. S. Chhatwal; *Secretary:* Pirtpal Singh.

ENGINEERING ASSOCIATION OF NORTHERN INDIA

G.T. Road, Batala, Dist. Gurdaspur.

President: S. Rawail Singh; *Vice-Presidents:* K. L. Malhotra; P. L. Modgil; *Secretary:* G. C. Taxali; *Financial Secretary:* W. C. Kawatra; *Joint Secretary:* Baljit Kumar; *Asstt. Secretary:* J. S. Nayar; *Internal Auditor:* S. R. Puri.

THE FACTORIES' ASSOCIATION

Railway Road, Batala.

President: Atma Singh; *General Secretary:* Kharaiti Ram Sarin; *Secretary:* Pran Nath Sekhri.

FAMILY PLANNING ASSOCIATION

South Gate, Simla 2.

FARIDABAD INDUSTRIES ASSOCIATION

Township, Faridabad.

President: K. K. Sharma; *Vice-President:* N. Balasundaram; *Hon. General Secretary:* Narinder Nath; *Secretary:* K. L. Chopra.

FEDERATION OF SPORTS INDUSTRIES

Jullundur.

President: K. S. Bhaizada; *Secretary:* A. N. Sharma; *Treasurer:* Babu Ram Gupta; *Auditor:* S. P. Datta.

GOVERNMENT HOSIERY INSTITUTE

Fort, Ludhiana.

Principal: N. N. Basu, Chartered Textile Technologist, A.T.I. (Manchester), F.T.C. (City & Guilds, London), A.N.C.H.T. (Board of Education, England).

GOVERNMENT INSTITUTE OF DYEING AND CALICO PRINTING

Fort, Ludhiana.

Principal: Kirpal Singh, M.Sc., Text. Chem. (U.S.A.).

GOVERNMENT SURGICAL INSTRUMENT CENTRE AND DEVELOPMENT LABORATORY

Sonepat (Dt. Rohtak).

GOVERNMENT TANNING INSTITUTE

Jullundur.

Imparts training in Leather Chemistry and Technology.

Principal: S. P. Khanna.

HOME HOSIERY MANUFACTURERS' UNION

Chawal Bazar, Ludhiana.

President: K. L. Sabharwal; *Gen. Secy.:* K. C. Spolia.

HOSIERY MACHINE MANUFACTURERS ASSOCIATION

461-62, Industrial Area B, Miller Ganj, Ludhiana.

President: S. Chanan Singh; *Vice-President:* S. Gurdial Singh; *Secretary:* D. D. Kapoor.

HOSIERY MANUFACTURERS' ASSOCIATION

Bazaar Kharadian, Ludhiana.

President: Naurata Ram Marjara; *General Secretary:* Bhagat Ram Ahluwalia.

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INSTITUTION OF ENGINEERS (INDIA)
Thapar Institute of Engg. & Technology Bldg. Patiala.

IRRIGATION & POWER RESEARCH INSTITUTE
Amritsar.
Mathematical Officer : S. R. Sehgal; *Land Reclamation Officer :* U. S. Dalal; *Research Officer :* Gajinder Singh.

KAPURTHALA INDUSTRIES ASSOCIATION
Factory Area, Kapurthala.
President : S. S. Khosla.

KENDRI PUNJABI LEKHAK SABHA
Pakka Bagh, Jullundur.
President : Giani Gurmukh Singh Muzafir; *Vice-Presidents :* Hira Singh, Dr. Roshan Lal Ahuja; *General Secretary :* Prof. Sant Singh Sekhon.

LUDHIANA CYCLE PARTS SUPPLIERS ASSOCIATION
Miller Ganj, Ludhiana.
President: Hans Raj Bhandari; *Vice-President:* Khushi Ram Sharma; *Secretary :* Inderjit Sethi.

LUDHIANA JOURNALISTS' ASSOCIATION
Civil Lines, Ludhiana.
President : R. Dhiman; *General Secretary :* H. S. Jolly.

THE LUDHIANA MACHINE TOOLS MAKERS GUILD
C.T. Road, Miller Ganj, Ludhiana.
President : Atma Singh; *Vice-President :* Ram Singh; *Hon. Secretary :* R. C. Kapoor; *Jt. Secy. :* Gurdial Singh.

LUDHIANA PRINTERS' ASSOCIATION
C/o Messrs. Mohindra Brothers, Printers, Press Lane, Nigger Mandi, Ludhiana.
President : S. Nand Singh; *Secretary :* D. Paul Mohindra.

THE LUDHIANA TEXTILE BOARD
Chauri Sarak, Ludhiana.
President : Dina Nath Agarwal; *Vice-President :* S. Sajjan Singh; *General Secretary :* Ram Swaroop Sahi.

NATIONAL INSTITUTE OF SPORTS
Patiala
Director : Lt. Gen. Sant Singh.

NATIONAL INSTITUTE OF ENGINEERING
Hoshiarpur.
Chairman : J. N. Uppal; *Vice-Chairman :* M. L. Sapra; *Principal :* D. D. Ghay.

NORTHERN INDIA CHAMBER OF COMMERCE
Ambala Cantt.
The activities of the Chamber are spread over all spheres of commercial life of the Punjab, Himachal Pradesh and Delhi States.
President : Bishamber Dass Kapur; *Vice-Presidents :* Satya Paul, Raghuraj; *Hon. Secretary :* H. S. Balhaya.

PANCHAL LALIT KALA AKADAMI
16-C, Sector 9-B, Chandigarh.
Hon. Secy. : Bal Raj Tuli.

PUNJAB & DELHI CHAMBER OF COMMERCE
Phelps Bldg., 9-A, Connaught Place, Post Box No. 130, New Delhi 1.
Office Bearers : I. P. Anand (*Chairman*); H. C. Mahindra (*Dy. Chairman*); Sangat Singh (*Secretary*).

THE PUNJAB FEDERATION OF INDUSTRY & COMMERCE
Inside Hall Gate, Amritsar.
President : Chunil Lal Nayar; *Vice-President :* C. Constantinides; *Secretary :* Chaman Lal, B.A., LL.B.

PUNJAB SPINNING WEAVING CENTRES
Jullundur City.
(Doing Cotton & Wool hand spinning and hand weaving work in the Punjab State).
Chairman : Dr. Gopi Chand Bhargava (Minister for Cottage Industries, Punjab).

THE PUNJAB PAPER MERCHANTS' ASSOCIATION
Guru Bazar, Amritsar.
President : Lala Hans Raj; *Vice-President :* K. N. Saggi; *Hon. Secretary :* Nawal Kishore Goenka.

PUNJAB RADIO DEALERS' ASSOCIATION
Railway Road, Jullundur City.
President : Sohan Singh; *Gen. Secretary :* Kharaiti Ram.

PUNJAB STATE COUNCIL FOR CHILD WELFARE
1/10 JC, K-Street, Sector 7-A, Chandigarh.
President : N. V. Gadgil (Governor of Punjab); *Chairman :* Smt. Anusuya Bai Gadgil; *Vice-President :* Partap Singh Kairon (Chief Minister of Punjab); *Hon. Gen. Secy. :* Dr. Mrs. Pratibha Deo; *Treasurer :* Justice Shamsher Bahadur; *Organising Secy. :* R. S. Pt. Ram Rakha Mal.

PUNJABI SAHITYA AKADEMI
555/L, Model Town, Ludhiana.
President : S. B. Bhai Sahib Bhai Jodh Singh, M.A.; *General Secretary :* Dr. Sher Singh, M.A., Ph.D. (Lond.); *Secretary* (Finance): Prof. Ujagar Singh, M.A. (Punjabi & Persian); *Secretary* (Organisation): Prof. Kirpal Singh Kasel, M.A. (Punjabi).

THE TECHNOLOGICAL INSTITUTE OF TEXTILES
P.O. Birla Colony, Bhiwani (Hissar).
Principal : D. L. Sen; *General Manager and Member of Governing Body :* P. D. Makharia; *Manager :* C. L. Rajagarhia.

TEXTILE MANUFACTURERS' ASSOCIATION
4, Queen's Road, Amritsar.
President : Shanti Lal Khanna; *Vice-President:* Balkishen Munjal; *Genl. Secretary :* Diwan C. Mehra.

UNITED LUDHIANA CYCLE MFRS. ASSOCIATION
Miller Ganj, Gill Road, Ludhiana.
President : S. Chanan Singh; *Secretary :* Ram Swaroop Takyar.

VISHVESHVARANAND VEDIC RESEARCH INSTITUTE
Post Office : Sadhu Ashram, Hoshiarpur.
A non-denominational centre for post-graduate teaching, research and study in Indology including language, literature, philosophy, religion, history, arts and sciences etc.
Literary activities spread over nine departments of Vedic Lexicography; Ur-Aryan Philology, General Indology, Sanskrit Text Editing, General Cultural Publication, History, Philosophy, Religion and Translations.
250 Volumes so far published besides a cultural Hindi monthly *Vishva Jyoti* (Universal Light) and a literary Hindi monthly *Vishva Sahitya.*
Engaged, besides several minor schemes, on 36-Volume Vedic Lexicographical Project, consisting of (*a*) 16-*Volume Vedic Word Concordance*, (*b*) 6-*Volume Grammatical Indices*, and (*c*) 14-*Volume Vedic Dictionary*. Twelve Volumes of *Concordance* published so far, remaining four volumes of *Concordance* and the six volumes of *Indices* to be issued till April, 1962. *Dictionary* scheduled for 1961-70. On completion, *Concordance* alone will have cost about Rs. 30,00,000.
Library of about 40,000 Volumes including 9,000 ancient manuscripts on hand-made paper, birch-bark and palm leaf. Information papers and list of available publications can be had free of cost.
President : Dr. Bakhshi Sir Tek Chand, M.A., LL.B., LL.D., Retd. Judge, High Court, Punjab; *Vice-President :* Dr. M. C. Mahajan, M.A., LL.B., LL.D., Retd. Chief Justice of India; *Hon. Secy. :* Prof. Diwan Anand Kumar, M.A. (Cantab.), Bar-at-Law, Ex-Vice-Chancellor, Punjab University; *Hony. Jt. Secy. & Director :* Prof. Vishva Bandhu, M.A., Shastri, M.O.L. (Pb.), O.d'A. (Fr.), Kt.C.T. (It.).

VOLLEY BALL FEDERATION OF INDIA
12-A, Model Town, Patiala.
President : F. C. Arora, Pathankot; *Hony. Secretary :* Amar Singh Harika, Patiala.

WOOL MERCHANTS' ASSOCIATION
Wool Lane, Fazilka.
President : Nand Lal Jhanb; *Secretary :* Mohan Lal Rangbulla.

MAHARASHTRA-MYSORE BORDER DISPUTE

A memorandum on the question was presented on behalf of the then Bombay Government to the Western Zonal Council on July 25, 1957. This was later followed up with a resolution in the then Bombay Assembly which urged the Central Government to take steps to solve the dispute.

The Marathi-speaking areas affected by the dispute are principally in the Districts of Belgaum and North Kanara and secondarily in the Districts of Bidar and Gulbarga.

The Kannada-speaking areas affected by the dispute are in the Districts of Sholapur, South Satara and Kolhapur.

The memorandum advocates the acceptance of the village as the unit for the purpose of demarcation of boundaries, with territorial contiguity and a simple linguistic majority as the other two factors.

On the basis of these principles, 814 Marathi-speaking villages, with a population of 451,844, will be transferred from Mysore to Bombay, and 260 Kannada-speaking villages, with a population of 205,545, from Bombay to Mysore.

The dispute has been going on for some time without arriving at any settlement. Despite several meetings of the four-men Maharashtra-Mysore Boundary Mediation Committee during June 1961 to resolve the dispute between these two disputes, the problem still remains unresolved.

The main reason for this stalemate is the failure of both the States in finding a solution to this border dispute for such a long time. On Sept. 9, 1961, the Marathi-speaking people of the border areas met at Belgaum and declared emphatically that this boundary dispute must be solved by November 1. It was also stated that even if there was delay on the part of the Mysore Government the Maharashtrian representatives on the four-man border committee should submit their report without waiting for the report of the Mysore representatives. Inclusion of names of people in the border areas in the electoral rolls for the General Elections was also insisted upon and the people urged that the Mysore Chief Minister, Mr. B. D. Jatti's declaration that the teaching of Kannada would not be compulsory in Marathi Schools was properly implemented. All along all these years, ever since the States in India were reorganised on linguistic basis, the Mysore Government has never been agreeable to accept a solution of this border problem, based on the Pataskar formula of taking village as a linguistic unit. Some years ago the Madras-Andhra dispute was resolved by the same formula with a give and take spirit and now no bickerings are heard from either of those States. The demand of the Maharashtra State to include Belgaum, Bidar and Karwar in it together with the retention of Sholapur City, Akkalkot City and South Sholapur Taluka which the Kannadigas want to be included in Mysore State are proved in numerous documents to be "culturally, historically and geographically part and parcel of Maharashtra since long", according to the Maharashtra version.

The commission has completed examination of the claims and counter claims of the contested regions with the help of a large map of the entire demarcation line between the two States, showing in detail the distribution of population in the disputed areas right down to the village level. The committee has gone through all the stages of procedure and what now only remains is for the Committee to record its view. Mr. Pataskar was desirous to complete the work within a month's time, that is by Sept. end. The Mysore representatives are expected to submit their report to the Centre by the end of 1961.

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GENERAL ELECTIONS (1957)

TABLES

Below we give statistical tables—official—showing particulars about the 1957 general election returns.

LOK SABHA

General Elections

Below we give particulars about the votes polled in the 1957 elections to the Lok Sabha.

States	Seats	Electorate	Uncontested gains	Valid votes polled	Percentage of valid votes
Andhra Pradesh*	43	17,668,716	4	9,531,373	42·99
Assam	12	4,495,359	2	2,292,612	46·14
Bihar*	53	19,514,567	2	10,007,876	42·01
Bombay*†	66	24,458,672	—	16,760,285	54·99
Kerala	18	7,514,626	—	6,050,246	66·04
Madhya Pradesh	36	14,010,137	1	7,614,222	36·77
Madras*	41	17,514,993	1	10,950,841	47·75
Mysore	26	10,006,926	2	5,798,440	52·58
Orissa	20	7,983,915	—	4,440,490	34·88
Punjab*	22	9,208,926	—	7,183,830	53·76
Rajasthan*	22	8,745,726	—	4,649,083	39·00
Uttar Pradesh	86	34,901,603	—	22,896,103	46·02
West Bengal	36	15,216,532	—	10,440,100	47·67
Delhi*	5	976,352	—	811,344	57·29
Himachal Pradesh	4	671,906	—	362,641	36·52
Manipur*	2	330,211	—	174,091	52·72
Tripura	2	432,902	—	550,338	63·56
Total	494	193,652,069	12	120,513,915	46·60

* Votes polled by postal ballot have not been included in the table. Figures excluded are: Andhra Pradesh 2,536; Bihar 895; Bombay 15,158; Madras 15,713; Punjab 15,318; Rajasthan 1,243; West Bengal 4,315; Delhi 5,556; Manipur 130; Tripura 734. † Bilingual.

Party Position

Below we show the party position in the Lok Sabha arising from the 1957 general elections.

States	Congress		P.S.P.		Communist		Jan Sangh		Other Parties and Independents		Total	
	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned
Andhra Pradesh	43	37	6	—	11	2	1	—	55	4	116	43
Assam	12	9	7	2	3	—	—	—	9	1	31	12
Bihar	51	41	41	2	13	—	2	—	88	10	195	53
Bombay*	66	38	17	5	6	4	8	2	69	17	166	66
Kerala	17	6	9	1	15	9	—	—	19	2	60	18
Madhya Pradesh	36	35	22	—	1	—	21	—	45	1	125	36
Madras	41	31	7	—	13	2	—	—	93	8	154	41
Mysore	26	23	12	1	1	—	5	—	20	2	64	26
Orissa	20	7	6	2	5	1	—	—	26	10	57	20
Punjab	22	21	3	—	11	1	16	—	33	—	85	22
Rajasthan	22	19	2	—	3	—	8	—	44	3	79	22
Uttar Pradesh	86	70	52	4	7	1	61	2	88	9	295	86
West Bengal	35	23	6	2	14	6	5	—	41	5	101	36
Delhi	5	5	1	—	1	—	5	—	18	—	30	5
Himachal Pradesh	4	4	1	—	2	—	1	—	10	—	18	4
Manipur	2	1	2	—	1	—	—	—	6	1	11	2
Tripura	2	1	—	—	2	1	—	—	3	—	7	2
Total	490	371	194	19	109	27	133	4	667	73	1,594	494

* Bilingual.

CALENDAR

The second General Elections started on 24th Feb. 1957 and ended on July 15. The first States to go to the polls were Orissa and the Punjab and the last was the Union Territory of Himachal Pradesh where the elections began on 24th May and ended on 7th June. In this last mentioned State the elections began long after they ended elsewhere (March 14) because of heavy snow during the earlier part of the year. Almost all election returns were reported by the 31st of March.

Below we give the Calendar of the elections:

Andhra: February 25, March 1, 4, 7 and 11. (In Andhra Pradesh, the Assembly elections were confined to the Telangana area and the Prodattur and Bhadrachalam constituencies of the old Andhra State).

Assam: February 25, March 2, 6, 9, 10, 11 and 15.

Manipur: February 25, March 2 and 11.

Bihar: February 25–26, 28, March 1 to 12.

Bombay: February 25, March 2, 6 and 11.

Kerala: February 28, March 2, 5, 7, 9 and 11.

Madras: March 1, 4, 6, 8 and 11.

Madhya Pradesh: February 25, 28, March 1–10.

Mysore: February 25, 26, 28, March 1–12.

Orissa: February 24, 25, 28, March 1–9, 11 and 12.

Punjab: February 24, 26–28, March 1–14, (Polling in the snowbound areas of Kangra was held on June 2, 4, 6, 8, 10, 11, 14, 16, 20 and 25 and July 2, 15).

Himachal Pradesh: Owing to heavy snow, polling was delayed. It began on May 24 and ended on June 7. May 24–31 and June 1 to 7.

Rajasthan: February 25, 27, 28, March 1–9, 11 and 12.

Uttar Pradesh: February 25, 28, March 3, 6, 9 and 12.

West Bengal: March 1–14.

Delhi: March 3.

Tripura: March 1, 5, 9 and 12.

The polling for the Presidentship took place on the 6th of May, and the result was declared on the 10th. Five candidates filed their nomination papers. The nomination papers of two were rejected. The three candidates who contested the election were Dr. Rajendra Prasad (Rashtrapati Bhawan, New Delhi), Mr. Nagendra Narayan Das (Gauhati, Assam), and Chowdhury Hari Ram (Rohtak, Punjab).

The result of the poll was as follows:

Dr. Prasad—4,59,698; Mr. Das—2,000; Chowdhury Hari Ram—1,498.

For the Vice-Presidentship the poll was to take place on 11th May. But as Dr. S. Radhakrishnan was the only candidate he was declared elected on 23rd April.

A point of some legal interest was that at the time of the Presidential election the Parliamentary constituencies in Himachal and Kangra in the Punjab had not completed the election to the Lok Sabha. The Kulu Assembly constituency had also not completed its election to the Punjab Assembly. A constitutional doubt was raised. But the view eventually taken was that in view of the provisions of Sec. 73 of the Representation of the People Act the election was perfectly valid.

FACTS AND FIGURES

The total number of voters enrolled in 1956 in the whole country (excluding Jammu and Kashmir and Andaman and Minicoy Islands) was over 193 millions (193,652,069. Women voters: 92,141,597 or 94 per cent of adult women). The estimated total population of the country,

(*Continued in Col. 3 next page*)

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Votes Polled

Below we give the number of votes polled by parties in the 1957 general election to the Lok Sabha.

States	Congress		P.S.P.		Communist		Jan Sangh		Others	
	Votes polled	Percentage of total	Votes polled	Percentage of total	Votes polled	Percentage of total	Votes polled	Percentage of total	Votes polled	Percentage of total
Andhra Pradesh	4,906,044	51·47	345,418	3·63	1,144,811	12·01	3,769	0·04	3,131,331	32·85
Assam	1,184,708	51·68	457,643	20·00	235,044	10·24	—	—	415,217	18·10
Bihar	4,450,208	44·47	2,165,462	21·64	502,707	5·20	7,973	0·08	2,881,526	28·79
Bombay*	8,156,272	48·66	1,457,203	8·66	1,055,013	6·30	566,008	3·38	5,525,789	33·00
Kerala	2,102,887	34·75	438,459	7·24	2,267,888	37·48	—	—	1,241,012	20·50
Madhya Pradesh	3,967,199	52·10	1,225,735	16·10	31,424	0·41	1,062,936	13·96	1,326,928	17·43
Madras	5,094,552	46·52	399,789	3·65	1,101,338	10·06	—	—	4,355,162	39·77
Mysore	3,219,014	55·52	1,082,698	18·67	85,373	1·47	143,606	2·48	1,267,749	21·86
Orissa	1,776,767	40·01	684,023	15·40	214,903	4·84	—	—	1,764,797	39·74
Punjab	3,682,219	51·25	41,285	0·57	1,207,600	16·81	1,152,672	16·04	1,100,054	15·30
Rajasthan	2,494,094	53·60	58,916	1·30	223,416	4·80	518,355	11·10	1,354,302	29·20
Uttar Pradesh	10,599,639	46·29	3,511,157	15·34	383,509	1·67	3,385,247	14·79	5,016,551	21·91
West Bengal	5,031,696	48·20	590,692	5·66	1,985,181	19·01	149,351	1·43	2,683,180	25·70
Delhi	440,775	54·32	28,656	3·53	38,236	4·71	159,907	19·72	143,770	17·72
Himachal Pradesh	171,591	47·30	42,838	11·80	9,912	2·80	—	—	138,300	38·10
Manipur	48,687	27·96	12,692	7·29	19,298	11·08	—	—	93,414	53·65
Tripura	253,241	46·01	—	—	248,442	45·31	—	—	48,675	8·84
Total	57,579,593	47·78	12,542,666	10·41	10,754,075	8·92	7,149,824	5·93	32,487,757	26·96

* Bilingual.

STATE ASSEMBLIES

Below we give particulars about the votes polled in the general elections of 1957 to the State Assemblies.

States	Seats	Electorate	Uncontested Gains	Valid votes polled	Percentage of valid votes
Andhra†	105*	5,561,345	4	3,603,585	48·71
Assam	108	4,495,359	7	2,523,970	47·01
Bihar†	318	19,514,567	—	10,585,421	40·59
Bombay†$	396	24,458,672	3	16,712,160	53·47
Kerala**	126	7,514,626	1	5,837,577	65·95
Madhya Pradesh	288	14,010,137	9	7,408,768	36·90
Madras†	205	17,514,993	3	11,130,996	46·94
Mysore	208	10,006,926	8	6,420,159	52·33
Orissa‡	140	7,983,975	1	4,255,915	34·29
Punjab†	154	9,208,926	1	7,603,890	58·02
Rajasthan†	176	8,745,726	5	4,746,461	38·68
Uttar Pradesh	430	34,901,603	5	21,918,606	44·92
West Bengal†	252	15,216,532	1	10,469,803	47·73
Total	2,906	179,133,387	48	113,217,311	46·49

* Only Telangana area of Andhra Pradesh went to the polls. †Votes polled by postal ballot have not been included in the table. The figures excluded are: Andhra Pradesh 735; Bihar 1,190; Bombay 16,219; Madras 21,954; Punjab 14,797; Rajasthan 1,370; West Bengal 4,720.
** A general election was held in Kerala in February 1960. An analysis of this is given below.
$ Bilingual. ‡ Mid-term election held in June 1961. Analysis is given below.

Party Position

Below we show the number of candidates put up by the various parties for the Assemblies and the number of seats won in the general elections of 1957.

States	Congress		P.S.P.		Communist		Jan Sangh		Others		Total	
	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned	Candidates	Returned
Andhra Pradesh*	109	68	29	1	—	—	4	—	177	36	319	105
Assam	101	71	36	8	22	4	—	—	153	25	312	108
Bihar	312	210	223	31	61	7	31	—	767	70	1,394	318
Bombay$	397	234	100	36	34	13	24	4	591	109	1,146	396
Kerala†	124	43	65	9	101	60	—	—	116	14	406	126
Madhya Pradesh	288	232	161	12	25	2	130	10	504	32	1,108	288
Madras	204	151	23	2	58	4	—	—	602	48	887	205
Mysore	208	151	78	18	20	—	21	—	262	39	589	208
Orissa‡	140	56	45	11	43	9	—	—	289	64	517	140
Punjab	154	120	19	1	72	6	72	9	344	18	661	154
Rajasthan	176	119	27	1	24	1	50	6	460	49	737	176
Uttar Pradesh	430	286	263	44	91	9	242	17	733	74	1,759	430
West Bengal	251	152	67	21	103	46	34	—	503	33	958	252
Total	2,894	1,893	1,136	195	654	161	608	46	5,519	611	10,793	2,906

* Only Telangana area of Andhra Pradesh went to the polls. † A general election was held in Kerala in February 1960. An analysis of this is given below. $ Bilingual.
‡ Mid-term election held in June 1961. Analysis is given below.

excluding the above areas, in 1956 was about 384 millions. Thus, about 50·4 per cent of the total population was entered in the electoral rolls or about 96 per cent of the adult population. The percentage of the adult population (persons over 21 years) is estimated at about 51 per cent. The enrolment of voters can thus be claimed to have been almost exhaustive.

The task of organising and carrying through the elections was completed with the wholehearted co-operation of the electorate, political parties, candidates and Government. In all about 1,166,459 Government servants participated in the election operations in different capacities. Similarly, about 363,000 persons who were not Government officials also took part in the work.

1951 and 1957 GENERAL ELECTIONS

	1951–52	1957
Lok Sabha		
No. of seats	489	494
No. of constituencies	401	403
Single member	314	312
Two-member	86	91
Three-member	1	..
No. of contesting candidates	1,874	1,594
Legislative Assemblies		
No. of seats	3,283	3,102
No. of constituencies	2,703	2,518
Single-member	2,124	1,934
Two-member	578	584
Three-member	1	..
No. of contesting candidates	15,361	10,177
Period of Poll days	120	19
Total expenditure	Rs. 10,45,47,099	5,90,21,786
Expenditure on each voter	As. 4·8	As. 2·4
Percentage of Poll		
Parliamentary Constituencies	51·07%	47·54%
Assembly Constituencies	..	48·23%
Number of Polling Stations	1,96,084	2,20,478 (Private bldgs. 18,379)
Number of ballot boxes	24,73,850	21,00,931
Number of ballot papers	600 million	579,371,000*
Number of Election Petitions	338	472 (Lok Sabha 59)
Electorate	173 million	193 million

* Cost: Rs. 11,52,506–13–0.

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Votes Polled

Below we give the number of votes polled by parties in the general election of 1957 to the Assemblies.

States	Congress		P.S.P.		Communist		Jan Sangh		Other Parties and Independents	
	Votes polled	Percentage	Votes polled	Percentage	Votes polled	Percentage	Votes polled	Percentage	Votes polled	Percentage
Andhra Pradesh* ..	1,707,364	47·37	203,453	5·64	—	—	5,809	0·16	1,686,959	46·79
Assam	1,321,367	52·35	321,569	12·75	204,342	8·10	—	—	676,692	26·80
Bihar	4,436,145	41·90	1,718,413	16·20	545,577	5·10	108,188	1·10	3,777,098	35·68
Bombay$	8,131,604	48·66	1,498,700	8·97	607,383	3·63	260,826	1·56	6,213,647	37·18
Kerala†	2,209,251	37·84	628,261	10·76	2,059,547	35·28	—	—	940,518	16·09
Madhya Pradesh ..	3,691,999	49·83	976,020	13·18	120,549	1·63	733,315	9·89	1,886,885	25·47
Madras	5,046,576	45·34	293,778	2·64	823,582	7·40	—	—	4,967,060	44·62
Mysore	3,343,839	52·08	902,373	14·05	123,403	1·92	86,084	1·37	1,964,460	30·58
Orissa‡	1,628,187	38·21	442,508	10·39	357,659	8·39	—	—	1,827,561	42·94
Punjab	3,612,709	47·51	94,564	1·25	1,030,898	13·56	654,395	8·60	2,211,324	29·08
Rajasthan	2,141,924	45·20	117,532	2·40	143,547	3·00	263,443	5·52	2,080,015	43·90
Uttar Pradesh ..	9,298,382	42·42	3,170,865	14·47	840,348	3·83	2,157,883	9·84	6,451,128	29·44
West Bengal ..	4,830,998	46·14	1,031,392	9·85	1,865,106	17·82	102,477	0·98	2,639,830	25·21
Total	51,400,345	45·49	11,399,428	10·07	8,721,941	7·70	4,372,420	4·03	37,323,177	32·97

* Only Telangana area in Andhra Pradesh went to the polls. † A general election was held in Kerala in February 1960. An analysis of this is given below. $ Bilingual. ‡ Mid-term election held in June 1961. Analysis is given below.

Some other particulars about the 1957 elections:

No. of candidates who filed nomination papers —Lok Sabha 2,281; Assemblies 16,484.

No. of candidates whose nominations were rejected—Lok Sabha 44; Assemblies 361.

No. of nomination papers rejected—Lok Sabha 93; Assemblies 839.

No. of candidates who withdrew their candidature—Lok Sabha 643; Assemblies 5,329.

No. of contesting candidates—Lok Sabha 1,594; Assemblies 10,794.

No. of candidates who retired subsequently—Lok Sabha 75; Assemblies 617.

Cost of temporary structures (27,985) for polling booths—Rs. 17,85,435.

Expenditure

The figures of expenditure on the general election State-wise are as follows (Rs.):

Andhra 72,02,189; Assam 17,05,410; Bihar 62,69,861; Bombay 52,22,384; Kerala 18,47,000; M.P. 34,62,111; Madras 58,86,472; Mysore 34,59,625; Orissa 34,89,293; Punjab 26,15,512; Rajasthan 30,91,464; U.P. 86,37,035; W. Bengal 52,74,021; Delhi 1,75,024; Himachal 3,06,732; Manipur 1,17,850; Tripura 2,59,803.

Total: Rs. 5,90,21,786.

Out of this an amount of Rs. 21,08,660 was realized through forfeiture of deposits, receipts from sale of rolls, inspection fees, fees for inclusion of names after final publication, and for copying.

The expenditure on the preparation of electoral rolls between 1952-53 and 1956-57 was about Rs. 6 crores. This is shared between the Centre and the States on a 50 : 50 basis.

The entire requirements of indelible ink was supplied by the Council of Scientific and Industrial Research. The number of phials used was 3,16,707 as against 3,89,816 in the first elections.

CANDIDATES

The total no. of candidates nominated was 18,765. Out of these 18,392 made the necessary deposits. The total sum deposited for the Lok Sabha was Rs. 10,24,500 and for the Assemblies Rs. 37,25,538.

The position about the forfeiture of deposits was as follows:

For the Lok Sabha 496 candidates forfeited their deposits (Congress 2, P.S.P. 55, Communists 15, Jan Sangh 58, Other parties 40, Independents 326).

For the Assemblies 4,359 candidates forfeited their deposits (Congress 51, P.S.P. 405, Communists 183, Jan Sangh 365, Other parties 218, Independents 3,037).

The number of candidates who incurred disqualification for failure to submit election expenses and of those whose disqualification was removed were as follows:

Lok Sabha 267 and 70; Assemblies 2,562 and 288.

Uncontested returns were:

Lok Sabha 12, all Congressmen (Andhra 4, Assam 2, Bihar 2, Madhya Pradesh 1, Mysore 2, Madras 1).

State Assemblies 48 (43 Congress, 5 Independents),—Andhra 4 Congressmen; Assam 4 Congressmen and 3 others; Bombay 3 Congressmen; Kerala 1 Independent; M.P. 9 Congressmen; Madras 3 Congressmen; Mysore 7 Congress and 1 Independent; Orissa 1 Congressman; the Punjab 1 Congressman; Rajasthan 5 Congressmen; U.P. 5 Congressmen; W. Bengal 1 Congressman.

Twenty-seven women were elected to the Lok Sabha and 195 to the various State Assemblies in the second general elections as compared with 21 and 80 respectively in the first general elections.

Twenty-three women elected to the Lok Sabha belonged to the Congress Party, two to the Communist Party and two to the Chota Nagpur Santhal Parganas Janata Party.

Of those elected to the State Assemblies, 179 belonged to the Congress, four to the Communist Party, one to the People's Democratic Front, two to the Chota Nagpur Santhal Parganas Janata Party, three to the Ganatantra Parishad and the remaining six are Independents.

The Bihar Assembly had 32 women, the largest for any State, followed by Madhya Pradesh with 27, Uttar Pradesh with 26, Bombay with 25 and Mysore with 18.

Seventeen Scheduled Castes and Tribes candidates were elected to general seats.

Of these four were elected to the Lok Sabha (one each in Andhra, Kerala, W. Bengal and Tripura) and 13 to the State Assemblies (one each in Andhra, Bombay, Madras, Orissa and U.P.; two in Assam and three each in Kerala and W. Bengal).

POLL

Some particulars about the poll are given below:

For a parliamentary constituency the highest percentage of polling was 75·68 in Kottayam (Kerala and the lowest 16·94 at Kangra (Punjab). For an Assembly constituency the highest was 83·20 in Karad North (Bombay) and the lowest 11·62 at Udaigiri (Orissa).

At 21 polling stations not a single vote was cast.

During the first general election there were 93 cases in which the poll had to be adjourned. In the second the number was 34.

Re-poll was ordered in the first elections at 107 stations because the ballot boxes were damaged. In the 1957 elections re-poll was ordered only in 31 cases. The number of constituencies affected was 22 in six States.

Tendered votes: 58,887 (first elections); 43,422 (second).

The maximum number of contestants for an Assembly seat was 11 in a single-member constituency and 16 in a two-member one, the corresponding figures for Lok Sabha being eight and 11 respectively.

The single-member Assembly constituencies of Gaya in Bihar, Jodhpur City I and Fatehpur in Rajasthan, Chillupar in Uttar Pradesh and Sandeshkhali in West Bengal had 11 candidates each, while the two-member constituencies of Jahanabad in Bihar and Sirsa in the Punjab had each 16 contestants in the field.

In the elections to the Lok Sabha, there were eight contestants in the Rewa (Madhya Pradesh) single-member constituency and 11 in the Nawada (Bihar) two-member constituency.

In the first general elections there were 181 cases of interchange of ballot boxes and 692 cases of interchange of ballot papers. A re-poll was ordered in 43 cases.

In the second general elections there were 70 cases of interchange of ballot boxes and 265 cases of ballot papers. Re-poll was ordered in 11 cases.

No. of electoral offences in connection with the poll: 1,250 (first general elections); 1,000 (second).

There were only two cases in which a contesting candidate died before the commencement of the poll.

There was one constituency in which only one candidate filed nomination papers. He withdrew his candidature before the poll.

The narrowest win—one vote—was at the Galsi constituency in Burdwan Dt. (W. Bengal). Another narrow win—two votes—was at Sirmour in Rewa Dt. (M.P.).

No. of policemen deputed for polling duty: 2,73,762; of village chowkidars: 1,68,281.

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The position about election petitions pertaining to the general elections was as follows (March 15, 1960):—Seven were pending before Election Tribunals, five before High Courts, and ten before the Supreme Court.

PARTIES, SYMBOLS

The Election Commission recognised four parties at the national level. They were the Congress, the Praja-Socialist Party, the Communist Party and the Jan Sangh. Eleven other parties were recognised at the State level. Besides, more than 30 parties or groups fought the elections on their own or in association with others in different States.

As already mentioned, four parties were recognized as all-India parties:

The Indian National Congress, the Praja Socialist Party, the Communist Party, the Bharatiya Jan Sangh. These parties had the same symbols as in the previous general election. Congress (two bullocks with a yoke), Communists (ears of corn with sickle), P.-S.P. (hut), Jan Sangh (oil lamp with wick).

The State parties and their symbols:

(1) *All-India Scheduled Castes Federation (Andhra Pradesh, Bombay, Madhya Pradesh, Mysore, Punjab, Delhi and Himachal Pradesh —Elephant). (2) All-India Forward Bloc—Marxist (West Bengal—standing lion). (3) All-India Ganatantra Parishad (Orissa—bow and arrow). (4) Akhil Bharat Hindu Mahasabha (Bombay, Madhya Pradesh and West Bengal—horse and rider). (5) Akhil Bharat Ram Rajya Parishad (Bombay, Madhya Pradesh, Rajasthan and Uttar Pradesh—rising sun). (6) Chota Nagpur and Santhal Parganas Janata Party (Bihar—cycle). (7) Jharkhand Party (Bihar—cock). (8) Peasants' and Workers' Party (Andhra Pradesh, Bombay and Mysore—cart). (9) The People's Democratic Front (Andhra Pradesh—human hand). (10) Revolutionary Socialist Party Kerala—Spade and stoker). (11) Tripura Ganatantrik Sangha (Tripura—ladder). (12) Praja Party (Andhra Pradesh—Rising sun).

The standard for recognition as a party was a minimum of three per cent of the valid votes polled in the Assembly or the electoral college elections.

Twelve parties which applied for recognition as national parties and 43 parties which applied for recognition as State parties were not granted the recognition asked for.

POST-GENERAL ELECTION POLLS

Below we give notes on three elections held after the General Elections of 1957.

RAJYA SABHA

Under the constitution a third of the members of the Rajya Sabha have to retire every two years. Thus the term of 76 members (72 elected and 4 nominated) expired on April 2, 1960. Elections were held on March 24 except for Bombay where they were held on March 19.

Of the 76 members who retired twelve were from the opposition.

State-wise the vacancies were:

Andhra Pradesh 6; Assam 3; Bihar 7; Bombay 9; Kerala 3; Madhya Pradesh 5; Madras 6; Mysore 4; Orissa 4; Punjab 4; Rajasthan 3; Uttar Pradesh 11; West Bengal 5; Delhi 1, and Manipur 1.

The nominations were to be filed by March 4, the date of scrutiny was March 7 and the last date for the withdrawal of candidates was March 10.

One hundred and eighteen candidates filed their nominations. The State-wise figures were:

Andhra 8, Bombay 18, Kerala 7, M.P. 16, Madras 13, Mysore 10, Orissa 7, the Punjab 19, West Bengal 6, Manipur 6.

Party-wise the nominations were:

Congress 54, P.S.P. 4, Communists 6, Socialists 2, Jan Sangh 1, Swatantra 1 (Punjab), Ganatantra Parishad 3, Samyukta Maharashtra 3, Mahagujarat Janata Parishad 3, Independents 33.

The results of the elections which were announced on March 25 were as follows:

Congress 56, P.S.P. 5, Communists 2, Samyukta Maharashtra Samiti 2, Muslim League 1, Ganatantra Parishad 2, Independents 4.

Thirty-one of the sitting members were elected and 41 were new.

KERALA ELECTIONS

General elections to the Kerala Legislative Assembly were held on February 1, 1960.

The following table gives an analysis:

Seats: 126. Electorate: 80,38,262. Votes polled: 81,93,127.

Party	Seats contested	Seats won	Votes polled
Congress	80	63	27,91,294
PSP	33	20	11,46,029
Muslim League	12	11	3,99,929
Communist	102	26	29,75,259
Communist-sponsored Independents	23	3	5,74,877
RSP	18	1	1,66,137
KSP	14	Nil	5,938
Lohia Socialist	4	Nil	21,297
Jan Sangh	3	Nil	5,277
Independents	19	2	77,725

Votes polled by Independents are those polled by 23 candidates including two nominees of the Karnatak Samiti.

The total votes polled include 89,369 invalid votes.

The final party position was: Congress 63, Communists 29, P.S.P. 20, Muslim League 11, R.S.P. 1, Independents 2.

More details are given in the 1960-61 Directory.

ORISSA MID-TERM ELECTIONS

The mid-term election to the Orissa Legislative Assembly which began on 2nd June and ended on 12th June 1961, swept the Congress to power.

The final party position in the 140-member Assembly is: Congress 82, Ganatantra Parishad 37, Praja-Socialists 10, Communists four, Independents seven. The Independents include one member each from the Swatantra Party and the Socialist (Lohia) Party.

The Congress had only 56 seats in the previous Assembly. In the mid-term election, it won 19 seats from constituencies which were considered to be the spheres of influence of the Ganatantra Parishad. It, however, drew blank in Balangir and Kalahandi Districts where all but one seat—which went to the Swatantra Party—were bagged by the Parishad.

The Parishad contested 121 seats and won only 37 against the 51 seats it had in the dissolved Assembly.

The Praja-Socialist Party, with 11 members in the dissolved Assembly, secured only ten seats this time.

The Communist Party suffered a debacle in all the nine constituencies from where its candidates had been returned in the last elections. In the process, all its top leaders in the legislature have been ousted. Its candidates succeeded in four constituencies which were considered safe Congress areas.

The Socialist (Lohia) Party retained its strength of one.

The only Swatantra Party candidate was elected. He had been elected on the Congress ticket in the last election.

The Jharkhand Party, which is demanding a separate administrative unit for the tribals of Chotanagpur plateau and the adjoining Orissa areas, was routed. It had five members in the last Assembly.

Of the 191 independent candidates, including Lohia Socialists, Jharkhand Party and unofficial Swatantra Party candidates, only seven succeeded.

As many as 200 of the 533 candidates who contested this time lost their deposits. Most of them were independents.

Only four women were returned to the House—two on Congress and two on Parishad tickets.

None of the Muslim candidates won at the polls.

Of the four members of Parliament who sought to enter the State Assembly, three succeeded—two Congress and one Parishad candidate.

The following table gives details of the elections:—

	1957		1961		
	Seats won	Percentage polled	Seats won	Votes polled	Percentage
Congress	56	38.21	82	1,309,607	44.44
Gantantra Parishad	51	28.37	37	642,822	21.81
Praja-Socialist Party	11	10.39	10	301,514	10.23
Communist Party	9	8.93	4	246,465	8.37
Independents	13	14.64	7	446,576	15.15

Note: 1961: Electorate 8,442,849, Votes polled 2,946,984, percentage 34.5.

Independent votes include Jharkhand Party 36,894. Socialist (Lohia) Party 18,810, Swatantra Party 18,080 and Adivasi Unnati Samaj 14,729.

* Has dissolved itself as a political party. Hence the Election Commission has decided to withdraw recognition (July 1960).

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BY-ELECTIONS

(April 1956–May 1960)

Below we give an analysis of the by-elections which took place after the general election of 1957 upto May 1960.

In all 129 by-elections were held—16 to the Lok Sabha and 113 to the State Assemblies. About 7·25 million persons voted in these elections as against 6·09 million in the same constituencies in 1957. The percentage of votes cast was 31·54 for the Lok Sabha elections (1957 : 42·44) and 48·47 for the State Assemblies (1957 : 53·70).

The total number of contestants in all the elections was 389 as against 529 in 1957.

The causes of the by-elections were death of sitting member in 60 cases, resignation in 25 and re-poll ordered by election tribunals in 44 cases.

The Congress lost four of the 14 Lok Sabha seats it held—one to P.S.P., one to Socialist Party, one to the Samiti and one to an Independent. Independents lost two seats, one seat to the Congress and another to the Communists.

In the elections to the State Legislatures the Congress gained 25 and lost 21, the P.S.P. gained 4 and lost 15, the Communist Party gained 2 and lost 4, Independents gained 15 and lost 10, the others gained 8 and lost 4.

In regard to the number of votes polled details are given below :

Lok Sabha :—

No. of by-elections 16 : votes polled by Congress 9,42,205 (49·67 per cent); votes polled by opposition 9,54,082 (50·33 per cent).

State Assemblies :—

Total no. of by-elections 113 ; seats contested by Congress 107. Figures cover only 104 elections. Votes polled by Congress 17,90,627 (47·75 per cent); Votes polled by opposition 19,59,039 (52·25 per cent).

In the Visakhapatnam Parliamentary Constituency in Andhra Pradesh and the Assembly constituencies of Visakhapatnam and Srungavarapukota in Andhra Pradesh, Jamalpur in Gujarat and Daspalla in Orissa respectively the candidates were elected unopposed.

Party-wise Break-up : Party-wise, the position was that out of six Lok Sabha seats, five went to the Congress Party and one to the Communist Party. Earlier, the Congress had four seats while the Independents two.

Thirty-nine members elected to the State legislative assemblies were : Congress—26, Praja Socialist Party—1, Communist Party—1, Independents—8, and other parties—3.

Death of the sitting member was the cause of bye-election in 27 cases, resignation in 7 cases and the re-poll ordered by the Election Tribunals in 11 cases.

The six bye-elections to the Lok Sabha were one each in the States of Andhra Pradesh, Bihar, Bombay (Bilingual), Uttar Pradesh and West Bengal and the Union Territory of Himachal Pradesh.

The contestants to these seats number 18 as against 25 in the last general elections.

The 39 bye-elections in the State Assembly constituencies were held as : Andhra Pradesh —7 ; Assam—3; Bihar—4 ; Bombay—2 ; Madhya Pradesh—5 ; Madras 4 ; Maharashtra—1 ; Mysore—3 ; Orissa—3 ; Rajasthan—1 ; Uttar Pradesh—5 ; and West Bengal—1.

PARTIES FOR THE 1962 ELECTION

All those political parties which secured 3 per cent of the total votes polled in the last general elections will be recognised for allotment of symbols in the next elections starting early March 1962.

The all-India parties recognised are : Indian National Congress, Praja Socialist Party, Communist Party of India and Bhartiya Jan Sangh ; and the recognised State parties are : People's Democratic Front, and Praja Party in Andhra Pradesh ; Peasants' and Workers' Party in Andhra Pradesh and Maharashtra ; Janata Party and Jharkhand Party in Bihar ; United Independent Front in Himachal Pradesh ; Muslim League in Kerala ; Hindu Mahasabha in Madhya Pradesh and Delhi ; Dravida Munnetra Kazhagam in Madras ; Lok Seva Sangh in Mysore ; Ganatantra Parishad in Orissa ; Ram Rajya Parishad in Rajasthan ; Socialist Party in Uttar Pradesh and Manipur, Forward Bloc (Marxist) in West Bengal and Republican Party in Maharashtra and Punjab only. The symbol of the Republican Party is Elephant.

Two Ballot Papers

At the next elections there would be two ballot papers, both in different colours, one for Assembly and the other for Parliament. These would be issued to the voter at the same time. After they had been marked in a secret compartment they would be dropped in *One Box* placed before the Presiding Officer. At the counting stage it would be easy to sort out the ballot papers.

The next general elections will take place simultaneously all over the country. The endeavour is to complete the polling within five days and to declare the results in the next three days so that the entire operation will end in eight days, starting on one Sunday and ending on the following Sunday.

Two-member Constituencies (Abolition) Act, 1961 : The Bill was passed in the Parliament and it received the assent of the President on March 9, 1961. By the abolition of double-member constituencies, there would be only single-member constituencies in the 1962 elections.

The Election Commission's proposals for the division of two-member constituencies in respect of Kerala and Assam were published on March 15, 1961 and those in respect of Madras, Punjab, West Bengal, Orissa, Mysore, Gujarat and Delhi were expected to be published by the end of March. The Election Commission expected to finish the work by July 1961.

ANDHRA PRADESH LEGISLATIVE COUNCIL

Strength :—90.

An estimate of party position is as follows :— Cong. 55, C.P.I. 10, Swatantra 6, Ind. 19.

Chairman :—Madapati Hunumantha Rao ; *Dy. Chairman* :—G. Subba Raju.
Secretary :—M. Surya Rao.

Local Authorities' Constituencies (31)

Appasani Appana Dora (*Circars North*) ; Kommuru Appadu (*Circars North*) ; Tripurana Raghava Das (*Circars North*) ; Pentakota Venkata Ramana (*Circars North*) ; Vundavilli Satyanarayana Murthy (*Circars Central*) ; Thummalapalli Veerabhadra Rao (*Circars Central*) ; Rudraraju Ramalingaraju (*Circars Central*) ; Annem Seshu Rao (*Circars Central*) ; Kolla Venkaiah (*Circars South*) ; Pelleti Venkata Krishna Reddy (*Circars South*) ; Ponnaluru Veera Raghava Reddy (*Circars South*) ; Bojja Adinarayana Rao (*Circars South*) ; Shrimati Manikonda Suryavathi (*Circars South*) ; Venigalla Satyanarayana Rao, T. (*Circars South*) ; Adikesavalu Naidu, K. (*Rayalaseema*) ; Dappili Panduranga Reddy (*Rayalaseema*) ; Narayana Reddy, D. (*Rayalaseema*) ; Yeddula Eswara Reddy (*Rayalaseema*) ; Raju Venkata Subba Reddy (*Rayalaseema*) ; A. Vengala Reddi (*Rayalaseema*) ; Eriam Satyanarayana (*Telangana South*) ; A. Guraya Reddy (*Telangana South*) ; K. Ramachandra Reddy (*Telangana South*) ; Venkata Narasimha Chari (*Telangana South*); Seelam Sidda Reddy (*Telangana South*) ; K. Subramanyam (*Telangana South*) ; Raghotham Reddy (*Telangana North*) ; Hanmantha Reddy (*Telangana North*) ; Eipur Laxma Reddy (*Telangana North*) ; Mohammad Arif Khan (*Telangana North*) ; B. Gangaram (*Telangana North*).

Graduates' Constituencies (8)

S. B. P. B. K. Satyanarayana Rao (*Circars*) ; Avasarala Rama Rau (*Circars*) ; Mulukutla Venkata Sastry (*Circars*) ; Nivarthi Venkata Subbaiah (*Rayalaseema*) ; Krishna Reddy, M. V. (*Rayalaseema*) ; Ataur Rahman (*Telangana*) ; Arandam, M. (*Telangana*) ; A. Seetha Rami Reddy (*Telangana*).

Teachers' Constituencies (8)

Sreerama Murty, P. (*Circars*) ; Desaraju Satya Subrahmanyam (*Circars*) ; Vempati Purushotham (*Circars*) ; Narayana, A. L. (*Circars*) ; Singaraju Ramakrishnaiah (*Rayalaseema*) ; Subba Sastry, D. V. (*Rayalaseema*) ; Raghavachari, V. P. (*Telangana*) ; Narayan Reddy, K. V. (*Telangana*).

Elected by the Legislative Assembly (31)

Alluri Satyanarayana Raju ; Arutla Laxmi Narasimha Reddy ; Idukallu Sadasivan ; Guntur Rajaraayya ; Gutta Raja Rao ; Gottipati Brahmayya ; Gorepati Butchi Appa Rao ; Shrimati Gogineni Bharathi Devi ; Chinna Siva Reddy ; Chikati Pachamam Naidu ; Jagannatham, N. V. ; Damarla Rama Kantha Rao ; Shrimati Dronamraju Lakshmibayamma ; Ram Reddy ; Nathaniel Milari Williams ; Pyndah Venkatarayana ; Prasad Reddy, K. V. ; Shrimati Fazunnisa ; Pachipa Subba Rao ; Bendi Kurmanna ; Bezwada Papi Reddy ; Bhoj Reddy ; Chittur Subba Rao Chowdry ; Maqdoom Mohiuddin ; Madapati Hanumantha Rao ; Abu Yusuf ; Ranuva Seetharamaiah ; Lingayya ; Subba Reddy ; Suryanarayan Rao, Y. ; Shaik Galib.

Nominated by the Governor (12)

S. Govindarajulu ; B. N. Reddi ; Gadiyaram Venkataseshu Sastry ; Bikkini Venkataratnam ; G. Subba Raju, M. S. (Calif.), F.A.F.P.E. (U.S.A.) ; S. Sambhu Prasad ; Pemaraju Venkata Rao, B.A. ; Shrimati K. Ramasubhamma ; M. Azamuddin ; Smt. Kamala Sanjeeva Rao ; Haroon Khan Sherwani ; Srimati Illindula Saraswathi Devi.

ANDHRA PRADESH LEGISLATIVE ASSEMBLY

Total Electorate : 1,76,68,716 ; *Total Number of Constituencies* : 249 ; *Single Member Constituencies* : 197 ; *Double Member Constituencies* : 52 ; *Total number of Seats* : 302* ; *Scheduled Castes* : 43 ; *Scheduled Tribes* : 11.

The party position is nebulous. One estimate puts the position as follows : Congress 234, Communists 37, Swatantra Party 17, Praja Group 3, Independents 8, Nominated 1.

Another estimate is as follows : Congress 211, Communists 39, Swatantra 35, Socialists 11, P.S.P. 2, Independents 4. Here some members of the Democratic Socialist Party are classed as Swatantra.

This does not correspond to the affiliations as at the elections which are shown below.

Speaker : A. Kaleswara Rao.
Deputy Speaker : Smt. T. N. Sadalakshmi.
Secretary : G. V. Chowdary.
Joint Secretary : M. Surya Rao.
Editor of Debates : M. K. Sastri.
Asst. Secretaries : M. Habibulla Baig, M. S. Naidu, C. Padmanabhan.

There are 196 members from the former Andhra area and 105 from Telangana. The members from the former Andhra area were

* Excludes one nominated.

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elected in 1955 while those from Telangana in March, 1957. The term of the Assembly has been extended till 1962.

Achuta Reddy, K. (U.C.L.), (*Kodangal*); Adinarayana, Botsa (U.C.L.), (*Bhogapuram*); Smt. Ammanna Raja, Chodagam (U.C.L.), (*Attili*); Amritlal Shukla (C.D.F.), (*Sirsilla-General*); Anandrao, Joganpalli (C.D.F.), (*Metpalli*); Anantha Reddy (C.D.F.), (*Dommat*); Anjaiah, T. (U.C.L.), (*Armoor*); Antiah, K. (U. C. L.), *Sangareddy* (R)); Anthony Reddy, P. (U.C.L.), (*Anantapur*); Appalaswamy, Bojja (U.C.L.), (*Amalapuram* (R)); Appa Rao Bahadur, Raja Meka Rangayya (U.C.L.), (*Nuzvid*); Appa Rao Beesettti (Swa.), (Anakapalli), Appa Rao, Kammili (U.C.L.), (*Kaikalur*); Appa Rao Shetkar (U.C.L.), (*Narayankhed*); Achutha Ramiah, Rallapalli (U.C.L.), (*Bandar*); Audinarayana Reddy, Y. (U.C.L.), (*Rayachoti*); Ayyapu Reddy, E. (U.C.L.), (*Nandikotkur*); Baga Reddy, M. (U.C.L.), (*Zahirabad*); Balanageswara Rao, Ambatipudi (A.P.P.), (*Rajahmundry*); Bannappa (U.C.L.), (*Makhtal*); Bapiah, Ginjupalli (U.C.L.), (*Pedakakani*); Bapaiah Chowdary, Mandava (U.C.L.), (*Gurajala*); Bapayya, Peta (U.C.L.), (*Tiruvur*); Bapineedu, Alluri (U.C.L.), (*Kovvur*); Basappa, E. (U.C.L.), (*Makhtal* (R)); Basi Reddy, P. (U.C.L.), (*Pulivendla*); Bhagavantha Rao, Anagani (U.C.L.), (*Kuchinapudi*); Bhanoji Rao, Ankitham Venkata (U.C.L.), (*Visakhapatnam*); Biap Reddi, P. (U.C.L.), (*Nallamada*); Brahmananda Reddi, Kasu (U.C.L.), (*Phirangipuram*); Brahmayya, Seerla (U.C.L.), (*Eluru*); Bussanna, G. (U.C.L.), (*Adoni*); Chandramouli, Jagarlamudi (Swa), (*Ammanabrole*); Chandramouli, Kalluri (U.C.L.), (*Vemur*); Channiah, Yadam (U.C.L.), (*Repalle*); Chenchurama Naidu Nalamothu (U.C.L.), (*Kondapi*); Chengalraya Naidu, N. P. (U.C.L.), (*Vepanjari*); Dr. Chennareddy, M. (U.C.L.), (*Vicarabad*); Chinnappa (U.C.L.), (*Mahbubnagar*); Chinnamma Reddy, P. (U.C.L.), (*Chittoor*); Chithambara Reddi, A. (U.C.L.), (*Penukonda*); Chitti, Marupilla *alias* Appalaswamy (U.C.L.), (*Vijayawada-North*); Chokkarao Juvvadi (U.C.L.), (*Karimnagar*); Chokkarao Polsani (C.D.F.), (*Indurthi*); Chudamani Deo, V. C. (U.C.L.), (*Parvathipuram*); Dawar Hussain Mohammad (U.C.L.), (*Nizamabad*); Dharma Bhiksham, B. (C.D.F.), (*Nakrakal*); Doraikannu, M. (U.C.L.), (*Satyavedu* (R)); Ganga Reddy, Gopidi (U.C.L.), (*Mudhole*); Tammi Raju, P. (A.P.P.), (*Pithapuram*); Gopalakrishnaiah, Vavilala (Ind.), (*Sattenapalli*); Gopalakrishna Reddi, Pelleti (U.C.L.), (*Gudur*); Gopalakrishnayya Gupta, T. (U.C.L.), (*Madanapalli*); Gopala Rao, Duriseti (U.C.L.), (*Jaggampeta*); Gopal Reddy, G. (C.D.F.), (*Jangaon*); Gopalu Reddi, P. (U.C.L.), (*Satyavedu*); Gopal Rao, Ekbote (U.C.L.), (*High (t*); Govindarajulu, Nalabolu (U.C.L.), (*Vinukonda*); Gunnayya, Pothula (U.C.L.), (*Pathapatnam* (R)); Gurraju, Parvatha (U.C.L.), (*Pathipadu*); Gurumurthy, B. V. (U.C.L.), (*Secunderabad*); Hanumantha Rao, D. (U.C.L.), (*Jagtial*); Harischandraprasad, Mullapudi (U.C.L.), (*Tanuku*); Hygrivachari, Tiruvarangam (U.C.L.), (*Dhamasagar*); Jagannadham, Reddi (U.C.L.), (*Chodavaram*); Jagannadham, Simma (Swa.), (*Narasannapeta*); Jagannadharaju ,Gadiraju (U.C.L.), (*Undi*); Jagan Mohan Reddy, K. (U.C.L.), (*Pargi*); Jalayya, Tellakula (U.C.L.), (*Guntur No.* 1); Janardhan Reddy, K. (U.C.L.), (*Nagarkurnool*); Smt. Jayalaxmidevamma (U.C.L.), (*Alampur*); Jiyyar Dass, Talluri (U.C.L.), (*Ongole* (R)); Kaleswara Rao, A. (Speaker) (*Vijayawada South*); Smt. Kamaladevi, Arutla (C.D.F.), (*Alair*); Kamayya, Reddy (U.C.L.), (*Pallypalem* (R)); Smt. Kanaka Ratnamma, Kakamanu (U.C.L.), (*Narsampet*); Kasi Ram, M. (U.C.L.), (*Asifabad* (R)); Kasireddy, Sanikommu (C.D.F.), (*Podili*); Keshava Reddy, Bethi (U.C.L.), (*Ghanpur*); Keshava Reddy, Katanguru (U.C.L.), (*Parkal*); Kishtama Chary (U.C.L.), (*Sangareddy*); Kodandaramaiah, Pusuluri (U.C.L.), (*Polavaram*); Kodanda Rama Reddy, V. (U.C.L.), (*Sarvepalli*); Kondaiah Chowdary, Divi (Swa.), (*Kandukur*); Kondalarao, Jalagam (U.C.L.), (*Vemsoor*); Kotaiah, Pragada (U.C.L.), (*Chirala*); Kotireddy, K. (U.C.L.), (*Lakkireddipalli*); Koti Reddi, Meka (U.C.L.), (*Mangalagiri*); Krishnamraju Bahadur Raja Vatsavaya Venkata (U.C.L.), (*Tuni*); Krishnavataram, Srimatkilambi Venkata (A.P.P.), (*Tadepalligudem*); Krishnayya, Allam (U.C.L.), (*Venkatagiri* (R)); Kurmayya, Vemula (U.C.L.), (*Gudivada* (R)); Lakshman Bapuji, Konda (U.C.L.), (*Chinnakondur*); Lakshmana Dass, Lukulapu (U.C.L.), (*Pathapatnam*); Lakshmayya, Javvadi (U.C.L.), (*Penugonda*); Lakshminarasimham Dora, R. (U.C.L.), (*Tekkali*); Lakshminarayana Reddi, Tetala (U.C.L.), (*Anaparti*); Lakshminarayana Reddy (C.D.F.), (*Pathikonda*); Lakshmunaidu, Addakula (N.P.), (*Naguru*); Latchanna, Gowtu (Swa.), (*Sompeta*); Latchapatrudu, Ruthala (Swa.), (*Golugonda*); Laxmiah, M. (U.C.L.), (*Devarkonda* (R)); Laxma Reddy, G. (C.D.F.), (*Maidaram*); Smt. Lakshmikanthamma, T. (U.C.L.), (*Khammam*); Laxminarasiah, M. N. (U.C.L.), (*Ibrahimpatnam*); Lingam, N. K. (U.C.L.), (*Nandikotkur* (R)); Madhavarao (U.C.L.), (*Jukal*); Mahaboob Ali Khan (U.C.L.), (*Kurnool*); Mahammad Rahamathulla, Shaik (J.C.L.), (*Cuddapah*); Mahammad Tahseel, (J.D.F.), (*Bhadrachelam*); Mahendranath, P. (U.C.L.), (*Nagarkurnool* (R)); Malsoor, Uppala (C.D.F.), (*Suryapet* (R)); Manda Sailu (U.C.L.), (*Parkal* (R)); Maniah, Baswa (Ind.), (*Andole*); Smt. Masooma Begum (U.C.L.), (*Pathergatti*); Matcharaju, Matcharasa (U.C.L.), (*Gudem*); Mir Ahmed Ali Khan (U.C.L.), (*Malakpet*); Mirza Shukur Baig (U.C.L.), (*Warangal*); Murlidhar Reddy (U.C.L.), (*Atmakur*); Munuswami, Merlapaka (U.C.L.), (*Gudur* (R)); Murthy Raju, Ch. S. R., Ch. V. P. (U.C.L.), (*Pentapadu*); Muthiam Reddy, K. (U.C.L.), (*Nirmal*); Mutyal Rao, J. B. (U.C.L.), (*Gazwell* (R)); Dr. Naganna, K. (U.C.L.), (*Kalwakurthy* (R)); Nagayya, Eti (Swa.), (*Paravada*); Nageswara Rao, Ganji (C.D.F.), (*Razole*); Nageswara Rao, Meduri (U.C.L.), (*Guntur No.* 2); Nagi Reddi, Mandapati (C.D.F.), (*Macherla*); Narayana, B. V. L. (Ind.), (*Ongole*); Narsiah, Dodda (U.C.L.), (*Yellandu* (R)); Narsiah, Karalla (C.D.F.), (*Sirsilla* (R)); Narsingrao, Polsani (U.C.L.), (*Huzurabad*); Narasimhareddy, Bheemareddy (C.D.F.), (*Suryapet*); Narasimhareddi, Reddigari (U.C.L.), (*Gazwel*); Narayana Reddy, Goddampalli (U.C.L.), (*Devarkonda*); Narayan Reddy, G. (U.C.L.), (*Asifabad*); Narayan Reddi, Ravi (C.D.F.), (*Bhongir*); Narayana, K. S. (U.C.L.), (*Secunderabad-City*); Narsiah, Dodda (C.D.F.), (*Huzurnagar*); Narsimhamurthy, Golkoti (U.C.L.), (*Amalapuram*); Narasimhapparao Pydi (U.C.L.), (*Palakonda*); Narasimha Rao, K. L. (C.D.F.), (*Yellandu*); Narasinga Rao, B. G. M. A. (U.C.L.), (*Kanithi*); Narasinga Rao, J. V. (U.C.L.), (*Begumbazar*); Narasinga Rao, M. (U.C.L.), (*Kollapur*); Narayanappa, Sanda (U.C.L.), (*Gooly*); Nathamuni Reddi, Reddivari (U.C.L.), (*Tirupati*); Mrs. Roda Mistry, (U.C.L.), (*Jubilee Hills*); Obula Reddi, Kandula (U.C.L.), (*Markapur*); Padmanabharaju, K. V. S. (U.C.L.), (*Revidi*); Padmanabha Reddy (U.C.L.), *Wanaparthy*); Pallem Raju, Mallipudi (U.C.L.), *Kakinada*); Pamideswara Rao, Pinnenti (U.C.L.), (*Malleswaram*); Papa Rao, Thammineni (U.C.L.), (*Nagarikatakam*); Paramdhamayya Govada (U.C.L.), (*Ponnur*); Parthasarathi, Potharaju (U.C.L.), (*Rajampet*); Pattabhirama Rao, S. B. P. (U.C.L.), (*Pamarru*); Peddanna, Namavarapu (C.D.F.), (*Khammam* (R)); Perumallu, Dasari (U.C.L.), (*Palacole* (R)); Pithamber Rao, G. V. (U.C.L.), (*Luxettipeth*); Pothuraju, Mutyala (U.C.L.), (*Narasapatnam* (R)); Punnayya, Kottapalli (U.C.L.), (*Cheepurupalli* (R)); Pyadayya Naidu, Majji (U.C.L.), (*Kondakarla*); Rajalingam, Mudigonda Siddaveera (U.C.L.), (*Chilamcherla*); Rajagopal Naidu, P. (Swa.), (*Tavanampalle*); Rajaram, B. (U.C.L.), (*Sultanabad* (R)); Rajaram, M. (U.C.L.), (*Gooty* (R)); Raja Veerabasava Chikka Royal, Y. B. (U.C.L.), (*Punganur*); Rajayya, Boyina (U.C.L.), (*Salur* (R)); Rajeswara Rao, Chennammenni (C.D.F.), (*Choppadandi*); Rajeswara Rao, Mallipudi (U.C.L.), (*Divi* (R)); Rajeswara Rao, P. V. (U.C.L.), (*Siddipet*); Rajeswara Rao, S. (C.D.F.), (*Mulug*); Rajmallu, K. (U.C.L.), (*Sirpur*); Raju, P. V. G. (U.C.L.), (*Bheemunipatnam*); Dasaradha Rama Reddi. (U.C.L.), (*Kavali*); Ramabadraraju, N. (U.C.L.), (*Cheyyeru*); Ramabrahmam, D. (U.C.L.), (*Kuppam*); Ramachander Rao (U.C.L.), (*Sultanabad*); Ramachandraraja Bahadur (U.C.L.), (*Ramachandrapuram*); Ramachandra Rao, V. (Ind.), (*Asafnagar*); Ramachandra Reddi, T. (U.C.L.), (*Putlur*); Ramacharlu, P. (U.C.L.), (*Dharmavaram*); Ramachandra Reddy, Kattukuru (U.C.F.), (*Ramannapet*); Ramachandra Reddy, N. (U.C.L.), (*Dornakal*); Ramaiah, Kunda (U.C.L.), (*Jammalamadugu*); Ramaiah, Kolla (Swa.), (*Paruchuru*); Ramakrishna Raju, R. B. (U.C.L.), (*Vadamalpet*); Ramakotaiah, Chagarlamudi (Swa.), (*Kankipadu*); Ramalingam, Goka (U.C.L.), (*Jangaon* (R)); Ramalinga Reddi, H. (U.C.L.), (*Alur*); Ramarao, V. (U.C.L.), (*Shahabad* (R)); Rama Reddi, Bommu (U.C.L.), (*Mydukur*); Ramaswami Reddi Ganapa (U.C.L.), (*Pedakurapadu*); Ramaswamy, Arige (U.C.L.), (*Vicarabad* (R)); Ramaswamy Naidu, Peddinti (U.C.L.), (*Balijipeta*); Ramayya, Maganti (U.C.L.), (*Kanchikacherla*); Ramireddy C.O. Reddy (U.C.L.), (*Proddatur*); Rami Reddi, J. (U.C.L.), (*Yerragondipalem*); Ramulu, G. (U.C.L.) (*Huzurabad* (R)); Ramulu, Nicharla (Swa.), (*Brahmanatarla*); Dharma Naidu, G. (U.C.L.), (*Srungavarapukota* (R)); Rangababu, Uppada (U.C.L.), (*Ichapuram*); Ranganath Rao (C.D.F.), (*Adilabad*); Rangareddi (U.C.L.), (*Balkonda*); Ranga Reddi, Padithala (U.C.L.), (*Giddalur*); Rangayya, Mulpuru (U.C.L.), (*Denduluru*); Rathnam, A. (U.C.L.), (*Punganur* (R)); Rathnasabhapathy, Bandaru (U.C.L.), (*Badvel*); Smt. Rukmini Devi, B. (U.C.L.), (*Hindupur* (R)); Smt. Sada Laxmi, T. N. (U.C.L.), (*Kamareddi* (R)); Sambhu Reddi, Narreddi (U.C.L.), (*Kamalapuram*); Sanjeeva Reddy, Anam (U.C.L.), (*Atmakur*); Sanjiva Reddy, N. (Cong.), (*Kalahasti*); Sanjivayya, D. (U.C.L.), (*Yemmiganur* (R)); Sankaraiah, Basava Reddi (C.D.F.), (*Buchireddipalem*); Smt. Santabai (U.C.L.), (*Kalwakurthi*); Santhappa, K. (U.C.L.), (*Dharmavaram* (R)); Sanyasi Naidu, T. (U.C.L.), (*Gajapathinagaram*); Satyanarayana, C. (Swa.), (*Shermuhammadapuram*); Satyanarayana, P. (C.D.F.), (*Samalkot*); Satyanarayanamurthy, A. (U.C.L.), (*Palacole*); Satyanarayana Raju, Mudundi (U.C.L.), (*Cheepuripalli*); Satyanarayana Rao, Bommakanti (U.C.L.), (*Madhira*); Satya Reddy, D. K. (Ind.), (*Gadwal*); Smt. Seeta Kumari, Y. (U.C.L.), (*Banswada*); Seetharamaswamy, Kotagiri (U.C.L.), (*Bobbili*); Seethiah Gupta, Kothuru (U.C.L.), (*Mushirabad*); Seshadri, N. C. U.C.L.), (*Rayadrug*); Sesha Reddy, B. P. (U.C.L.), (*Dhone*); Shahabuddin Ahmed Khan (U.C.L.), (*Yakutpura*); Smt. Shahjehan Begum (U.C.L.), (*Shadnagar*); Sheik Moula Sahib (U.C.L.), (*Udayagiri*); Singaraiah, Patra (U.C.L.), (*Kalahasti* (R)); Sivarama Prasad Bahadur, Srimantha Raja Yarlagadda (U.C.L.), (*Divi*); Sreenivasa Rao (U.C.L.), (*Bodhan*); Sreenivasa Rao, Namburi (U.C.L.), (*Tadepalligudem* (R)); Sreerama Murthy, Bhattam (U.C.L.), (*Vizianagaram*); Sreeramamurthy, Donda (U.C.L.), (*Madugula*); Sreeramulu, Putumbaka (U.C.L.), (*Duggirala*); Sriranganaikulu, Chelikani (U.C.L.), (*Vanukuru*); Subba Rao, Battina (U.C.L.), (*Burugupudi* (R)); Subba Rao Kallur (U.C.L.), (*Hindupur*); Subbarayudu, Challa (U.C.L.), (*Tadpatri*); Subba Reddi, A. C. (U.C.L.), (*Nellore*); Subba Reddi, B. V. (U.C.L.), (*Koilkuntla*); Sudersana Rao, Kastamsetti (U.C.L.), (*Palwancha*); Smt. Sumitra Devi (U.C.L.), (*Jubilee Hills* (R)); Sundarayya, Puchalapalli (C.D.F.), (*Gannavaram*); Suryanarayana, Gantlana (U.C.L.), (*Gajapathinagaram* (R)); Suryanarayana, Pasa-gada (Ind.), (*Srikakulam*); Suryanarayana Raju, Raja Sagi (U.C.L.), (*Narasapatnam*); Thimmaiah Setty, T. G. (U.C.L.), (*Kosigi*); Thimma Reddy, C. P. (U.C.L.), (*Sirvel*); Thimma Reddy, P. (U.C.L.), (*Vayalpad*); Tirupathi Rao, Remella (U.C.L.), (*Pallipalem*); Smt. Vani Ramana Rao, Pithala (U.C.L.), (*Bhadrachelam* (R)); Vasudeo Krishnaji Naik (U.C.L.), (*Sultanbazar*); Veeraraghavulu, Taneti (U.C.L.), (*Kovvur* (R)); Veeriah, Gundam (U.C.L.), (*Narsapur*); Vemareddy, K. V. (U.C.L.), (*Kadiri*); Vemayya, Swarna (C.D.F.), (*Buchireddipalem* (R)); Venkaiah, Nagineni (Swa.), (*Addanki*); Venkataraju, Mantena (U.C.L.), (*Bapatla*); Venkataswamy, G. (U.C.L.), (*Sirpur* (R)); Venkata Krishna Prasad, Sakamuri (C.D.F.), (*Channur*); Venkata Narasimharao, Pamulaparthi (U.C.L.), (*Manthani*); Venkatrama Raju, Alluru (C.D.F.), (*Razole*); Venkata Ramanareddy, Dirisala

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(U.C.L.), (*Darsi*); Venkata Ranga Reddy, Konda (U.C.L.), (*Shahabad*); Venkata Reddy, Gopavaram (N.P.), (*Nandyal*); Venkataratnam, Kakani (U.C.L.), (*Vuyyuru*); Smt. Venkataratnam, Nirukonda (U.C.L.), (*Burugupudi*); Venkat Reddy, L. (C.D.F.), (*Nalgonda*); Venkataramaiah, Nachu (U.C.L.), (*Bhimavaram*); Venkatramaiya, Nallapat (Swa.), (*Narasaraopet*); Venkataramayyai Alapati (U.C.L.), (*Tenali*); Venkatarama Naidu, N. (U.C.L.), (*Piler*); Venkata Reddi, Grandhi (U.C.L.), (*Narasapur*); Venkata Reddi, Kasim (U.C.L.), (*Nandipad*); Venkataramanappa, Poola (U.C.L.), (*Gorantla*); Venkatasivayya, Bandlamudi (Swa.), (*Martur*); Venkata Somayajulu, Chaganti (U.C.L.), (*Srungavarapukota*); Venkata Subba Rao, Durvasula (C.D.F.), (*Peddapuram*); Venkata Subba Reddi, T. N. (U.C.L.), (*Thamballapalle*); Venkata Surya Subbaraju, M. (U.C.L.), (*Kothapeta*); Venkatasubbayya, Pala (U.C.L.) (*Rajampet* (*R*)); Venkatasubrahmanyam, Adusumilli (Ind.), (*Gudivada*); Venkatasuryanarayana Raju, Chintalapati *alias* Sanyasiraj (U.C.L.), (*Yellamanchili*); Venkataswami Reddi, Padileti (U.C.L.), (*Venkatagiri*); Venkateswara Rao (U.C.L.), (*Medak*); Venkateswarlu, Pillalamarri (C.D.F.), (*Nandigama*); Venkatram Narsaiah, Errabelli (U.C.L.), (*Wardhannapet*); Venkatrama Reddy (U.C.L.), (*Kamareddy*); Venkatareddi, C. (C.D.F.), (*Miryalguda*); Vijaya Bhaskara Reddy, K. (U.C.L.), (*Yemmiganur*); Visweswara Rao, Vellanki (C.D.F.), (*Mylavaram*); Yella Reddy, Baddam (C.D.F.), (*Buggaram*); Yellamanda Reddy, G. (C.D.F.), (*Kanigiri*); Yeruku Naidu, Allu (U.C.L.), (*Salur*); J. T. Fernandez (*Nominated Anglo-Indian*).

A.P.P.—Andhra Praja Party; C.D.F.—Communist Democrat Legislature Front; Swa.—Swatantra; U.C.L.—United Congress Legislature Party.

ASSAM LEGISLATIVE ASSEMBLY

Constituencies: 91 (S.M. 77; D.M. 14); Seats: 105 (S.C. 5; S.T. 23); Electorate: 44,95,359 (Revised).

Speaker, Mahendra Mohan Choudhury.
Deputy Speaker, Rajendranath Barua.

An estimate of party position is given below: Congress 73; Praja Socialist Progressive Bloc 12; Communist Party of India 4; Independents 4; Tribal Union Parliamentary Party 8; R.C.P.I. 1.

Lalmawia (ST), (T.U.P. Party), (*Aijal East* (*R*)); Thanglura (ST), (Cong.), (*Aijal West* (*R*)); Khagendra Nath Barbaruah (R.C.P.I.), (*Amguri*); Emerson Momin (T.U.P. Party), (*Baghmara*); Bimala Prasad Chaliha (Cong.), (*Badarpur*); Biswadev Sarma (Cong.), (*Balipara*); Mohi Kanta Das (Cong.), (*Barchalla*); Srihari Das (SC), (P.S.P. Bloc), (*Barpeta*); Mahadev Das (SC), (Cong.), (*Barpeta* (*R*)); Jahanuddin Ahmed (P.S.P. Bloc), (*Bilasipara*); Kamakhya Prasad Tripathi (Cong.), (*Biswanath*); Indreswar Khound (Cong.), (*Bogdung*); Radha Charan Chaudhury (Cong.), (*Boko*); Maham Singh, (Cong.), (*Cherrapunji* (*R*)); Nalindra Sangma (Ind.), (*Dainadubi*); Md. Matlebuddin (P.S.P. Bloc), (*Dalgaon*); Narendranath Sarma (Cong.), (*Dergaon*); Ram Nath Das (SC), (Cong.), (*Dergaon* (*R*)); Omeo Kumar Das (Cong.), (*Dhekiajuli*): Nurul Islam (Cong.), (*Dhing*); Tamijuddin Pradhani (Cong.), (*Dhubri*); Romesh Chandra Barua (Cong.), (*Dibrugarh*); Dwijesh Chandra Deb Sarma (Cong.), (*Digboi*); Molia Tati (Cong.), (*Doom-Dooma*); Gaurisankar Bhattacharyya (C.P.I.), (*Gauhati*); Prakritish Chandra Barua (P.S.P. Bloc), (*Gauripur*); Khagendra Nath Nath (Cong.), (*Goalpara*); Hakim Chandra Rabha (Cong.), (*Goalpara* (*R*)); Bishnulal Upadhyaya (Cong.), (*Gohpur*); Rajendranath Barua (Cong.), (*Golaghat*); Bhuban Chandra Pradhani (Cong.), (*Golakganj*); Mathias Tudu (P.S.P. Bloc), (*Gossaigaon*); Abdul Matlib Majumdar (Cong.), (*Hailakandi*); Mahendra Mohan Choudhury (Cong.), (*Hajo*); Maulvi Rahimuddin Ahmed (Cong.), (*Jamunamukh*); Fakhruddin Ali Ahmed (Cong.), (*Jania*); Debeswar Sarma (Cong.), (*Jorhat*); Mohidhar Pegoo (ST), (Cong.), (*Jorhat* (*R*)); Larsingh Khyriem (ST), (T.U.P. Party), (*Jowai* (*R*)); Jog Kanta Barua (Cong.), (*Jaipur*); Lila Kanta Borah (Cong.), (*Kaliabar*); Sarat Chandra Goswami (Cong.), (*Kamalpur*); Ranendra Mohon Das (Cong.), (*Karimganj North*); Mahmud Ali, (*Karimganj South*); Hem Chandra Chakravarty (Cong.), (*Katigora*); Gouri Shankar Roy (Cong.), (*Katlicherra*); Shrimati Komol Kumari Barua (Cong.), (*Katonigaon*); Rupnath Brahma (ST), (Cong.), (*Kokrajhar* (*R*)); Swami Krishnananda Brahmachari (Cong.), (*Kokrajhar*); Motiram Bora (Cong.), (*Laharighat*); Dhirsingh Deuri (ST) (Cong.), (*Laharighat* (*R*)); Shrimati Lily Sengupta (Cong.), (*Lahowal*); Ram Prasad Chaubay (Cong.), (*Lakhipur*); Ram Nath Sarma (Cong.), (*Lumding*); C. Chunga, (*Lungleh* (*R*)); Dandi Ram Datta (Cong.), (*Mangaldai*); Kobad Hussain Ahmed (Cong.), (*Mankachar*); Dandeswar Hazarika (Cong.), (*Marangi*); Sai Sai Terang (ST), (Cong.), (*Mikir Hills East* (*R*)); Chatrasing Teron (ST), (Cong.), (*Mikir Hills West* (*R*)); Shrimati Padma Kumari Gohain (Cong.), (*Moran*); Lalit Kumar Daley (ST), (Cong.), (*Moran* (*R*)); Prabhat Narayan Chaudhury (Ind.), (*Nalbari East*); Tarun Sen Deka (C.P.I.), (*Nalbari West*); Tankeswar Chetia (Cong.), (*Nazira*); J. Siem (Ind.), (*Nongpoh* (*R*)); Henry Cotton (ST), (T.U.P. Party), (*Nongstoin* (*R*); Hamdhan Mohan Haplangbar (ST), (Cong.), (*North Cachar Hills* (*R*)); Mohananda Bora (Cong.), (*North Lakhimpur*); Karka Chandra Doley (ST), (Cong.), (*North Lakhimpur* (*R*)); Hareswar Das (Cong.), (*North Salmara*); Dr. Ghanashyam Das (SC) (Cong.), (*North Salmara* (*R*)); Phoni Bora (C.P.I.), (*Nowgong*); M. N. Hazarika (SC), (Cong.), (*Nowgong* (*R*)); Radhika Ram Das (Cong.), (*Palasbari*); Hiralal Patwari (P.S.P.), (*Panery*); Pakhirai Deka (S.T.) (P.S.P.), (*Panery* (*R*)); Bishwanath Upadhyaya (P.S.P.), (*Patharkandi*); Gopesh Namasudra (SC) (C.P.I.), (*Patharkandi* (*R*)); Surendra Nath Das (ST), (Cong.), (*Patachar-Kuchi*); Birendra Kumar Das (ST), (P.S.P.), (*Patachar-Kuchi* (*R*)); Williamson A. Sangma (T.U.P. Party), (*Phulbari*); Hareswar Goswami (P.S.P.), (*Rampur*); Baikuntha Nath Das (ST), (Cong.), (*Rangiya* (*R*)); Siddhi Nath Sarma (Cong.), (*Rangiya*); Maulavi Mohammed Idris (Cong.), (*Rupohihat*); Devendra Nath Hazarika (Cong.), (*Saikhowa*); Shrimati Usha Barthakur (Cong.), (*Samaguri*); Moinul Haque Chowdhury (Cong.), (*Silchar East*); Brojo Mohon Roy (T.U.P. Party), (*Shillong*); Shrimati Jyotsna Chanda (Cong.), (*Silchar West*); Nanda Kishore Sinha (Cong.), (*Sonai*); Girindranath Gogoi (Cong.), (*Sibsagar*); Purnananda Chetia (Cong.), (*Sonari*); Ghanashyam Talukdar (Ind.), (*Sorbhog*); Sahadat Ali (P.S.P.), (*South Salmara*); Tajuddin Ahmed (P.S.P.), (*Tarabari*); Manik Chandra Das (Cong.), (*Tengakhat*); Harinarayan Barua (Cong.), (*Teok*); Kamala Prasad Agarwalla (Cong.), (*Tezpur*); Durgeswar Saikia (Cong.), (*Thowra*); Radha Kishen Khemka (Cong.), (*Tinsukia*); Sarbeswar Bordoloi (Cong.), (*Titabar*); Mody K. Marak (T.U.P. Party), (*Tura*); Tajamul Ali Barlaskar (Cong.), (*Udarband*).

Cong.=Congress; C.P.I.=Communist Party of India; Ind.=Independents.

P.S.P. Bloc = Praja Socialist Progressive Bloc.

T.U.P. Party = Tribal Union Parliamentary Party.

BIHAR LEGISLATIVE COUNCIL

Seats: 96.

Chairman Rai Brijraj Krishna. *Dy. Chairman:* Vacant. *Secretary:* Srichand Lall. *Asst. Secretary:* R. N. Thacore.

Assembly Constituency (34)

Baburam Hemrom (U.O.B.); Basanta Chandra Ghose (P.S.P.); Kumar Ganganand Singh (Cong.); Jageshwar Prasad 'Khalish'; Abdul Sami Nadvi; Theodore Bodra; Mungeri Lal; Sardar Harihar Singh (Ind.); Sidheshwari Prasad Sinha; Shrimati Rampyari Devi (Cong.); Jafar Imam (Cong.); Jitu Lal (Cong.); Shrimati Ahmadi Sattar (Cong.); Nurullah (Cong.); Radha Govind Prasad (Cong.); Anisur Rahman (Cong.); Smt. Abhirama Devi (Cong.); Kusheshwar Sinha (Cong.); Ram Shekhar Sinha (Cong.); Shree Krishna Singh (Cong.); Kamta Prasad Sinha (Cong.); Shyama Prasad Sinha (Cong.); Sitaram Jagatramka (U.O.B.); Brajendra Narain Yadav (Cong.); Sitaram Yadav (Cong.); Ramraj Jajware (Cong.); Joel Lakra (Cong.); Pasupati Singh 'Prabal' (Cong.); Syed Fazlur Rahman (Cong.); Chandreshwar Narain Prasad Sinha (Cong.); Mukteshwar Sinha (Cong.); Budhan Rai Verma (U.O.B.); Bhagwat Prasad (Cong.); Krishna Mohan Pyare Sinha (Cong.).

Patna Division Local Authorities (8)

Mahadeonand Gir (Ind.); Ram Bilas Sharma (Cong.); Ritlal Prasad Verma (Cong.); Ram Das (Ind); Mathura Prasad Singh (Cong.); Smt. Parvati Devi (Cong.); Syed Nazir Haidar (Cong.); Deva Sharan Sinha (Cong.).

Patna Division Teachers (2)

Jagdish Sharma; Kailash Sinha.

Patna Division Graduates (3)

Krishna Bahadur (Cong.); Purnendu Narayan Sinha (U.O.B.); Ranendra Nath Roy (Ind.).

Tirhut Division Local Authorities (8)

Brajendra Bahadur Sinha (Cong.); Kumar Kalyan Lal (Cong.); Lakshmi Kant Jha (Cong.); Braj Bihari Prasad (Cong.); Krishna Nandan Sahay (Ind.); Smt. Kishori Devi (Cong.); Kapildeo Narain Singh (Cong.); Janki Nandan Singh (U.O.B.).

Tirhut Division Teachers (1)

Binda Charan Verma.

Tirhut Division Graduates (2)

Sawalia Bihari Lal Verma (Cong.); Lokesh Nath Jha (Cong.).

Bhagalpur Division Local Authorities (9)

Beer Narain Chand (Cong.); Jageshwar Mandal (Cong.); Pirthi Chand Kisku; Jamuna Prasad Singh (Cong.); Mayanand Thakur (Cong.); Qudratullah (Cong.); Bidyakar Kavi (Cong.); Bhola Mandal (Cong.); Radha Krishna Prasad Singh (Cong.).

Bhagalpur Division Teachers (3)

Bindhyeshwar Mishra; Goloke Bihari Chowdhury; Tapaswi Nath Jha.

Bhagalpur Division Graduates (2)

Ravaneshwar Mishra (Cong.); Harendra Prasad Jha (Cong.).

Chota-Nagpur Division Teachers (2)

Mahendra Prasad; Sasanka Sekhar Ghosh.

Chota-Nagpur Division Graduates (1)

Anil Kumar Sen (U.O.B.).

Chota-Nagpur Division Local Authorities (7)

Abdur Razzaque Ansari (Cong.); Braj Mohan Agarwalla (Cong.); Subodh Kumar Sen (U.O.B.); Hari Krishna Lal (Cong.); Devkinandan Prasad (Cong.); Raghunandan Singh Choudhary (Cong.); Samu Charan Tubid (Cong.); Ram Lakhan Pandey (Cong.); Ram Prakash Lal (Cong.).

Nominated (12)

Mohan Lal Mahto 'Viyogi' (Cong.); Jagannath Prasad Mishra (Cong.); Dr. Tridib Nath Banarji (Ind.); Lady Anis Imam (Ind.); Dr. B. R. Misra (Ind.); Gauri Shankar Dalmia (Cong.); B. P. Sinha; Smt. Kamal Kamini Prasad; Shiva Chandra Sharma; Rai Brijrai Krishna (Cong.); Smt. Savitri Devi (Ind.); Jaideva Prasad (Cong.).

Note:—U.O.B. = United Opposition Bloc.

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BIHAR LEGISLATIVE ASSEMBLY

Electorate : 1,94,90,298 ; Constituencies : 264 (S.M. 210 ; D.M. 54) ; Seats 319 (including one nominated). (S.C. 40 ; S.T. 32).

Speaker, V. P. Varma.

Deputy Speaker, Prabhunath Singh.

An estimate of party position is given below : Congress 207 ; Praja Socialist Party 31 ; Communist Party of India 6 ; Jharkhand Party 37 ; Independents 7 ; Socialist Party 1 ; Jan. Congress 7 ; Gantantra Parishad 1 ; Janata Party 18 ; Vacant 3.

Braj Nandan Sharma (Ind.), (*Adapur*); Yadunandan Jha (Cong.), (*Alamnagar*) ; Sital Prasad Bhagat (Cong.), (*Amarpur*) ; Md. Ismail (Ind.), (*Amaur*) ; Ziaur Rahman (Cong.), (*Araria*) ; Rang Bahadur Prasad (Cong.), (*Arrah*) ; Ambika Singh (Cong.), (*Arrah Muffasil*); Budhan Mehta (Cong.), (*Arwal*) ; Nandkishore Prasad Singh (JP), (*Asthawan*) ; Shivaratan Singh (Cong.), (*Atri*) ; R. P. Singh (Cong.), (*Aurangabad*) ; Baidyanath Prasad Singh (PSP), (*Bachhwara*) ; Kedar Pandey (Cong.), (*Bagaha*) ; Narsinh Baitha (SC) (Cong.), (*Bagaha (R)*) ; Kailashpati Singh (JP), (*Bagodar*) ; Lakhan Lal Kapoor (PSP), (*Bahadurganj*) ; Maheshkant Sharma (Cong.), (*Bahera East*) ; Smt. Krishna Devi (Cong.), (*Bahera South*) ; Harinath Mishra (Cong.), (*Bahera West*) ; Trivikram Deo Narayan Singh (Ind.), (*Baikunthpur*) ; Abul Ahad Mohammad Noor (Cong.), (*Baisi*) ; Brahamdeo Narayan Singh (Cong.), (*Balia*) ; Mohammad Salahuddin Choudhry (Cong.), (*Bakhtiarpur*) ; Smt. Uma Pandey (Cong.), (*Baniapur*) ; Smt. Bindhyabasini Devi (Cong.), (*Banka*) ; Abdul Ghafoor (Cong.), (*Barauli*) ; Ram Yatan Singh (Cong.), (*Barh*) ; Lalan Prasad Sinha (Cong.), (*Barhampur*) ; Qamrul Haque (Cong.), (*Barharia*) ; Rameshwar Prasad Mahtha (CNSJP), (*Barhi*) ; Shreedhar Narain (Cong.), (*Barachatti*); Basudeo Pd. Sinha (Cong.), (*Barari*) ; Babulal Tudu (ST) (Jarkhand), (*Barhait (R)*) ; Harihar Mahto (Cong.), (*Bariarpur*) ; Smt. Sashank Manjari (CNSJP), (*Barkagaon*) ; Ramchandra Prasad Sahi (Cong.), (*Baruraj*) ; Sabhapati Sinha (PSP), (*Basantpur East*) ; Krishna Kant Singh (Cong.), (*Basantpur West*) ; Saryu Prasad Sinha (Cong.), (*Begusarai*) ; Medni Paswan (SC) (Cong.), (*Begusarai (R)*) ; Ramanand Singh (PSP), (*Belsand*) ; Shubhchandra Mishra (Cong.), (*Benipatti East*) ; Chhote Prasad Singh (Cong.), (*Benipatti West*) ; Brajeshwar Prasad Singh (JP), (*Bermo*) ; Jaynarain Prasad (Cong.), (*Bettiah*) ; Jagannath Prasad Swatantra (SC) (Cong.), (*Bettiah (R)*) ; Ali Waris Khan (Cong.), (*Bhabua*) ; Dularchand Ram (SC) (Cong.), (*Bhabua (R)*) ; Satyendra Narayan Agrawal (Cong.), (*Bhagalpur*) ; Jadunandan Tewari (Cong.), (*Bhawanathpur*) ; Ramdeni Chamar (SC) (Cong.), (*Bhawanathpur (R)*) ; Rambali Pandey (PSP.), (*Bhore*) ; Chandrika Ram (SC) (Cong.), (*Bhore (R)*) ; P. N. Roy (CPI), (*Bihpur*) ; Washiuddin Ahmed (Cong.), (*Bihar North*) ; Girwardhari Singh (Cong.), (*Bihar South*) ; Smt. Manorma Devi (Cong.), (*Bikram*) ; Smt. Manorma Pandey (Cong.), (*Bikramganj*) ; Jainarain Jha Vineet (Cong.), (*Biraul*) ; Smt. Santi Devi (Cong.), (*Bodh Gaya*) ; Jetha Kishku (ST) (Jharkhand), (*Borio (R)*) ; Kapildeo Singh (PSP), (*Burhee*) ; Sheokumar Thakur (Cong.), (*Buxar*) ; Sukhdeo Manjhi (ST) (Jharkhand), (*Chaibasa (R)*) ; Phabianus Oraon (ST) (Jharkhand), (*Chainpur (R)*) ; Shyamal Kumar Pasari (Jharkhand), (*Chakradharpur*) ; Hari Charan Soy (ST) (Jharkhand), (*Chakradharpur (R)*) ; Deogan Prasad Singh (Cong.), (*Chandi*) ; Dhananjey Mahato (Cong.), (*Chandil*) ; Jatindra Nath Rajak (SC) (Ind.), (*Chandil (R)*) ; Smt. Ketaki Devi (Cong.), (*Chanpatia*) ; Jaglal Chaudhary (SC) (Cong.), (*Chapra (R)*) ; Prabhunath Sinha (Cong.), (*Chapra*) ; Hardayal Sharma (Cong.), (*Chas*) ; Shaligram Singh (JP), (*Chatra*) ; Nand Kishore Singh (JP), (*Chauparan*) ; Ghanshyam Singh (Cong.), (*Chautham*) ; Syed Maqbool Ahmed (Cong.), (*Colgong*) ; Bhola Nath Das (SC) (Cong.), (*Colgong (R)*) ; Vacant, (*Dalsingh Sarai*) ; Baleshwar Ram (SC) (Cong.), (*Dalsingh Sarai (R)*) ; Umeshwari Charan (PSP), (*Daltonganj*) ; Rajendra Prasad Singh (JP), (*Darauli*) ; Ram Basawan Ram (SC) (Cong.), (*Darauli (R)*) ; Sayeedul Sekh Haque (Cong.), (*Darbhanga Central*) ; Hirdyanarain Choudhary (Cong.), (*Darbhanga North*) ; Babuye Lal Mahto (SC) (Cong.), (*Darbhanga South (R)*) ; Janki Raman Prasad Mishra (Cong.), (*Darbhanga South*) ; Sayeed Ahmad Quadri (Cong.), (*Daudnagar*) ; Krishnaraj Sinha (Cong.), (*Dawath*) ; Basawan Sinha (PSP), (*Dehri*) ; Smt. Shailbala Roy (Cong.), (*Deoghar*) ; Mangu Lal Das (SC) (Cong.), (*Deoghar (R)*) ; Masoodur Rahman (Cong., (*Dhaka*) ; Jogendra Prasad (PSP), (*Dhanaha*) ; Vacant, (*Dhanbad*) ; Laxmi Narain Sudhansu (Cong.), (*Dhamdaha*) ; Bhola Shashtri Paswan (SC) (Cong.), (*Dhamdaha (R)*) ; Molvi Saminuddin (Cong.), (*Dhuraiya*) ; Jagat Narain Lall (Cong.), (*Dinapur*) : Ram Ashish Singh (PSP), (*Dinara*) ; Sanath Rout (Jharkhand), (*Dumka*) ; Binjamin Hansda (ST) (Jharkhand), (*Dumka (R)*) ; Ganga Prasad Singh (Cong.), (*Dumraon*) ; Shiv Mahadev Prasad (PSP), (*Fatwa*) ; Keshav Prasad (SC) (CNSJP), (*Fatwa (R)*) ; Sital Prasad Gupta (Cong.), (*Forbesganj*) ; Dumar Lal Baitha (SC) (Cong.), (*Forbesganj (R)*); Smt. Rajeshwari Saroj Dass (Cong.), (*Garhwa*) ; Ramjaipal Singh Yadav (PSP), (*Garkha*) ; Nageshwar Rai (JP), (*Gawan*) ; Gopal Rabidas (SC) (JP), (*Gawan (R)*) ; Sardar Mohammad Latifur Rahman (Cong.), (*Gaya*) ; Hardeo Singh (Cong.), (*Gaya Muffasil*) ; Shishir Kumar Mahato (Jharkhand), (*Ghatsila*) ; Shyam Charan Murmu (ST) (Jharkhand), (*Ghatsila (R)*) ; Mangal Prasad Yadav (Cong.), (*Ghorasahand*); Kamakhya Narain Singh (JP), (*Giridih*) ; Hemlal Pragnait (ST) (JP), (*Giridih (R)*) ; Dhrub Narain Mani Tripathi (Cong.), (*Gobindganj*) ; Manilal Yadav (Jharkhand), (*Godda*) ; Chunka Hembrom (ST) (Jharkhand), (*Godda (R)*) ; Satyendra Narain Sinha (Cong.), (*Gopalganj*) ; Mani Ram Singh (CPI), (*Gopalpur*) ; Sukra (Bhagat) Oraon (ST) (Jharkhand), (*Gumla (R)*) ; Dip Narain Sinha (Cong.), (*Hajipur*) ; Smt. Parbati Debi (Cong.), (*Harsidhi*) ; Basant Narain Singh (JP), (*Hazaribagh*; Lalsingh Tyagi (Cong.), (*Hilsa*) ; Smt. Rajkumari Devi (Cong.), (*Hisua*) ; Ambika Prasad Singh (Ind.), (*Imamganj*) ; Mahabir Chaudhri (SC) (Cong.), (*Jahanabad (R)*) ; Fida Hussain (Cong.), (*Jahanabad*) ; Ramkrishna Mahto (SC) (Cong.), (*Jainagar (R)*) ; Deonarain Yadav (Cong.), (*Jainagar*) ; Seikh Tahir Hussain (Cong.), (*Jale*) ; Jogendra Mahto (Cong.), (*Jamalpur*) ; Kedar Das (CPI), (*Jamshedpur*) ; Satrughna Besra (Jharkhand), (*Jamtara*) ; Indra Narain Singh (JP), (*Jamua*) ; Bhola Manjhi (SC) (CPI), (*Jamui (R)*) ; Hari Prasad Sharma (Cong.), (*Jamui*) ; Bhagwat Murmu (ST) (Cong.),* (*Jhaja (R)*); Chandreshekher Singh (Cong.),* (*Jhaja*) ; Deochandra Jha (Cong.); (*Jhanjharpur*) ; V. G. Gopal (Cong.), (*Jugsalai*) ; Mohiuddin Mokhtar (Cong.), (*Kadwa*); Yamuna Prasad Tripathy (Cong.), (*Kanti*) ; Babulal Manjhi (ST) (Cong.), (*Katihar (R)*) ; Sukhdeo Narain Singh (Cong.), (*Katihar*) ; Mansa Murmu (ST) (Cong.), (*Katoria (R)*) ; Raghvendra Narain Singh (Cong.), (*Katoria*) ; Rambriksh Benipuri (PSP), (*Katra North*) ; Nitishwar Prasad Sinha (Cong.), (*Katra South*) ; Smt. Prabhawati Gupta (Cong.), (*Kesaria*) ; Kedarnarayan Singh Azad (Cong.), (*Khagaria*) ; Sada Mishri (SC) (Cong.), (*Khagaria (R)*) ; Sakoor Ahmad (Cong.), (*Khajauli*) ; Narendra Prasad Singh (Cong.), (*Kharagpur*) ; Bir Singh Munda (ST) (Jharkhand), (*Kunti (R)*) ; Abdul Haiyat (Cong.), (*Kishanganj*); Baidya Nath Mehta (Cong.), (*Kishanpur*); Ganauri Prasad Singh (Cong.), (*Koch*) ; Dr. G P. Tripathy (JP), (*Kodarma*) ; Sushil Bage (ST) (Jharkhand), (*Kolebira (R)*) ; Vachaspati Sharma (Cong.), (*Kuchaikot*) ; Kameshwar Sharma (Cong.), (*Kurtha*) ; Laliteshwar Prasad Sahi (Cong.), (*Lalganj North*) ; Birchandra Patel (Cong.), (*Lalganj South*) ; Lal Jagdhatri Nath Sah Deo (JP), (*Latehar*) ; John Munjni (ST) (JP), (*Latehar (R)*) ; Smt. Ramdulari Shashtri (Cong.), (*Laukaha*) ; Subh Narain Prasad (Cong.), (*Lauria*) ; Ram Krishna Ram (SC) (JP), (*Lesliegaj (R)*) Rajkishore Singh (Cong.) (*Lesliegaj*) ; Ramcharan Kisku (ST) (Jharkhand), (*Littipara (R)*) ; Prittam Kujur (ST) (Jharkhand), (*Lohardaga (R)*) ; Radhanandan Jha (Cong.), (*Madhaipur*) ; Bhupendra Narayan Mandal (Soc.), (*Madhipura*) ; Ruplal Rai (Ind.), (*Madhuban*) ; Arjun Prasad Singh (Cong.), (*Madhubani East*) ; Ramakant Jha (PSP), (*Madhubani West*); Mahendra Mahto (PSP), (*Mahagama*) ; Smt. Anusuya Devi (Cong.), (*Maharajganj*) ; Smt. Banarsi Devi (Cong.), (*Mahnar*) ; Shivanandan Ram (SC) (Cong.), *Mahua (R)*); Vindhyeshwari Prasada Varma (Cong.), (*Mahua*); Saran Balmuch (ST) (Jharkhand), (*Majhgaon (R)*); Mitheleshwar Prasad Sinha (Cong.), (*Makhdumpur*); Ignes Kujur (ST) (Jharkhand), (*Mandar (R)*) ; Ramvilas Prasad (Jharkhand), (*Mandar*); Moti Ram (JP), (*Mandu*); Sribhagwan Singh (CPI) (*Maner*); Smt. Parvati Devi (Cong.), (*Manihar*) ; Sanatan Samad (ST) (Jharkhand), (*Manjari (R)*); G. Tiwari (Cong.), (*Manjhi*); Lopo Deogam (Jharkhand), (*Manoharpur*); Devi Lal Ji (PSP), (*Marhaura*); Smt. Rajkumari Devi (*Mashrakh South*) ; Smt. Saraswati Chaudhury (SC) (Cong.), (*Masaurhi (R)*) ; Nawal Kishore Sinha (Cong.), (*Masaurhi*) ; Mrityunjaya Singh (PSP), (*Mashrakh North*) ; Janak Singh (Cong.), (*Minapur*) ; Janardan Sinha (Cong.), (*Mirganj*) ; Badri Singh (PSP), (*Mohania*) ; Smt. Shanti Devi (Cong.), (*Mohiuddinnagar*) ; Jagdish Narain Singh (Cong.), (*Mokamah*) ; Nirapad Mukherjee (Cong.), (*Monghyr*) ; Smt. Shakuntala Devi (Cong.), (*Motihari*) ; Bigu Ram (SC) (Cong.), (*Motihari (R)*); Sheonandan Prasad Mondal (Cong.), (*Murliganj*) ; Mahamaya Prasad Sinha (PSP), (*Muzaffarpur*) ; Ramjanam Ojha (PSP), (*Muzaffarpur Muffasil*) ; Deodhari Ram (SC) (Cong.), (*Nabinagar (R)*); Priyabrat Narain Singh (PSP), (*Nabinagar*) ; Umeshwar Prasad (Jharkhand), (*Nalla*) ; Babulal Marandi (ST) (Jharkhand), (*Nalla (R)*) ; Ramkhelawan Singh (Cong.), (*Naubatpur*) ; Manzoor Ahmad (Cong.), (*Nawada*) ; Raja Ram Arya (Cong.) (*Nawanagar*) ; Lakshmi Narain Manjhi (ST) (Cong.), (*Nirsa (R)*) ; Ram Narain Sharma (Cong.), (*Nirsa*) ; Jagdish Prasad (Cong.), (*Nokha*) ; Smt. Shanti Devi (Cong.), (*Palasi*) ; Chanderdeo Prasad Varma (PSP), (*Paliganj*) ; Jitu Kisku (ST) (Cong.), (*Pakaur (R)*) ; Smt. Rani Jyotirmoye Debi (Cong.), (*Pakaur*) ; Smt. Laxmi Devi (Cong.), (*Parbatta*) ; Daroga Prasad Roy (Cong.), (*Parsa*) ; Chandu Ram (SC) (Cong.), (*Paru (R)*) ; Nawal Kishore Sinha (Cong.), (*Paru*) ; Bibhishan Kumar (Cong.), (*Patahi*) ; Manzur Ahsan Azazi (Cong.), (*Patepur*); Smt. Zohra Ahmad (Cong.), (*Patna East*) ; Badrinath Verma (Cong.), (*Patna South*) ; Ramsaran Sai (Cong.), (*Patna West*) ; Rashik Lal Yadav (Cong.), (*Phulparas*) ; Ganganath Mishra (CPI), (*Pipra*) ; Nagina Dusadh (SC) (Cong.), (*Piro (R)*) ; Smt. Sumitra Debi (Cong.), (*Piro*) ; Ramjanam Mahto (Cong.), (*Pirpainti*) ; Supai Soren (ST) (Jharkhand), (*Potka (R)*) ; Khublal Mahto (Cong.), (*Pratapganj*) ; Smt. Sudama Chaudhury (Cong.), (*Pupri North*) ; Devendra Jha (PSP), (*Pupri South*) ; Kamaldeo Narain Sinha (Cong.), (*Purnea*) ; Sarjoo Prasad Sinha (Cong.), (*Rafiganj*) ; Haribansh Narain Sinha (Cong.), (*Raghopur*) ; Ramdeo Sinha (PSP), (*Raghunathpur*) ; Ramswaroop Prasad Yadava (Cong.), (*Rajauli*) ; Baldeo Prasad (SC) (Cong.), (*Rajgrih (R)*) ; Shyamsunder Prasad (CNSJP), (*Rajgrih*) ; Binodanand Jha (Cong.), (*Rajmahal*) ; Sukhu Murmu (ST) (Cong.), (*Ramgarh (R)*) (*Santhal Parganas Distt.*) ; Tara Prasad Bakshi (JP), (*Ramgarh*), (*Hazaribagh Distt.*) ; Rameshwar Manjhi (ST) (JP), (*Ramgarh (R)*) ; Dasarath Tiwari (PSP), (*Ramgarh*) (*Shahbad Distt.*) ; Jagannath Mahto (Jharkhand), (*Ranchi*) ; Ramratan Ram (SC) (Cong.), (*Ranchi (R)*) ; Chintamani Saran Nath Sahdeo (Jharkhand), (*Ranchi Sadar*); Ram Narayan Mandal (Cong.), (*Raniganj*) ; Radha Pandey (Cong.), (*Raxaul*) ; Mahabir Raut (Cong.), (*Rosera*) ; Tribeni Prasad Singh (Cong.), (*Runisaidpur*) ; Braj Bihari Singh (Cong.), (*Rupauli*) ; Sheo Pujan Rai (Cong.), (*Sahar*) ;

* Void.

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Smt. Vishweshwari Devi (Cong.), (*Saharsa*); Ram Gulam Chaudhary (SC) (Cong.), (*Sakra (R)*); Kapildeo Narain Sinha (Cong.), (*Sakra*); Jadunandan Sahay (Cong.), (*Samastipur West*); Sahdeo Mahte (Cong.), (*Samastipur East*); Jhaman Prasad (Cong.), (*Sandesh*); Kamdeo Prasad Singh (PSP), (*Sarath*); Ramadhar Dusadh (SC) PSP), (*Sasaram (R)*); Bipin Behari Sinha (PSP), (*Sasaram*); Aditya Pratap Deo Singh (GP), (*Seraikella*); Ramanand Tewary (PSP), (*Shahpur*); Mohammad Shahjehan (Cong.), (*Sherghati*); Smt. Leela Devi (SC) (Cong.), (*Sheikhpura (R)*); Shiva Shankar Sinha (Cong.), (*Sheikhpura*); Ram Swaroop Ram (SC) (PSP), (*Sheohar (R)*); Thakur Girijanandan Singh (Ind.), (*Sheohar*); Supai Murmu (ST) (Jharkhand), (*Shikaripara (R)*); Singheshwar Prasad Verma (PSP), (*Shikarpur*); Bhola Nath Bhagat (Cong.), (*Silli*); Fazlur Rahman (Cong.), (*Sikta*); Marshal Kullu (ST) (Jharkhand), (*Simdega (R)*); Smt. Shyam Kumari (SC) (Cong.), (*Singhia (R)*); Braj Mohan Prasad Singh (Cong.), (*Singhia*); Kirpa Oraon (ST) (Jharkhand), (*Sisai (R)*); Kuldip Narayan Yadav (Cong.), (*Sitamarhi North*); Ramsewak Saran (PSP) (*Sitamarhi South*); Smt. S. Devi (Cong.), (*Siwan*); Smt. Saraswati Devi (Cong.), (*Sultanganj*); Lahtan Choudhury (Cong.), (*Supaul*); Maheswara Prasad Narain Sinha (Cong.), (*Sursand*); Karyanand Sharma (CPI), (*Surajgarh*); Upendra Narain Singh (Cong.), (*Sonbarsa*) (*Saharsa Distt.*); Jageshwar Hajra (SC) (Cong.), (*Sonbarsa (R)*); Ramanand Rai (Cong.), (*Sonbarsa*) (*Muzaffarpur Distt.*); Ram Binod Singh (Ind.), (*Sonepur*); Karpuri Thakur (PSP), (*Tajpur*); Dhan Singh Munda (ST) (Jharkhand), (*Tamar (R)*); Basuki Nath Rai (Cong.), (*Tarapur*); Ramcharitra Sinha (Ind.), (*Teghra*); Sukhdeo Prasad Verma (Cong.), (*Tekari*); Rameshwar Manjhi (SC) (Cong.), (*Tekari (R)*); Ram Lal Chamar (SC) (Cong.), (*Topchanchi (R)*); Smt. Manorama Sinha (Cong.), (*Topchanchi*); Julius Munda (ST) (Jharkhand), (*Torpa (R)*); Yogeshwar Jha (Cong.), (*Tribeniganj*); Tulmohan Ram (SC) (Cong.), (*Tribeniganj (R)*); Ramchandra Prasad Sharma (Cong.), (*Tundi*); Chetu Ram (*Warsaliganj (R)*); D. N. Prasad (CPI), (*Warsaliganj*); Vacant, (*Warisnagar East*); Smt. Ram Sukumari Devi (Cong.), (*Warisnagar West*); Zawar Hussain (Cong.), (*Ziradei*).

Smt. Elsie Augier (nominated Anglo-Indian).

GUJARAT LEGISLATIVE ASSEMBLY

Speaker: Mansinhji Bhasaheb Rana. *Deputy Speaker:* Ambalal Shah. *Secretary:* Harkant Shukla.

Seats 132 (Congress 114; Opposition Legislature Group 14; Communists and Independents 4).

J. G. Vaidya (Cong.), (*Abdasa*); B. B. Mehta (Cong.), (*Ahmedabad*); Dr. Jivraj Narayan Mehta (Cong.), (*Amreli*); M. S. Patel (Cong.), (*Anand North*); Smt. Kamlaben Maganbhai Patel (Cong.), (*Anand South*); Premji Bhavanji Thakkar (Cong.), (*Anjar*); H. B. Mahida (Cong.), (*Ankleshwar*); B. K. Patel (Cong.), (*Bansda*); K. V. Mehta (Cong.), (*Bardoli*); Javantkumar Kashiram Pandya (Com.), (*Baria*); N. D. Chokshi (Cong.), (*Baroda City East*); B. G. Contractor (Cong.), (*Baroda City West*); Lalusing Kishorsing Rahewar (Ind.); H. R. Nakum (Cong.), (*Bhanvad*); V. G. Vora (Cong.), (*Bhavnagar*); K. R. Parmar (ST) (Cong.), (*Bhiloda (R)*); Harilal M. Gandhi (Cong.), (*Bhiloda*); Kundanlal Jashwantlal Dholakia (Cong.), (*Bhuj*); Shivabhai Ashabhai Patel (Cong.), (*Borsad North*); Madhavsingh Fulsingh Solanki (Cong.), (*Borsad South*); Chhaganbhai Laljibhai Gopani (Cong.), (*Botad*); Bhupendra Bhai Bapalal Modi (Com.), (*Broach*); Gopalji Dahyabhai Desai (Cong.), (*Bulsar*); Naranbhai Madhavbhai Rathod (SC) (Cong.), (*Bulsar (R)*); Hussain Yawar Najina Suni (Cong.), (*Cambay*); Khodabhai Sivabhai Patel (Cong.), (*Chanasma*); Bhagvanbhai Ranchhod Patel (Cong.), (*Chhota Udepur*); Smt. Shantaben Kalidas Patel (Cong.), (*Chikhli*); Shri. Urmilaben Premshankar Bhatt (Cong.), (*Chorasi*); Bhaijibhai Garbud Tadvi (Cong.), (*Chhota-Udaipur*); Ambalal Chhotalal Shah (Cong.), (*Dabhoi*); M. P. Vyas (Cong.), (*Dariapur Kazipur*); C. N. Patel (Ind.), (*Daskroi*); P. M. Joshi (Cong.), (*Deesa*); G. N. Parmar (SC) (Cong.), (*Deesa*); (*R*)); C. M. Amin (G.J.P.), (*Dehgam*); D. A. Patel (Cong.), (*Dhandhuka*); Rama Balu Jadhav (P.S.P.), (*Dharampur*); Maneklal Chunilal Shah (Cong.), (*Dholka*); Bhagwanji Bhanji Patel (Cong.), (*Dhoraji*); Bhupatbhai Virajlal Desai (Cong.), (*Dhrangadhra*); Jaysing Mansing Solanki (Cong.) (*Dohad*); Bhudarji Dosabhai Meshwania (Cong.), (*Dwarka*); Ganpatram Gokaldas Patel (Ind.), (*Ellis Bridge*); Pratapsing Motising (Cong.), *Godhra*); Shamprasad Rupshanker Vasavda (Cong.), (*Gomtipur*); Jesingji Govindbhai Parmar (SC) (Cong.), *Gomtipur (R)*); Vijaysinhji Bharatsinhji Chauhan (Cong.), (*Halol*); Trambaklal Mohanlal Dave (Cong.), (*Halvad*); Vadilal Premchand Mehta (Cong.), (*Idar*); Govindbhai Manabhai Bhambhi (Cong.), (*Idar*); Chhipa Karim Rahmanji (Cong.), (*Jamalpur*); Chhotalal Makanbhai Patel (Cong.), (*Jambusar*); Nanji Devji Sinojia (Cong.), (*Jamjodhpur*); Smt. Manjulaben Jayantilal Dave (Cong.), (*Jamnagar*); Akbarali Amiji Jasdanwala (Cong.), (*Jasdan*); Gajanan Bhavanishankar Joshi (Cong.), (*Jetpur*); Dalpatbhai Amarsinh Vasawa (Cong.), (*Jhagadia*); Narsinbhai Kanjibhai Hathila (Cong.), (*Jhalod*); Kantilal Premchand Shah (Cong.), (*Jodia*); Smt. Pushpaben Janardan Mehta (Cong.), (*Junagadh*); Chhotalal Maganlal Patel (G.J.P.), (*Kadi*); Ramanlal Nagjibhai Patel (Ind.), (*Kaira*); Shankarji Maganji Thakarda (Cong.), (*Kalol*); Jayanti Ghelabhai Dalal (G.J.P.), (*Kalupur*); Prabhubhai Dhanabhai Patel (Cong.), (*Kamrej*); Shantilal Sarupchand Shah (Cong.), (*Kankrej*); Nagindas Vadilal Gandhi (Ind.), (*Kapadwanj*); Smt. Maniben Chandubhai Patel (Cong.), (*Karjan*); Brahmakumar Ranchhodlal Bhatt P.S.W.), (*Khadia*); Natvarlal Maganlal Patel (Cong.), (*Kheralu*); Amulakhrai Kushalchand Khimani (Cong.), (*Kundla*); Devsibhai N. Patel (Cong.), (*Kunkavav*); Tapubhai Pragji Vaghela (SC) (Cong.), (*Kunkavav (R)*); Mathuradas Gordhandas Bhupta (Cong.), (*Kutiyana*); Smt. Sumitraben Hariprasad Bhatt (Cong.), (*Lathi*); Virsinghbhai Kanjibhai Nisarta (Cong.), (*Limkheda*); Shivprasad Bapulal Bhatt (Ind.), (*Lunawada*); Jaswantrai Nanubhai Mehta (P.S.P.), (*Mahuva*); Kanji Kachara Mhori (Cong.), (*Malia*); Jumakhlal Lakhmichand (Cong.), (*Mandvi (Kutch Dt.)*); Ramji Parbat Vikani (Cong.), (*Mangrol (Sorath Dt.)*); Haribhai Ranabhai Bhaskar (SC) (Cong.), (*Mangrol (R) (Sorath Dt.)*); Hitendra Kanaiyalal Desai (Cong.), (*Mangrol (Surat Dt.)*); Madhavlal Bhailal Shah (Cong.), (*Matar*); Popatlal Gulabdas Patel (Ind.), (*Mehsana*); G. D. Parmar (Cong.) (*Morvi*); U. V. Vadodia (Cong.), (*Nadiad North*); M. G. Desai (Ind.), (*Nadiad South*); D. B. Bhil (Cong.), (*Nandod*); Gordhan Chhipa Bhil (ST) (Cong.), (*Naswadi (R)*); Lalloobhai Makanji Patel (Cong.), (*Navsari*); Bhanabhai Dahyabhai Rathod (ST) (Cong.), (*Navsari (R)*); Jaswantlal Sobhagyachand Shah (Cong.), (*Padra*); Galbabhai Nanjibhai Patel (Cong.), (*Palanpur*); Dungarbhai Bhagwanbhai Parmar (ST) (Cong.), (*Palanpur (R)*); Smt. Kasturben Jorsinh Indrani (Cong.), (*Palitana*); Uttam Harji Patel (P.S.P.), (*Pardi*); Chimanlal Wadilal Shah (Ind.), (*Patan*); Laxmanbhai Samjibhai Bhankharia (SC) (Cong.), (*Patan (R)*); Manilal Prabhulal Parikh (Cong.), (*Petlad*); Maldevji Mandalikji Odedra (Cong.), (*Porbandar*); Smt. Ranjanben Madhukumar Vora (Cong.), (*Prantij*); Maneklal Nathalal Vakharia (Cong.), (*Radhanpur*); Jaysukhlal Karshanji Shah (Cong.), (*Rajkot*); Suragbhai Kalubhai Varu (Cong.), (*Rajula*); Vardhmanbhai Lalbhai Mehta (Cong.), (*Sanand*); Smt. Hiraben Lalchandbhai Ninama (Cong.), (*Santrampur*); Jashbhai Hathibhai Amin (Cong.), (*Savli*); Ramchandra Chhitabhai Solanki (SC) (Cong.), (*Savli (R)*); Dalabhai Raijibhai Parmar (Cong.), (*Shehra*); Mafatlal Motilal Patel (Cong.), (*Sidhpur*); Hamir Sarman Solanki (Cong.), (*Somnath*); Mavjibhai Chimabhai Chaudhari (Cong.), (*Songadh*); Ishwarlal Gulabbhai Desai (Cong.), (*Surat City East*); Mohd. Husein Abdul Samad Golandaz (Cong.), (*Surat City West*); Rasiklal Umedchand Parikh, (Cong.), (*Surendranagar*); Pethabhai Ganeshbhai Parmar (SC) (Cong.), (*Surendranagar (R)*); Devendrabhai Motibhai Desai (Cong.), (*Talaja*); Dahyalal Manilal Mehta (Cong.), (*Tharad*); Kishorsinh Chhagusinh Gohil (G.J.P.) (*Thasra*); Khushalbhai Morarbhai Dave (SC) (Cong.), (*Thasra (R)*); Ratubhai Mulshankar Adani (Cong.), (*Una*); Smt. Trilochana Ushakant Dholakia (Cong.), (*Vagad*); Mansinhji Bhasaheb Rana (Cong.), (*Vagara*); Karshanbhai Jerambhai Bharodia (Cong.), (*Vallabhipur*); Gangaram Chunilal Raval (Cong.), (*Vijapur North*); Bechardas Hargovandas Patel (Cong.), (*Vijapur South*); Dilipsinhji Pratapsinghji Desai (Ind.), (*Viramgam*); Parmanandas Jivanbhai Kathrecha (Cong.), (*Visavadar*); Ramniklal Trikamlal Maniar (Cong.). (*Visanagar*); Smt. Hiralaxmi Keshavlal Sheth (Cong.). (*Wankaner*); Bhaijibhai Garbud Tadvi (Cong.), (*Chhota-Udaipur*).

HIMACHAL PRADESH TERRITORIAL COUNCIL

Constituencies: 29 (S.M. 17; D.M. 12); Seats 41 + 2 (2 nominated members); S.C. 12; Electorate 6,72,630.

Chairman: Karam Singh.

Party position (estimate) in the Council: Congress: 24; Opposition: 19.

Gurditta Mal (Ind.), (*Bharmaur*); Bhagat Ram (Ind.), (*Bhatiyat*); Sant Ram Sant (Ind.), (*Bilaspur*); Karam Singh (Cong.), (*Chachiot*); Piru Ram (Cong.) (*Chachiot (R)*); Chatar Singh (Cong.), (*Chamba*); Vidyadhar (Cong.), (*Chamba (R)*); Vacant, (*Chauntra*); Gyan Singh (Cong.), (*Chini*); Bhagmal (Ind.), (*Chopal*); Chuni Lal (Ind.), (*Churah*); C. Ram (Ind.), (*Churah (R)*); Sant Ram (Cong.), (*Dharampur*); Har Govind Singh (Ind.), (*Gehrwin*); Santoo (Ind.) (*Gehrwin (R)*); Narottam Dutt (Ind.), (*Ghumarwin*); Sardaroo (Ind.), (*Ghumarwin*) (*R*)); Fateh Singh (Ind.), (*Joginder nagar*); Paras Ram (Cong.), (*Karsog*); Sadh Ram (Cong.), (*Kasumpti*); Puran Chand (S.C.F.), (*Kasumpti (R)*); Ram Lal (Cong.), (*Kotkhai*); Krishna Nand Swami (Cong.), (*Mandi, Sadar*); Gopi Ram (Cong.), (*Mandi, Sadar (R)*); Hitendra Singh (Cong.), (*Nahan*); Jeet Singh (Cong.), (*Pachhad*); Manga (Cong.), (*Pachhad (R)*); Gurucharan Singh Ghuman (Cong.) (*Pangi*); Narendra Singh (Cong.), (*Paonta*); Nehar Singh (Cong.), (*Rajgarh*); Jai Bihari Lal (Ind.), (*Rampur*); Nalu Ram (S.C.F.), (*Rampur (R)*); Guman Singh (Cong.), (*Rainka*); Pratap Singh (Cong.), (*Rainka (R)*); Bhagat Chand (Ind.), (*Rohru*); Om Chand (Ind.), (*Sarkaghat*); Nagin Chandra Pal (P.S.P.), (*Solan*); Kesho Ram (Cong.), (*Solan (R)*); Lalit Sen (Cong.), (*Sundernagar*); Nakbhinhoo (Cong.), (*Sundernagar (R)*); Rajendra Singh (Cong.), (*Suni*).

S. C. F.—Scheduled Castes Federation.

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JAMMU AND KASHMIR LEGISLATIVE COUNCIL

Strength: 36. *Chairman:* Pt. Sheonarayan Fotedar, M.A. *Deputy Chairman:* Peer Giyas-ud-Din, M.A., LL.B.

Thirty members belong to the National Conference, the rest are not recognized as party or group.

Local Authorities: Ghulam Mohammad Pampori; Lala Dina Nath Mahajan.

Teachers' Constituency: Dina Nath Kaul; Gulam Rasul Azad.

Panchayat's Constituency: Kh. Ahsan Mir; Kh. Mukhtar Ahmed; Master Buadita Mal; Thakar Rounaq Singh.

Elected by the Legislative Assembly: Sanam Wangal; Habib Ullah; Peer Giyas-ud-Din; Peer Gh. Mohammad Masudi; Ghulam Mohi-ud-Din Khan; Kh. Gh. Mustafa Tak; Sheikh Ghulam Rasool; Mohammad Maqbool Mahjoo; S. Mohan Singh; Haji Safdar Ali; Pt. Sheonarayan Fotedar; Munshi Mohd. Anwar; Ghulam Hussain; Amar Chand; Chela Singh; Wazir Ganga Ram; Mansukh Rai; Nazir Hussain Samnani; Om Prakash Mehta; Shib Singh; Jotshi Ram Krishen; Beli Ram; Col. Sir Ram Nath Chopra.

Nominated by the Sadar-i-Riyasat: Ghulam Rasool Renzu; Mir Alam; Mohammad Shafi; Madan Lal; Jatindar Dev.

JAMMU AND KASHMIR LEGISLATIVE ASSEMBLY

Strength: 75 (Single Member Constituencies: 67; Double Member Constituencies: 4; Seats reserved for Scheduled Castes: 4; Total electorate in the State: 17,02,382.

The statutory strength of the Assembly is 100. Out of this 25 seats are reserved for Pakistan-occupied Kashmir.

National Conference: 65; Democratic National Conference: 4; Praja Parishad: 4; Harijan Mandal: 1; Independent: 1.

Speaker, Harbans Singh Azad; *Deputy Speaker,* Mohammad Ayub Khan.

Sahdev Singh (*Akhnoor-Chhamb*); Satt Dev (*Akhnoor-Chhamb (R)*); Shyamlal Saraf (*Amira Kadal*); Kh. Shamas-ud-Din (*Anantnagh*); Mohd. Ayub Khan (*Arnas*); Syed Ali Shah Safvi (*Badgam*); Kh. Kabir Khan (*Bandipora-Gurez*); S. Harbans Singh Azad (*Baramulla*); Mahesh Chandar (*Basohli*); Chunilal Kotwal (*Bhadarwah*); Abdul Gani Goni (*Bhalesa-Bhunjwah*); Ram Chand Khajouria (*Billawar*); Syed Abdul Qadoos Azad (Biruwa); Ram Piara Saraf (*Bishna-Samba*); Nahar Singh (*Bishna-Samba (R)*); Abdul Qayum (*Charar-i-Sharif*); Kh. Ghulam Ahmed Mir (*Dachanpora*); Mohammad Iqbal (*Darhal*); Ghulam Mohammad Mir (*Darhgam*); Abdul Aziz Zargar (*Devasar*); Ghulam Ahmad Dev (*Doda*); Mir Qasim (*Doru-Shahabad*); Kh. Mohammad Sultan (*Drugmulla*); Ghulam Ahmad Sofi (*Gandarbal*); Pt. Durga Prasad Dhar (*Haba-Kadal*); Ghulam Rasool Kar (*Hamal*); Ghulam Qadir Masala (*Handwara*); Mohammad Yehya Sidiqi (*Hazratbal*); Pt. Prem Nath Dogra (*Jammu City North*); Ram Chand Mahajan (*Jammu City South*); Th. Rajendra Singh (*Jammu Tehsil*); Milkhi Ram (*Jammu Tehsil (R)*); Girdharilal Dogra (*Jasmergarh*); Mian Nizam-ud-Din (*Kangan*); Aga Syed Ibrahim Shah (*Kargil*); Mohammad Younis (*Karnah*); Piar Singh (*Kathna*); Abdul Rahman Butt (*Khanyar*); Abdul Rehman Mir Rahat (*Khansahib*); Noor-ud-Din Dar (*Khowarpora*); Kh. Mir Bad Shah (*Kishtwar*); Manohar Nath Kaul (*Kothar*); Abdul Kabir (*Kulgam*); Moti Ram Baigra (*Lander Tikri*); Kaushak Bakula (*Leh*); Kh. Ghulam Nabi Wani (*Lolab*); Ghulam Mohammad Wani (*Magam*); Peer Jamalt Ali Shah (*Mendhar*); G. Ahmed Buth (*Nandi*); Ghulam Hassan Khan (*Narwaw*); Syed Hussain (*Naubug Breng Valley*); K. D. Sethi (*Nowshehra*); Pirzada Ghulam Jeelani (*Pampore*); Ghulam Mohammed Butt Jalib (*Pattan*); Master Ghulam Ahmad (*Poonch*); Kh. Sona Ullah Shaikh (*Pulwama*); Kh. Abdul Aziz Shawl (*Rajouri*); Ghulam Mohd. Rajpouri (*Rajpora*); Kh. Assad Ullah Mir (*Ramban*); Ghulam Mohammed Wani (*Ramhal*); Hem Raj Jandyal (*Ramnagar*); S. Kulbir Singh (*Ranbirsinghpora*); Bhagat Chhajoo Ram (*Ranbirsinghpora (R)*); Rikhi Kesh (*Reasi*); Bakhshi Ghulam Mohammad (*Safa-Kadal*); Sagar Singh (*Samba*); Kh. Abdul Khaliq Butt (*Saniwara*); Abdul Majid Bandy (*Shopian*); Abdul Gani Malik (*Sopore*); Mohammed Akbar (*Tangmarg*); Ghulam Mohammad Sadiq (*Tankipora*); Kh. Abdul Gani Trali (*Tral*); Amar Nath Sharma (*Udhampur*); Raja Mohammad Afzal Khan (*Uri*); Moh'd Abdullah Shayir (*Zadibal*).

KERALA LEGISLATIVE ASSEMBLY

Constituencies: 114 (S.M. 102; D.M. 12); Seats: 127 (including one nominated); (S.C. 11; S.T. 1); Electorate; 80,38,262.

Speaker: C. H. Mohammed Koya. *Deputy Speaker:* Shrimati Nafeesath Beevi.

An estimate of party strength is given below: Congress: 63; Praja Socialist Party: 20; Muslim League: 10; Communist Party of India: 29; Independents: 2; R.S.P.: 1; Nominated: 1.

R. Krishnan (C.P.I.), (*Alathur*); Smt. Nafeesath Beevi (Cong.), (*Alleppey*); T. O. Bava (Cong.), (*Alwaye*); Seethi Thangal (M.L.), (*Andathode*); K. Gopinatha Pillai (Cong.), (*Aranmula*); Anthony D'Cruz (P.S.P.), (*Aryanad*); Karthikeyan (Cong.), (*Aroor*); N. Kunjuraman (Cong.), (*Attingal*); M. Krishnan (P.S.P.), (*Badagara*); M. Narayana Kurup (P.S.P.), (*Balussery*); R. Sankar (Cong.), (*Cannanore I*); Madhavan (Pampan) (Cong.), (*Cannanore II*); Bharghavan (C.P.I.), (*Chadayamangalam*); C. G. Janardanan (P.S.P.), (*Chalakudy*); K. K. Balakrishnan (S.C.) (Cong.), (*Chalakudy (R)*); Bhaskaran Nair (Cong.), (*Changanacherry*); Smt. Saraswathi Amma (Cong.), (*Chengannoor*); Raghavan Nair (C.P.I.), (*Chevayur*); Balachandra Menon (C.P.I.), (*Chittur*); Narayanan Thandan (S.C.) (C.P.I.), (*Chittur (R)*); P. K. Abdul Khadir (Cong.), (*Cranganore*); Sundaram Murukandy (C.P.I.), (*Devicolam*); Murugesan Thiruvenkatan (S.C.) (Cong.), (*Devicolam (R)*); A. K. Ramankutty Nair (C.P.I.), (*Elapully*); P. Ravindran (C.P.I.), (*Eravipuram*); A. L. Jacob (Cong.), (*Ernakulam*); George Joseph Podipara (Cong.), (*Ettumanoor*); K. G. Karunakara Menon (Cong.), (*Guruvayoor*); N. S. Krishna Pillai (Cong.), (*Haripad*); K. Chandrasekharan (P.S.P.), (*Hosdurg*); T. C. Narayanan Nambiar (C.P.I.), (*Irikkur*); C. Achutha Menon (C.P.I.), (*Irinjalakuda*); Abraham Chummar (Cong.), (*Kaduthuruthy*); M. M. Mathai (Cong.), (*Kalloopara*); T. K. Ramakrishnan (C.P.I.), (*Kanayannur*); K. T. Thomas (Cong.), (*Kanjirappally*); Smt. Kusumam Joseph (Cong.), (*Karikode*); R. Sugathan (C.P.I.), (*Karthigapally*); Baby John (R.S.P.) (Ind.), (*Karunagappally*); Kunhikannan Nambiar (Cong.), (*Kasaragod*); Smt. K. O. Aysha Bai (C.P.I.), (*Kayamkulam*); Gopalankutty Nair (Cong.), (*Koduvally*); Ahamed Kurikkal (M.L.), (*Kondotty*); M. A. Antony (Cong.), (*Kothakulangara*); Damodaran Potti (P.S.P.), (*Kottarakara*); M. P. Govindan Nair (Cong.), (*Kottayam*); Smt. Sarada Krishnan (Cong.), (*Kozikode I*); P. Kumaran (Cong.), (*Kozhikode II*); P. K. Kunju (P.S.P.), (*Krishnapuram*); Smt. Leela Damodara Menon (Cong.), (*Kunnamangalam*); P. R. Krishnan (Cong.), (*Kunnamkulam*); G. Chandrasekharan Pillai (Cong.), (*Kunnathur*); P. C. Adichan (S.C.) (C.P.I.), (*Kunnathur (R)*); Ramunni Kurup (P.S.P.), (*Kuthuparamba*); Mohsinbin Ahmed (M.L.), (*Kuttipuram*); Kuduvakkote John (C.P.I.), (*Kuzhalmannam*); P. Gopalan (Cong.), (*Madai*); Hassan Gani (M.L.), (*Malappuram*); Kurur Neelakantan Namboodiripad (Cong.), (*Manalur*); P. P. Ummer Koya (Cong.), (*Manjeri*); M. Chadayan (S.C.) (M.L.), (*Manjeri (R)*); Mahabala Bandari (Ind.), (*Manjeswar*); P. Abdul Majeed (M.L.), (*Mankada*); Krishnan Kongasseri (C.P.I.), (*Mannarghat*); S. Kumaran (C.P.I.), (*Mararikulam*); K. K. Viswanathan (Cong.), (*Mattancherry*); N. E. Balaram (C.P.I.), (*Mattannur*); Gopala Kurup (C.P.I.), (*Mavelikara*); Kunjachan (S.C.) (C.P.I.), (*Mavelikara (R)*); P. T. Chacko (Cong.), (*Meenachil*); K. M. George (Cong.), (*Muvattupuzha*); Hameed Ali Shemnad (M.L.), (*Nadapuram*); K. C. Abraham (Cong.) (*Narakkal*); K. T. Achuthan (Cong.), (*Nattika*); Neelakantaru Pandarathil (C.P.I.), (*Nedumangad*); P. Viswambharan (P.S.P.), (*Nemom*); P. Narayanan Tampi (P.S.P.), (*Neyyattinkara*); C. Kunhikrishnan Nair (Cong.), (*Nileswar*); Koran Olakkapurakkal (S.C.) (P.S.P.), (*Nileswar (R)*); P. R. Francis (Cong.), (*Ollur*); V. Kunhunni Nair (C.P.I.), (*Ottappalam*); R. Raghava Menon (Cong.) (*Palghat*); Alexander Parambithara (Cong.), (*Palluruthy*); M. Kunjukrishnan Nadar (Ind.), (*Parassala*); M. V. Vasu (C.P.I.), (*Parli*); K. A. Damodara Menon (Cong.), (*Paroor*); Harichandran Nair (P.S.P.), (*Pathanamthitta*); Balakrishna Pillai (Cong.), (*Pathanapuram*); E. M. Sankaran Namboodiripad (C.P.I.) (*Pattambi*); P. K. Narayanan Nambiar (P.S.P.), (*Perambra*); E. P. Gopalan (C.P.I.), (*Perinthalmanna*); Chakko (Cong.), (*Perumbavoor*); Cherukoya Thangal (M.L.), (*Ponnani*); Kunhambu Kallayan (S.C.) (Cong.), (*Ponnani (R)*); T. A. Thommen (Cong.), (*Poonjar*); Joseph Chazhikattu (P.S.P.), (*Puliyannur*); Krishna Pillai (C.P.I.), (*Punalur*); P. C. Cherian (Cong.), (*Puthupally*); P. M. Kunhiraman Nambiar (Cong.), (*Quilandy*); A. A. Rahim (Cong.), (*Quilon*); E.P. Poulose (Cong.), (*Ramamangalam*); Vayala Idicula (Cong.), (*Ranni*); Smt. K. R. Gouri (C.P.I.), (*Shertallai*); V. R. Krishna Iyer (C.P.I.), (*Tellicherry*); Thomas John (Cong.), (*Thakazhi*); C. H. Muhamed Koya (M.L.), (*Thanur*); Avukkadarkutty Naha (M.L.), (*Thirurangadi*); P. Chacko (Cong.), (*Thiruvalla*); C. A. Mathew (Cong.), (*Thodupuzha*); Moideenkutty Hajee (M.L.), (*Tirur*); T. A. Dharmaraj Iyer (Cong.), (*Trichur*); C. M. Stephen (Cong.), (*Trikkadavur*); Krishnan (S.C.) (Cong.), (*Trikkadavur (R)*); E. P. Eapen (P.S.P.), (*Trivandrum I*); Pattom Thanu Pillai (P.S.P.), (*Trivandrum II*); Alikunju Sastri (P.S.P.), (*Ullur*); Balakrishna Menon (P.S.P.), (*Vadakkancherry*); Kochukuttan (S.C.) (Cong.), (*Vadakkancherry (R)*); K. R. Vijayan (Cong.), (*Vadakkekara*); Sreenivasan (C.P.I.), (*Vaikom*); Parayil Shamsuddin (Cong.), (*Varkala*); Balakrishnan (S.C.) (C.P.I.), (*Varkala (R)*); V. K. Velappan (Cong.), (*Vazhur*); Ponnara G. Sreedhar (P.S.P.), (*Vilappail*); Balakrishnan Nambiar (Cong.), (*Wynad*); Madura (S.T.) (Cong.), (*Wynad*); C. F. Pereira (*Nominated Anglo-Indian*).

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MADHYA PRADESH LEGISLATIVE ASSEMBLY

Constituencies : 218 (S.M. 148 ; D.M. 70) ; Seats : 289 (inclusive of one nominated) ; (S.C. 43 ; S.T. 54) ; Electorate : 1,40,23,273.

Speaker, Pt. K. L. Dubey.

Deputy Speaker, Anant Sadashiv Patwardhan.

An estimate of party position is given below : Congress 231 ; Praja Socialist Party 13 ; Communist Party of India 2 ; Bhartiya Jan Sangh 10 ; Hindu Mahasabha 7 ; Ram Rajya Parishad 4 ; Independents 14 (including one nominated) ; Socialist Party 8.

Madanlal (J.S.), (*Agar*); Chatrasingh Daryaosingh (ST) (Cong.), (*Alirajpur (R)*) ; Dr. Devisingh (Cong.), (*Alote*) ; Miya Ram (SC) (Cong.), (*Alote (R)*) ; Bhuwan Bhasker Singh (Cong.), (*Akaltara*) ; Ramhit (J.S.), (*Amarpatan*) ; Ramnivas (Cong.), (*Ambah*) ; Brijbhushanprasad (Cong.), (*Ambikapur*) ; Pritiram Kurrey (SC) (Cong.), (*Ambikapur (R)*) ; Lakhanlal Gupta (Cong.), (*Arang*) ; Jagmohandas (SC) (Cong.), (*Arang (R)*) ; Ramdayalsingh (Cong.), (*Ashoknagar*) ; Dulichand (SC) (Cong.), (*Ashoknagar (R)*) ; Hargyan Singh Bauhare (P.S.P.), (*Attair*) ; Kanhealal Mehta (Cong.), (*Badnagar*) ; Manohar Singh Mehta (Cong.), (*Badnawar*) ; Murlidhar Bhatailal Asati (Cong.), (*Baihar*) ; Haresingh Bakhatsingh (ST) (Cong.), (*Baihar (R)*) ; Nandkishore Jaisraj Sharma (Cong.), (*Balaghat*) ; Keshavlal Gomasta (Cong.), (*Balod*) ; Brijlal Verma (P.S.P.), (*Baloda-Bazar*) ; Bahadur Singh (SC) (Cong.), (*Baloda-Bazar (R)*) ; Swami Krishnanand Ramcharan (Cong.), (*Banda*) ; Chhotelal (Cong.), (*Bandhavagarh*) ; Ravindranath Bhargava (Cong.), (*Barghat*) ; Chandrika Prasad (Cong.), (*Bargi*) ; Virendrasingh Motisingh (Cong.), (*Barwaha*) ; Gulal (ST) (J.S.), (*Barwani (R)*) ; Rajkumar Virendra Bahadur Singh (Ind.), (*Basna*) ; Laxmanprasad (Cong.), (*Bemetara*) ; Sheolal (SC) (Cong.), (*Bemetara (R)*) ; Ram Kishore (S.P.), (*Beohari*) ; Smt. Jhalkan Kumari (ST) (Cong.), (*Beohari (R)*) ; Bhagwan Singh (Cong.), (*Berasia*) ; Hari Kishan Singh (SC) (Cong.), (*Berasia (R)*) ; Deepchand Lakhmichand (Cong.), (*Betul*) ; Mohkamsingh Bab Singh (ST) (Cong.), (*Betul (R)*) ; Somdatt Deo (ST) (Cong.), (*Bhainsdehi (R)*) ; Chakrapani Shukla (Cong.), (*Bhatapara*) ; Jitendra Vijay Bahadur (Ind.), (*Bhatgaon*) ; Moolchand (SC) (Cong.), (*Bhatgaon (R)*) ; Shyamsundar Das (*Bhatia*) ; Udairam (Cong.), (*Bhilai*) ; Gopal Singh (ST) (Cong.), (*Bhilai (R)*) ; Narsingh Rao Dixit (Cong.), (*Bhind*) ; Manohar Rao Jatar (Cong.), (*Bhoma*) ; Thakur Dipsingh (ST) (Cong.), (*Bhoma (R)*) ; Shakir Ali Khan (C.P.I.), (*Bhopal*) ; Laxmansingh (Ind.), (*Biaora*) ; Baredi (ST) (Cong.), (*Bichhia (R)*) ; Kunjilal Swarnkar (Cong.), (*Bijai-Raghogarh*) ; Shrimati Chanda Bai (ST) (Cong.), (*Bijai-Raghogarh (R)*) ; Smt. Gayatri (Cong.), (*Bijawar*) ; Hans Raj (SC) (Cong.), (*Bijawar (R)*) ; B. R. Pambhoi (ST) (Cong.), (*Bijapur (R)*) ; Dr. Shivdulare (Cong.), (*Bilaspur*) ; Pt. Shyamcharan Shukla (Cong.), (*Bindranawagarh*); Smt. Shyamkumari Devi (ST) (Cong.), (*Bindranawagarh (R)*) ; Rani Padmawati (Cong.), (*Birendranagar*) ; Rajkumari Surajkala (Cong.), (*Budni*) ; Abdul Kadar Siddiqui (Cong.), (*Burhanpur*) ; Ramkrishna (Cong.), (*Champa*) ; Sagarsingh Sisodia (Cong.), (*Chachaura*) ; Smt. Joshna Devi (Ind.), (*Chandrapur*) ; Vedram (SC) (Cong.), (*Chandrapur (R)*) ; Dasrath (Cong.), (*Chatarpur*) ; Govind Das (SC) (Cong.), (*Chatarpur (R)*) ; Smt. Vidyawati (Cong.), (*Chhindwara*) ; Nokhelal (SC) (Cong.), (*Chhindwara (R)*) ; Sukhdu (ST) (Cong.), (*Chitrakote (R)*) ; Kaushalendra Pratap Bahadur Singh (R.R.P.), (*Chitrakoot*) ; Rani Kanakkumari (ST) (Cong.), (*Chowki (R)*) ; Harischandra (Cong.), (*Damoh*) ; Sheoram (ST) (Cong.), (*Dantewara (R)*) ; Bala Prasad Mishra (Cong.), (*Deori*) ; Bhailal (S.P.), (*Deosar*) ; Jagdeo Singh (ST) (P.S.P.), (*Deosar (R)*) ; Nandlal Joshi (Cong.), (*Depalpur*) ; Sajjansingh Vishnar (SC) (Cong.), (*Depalpur (R)*) ; Anant Sadashiv Patwardhan (Cong.), (*Dewas*) ; Bapulal Kishanlal (SC) (Cong.), (*Dewas*) ; (*R*)) ; Ganeshram (Cong.), (*Dhamdha*); Purushotamdas (Cong.), (*Dhamtari*) Jhitkoo (ST) (Cong.), (*Dhamtari (R)*) ; Vasant S. Pradhan (H.M.), (*Dhar*) ; Raja Sahab Chandra Chud Prasadsingh Deo (Cong.), (*Dharmjaigarh*) ; Umed Singh (ST) (Cong.), (*Dharmjaigarh (R)*) ; Khub Chand Baghel (P.S.P.), (*Dharsiwan*) ; Dwarika Prasad (Cong.), (*Dindori*) ; Akali Basori Bhoi (ST) (Cong.), (*Dindori (R)*) ; Rani Jhamitkunwardevi (ST) (Cong.), (*Dondi Lohara (R)*) ; Dhannalal Jain (Cong.), (*Dongargaon*) ; Vijai Lal (Cong.), (*Dongargarh*) ; Bhootnath (SC) (Cong.), (*Dongargarh (R)*) ; Vishwanath Tamasker (P.S.P.), (*Durg*) ; Kishorilal (Cong.), (*Gadarwara*) ; Nabba (SC) (Cong.), (*Gadarwara (R)*) ; Vimalkumar (J.S.), (*Garoth*) ; Smt. Saraswati Devi Sharda (SC) (Cong.), (*Garoth (R)*) ; Gourishankar Shastri (Ind.), (*Ghargora*) ; Raja Lalit Kumar Singh (ST) (Cong.), (*Ghargora (R)*) ; Murlidhar Ghule (Cong.), (*Gird*) ; Smt. Sushila Devi Bhadoria (Cong.), (*Gokad*) ; Shyamsunder Narayan (Cong.), (*Gotegaon*) ; Mathuraprasad Dube (Cong.), (*Gourella*) ; Daulatram (Cong.), (*Guna*) ; Shiv Nath Prasad (J.S.), (*Gurh*) ; Ramchandra A. Sarvate (C.P.I.), (Gwalior) ; Laxmanrao Bhikajee Naik (Cong.), (*Harda*) ; Smt. Gulabbai (SC) (Ind.), (*Harda (R)*) ; Kalusingh Shersingh (Cong.), (*Harsud*) ; Ramsingh Galiba (ST) (Cong.), (*Harsud (R)*) ; Gaya Prasad (Cong.), (*Hatta*) ; Kadorelal (SC) (Cong.), (*Hatta (R)*) ; Nannelal Bhurelal (Cong.), (*Hoshangabad*) ; Vyanktesh Dravid (Cong.), (*Indore*) ; Babulal Patodi (Cong.), (*Indore City Central*) ; Homi F. Daji (Ind.), (*Indore City East*) ; Mishrilal Gangwal (Cong.), (*Indore City West*) ; Hariprasad Chaturvedi (Cong.), (*Itarsi*) ; Pandit Kunjilal Dubey (Cong.), (*Jabalpur I*) ; Jagdishnarayan Awasthi (Cong.), (*Jabalpur II*) ; Jagmohandas (Cong.), (*Jabalpur III*) ; Vindesh Dutta Mishra (Ind.), (*Jagdalpur*) ; Dehra Prasad (SC) (Cong.), (*Jagdalpur (R)*) ; Lakheshwarlal Paliwal (Cong.), (*Janjgir*) ; Kailashnath Katju (Cong.), (*Jaora*) ; Raja Vijai Bhushan Singh Deo (Cong.), (*Jashpur*), Johan (ST) (Cong.), (*Jashpur (R)*) ; Kamta Prasad (Cong.), (*Jatara*) ; Virendra Kumar (J.S.) (*Jawad*) ; Sursingh Mansingh (ST) (Cong.), (*Jhabua (R)*) ; Smt. Gangabai (ST) (Cong.), (*Jobat (R)*) ; Chotelal Bharadwaja (S.P.), (*Jodra*) ; Smt. Pratibha Devi (Cong.), (*Kanker*) ; Bisram (ST) (Cong.), (*Kanker (R)*) ; Smt. Manjulabai Wagle (Cong.), (*Kannod*) ; Gautam Sharma (Cong.), (*Karera*) ; Ramniklal Amritlal (Cong.), (*Katangi*) ; Banwari Lal (Cong.), (*Katghora*) ; Dewan R. P. Singh (ST) (Cong.), (*Katghora (R)*) ; Vishwanath Singh (R.R.P.), (*Kawardha*) ; Saradu (ST) (Cong.), (*Keskal (R)*); Birendrasingh (H.M.), (*Khachraud*); Ritu Parna Kishordas (Cong.), (*Khairagarh*) ; Shankarlal Tiwari (Cong.), (*Khairalanjee*) ; Bhagwantrao Mandloi (Cong.), (*Khandwa*) ; Deokaran Palchand (SC) (Cong.), (*Khandwa (R)*); Ramakant Vishwanath Khode (Cong.), (*Khargone*) ; Sawaisingh (ST) (Cong.), (*Khargone (R)*) ; Prabhudayal Chobe (Cong.), (*Khilchipur*) ; Rishabh Kumar (Cong.), (*Khurai*) ; Bhadai Halke (SC) (Cong.), (*Khurai (R)*) ; Tejlal Harischandra (Cong.), (*Kirnapur*) ; Motiram Odkya (SC) (Cong.), (*Kirnapur (R)*) ; V. Parasar (Cong.), (*Kolaras*); Soyam Jogaya (ST) (Cong.), (*Konta R*)); Kashiram Tiwari (Cong.), (*Kota*); Smt. Surajkunwardevi (ST) (Cong.), (*Kota (R)*) ; Harirajkunwar (Cong.), (*Kotma*) ; Smt. Girja Kumari (Ind.), (*Kotama (R)*) ; Ratusingh Ramsingh (ST) (Cong.), (*Kukshi (R)*); Takhatmal Jain (Cong.), (*Kurwai*); Bhopalrao Bisoji (Cong.), (*Kurud*) ; Smt. Premkumari Raje (Cong.), (*Lahar*) ; Gokul Prasad Katraulia (SC) (Cong.), (*Lahar (R)*) ; Vasant Rao Wickey (ST) (Cong.), (*Lakhnadon (R)*) ; Ram Niwas Bangad (Cong.), (*Lashkar*) ; Smt. Vidyawati Chaturvedi (Cong.), (*Laundi*) ; Gangaprasad (R.R.P.), (*Lormi*) ; Nemichand (Cong.), *Mahasamund*); Bajirao Miri (SC) (Cong.), (*Mahasamund (R)*) ; Ballabhdas Mahajan (Cong.), (*Maheshwar*) ; Sadhav Sitaram (SC) (Cong.), (*Maheshwar (R)*) ; Rameshwardayal Totla (Cong.) (*Mahidpur*) ; Durgadas Suryabanshi (SC) (Cong.), (*Mahidpur (R)*) ; Gopal Sharan Singh (Cong.), (*Maihar*) ; Arjun Singh (Cong.), (*Majhauli*) ; Sunderlal (J.S.) (*Manasa*) ; Ranjitsingh (ST) (H.M.), (*Manawar East (R)*) ; Shivbhanu (ST) (Cong.), (*Manawar West (R)*) ; Smt. Narayanidevi (Cong.), (*Mandla*) ; Shyam Sunder (Cong.), (*Mandsaur*) ; Brijendralal (Cong.), (*Manendragarh*) ; Raghuwar Singh (ST) (Cong.), (*Manendragarh (R)*) ; Mrs. Sheoraj Kunwar (Ind.), (*Mangawan*) ; Marotrao Lahanuji (P.S.P.), (*Masod*) ; Bashir Ahmad (Cong.), (*Masturi*) ; Ganeshram (SC) (Cong.), (*Masturi (R)*) ; Achutanand (Ind.), (*Mauganj*) ; Sahadeo (SC) (Cong.), (*Mauganj (R)*) ; Ramaisingh (ST) (Cong.), (*Mehedwani (R)*) ; Jugalkishore (Cong.), (*Mehgaon*) ; Rustomji Jal (Cong.), (*Mhow*) ; Smt. Chandra Kala Sahai (Cong.), (*Morar*) ; Kunwar Yaswant Singh Kushwah (Cong.), (*Morena*) ; Smt. Chamelibai Sagar (SC) (Cong.), (*Morena(R)*); Anandrao Sonaji (P.S.P.), (*Multai*) ; Khalaksingh (H.M.), (*Mungaoli*) ; Ambikasao (R.R.P.), (*Mungeli*) ; Ramlal Ghasia (SC) (R.R.P.), (*Mungeli (R)*) ; Ramdas Agarwal (S.P.), (*Murwara*) ; Mahipal Singh (S.T.), (*Narainpur (R)*) ; Smt. Sarla Devi (Cong.), (*Narsimhapur*) ; Radhavallabha Vijayavargiya (Cong.), (*Narsingarh*) ; Bhanwarlal Jeewan (SC) (Cong.), (*Narsingarh (R)*) ; Bisahu Das Mahant (Cong.), (*Nawagarh*) ; Sitaram (Cong.), (*Neemuch*) ; Lakshmi Narain (P.S.P.), (*Niwari*) ; Nathu Ram (SC) (Cong.), (*Niwari (R)*) ; Sahajoo (ST) (Cong.), (*Niwas (R)*) ; Kunjbihari Lal (Cong.), (*Nohata*) ; Udayabhanushah (ST) (Cong.), (*Pagara (R)*) ; Kapildeo Narayan Singh (Cong.), (*Pal*) ; Bhandariram (ST) (Cong.), (*Pal (R)*) ; Parmanand Mohanlal (Cong.), (*Panagar*) ; Devendra Vijay Singh (Ind.), (*Panna*) ; Kashiprasad (Cong.), (*Parasia*) ; T. Phoolbhanushah (ST) (Cong.), (*Parasia (R)*) ; T. N. Singh (Cong.), (*Patan*) ; Smt. Deva Devi (SC) (Cong.), (*Patan (R)*) ; Narendra Singh (Cong.), (*Pawai*) ; Ram Das (SC) (Cong.), (*Pawai (R)*) ; Brinda Sahai (Cong.), (*Pichhore*) ; Raja Ram Singh (SC) (Cong.), (*Pichhore (R)*) ; Laxminarain (H.M.) (*Pichhore*); Lalan Singh (ST) (Cong.), (*Pushparajgarh (R)*) ; Ramkumar Agrawal (P.S.P.), (*Raigarh*); Sharda Charan Tiwari (Cong.), (*Raipur*) ; Ramcharan Dube (Ind.), (*Rajgarh*); J. P. L. Francis (P.S.P.), (*Rajnandgaon*) ; Mangilal Tejsingh (ST) (Cong.), (*Rajpur (R)*) ; Lal Govind Narayan Singh (Cong.), (*Rampur Baghelan*) ; Smt. Suman Jain (Cong.), (*Ratlam*) ; Mani Bhai Jaber Bhai (Cong.), (*Rehli*) ; Jagdish Chand Joshi (S.P.), (*Rewa*) ; Balmukund Mudgal (Cong.), (*Sabalgarh*) ; Baboolal Mourya (SC) (Cong.), (*Sabalgarh (R)*) ; Mahommed Shafi Mohommed Subrati (Cong.), (*Sagar*) ; Rajabahadur Liladhar Singh (P.S.P.), (*Sakti*) ; Khuman Singh (Cong.), (*Sanchi*) ; Raja Daulat Singh (ST) (Cong.), (*Sanchi (R)*) ; Jaideo Gajadhar (Cong.), (*Saraipali*) ; Raja Naresh Chandra Singh (Cong.), (*Sarangarh*) ; Kumari Nanhu Dai (SC) (Cong.), (*Sarangarh (R)*) ; Shankarlal Garg (Cong.), (*Sardarpur*) ; Shiva Nand (Cong.), (*Satna*) ; Vishweshwar Prasad (SC) (Cong.), (*Satna (R)*) ; Raichandbhai (Cong.), (*Sausar*) ; Ranchushing (ST) (Cong.), (*Sausar (R)*) ; Dewanchand Mahajan (Jan Sangh), (*Sehore*) ; Umrao Singh (SC) (Cong.), (*Sehore (R)*) ; Barku Chowhan (ST) (Cong.), (*Sendhwa (R)*) ; Kamta Prasad Saxena (Cong.), (*Seondha*) ; Mahendranath Singh (Cong.), (*Seoni*); Vacant (*Shahpur*) ; Pratapbhai (Cong.), (*Shajapur*) ; Kishanlal (SC) (Ind.), (*Shajapur (R)*) ; Raghunath Singh (H.M.), (*Sheopur*) ; Raj Rajendra Malojirao N. Shitole (Ind.), (*Shivpuri*) ; Tularam Sagar (SC) (Cong.), (*Shivpuri (R)*) ; Vishnucharan (Cong.), (*Shujalpur*) ; C. P. Tiwari (P.S.P.), (*Sidhi*) ; Kashiprasad Pande (Cong.), (*Sihora*) ; Raja Harbhagatsingh Raja Thansingh (ST) (Cong.); (*Sihora (R)*) ; Shyam Kartik (S.P.), (*Singrauli*), Smt. Champa Devi (Cong.), (*Sirmaur*) ; M. Agrawal (H.M.), (*Sironj*) ; Bhanwarlal Rajmal (Cong.), (*Sitamau*) ; Haribhajan Singh (ST) (Cong.), (*Sitapur (R)*) ; Shambhu Nath (Cong.), (*Sohagpur*) ; Narayansingh Dangalsingh (Cong.), (*Sohagpur*) ; Smt. Ratankumari (ST) (Cong.), (*Sohagpur (R)*) ; Bhagirathsingh (J.S.), (*Sonkatch*) ; Virendra Nath Sharma (Cong.), (*Surajpur*) ; Mahadeo Singh (ST) (Cong.), (*Surajpur (R)*) ; Dr. B. B. Rai (Cong.), (*Surkhi*) ; Haribhau (J.S.), (*Susner*) ; Smt. Yagyaseni Kumari (ST) (Cong.), (*Tanakhar (R)*) ; Vanshpati Singh (Cong.), (*Teonthar*) ; Nathulal (ST) (S.P.), (*Thandla (R)*) ; Ram Krishna (Cong.), (*Tikamgarh*) ; Dr. Shanker Dayal Sharma (Cong.), (*Udaipura*) ; Smt. Razdan Kunwar Kishori (Cong.), (*Ujjain North*) ; Viswanath Vasudeo Ayachit (Cong.), (*Ujjain South*) ; T. Ajaisingh (Cong.), (*Vidisha*) ; Hiralal Pippal (SC) (Cong.), (*Vidisha (R)*) ; Thansingh Besen (Cong.), (*Waraseoni*) ; Maj. P. Bernard (*nominated Anglo Indian*).

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MADRAS LEGISLATIVE COUNCIL

(An estimate of party strength is as follows: Congress 43, United Party 6, Independents 11, D. M. K. 2.)

Chairman: Dr. P. V. Cherian. *Deputy Chairman:* V. K. Palaniswamy Gounder. *Secretary:* C. D. Natarajan.

Local Authorities: (21) K. M. Desikar (Con.), M. V. Sudarsanam Naidu (Con.), A. Somasundara Reddiar (Con), M. Subbiah Chetty (Ind.), T. Durairaj (Con.), (*South Arcot-cum-Tanjore-cum-Tiruchirapalli*); T. V. Devaraja Mudaliar (Con.). K. Kamalakannan (Con.), G. Vijayarangan (Con.), M. Seshachariar (Con.); A. K. Thangavel Mudaliar (D.M.K.); (*Madras-cum-Chingleput-cum-North Arcot*), V. K. Palaniswami Gounder (Con.), S. R. P. Ponnuswamy Chettiar (Con.), P. B. K. Thiagaraja Reddiar (Con.), T. Joghee Gowder (Con.). P. Madurai Pillai (Con.), (*Salem-cum-Coimbatore-cum-Nilgiris*), T. S. Sankaranarayana Pillai (Con.), S. P. Sivasubramania Nadar (Con.), A. Chidambara Mudaliar (Con.), I. A. Chidambaram Pillai (Con.), S. T. Adityan, (Ind.), K. T. Kosalram (Con.), (*Madurai-cum-Ramanathapuram-cum-Tirunelveli-cum-Kanya Kumari*).

Graduates' Constituency: (6) K. Balasubramania Ayyar (U. P.), Dr. T. V. Sivanandam (Con.), Dr. P. V. Cherian, S. K. Sambandhan (Ind.); Dr. A. Lakshmanaswami Mudaliar (U.P.), Dr. A. Sreenivasan (Ind.).

Teachers' Constituency: (6) Dr. A. Chidambaranathan (U.P.), G. R. Damodaran (Ind.), G. Krishnamoorthy (U.P.), T. P. Srinivasa Varadan (U.P.), K. M. Ramaswami Gounder (Ind.); S. Natarajan (Ind.).

Elected by the Members of the Legislative Assembly: (21) Abdul Hameed Khan (Con.), Vacant, A. J. Arunachalam (Con.), T. S. Arunachalam (Con.), V. S. Balasundaram (Con.), M. Ethirajulu (Con.), A. Gajapathi Nayagar (Con.), L. S. Karayalar (Ind.), M. Rajagopala Pillai (Con.); A. Kuppuswamy Mudaliar (Con.); A. Krishnaswamy Vandayar (Con.), Mohamed Raza Khan (United Party), Vidwan T. Muthu Kannappan (Con.), B. K. Nallasamy (Con.), N. Nallasenapathi Sarkarai Manradiar (Con.), K. R. Ramasamy (D.M.K.), A. Subramanyam (Con.), R. Venkataraman (Con.), V. M. Surendram (Con.), K. V. Ramaswami (Con.), P. T. Rajan (Ind.).

Nominated Members: (9) Mary C. Clubwala Jadhav (Ind.), V. Rangasamy (Con.); S. Manjubhashini (Con.), V. Ramalingam Pillai (Con.), O. P. Ramaswami Reddiar (Con.), Jothi Venkatachalam (Con.), Saraswathi Pandurangam (Con.), K. B. Sundarambal (Con.), M. Patanjali Sastri (Ind.).

Abbreviations: Con. Congress; Ind. Independents; D. M. K. Dravida Munnetra Kazhagam U. P. United Party.

MADRAS LEGISLATIVE ASSEMBLY

Electorate: 17,551,983; Constituencies: 167 (S.M. 129, D.M. 38); Seats: 207 (S.C. 37; S.T. 1).

Acting Speaker, B. Bhakthavathsulu Naidu; *Deputy Speaker*, B. Bhakthavathsulu Naidu.

An estimate of party position is given below: Congress 155; Praja Socialist Party 2; Communist Party of India 4; Indian National Democratic Congress 21; Dravida Munnetra Kazhagam 15; Socialists 2; Progressive Independents Bloc 2; Independents 5.

A. R. Marimuthu (P.S.P.), (*Adirampatnam*); T. R. Ramamirda Thondaman (Cong.), (*Aduthurai*); Arunachala Thevar (Cong.), (*Alangudi*); V. Chinniah (SC) (Cong.), (*Alangudi (R)*); S. Pandraraj (Cong.), (*Alangulam*); G. Deekshidar (Cong.), (*Ambasamudram*); V. K. Krishnamoorthy (Cong.), (*Ambur*); S. R. Munusami (SC) (Ind.), (*Ambur (R)*); G. Annamalai Muthuraja (Cong.), (*Andanallur*); S. Ramasami Thevar (I.N.D.C.), (*Arantangi*); S. Sadasivam (Cong.), (*Aravakurichi*); S. Khadar Sheriff (Cong.), (*Arcot*); S. Ramalinga Padayachi (Cong.), (*Ariyalur*); S. C. Sadayappa Mudaliar (Cong.), (*Arkonam*); B. Doraisami Reddiar (I.N.D.C.), (*Arni*); S. S. Bharati, (I.N.D.C.), (*Aruppukkotai*); M. P. Subramaniam (D.M.K.), (*Attur*); Irusappan (SC) (D.M.K.), (*Attur (R)*); M. A. B. Arumugasamy (Cong.), (*Authoor*); K. Marappa Goundar (Cong.), (*Avanashi*); Srimathi T. N. Anandanayagi (Cong.), (*Basin Bridge*); G. G. Gurumurthi (Cong.), (*Bhavani*); P. G. Manickam (SC) (Cong.), (*Bhavani (R)*); Samikannu Padayachi (Cong.), (*Bhuvanagiri*); A. S. Subbaraj (Cong.), (*Bodinayakanoor*); T. Karia Goundar (Cong.), (*Chengam*); K. R. Nalla Sivam (Socialists), (*Chennimalai*); P. Ramachandran (Cong.), (*Cheyyar*); G. Vagheesam Pillai (Cong.), (*Chidambaram*); P. Arasan (SC) Cong.), (*Chidambaram (R)*); Muthusami Nayagar (Cong.), (*Chingleput*); P. Appavu (SC) (Cong.), (*Chingleput (R)*); Savitri Shanmugam (Cong.), (*Coimbatore I*); K. P. Palanisami (SC) (Cong.), (*Coimbatore II*); N. Marudachalam (SC) (C.P.I.), (*Coimbatore II (R)*); Smt. Lourdammal Simon (Cong.), (*Colachel*); J. Mahta Gowder (Cong.), (*Coonoor*); P. R. Srinivasa Padayachi (Cong.), (*Cuddalore*); A. Senapathi Goundar (Cong.), (*Dharapuram*); M. Kandasami Kandar (Cong.), (*Dharmapuri*); M. K. Jamal Mohideen (Cong.), (*Dindigul*); Anbazhagan (D.M.K.), (*Egmore*); V. S. Manickasundaram (Cong.), (*Erode*); R. Krishnasami Gopalar (Cong.), (*Gandarvakottai*); M. Jangal Reddiar (I.N.D.C.), (*Ginjee*); P. G. Karuthiruman (Cong.), (*Gobichettipalayam*); V. K. Kothandaraman (C.P.I.), (*Gudiyattam*); T. Manavalan (SC) (Cong.), (*Gudiyattam (R)*); Smt. Kamalambujammal (Cong.), (*Gummidipundi*); Dr. U. Krishna Rau (Speaker), (*Harbour*); P. M. Munisamy Goundar (Cong.), (*Harur*); M. K. Mariappan (SC) (Cong.), (*Harur (R)*); K. Appavoo Pillai (I.N.D.C.), (*Hosur*); K. R. Viswanathan (Cong.), (*Jayankondan*); K. Ramasubba (Cong.), (*Kadambur*); Sangili (SC) (Cong.), (*Kadambur (R)*); D. S. Athimoolam (I.N.D.C.), (*Kadayam*); C. Natarajan Odyar (D.M.K.), (*Kallakurichi*); M. Anandan (SC) (D.M.K.), (*Kallakurichi (R)*); C. N. Annadurai (D.M.K.), (*Kancheepuram*); K. G. Palanisamy Goundar (Cong.), (*Kangayam*); T. S. Ramasami Pillai (Ind.), (*Kanyakumari*); M. A. Muthiah Chettiar (Cong.), (*Karaikudi*); T. M. Nallaswamy (Cong.), (*Karur*); A. Nesamony (Cong.), (*Killiyoor*); M. Alagirisamy (Cong.), (*Kodaikanal*); C. Subramaniam (Cong.), (*Koilpalayam*); V. Subbiah (I.N.D.C.), (*Koilpatti*); Nagaraja Monigar (Cong.), (*Krishnagiri*); M. Karunanidhi (D.M.K.), (*Kulitalai*); T. Sampath (Cong.), (*Kumbakonam*); S. Lazar (Cong.), (*Lalgudi*); V. Sankaran (Cong.), (*Madurai Central*); Smt. P. K. R. Lakshmikantham (Cong.), (*Madurai East*); O. Venkatasubba Reddi (Cong.), (*Madurantakam*); P. S. Ellappan (SC) (I.N.D.C.), (*Madurantakam (R)*); R. Chidambara Bharathi (Cong.), (*Manamadurai*); N. P. M. Chinnaya Gounder (Cong.), (*Manapparai*); T. S. Swaminatha Odayar (Cong.), (*Mannargudi*); G. Narayanasami Naidu (Cong.), (*Mayuram*); P. Jayraj (SC) (Cong.), (*Mayuram (R)*); M. Periakaruppan Ambalam (Cong.), (*Melur*); P. Kakkan (SC) (Cong.), (*Melur (R)*); Smt. D. Raghubathi Devi (Cong.), (*Mettupalayam*; K. S. Arthanareeswara Goundar (Cong.), (*Mettur*); T. L. Sasivarna Thevar (I.N.D.C.), (*Mudukulathur*); A. Perumal (SC) (I.N.D.C.), (*Mudukulathur (R)*); V. A. Muthiah (Cong.), (*Musiri*); T. V. Sannasi (SC) (Cong.), (*Musiri (R)*); C. R. Ramasamy (Cong.), (*Mylapore*); N. S. Ramalingam (Cong.), (*Nagapattinam*); A. Chidambaranatha Nadar (Cong.), (*Nagercoil*); Vedamanickam (Ind.), (*Nallur*); Kolanda Goundar (Cong.), (*Namakkal*); M. P. Periasami (SC) (Cong.), (*Namakkal (R)*); K. L. Ramaswamy (Cong.), (*Nambiyur*); M. G. Sankar (Cong.), (*Nangunari*); M. D. Thiagaraja Pillai (Cong.), (*Nannilam*); M. C. Muthukumaraswamy (SC) (Cong.), (*Nannilam (R)*); S. S. Ramaswamy Padayachi (Cong.), (*Nellikuppam*); S. Thangavelu (SC) (Cong.), (*Nellikuppam (R)*); W. P. A. R. Chandrasekharan (Cong.), (*Nilakkottai*); Smt. A. S. Ponnammal (SC) (Cong.), (*Nilakkottai (R)*); B. K. Linga Gowder (Cong.), (*Ootacamund*); K. Karuthappa Gounder (Cong.), (*Ottanchatram*); Thompson Tharmaraj Daniel (Cong.), (*Padmanabhapuram*); P. S. K. Lakshmipathiraj (Cong.), (*Palani*); P. S. Chinna Durai (P.S.P.), (*Palladam*); Karunagrii Muthiah (Cong.), (*Panjapatti*); G. Venkitachala Nattar (Cong.), (*Papanasam*); R. Subramaniam (S.C.) (Cong.), (*Papanasam (R)*); K. Ramchandran (I.N.D.C.), *Paramakudi*); R. Srinivasa Ayyar (Cong.), (*Pattukkottai*); Smt. Hemalatha Devi (Cong.), (*Pennagaram*); R. Krishnasamy Reddiar (Cong.), (*Perambalur*); Periannan (SC) (Cong.), (*Perambalur (R)*); S. Pakkirisami Pillai (Soc.), (*Perambur*); Smt. Sathiavanimuthu (SC) (D.M.K.), (*Perambur (R)*); N. K. Palanisami (C.P.I.), (*Perundurai*); N. Mahalingam (Cong.), (*Pollachi*); K. Ponnian (SC) (Cong.), (*Pollachi (R)*); S. M. Annamalai (D.M.K.), (*Polur*); Govindaswami Naidu (Cong.), (*Ponneri*); T. P. Elumalai (SC) (Cong.), (*Ponneri (R)*); A. V. Thomas (Cong.), (*Radhapuram*); R. Shanmuga Rajeswara Sethupati (Cong.) (*Ramnathapuram*); A. E. Chandrasekhara Nayagar (Cong.), (*Ranipet*); A. Raja Goundar (Cong.), (*Rasipuram*); A. S. Duraiswami Reddiar (Cong.), (*Saidapet*); A. Mariappan (Cong.), (*Salem I*); Rathnavel Gounder (Cong.), (*Salem II*); A. R. Subbiah Mudaliar (Cong.), (*Sankarankoil*); Urakavalan (SC) (Cong.), (*Sankarankoil (R)*); K. S. Subramania Goundar (Cong.), (*Sankari*); K. Gopal Gounder (I.N.D.C.), (*Sathiamangalam*); S. B. Adityan (Ind. Gr.), (*Sattangulam*); K. Kamaraj Nadar (Cong.), (*Sattur*); T. Sivagnanam Pillai (Cong.), (*Sendamangalam*); B. Bakthavathsalu Naidu (Cong.), (*Sholinghur*); C. Muthiah Pillai (Cong.), (*Sirkali*); K. B. S. Mani (SC) (Cong.), (*Sirkali (R)*); D. Subramania Rajkumar (I.N.D.C.), (*Sivaganga*); S. Ramasami Naidu (Cong.), (*Sivakasi*); M. Baktavatsalam (Cong.), (*Sriperumbudur*); K. Vasudevan (Cong.), (*Srirangam*); A. P. C. Veerabahu (Cong.), (*Srivaikuntam*); R. Krishnasami Naidu (Cong.), (*Srivilliputhur*); A. Chinnasami (SC) (Cong.), (*Srivilliputhur (R)*); Smt. Kulanthai Ammal (Cong.), (*Sulur*); A. Y. S. Parisutha Nadar (Cong.), (*Tanjore*); N. S. Sundararajan (Cong.), (*Taramangalam*); K. Sattanatha Karayalar (P.I.B.), (*Tenkasi*); N. R. Thiagarajan (Cong.), (*Theni*); N. M. Velappan (SC) (Cong.), (*Theni (R)*); K. Vinayakam (Cong.), (*Thiagarayanagar*); A. V. P. Periavala Guruva Reddi (I.N.D.C.), (*Thirumangalam*); V. Ramiah (Cong.), (*Thirumayam*); S. Chinnakaruppa Thevar (Cong.), (*Thirupparankundram*); A. Vedaratnam (Cong.), (*Thiruthuraipundi*); V. Vedayyan (SC) (Cong.), (*Thiruthuraipundi (R)*); A. V. P. Asaithambi (D.M.K.), (*Thousand Lights*); M. A. Manickavelu (Cong.), (*Thurinjapuram*); P. Veerappa Kounder (Ind.), (*Tindivanam*): M. Jagannathan (SC) (Ind.), (*Tindivanam (R)*); M. S. Selvarajan (Cong.), (*Tiruchendur*); T. M. Kaliannan (Cong.), (*Tiruchengode*); R. Kandasami (SC) (Cong.), (*Tiruchengode (R)*); E. P. Mathuram (Ind.), (*Tiruchirapalli I*); M. Kalyanasundaram (C.P.I.), (*Tiruchirapalli II*); S. A. M. Annamalai Odayar (I.N.D.C.), (*Tirukoliur*); P. Kuppusami (SC) (Cong.), (*Tirukoilur (R)*); N. V. Chokkalingam (Cong.), (*Tirukoshtiyur*); Smt. Rajathi Kunjithapatham (Cong.), (*Tirunelveli*); Somasundaram (SC) (Cong.), (*Tirunelveli (R)*); R. C. Samanna Goundar (Cong.), (*Tiruppattur*); K. N. Palanisami (Cong.), (*Tiruppur*); S. Ranganatha Mudaliar (Cong.), (*Tiruttani*); S. Ramakrishna Theyar (Cong.), (*Tiruvadanai*); N. Ekambara Mudali (Cong.), (*Tiruvallur*); Arunachalam (SC) (Cong.), (*Tiruvallur(R)*); P. U.

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Shanmugam (D.M.K.), (*Tiruvannamalai*); P. S. Santhanam (SC) (D.M.K.), (*Tiruvannamalai (R)*); R. Swaminatha Merkondar (Cong.), (*Tiruvayar*); T. K. Subbiah (Cong.), (*T. Palur*); K. S. G. Haja Shereef (Cong.), (*Triplicane*); R. J. Sundar Singh (Cong.), (*Tuticorin*); S. T. Subbayya Gounder (P.I.B.), (*Udamalpet*); M. Muni Reddi (I.N.D.C.), (*Uddanapalli*); M. Kandasami Padayachi (Cong.), (*Ulundurpet*); P. K. Mookiah Thevar (I.N.D.C.), (*Usilampatti*); K. Pandiaraj (Cong.), (*Uthamapalayam*); V. K. Ramaswamy Mudaliar (I.N.D.C.), (*Uttiramerur*); T. Thiruvenkadasamy Naicker (I.N.D.C.), (*Vadamadurai*); A. Govindasamy (D.M.K.), (*Valavanur*); A. A. Rasheed (Cong.), (*Vaniyambadi*); Smt. T. S. Soundaram Ramchandran (Cong.), (*Vedasandur*); M. R. Kandasamy Mudaliar (Cong.), (*Veerapandy*); M. P. Sarathi (D.M.K.), (*Vellore*); M. William (Cong.), (*Vilavankod*); Sarangapani (Cong.), (*Villupuram*); M. Selvaraj (D.M.K.), (*Vriddhachalam*); Ramachandra Reddiar (Cong.), (*Wandiwash*); D. Dasarathan (SC) (Cong.), (*Wandiwash (R)*); M. Mayandi Nadar (Cong.), (*Washermanpet*); S. Lakshmana Goundar (Cong.), (*Yercaud*); Kolandaiswamy Gounder (ST) (Cong.), (*Yercaud (R)*); Smt. A. Suares (Nominated).

MAHARASHTRA LEGISLATIVE COUNCIL

Strength : 78

Chairman: Vithal Sakharam Page; *Dy. Chairman:* Kumari Jethi Sipahimalani.

Elected by Legislative Assembly

Kashinath Mannalal Agarwal; Sukhadeo Shaligram Agrawal; Mahadeo Supadaji Alshi; Haridas Damaji Awode; Sadashiv Laxman Benadikar; Atmaram Raoji Bhat; Rasiklal Shankarlal Bhatt; Shantaram Mahadeo Dhanukar; Vishwanathrao Madhavrao Katneshwarkar; Mohomed Taher Habib; Kisandas Nemichand; Ganpat Mahadev Nalavade; Panditrao; Atmaram Nana Patil; Vinayak Ganesh Phatak; Dr. A. C. Peter Rebello; Ramkrishna Paikuji Samarth; Smt. Malatibai Ramrao Sarnaik; Bhaurao Vithoba Shende; Bhagwan Dnyandeo Suryavanshi; Sambhjirao Maruti Thorat; Yeshwant Bhimrao Ambedkar; Jagannath Nathuji Korpe; Bholasingh Vishwanath Nayak; Bhaskar Rambhai Patel; Vithal Sakharam Page; Narayan Dnyanu Patil; Lodhu Ichharam Fegade; Hari Bhaskar Bhide; Parshuram Krishnarao Savant; Dinkar Abaji Dabhadkar.

Local Authorities

Marathwada: Abdul Rahamankhan Md. Yusuf Khan; Chandrashekharrao Nandkishore Bajpai; Bhaurao Narsingrao.

Vidarbha: Ramrao Narayanrao Balbudhe; Janrao Harbaji Jawade; Ishwar Bagaji Deshmukh; Ramdayal Ayodhya Prasad Gupta; Vinay Kumar Ramlal Parashar.

Greater Bombay: Devji Rattansey; Sitaram Sakharam Sawant; Chunilal Damodar Barfiwala; Shivajirao Giridhar Patil.

Maharashtra North. Madhav Bajaji Gaikwad; Dr. Sadanand Keshav Galwankar; Gajmal Dalpat Mali; Gopal Ramji Tete; Wamanrao Gangadhar Yardi.

Maharashtra South: Ganpati Nayaku Koli; Pratapraо Pandurang Naik; Kisan Mahadeo Veer; Jagannath Haribhau Girme; Dayashankar Biharilal Agarwal.

Graduates

Moinuddin Burhanuddin Harris; Pralhad Narayan Khode; Anand Sheshgiri Sthalekar; Vishwanath Madhav Subhedar; Mohan Vishwanath Gavandi; Vasudeo Balwant Gogte; Bachharaj Shyamlal Byas.

Teachers

Laxman Nilkanth Chhapekar; Dhondo Vithal Deshpande; Malharrao Narayanrao Kale; Shankar Laxman Ogale; Digambar Hari Sahasrabuddhe; Govind Shridhar Joglekar.

Nominated

Prahlad Sadashiv Dhok; Dr. K. A. Hamied; Smt. Sushila Jayadeo Kulkarni; Smt. Shakuntala Paranjape; Leo Rodrigues; Kum. Jethi T. Sipahimalani; D. S. Sodhi; Harbhai D. Trivedi; P. D. Patil; S. S. Kadam; Ratanlal Mohanlal; Dr. Rafiq Zakaria.

MAHARASHTRA LEGISLATIVE ASSEMBLY

Seats :265 (including one Anglo-Indian nominee). (S.C. 33; S.T. 14).

Speaker, S. L. Silam. *Deputy Speaker*, Dindayal Gupta.

An estimate of party position is given below: Congress 149; Samiti 67; P.S.P. 31; Republican Party (Kamble group) 8; Jan Sangh 4; Independents 5; Nominated 1. The Samyukta Maharashtra Samiti includes the Communists, Peasants and Workers, Republican Party (excluding the Kamble group), Hindu Mahasabha and some independents.

Madhaorao Bhagwantrao Patil (Cong.), (*Achalpur*); Vasant Rao G. Pawar (Cong.), (*Ahmadpur*); Tulsiram Dashrath Kamble (SC) (Cong.), (*Ahmedpur(R)*); Prabhakar Kondaji Bhapkar (R.F.), (*Ahmednagar North*); Trimbak Shivram Bharde (Cong.), (*Ahmednagar South*); Chhanusing Kalyansing Chandele (Cong.), (*Akalkot*); Madhusudan Atmaram Vairale (Cong.), (*Akola*); Saqui Niyazi Mohammad Subhan (Cong.), (*Akot*); Madhav Gotu Patil (Cong.), (*Amalner*); Dattatray Narayan Patil (S. M. S. P. & W.), (*Alibag*); Jalamkhan Sandebaj Khan Tadavi (ST) (Cong.), (*Amalner (R)*); Nana Jedhe (Cong.), (*Ambad*); Baburao Krishnaji Gholap (S.M.C.P.), (*Ambegaon*); Smt. Sushilabai Keshaorao Ingle (Cong.), (*Amgaon*); Kumari M. W. Joshi (Ind.), (*Amravati*); Jagannath Mhashakhetri Temsa (Cong.), (*Armori*); Bapurao Marotrao Deshmukh (Cong.), (*Arvi*); Vishwanath Dagaduji (Cong.), (*Ashti*); Mir Mahmood Ali (Cong.), (*Aurangabad*); Devisingh Venkatsingh Chauhan (Cong.), (*Aswa*); Purushottam Kashirao Deshmukh (Cong.), (*Badnera*); Narayan Manasaram Sonawane (R.F.), (*Baglan*); Syed Ghiyasuddin Kazi S.N., (Cong.), (*Balapur*); Purshottam Ganesh Kher (Cong.), (*Bandra*); Nanasaheb Bapuji Jagtap (P.W.P.), (*Baramati*); Sambhaji Bandoba Londhe (SC) (R.P.G.), (*Baramati (R)*); Shivaji Parasharam Arya (Cong.), (*Barsi*); Sadanand Gopal Warty (P.S.P.), (*Bassein*); Rangrao Parasaramji (Cong.), (*Basmath*); Narain Harbaji Mathankar (Cong.), (*Bhadrawati*); Dada Dajiba Dhote (Cong.), (*Bhandara*); Sitaram Jairam Bhambore (SC) (Cong.), (*Bhandara (R)*); Dr. Shantabai Kotecha (Cong.), (*Bhir*); Bhalchandra Shivram Patil (P.W.P.), (*Bhiwandi*); Yeshwant Gunaji Ambekar (ST) (P.W.P.), (*Bhiwandi (R)*); Bhagwant Rao G. Ghade; (Cong.), (*Bhokardhan*); J. Parasharam Mali (R.F.), (*Bhor*); Kaka Gopal Desai (C.P.I.), (*Bhudargad*); Dattatray Senu Bhirud (Cong.), (*Bhusawal*); Jaiwant Rao D. More (Cong.), (*Biloli*); Laxman Jakoji Dange (SC) (Cong.), (*Biloli (R)*); Ishwarlal Pranjivandas Parekh (Cong.), (*Borivli*); Murharirao Krishnarao Nagmoti (Cong.), (*Brahmapuri*); Govind Bijaji Meshram (SC) (Cong.), (*Brahmapuri (R)*); Smt. Indirabai Ramrao Kotamkar (Cong.), (*Buldhana*); Bapurao Dhondiba Jagtap (C.P.I.), (*Byculla*); Paljibhai Hamabhai Boricha (SC) (R.P.G.), (*Byculla (R)*); Rajaram Bhila Sonawane (P.S.P.), (*Chalisgaon*); Laxmanrao Krishnaji Wasekar (Cong.), (*Chanda*); Narsingh Bhujang Patil (Ind.), (*Chandgad*); Pundalik Balkrishna Chore (Cong.), (*Chandur*); Indravadanrai Manmohanrai Oza (Cong.), (*Chembur*); Namdeo Punjaji Pawar (Cong.), (*Chikhli*); Shankar Ganu Tambitkar (C.P.I.), (*Chiplun*); Gangaram Bhikaji Kamble (SC) (R.P.G.), (*Chiplun (R)*); Kalaram Shankar Dharia (Cong.), (*Colaba*); Dr. Trimbakrao Ramchandra Naravane (S.M.C.P.), (*Dadar*); Shamrao Ramchandra Patil (Cong.), (*Dahanu*); Santu Devoo Thakaria (ST) (Cong.), (*Dahanu (R)*); Dr. Purshottam Vasudev Mandlik (P.S.P.), (*Dapoli*); Narayan Uttamrao Deshmukh (SC) (Cong.), (*Daryapur*); Deoram Shioram Patil (Cong.), (*Darwha*); Jagannath Ramkrishna Tawade (P.W.P.), (*Deogad*); Shankar Rao Bhaurao Chauhan (Cong.), (*Dharmabad*); Dr. Kailasnarayan Shivnarayan Narola (Cong.), (*Dhobi Talao*); Chudaman Ananda Raundale (Cong.), (*Dhulia North*); Ramdas Bhagwan Chaudhari (C.P.I.), (*Dhulia South*); Madhorao Baburao Mahindre (Cong.), (*Digras*); Fakirrao Sakharam Daokhar (C.P.I.), (*Dindori*); Ramdas Pandu Bagul (ST) (C.P.I.), (*Dindori (R)*); A. K. Hafizka (Cong.), (*Dongri*); Sitaram Hirachand Birla (Cong.), (*Erandol*); Dnyandeo Santaram Narvekar (P.W.P.), (*Gadhinglaj*); Sakharam G. Nakhate (Cong.), (*Gangakhed*); N. D. Pagare (SC) (Cong.), (*Gangakhed (R)*); Mrs. Karuna Chandragupta Choudhury (Ind.) (*Gangapur*); Dr. L. M. Pansambal (Cong.), (*Georai*); Pralhad Keshav Atre (Ind.), (*Girgaum*); Manoharbhai Babarbhai Patel (Cong.), (*Gondia*); Puranlal Dharmabhau Rahangdale (P.S.P.), (*Goregaon*); Dattatraya Yeshvant Vilankar (J.S.), (*Guhagar*); Smt. Anjanbai Jaiwantrao (Cong.), (*Hadgaon*); Santram Sakharam Patil (R.F.), (*Hatkanangale*); Dadasaheb Malharrao Shirke (SC) (R.P.G.), (*Hatkanangale (R)*); Ram Dashrath Tupe (P.S.P.), (*Haveli*); Vacant, (*Haveli (R)*); Keshaorao Motiram Zade (Cong.), (*Hinganghat*); B. K. Patil (Cong.), (*Hingoli*); S. N. Choudhari (SC) (Cong.), (*Hingoli (R)*); Punjaji Laxman Govardhane (C.P.I.), (*Igatpuri*); Shankarrao Bajirao Patil (Cong.), (*Indapur*); Sadashio Vithal Umarkar (Cong.), (*Jalamb*); Sadashiv Narayan Bhalerao (C.P.I.), (*Jalgaon*); R. B. Jalnawalla (Cong.), (*Jalna*); Dhondi Raj Ganpat Rao (SC) (Cong.), (*Jalna (R)*); Gajananrao Raghunath Rao Garud (P.S.P.), (*Jamner*); Krishnarao Haribhau Tarade (M.K.), (*Jaoli*); Vijaysinhrao Ramrao Dafle (Ind.), (*Jath*); Trimbak Bhau Mukane (Cong.), (*Jawhar*); Wamanrao A. Nayak (Cong.), (*Jintur*); Shivaji Mahadu Kale (P.S.P.), (*Junnar*); Smt. Vimalabai Vasant Bagal (Ind.), (*Kagal*); R. Mahalingaswami (Cong.), (*Kaij*); G. K. Gaikwad (SC) (Cong.), (*Kaij (R)*); Smt. Tarabai Mansing (Cong.), (*Kalam*); Revappa Krishappa Mane (SC) (Cong.), (*Kalam (R)*); Sheshrao Krishnarao Wankhede (Cong.), (*Kalameshwar*); Naranbai Lasha Patel (Cong.), (*Kalwan*); Krishnarao Narayan Dhulup (Cong.), (*Kalyan*); Bhaskar Balkrishna Sawant (P.W.P.), (*Kankavli*); Baburao Manikrao Patil (Cong.), (*Kannad*); Yeshvantrao Balvantrao Chavan (Cong.), (*Karad North*); Yeshwantrao Jijaba Mohite (M.K.), (*Karad South*); Vacant (*Kasba Peth*); Shankarrao Daulatrao Gedam (Cong.), (*Katol*); Trimbak Dattatraya Deshmukh (Cong.), (*Kelapur*); Govinddas Ratanlal Bhatia (Cong.), (*Khamgaon*); Keshav Rao Dhondge (P.W.P.), (*Khandhar*); Keshav S. Patil (P.S.P.), (*Khatav*); Tarachand Hirachand Wadgaonkar (P.S.P.), (*Khed (Poona Dt.)*); Jagannath Shivram Patne (R.P.G.), (*Khed Ratnagiri Dt.*)); Uttam Baliram Rathod (Cong.), (*Kinwat*); Pandurang Bapurao Salokhe (P.W.P.), (*Kolhapur*); Vishwasrao Vithalrao Mane (Cong.), (*Koregaon*); Bhanushankar Manchharam Yagnik (Cong.), (*Kumbharwada*); Dr. Smt. Anjanabai Narhar Magar (Cong.), (*Kurla*); Shashishekhar Kashinath Athale (Ind.), (*Lanja*); S. Sonawane (Cong.), (*Latur*); Namdeo Mahadeo Jagtap (Cong.), (*Madha*); Ganpat Laxman Sonawane (SC) (Cong.), (*Madha (R)*); Digambar Vinayak Purohit (P.S.P.), (*Mahad*); Homi Jehangir Taleyarkhan (Cong.), (*Mahalaxmi*); F. M. Pinto

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(P.S.P.), (*Mahim*); Haroon Ahmed Ansari (P.S.P.), (*Malegaon*); Bhiku Fakira Shelki (Cong.), (*Malkapur*); Shankarrao Narayanrao Mohite (M.K.), (*Malsiras*); Dr. Shridhar Balkrishna Manjrekar (J.S.), (*Malvan*); Salebhai Abdul Kadar (Cong.), (*Mandvi* (*Greater Bombay Dt.*)); Surendranath Govind Tipnis (P.S.P.), (*Mangaon*); Tanaji Ganpat Gaikwad (R.P.G.), (*Mangaon* (*R*)); Sakaram Ganaji Misal (Cong.), (*Mangrulpir*); Sabdar Ali Sujatali (Cong.); (*Manjlegaon*); Madhavrao Ganpatrao Mane (P.S.P.), (*Matunga*); Jaggannath Ganpatrao Bhatankar (SC) (R.P.G.), (*Matunga* (*R*)); Ramchandra Kashinath Mhalgi (J.S.), (*Mawal*); Dr. D. L. Anande (S.M.C.P.), (*Mazgaon*); Shankarrao Vithalrao *alias* A. Deshmukh (P.W.P.), (*Mehkar*); Tulsiram Rodu Kakkal (SC) (R.P.G.), (*Mehkar* (*R*)); Smt. Kokilabai Jagannath Gawande (Cong.), (*Melghat*); Gundu Dashrath Patil (Cong.), (*Miraj*); Smt. Hirabai Anandrao Salao (Cong.), (*Morsi*); Shantaram Balkrishna Thakare (P. W. P.) (*Murbad*); Smt. Kusum Wamanrao Korpe (Cong.), (*Murtajapur*); D. Z. Palaspagar (SC) (Cong.), (*Murtajapur* (*R*)); Vishwanath R. Tulla (S.M.C.P.), (*Nagpada*); Ardhendu Bhushan Hemendra Kumar Bardhan (C.P.I.), (*Nagpur*); Punjabrao Hukam Shambharkar (SC) (R.P.G.), (*Nagpur* (*R*)); Madan Gopal Agrawal (Cong.), (*Nagpur I*); Dindayal Nandram Gupta (Cong.), (*Nagpur II*); Vithalrao Devidasrao Deshpande (C.P.I.), (*Nanded*); Bhausaheb Sakharam Hiray (Cong.), (*Nandgaon*); Vithalrao Ganpatrao Hande (P.W.P.), (*Nasik*); S. L. Kamble (SC) (R.P.G.), (*Nasik* (*R*)); Abhramji Dongarsing Chaudhari (ST) (Ind.), (*Nawapur* (*R*)); G. Shripatrao (P.W.P.), (*Nilanga*); Deoram Sayaji Wagh (C.P.I.), (*Niphad*); Smt. Nirmala Raje V. Bhosle (Cong.), (*North Sholapur*); V. N. Haralkar (Cong.), (*Omerga*); Udhavrao S. Patil (P.W.P.), (*Osmanabad*); Venkat Rao Jadhav (Cong.), (*Paithan*); Navnitrai Bhogilal Shah (P.S.P.), (*Palghar*); Onkar Narayan Wagh (P.S.P.), (*Panchora*); N. P. Patwardhan (Samiti); (*Pandharpur*); Balajirao Balasaheb Desai (Cong.), (*Panhala*); Dinkar Balu Patil (P.W.P.), (*Panvel*); Annaji R. Gavane (P.W.P.), (*Parbhani*); Vyankatesh Appa Shenoy (P.S.P.), (*Parel*); Shantilal Harjivan Shah (Cong.), (*Parle-Andheri*); Bhaskar Tukaram Auti (C.P.I.), (*Parner*); Shriniyas Chunilal Marwadi (J.S.), (*Parola*); Bhagwanrao D. Borade (Cong.), (*Partur*); Daulatrao Shripatrao Desai (Cong.), (*Patan*) (*Satara*); Narayan G. Avhad (C.P.I.), (*Pathardi*); Vasantrao Rajaram Raut (P.W.P.), (*Pen*); Govind Sonu Katkari (ST) (P.W.P.), (*Pen* (*R*)); Sadashivrao Marutirao Bandisode (SC) (R.P.G.), (*Phaltan* (*R*)); Haribhau Vithalrao Nimbalkar (C.P.I.), (*Phaltan*); Vithal N. Shivarkar (P.S.P.), (*Poona Cantt.*); Raghunathrao Anandrao Powar (P.W.P.), (*Purandhar*); Vasantrao Phulsing Naik (Cong.), (*Pusad*); Daulat Laxman Khadse (SC) (Cong.), (*Pusad* (*R*)); Dnyanadeo Santaram Khandekar (P.W.P.), (*Radhanagari*); Laxmanrao Madhavrao Patil (S.M.C.P.), (*Rahuri*); Dr. Prabhat Mahadev Kulkarni (P.S.P.), (*Rajapur*); Ramchandra Ganpati Dhote (Cong.), (*Rajura*); Narendra Mahipati Tidke (Cong.), (*Ramtek*); Atmaram Vasudev Modak (P.S.P.), (*Ratnagiri*); Madhukar Dhanaji Chaudhari (Cong.), (*Raver*); Keshavrao Raghav Wankhede (SC) (Cong.), (*Raver* (*R*)); G. C. Chaudhary (Cong.), (*Renapur*); Pandurang Ramji Sonap (P.W.P.), (*Roha*); Adku Sonu Paulzagde (Cong.), (*Sakoli*); Nashikrao Khantadu Tirpude (SC) (Cong.), (*Sakoli* (*R*)); Shankarrao Chindhuji Bedse (Ind.), (*Sakri*); Rama Jirya Padvi (ST) (Ind.), (*Sakri* (*R*)); Arjun Bapuji Vichare (Ind.), (*Sangameshwar*); D. A. Deshmukh (R.F.), (*Sangamner*); N. R. Navali (P.S.P.), (*Sangamner*); Vasantrao B. Patil (Cong.), (*Sangli*); Keshavrao Shripatrao Raut (Cong.), (*Sangola*); Maruti Mahadeo Kamble (SC) (Cong.), (*Sangola* (*R*)); Marotrao Sambshiv Kannamwar (Cong.), (*Saoli*); Mohammad Abdulla Khan Pathan (Cong.), (*Saoner*); Vithal Nanasaheb Patil (R.F.), (*Satara*); Smt. Parvatidevi Khem Bhosale (Cong.), (*Sawantwadi*); S. G. Patkar (C.P.I.), (*Sewree*); Vyankat Tanaji Dhobi (Cong.), (*Shahada*); Chandrasing Dhanka Bhandari (ST) (Cong.), (*Shahada* (*R*)); Tryambak Sitaram Karkhanis (P.W.P.), (*Shahuwadi*); Eknath Laxman Bhagwat (C.P.I.), (*Sheogaon*); Yeshwant Chandru Patil (P.W.P.), (*Shirala*); Bhaskarrao Sadashiv Galande (C.P.I.), (*Shirdi*); Arjun Giri Pawar (SC) (R.P.G.), (*Shirdi* (*R*)); Satagonda Revagonda Patil (P.S.P.), (*Shirol*); Jayant Shridhar Tilak (H.M.), (*Shivajinagar*); Keshavlal Veerchand Shah (Cong.), (*Sholapur City North*); Rajaram Savalaram Dhavale (Cong.), (*Sholapur City South*); Nawsherwan Navrozji Satha (R.F.), (*Shrigonda*); Ramchandra Devkaji Pawar (SC) (R.P.G.), (*Shrigonda* (*R*)); Sridhar Mahedeo Joshi (P.S.P.), (*Shukrawarpeth*); N. V. Pathak (Cong.), (*Sillod*); Shankar Gorakh Sonawane (P.S.P.), (*Sindkheda*); Shankar Kondaji Nawale (P.S.P.), (*Sinnar*); Narayansinh Sampatsinh Weakey (P.S.P.), (*Sironcha*); Vishweshwar Rao (ST) (Ind.), (*Sironcha* (*R*)); Shyamkant Damodar More (P.S.P.), (*Sirur*); Shantirappa Basappa Baswanti (Cong.), (*South Sholapur*); Gorji Surji Padavi (ST) (P.S.P.), (*Taloda* (*R*)); Ganpati Dada Lad (P.W.P.), (*Tasgaon*); Dattatraya Balkrishna Tamhane (P.S.P.), (*Thana*); Shaligram Ramratan Dixit (Cong.), (*Tiroda*); S. D. Hangargekar (Cong.), (*Tuljapur*); Mrs. Manoramabai Makade (Cong.), (*Tumsar*); Nevandram Vishindas Gurbani (Cong.), (*Ulhasnagar*); Sadashiv Rajaram Samarth (Cong.), (*Umrer*); Anantram Dayal Choudhari (SC) (Cong.), (*Umrer* (*R*)); Narayan Mahadeo Chamankar (P.S.P.), (*Vengurla*); M. R. Jadhav (Ind.), (*Vijapur*); Bhagwanrao Nanasaheb More (P.W.P.), (*Vita*); Pirajirao Tayapa Madhale (SC) (R.P.G.), (*Vita* (*R*)); Dadasaheb Khasherao Jagtap (M.K.), (*Wai*); Sayaji Laxman Silam (Cong.), (*Walkeshwar*); Nagnath Ramchandra Nayakavadi (R.F.), (*Walva*); Shridharrao Nathobaji Jawade (Cong.), (*Wani*); Kirtimantrao Bhujangrao (ST) (Cong.), (*Wani* (*R*)); Mahadeorao Tukaram Thakre (Cong.), (*Wardha*); Shankerrao Vithalrao Sonawane (SC) (Cong.), (*Wardha* (*R*)); J. D. Rajurkar (Cong.), (*Washim*); R. C. Salve (SC) (Cong.), (*Washim* (*R*)); Ramchandra Dhondiba Bhandare (R.P.G.), (*Worli*); Smt. Ramabai Narayan Deshpande (Cong.), (*Yawal*); Dr. Dagu Shankar Kanade (P.S.P.), (*Yeola*); Ramchandra Jagoba Kadu (Cong.), (*Yeotmal*).

Nominated (Anglo-Indian): N. R. Ferguson.

MANIPUR TERRITORIAL COUNCIL

Constituencies: 30; Seats: 32 (30 elected and 2 nominated); Electorate: 330,211. *Chairman*, Sibo Larho; *Vice-Chairman*, Sinam Bijoy Singh; *Deputy Chairmen*, Yumnam Yaima Singh; Waikhom Nimaichand Singh.

An estimate of party strength: Congress 19, Independents 3, Socialists 6, Communists 4.

Note:—There is no seat reserved for Scheduled Tribes or Scheduled Castes.

D. Athuibo (S.T.) (Soc.), (*Aimol*); Hemam Nhamani Singh (Cong.), (*Bishenpur-Moirang*); Sorokhaibam Chourajit Singh (Cong.), (*Charangpat-Khongjom*); Paolen (S.T.) (Cong.), (*Churachandpur*); Elangbam Nadi Singh (Cong.), (*Hiyanglam-Sugnoo*); Md. Amzed Ali (Cong.), (*Irinbung-Yairipok-Top Chingtha*); Sinam Bijoy Singh (Cong.), (*Jiri*); Khundongbam Itocha Singh (C.P.I.), (*Kakching-Wangjing*); Laisram Kulachandra Singh (Soc.), (*Keisamthong*); Kongrailatpam Borthakur Sarma (Soc.), (*Khirai*); Mairenbam Koireng Singh (Cong.), (*Kumbi-Thanga*); Tongbram Kundo Singh (C.P.I.), (*Lamlai-Keirao*); Alimuddin (Cong.), (*Lilong*); Ngaono Thoiso (S.T.) (Cong.), (*Mao East*); Sibo Larhao (S.T.) (Cong.), (*Mao West*); Yumnam Yaima Singh (Cong.), (*Nambol-Keinou*); Rishang Keishing (S.T.) (Soc.), (*Phaisat*); Nongthombam Ibomcha Singh (Cong.), (*Sagolband*); Athokpam Thabi Singh (C.P.I.), (*Sagolmang*); Khoisnam Heitombi Singh (C.P.I.), (*Salam Khumbong-Konthoujam*); Khwairakpam Chaoba Singh (S.C.) (Cong.), (*Sekmai Lamsang*); Thokchom Chandrasekhar Singh (Soc.), (*Singjamei*); Kabipu Kabui (S.T.) (Ind.), (*Tamenglong*); Paokhohang Haokip (S.T.) (Cong.), (*Tengnoupal*); S. Yungkhom (S.T.) (Ind.), (*Thanlon*); Waikhom Nimaichand Singh (Cong.), (*Thoubal Chandrakhong*); Ngalangzar Ragui (S.T.) (Cong.), (*Ukhrul*); Hidangmayum Dwijamani Dev Sarma (Ind.), (*Uripok-Lalambung-Thangmeiband*); Thokchom Angou Singh (Soc.), (*Wangkhei Kongba*); Ningthoujam Tomchou Singh (Cong.), (*Wangoi-Mayang Imphal*); Shrimati Angnal Akim (S.T.) (Cong.), (*Nominated*); Smt. Rajkumari Mukhara Devi (Cong.), (*Nominated*).

MYSORE LEGISLATIVE COUNCIL

Chairman: K. V. Narasappa.

Dy. Chairman: B. G. Deslipande.

Graduates' Constituency (6)

G. V. Anjanappa (*Mysore South*); M. L. Sreekantiah (*Mysore South*); M. V. Rama Rao (*Mysore South*); Smt. M. R. Lakshamma (*Mysore South*); Balakrishna Gangadharrao Deshpande (*Mysore North*); V. C. Pavate (*Mysore North*).

Teachers' Constituency (6)

M. P. L. Sastry (*Mysore South*); V. R. Naidu (*Mysore South*); S. Mukunda Rao (*Mysore South*); B. V. Banumaiah (*Mysore South*); B. B. Mamadapur (*Mysore North*); Keshav Rao Nitturkar (*Mysore North*).

Local Authorities (21)

C. H. Venkataramanappa (*Mysore South-East*); M. T. Srikantiah (*Mysore South-East*); T. N. Kempahonnjah (*Mysore South-East*); R. Subbanna (*Mysore South-East*); Azeez Sait (*Mysore South*); S. H. Thammiah (*Mysore South*); C. Channiah (*Mysore South*); H. Ramaswamy (*Mysore South*); K. T. Shamaiah Gowda (*Mysore South-West*); K. V. Narasappa (*Mysore South-West*); K. Rangappa (*Mysore South-West*); S. Narasapaya (*Mysore South-West*); S. C. Edke (*Mysore North-West*); H. F. Kattimani (*Mysore North-West*); D. C. Shaha (*Mysore North-West*); G. B. Patil (*Mysore North-West*); P. M. Nada Gowda (*Mysore North-West*); L. H. Hire Goudar (*Mysore North-West*); Ayyangowda Lingan Gowda (*Mysore North-East*); K. Channabasavana Gouda (*Mysore North-East*); V. S. Chatnalli (*Mysore North-East*).

Elected by Legislative Assembly (21)

H. C. Boriah; B. Chikkannaswamy; M. P. Eswarappa; K. Kanthappa Shetty; H. Basappa; Manik Rao; G. K. Mogali; Motensar Hegde; Timmappa Manjappa; M. Mukunda; K. M. Nanjundappa; C. S. Balakrishna Gowda; S. S. Narayana Moorthy; Narayanappa Konda; Raghavendrachar Jagirdar; S. C. Sooryanarayana Chetty; K. S. Channappa; V. S. Timmareddy; Smt. S. Veeramma; Smt. Abbasia Begum Mecci; V. Venkatappa; Vacant.

Nominated (9)

Ramchander Rao Jinge; Tejsingh Rathod; Dr. S. Champa; Smt. Sumitrabai Tatya Saheb Nimbalkar; L. Ramiah; Gorur Ramaswamy Iyengar; Syed Abdul Rahman; Kubnur Balakrishna Rao; Dr. S. C. Nadimath.

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MYSORE LEGISLATIVE ASSEMBLY

Constituencies : 179 (S.M. 150 ; D.M. 29) ; Seats : 209 (S.C. 28 ; S.T. 1) ; Electorate : 99,93,935.

Speaker : S. R. Kanthi. *Deputy Speaker :* L. H. Thimma Bovi.

An estimate of party position is given below : Congress 148 ; Praja Socialist Party 22 ; Communist Party of India 1 ; Scheduled Castes Federation (now Republican Party) 4 ; Peasants and Workers Party 2 ; Independents 29 ; Lok Sevak Sangh 2.

It may be mentioned, however, that in the Assembly the P.S.P. is the only recognized party in the Opposition. The rest are classed as Independents.

G. Anna Rao (Cong.), (*Afzalpur*) ; Chandrashekhar S. Patel (Cong.), (*Aland*) ; Ramchandra Veerappa (SC) (Cong.), (*Aland (R)*) ; J. C. Ramaswami Reddy (Cong.), (*Anekal*) ; Ramchandra Gopal Kamat (Cong.), (*Ankola*) ; Puttegowda *alias* Puttaswamygowda (Ind.), (*Arkalgud*) ; A. R. Karisiddappa (Cong.), (*Arsikere*) ; Jayawantrao Bhojrao Pawar (Ind.), (*Athani*) ; Patil Venkanagouda Hanumantgouda (Cong.), (*Badami*) ; Muranal Basappa Thammanna (Cong.), (*Bagalkot*) ; Smt. Sushilabai Hirachand Shah (Cong.), (*Bagewadi*) ; Manjayya Shetty (Cong.), (*Baindur*) ; K. V. Byregowda (Cong.), (*Bangalore North*) ; Y. Ramakrishna (SC) (Cong.), (*Bangalore North (R)*) ; A. V. Narasimhareddy (Cong.), (*Bangalore South*) ; B. Basavalingappa (SC) (Cong.), (*Bangalore South (R)*) ; E. Narayana Gowda (Ind.), (*Bangarpet*) ; L. S. Venkaji Rao (Cong.), (*Basavangudi*) ; Vithal Shitaram Patil (P.W.P.), (*Belgaum I*) ; Samaji Nagondra Omanna (P.W.P.), (*Belgaum II*) ; Sunthankar Balakrishna Rangarao (Ind.), (*Belgaum City*) ; Mandhlur Gangappa (Ind.), (*Bellary*) ; D. Ratnavarma Hegade (Cong.), (*Beltangadi*) ; B. N. Borannagowda (Cong.), (*Belur*) ; B. H. Lakshmmiah (SC) (Cong.), (*Belur (R)*) ; D. T. Seetharama Rao (Cong.), (*Bhadravati*) ; Balwantrao (Ind.), (*Bhalki*) ; B. Sham Sunder (SC) (Ind.), (*Bhalki (R)*) ; Maqsood Ali Khan (Cong.), (*Bidar*) ; Dr. Sardar Basavraj Karbasappa Nagur (Ind.), (*Bijapur*) ; G. M. Chinnaswamy (Ind.), (*Biligere*) ; Desai Rachappa Mallappa (Cong.) (*Bilgi*) ; Jagajjeevandas Shetty (Cong.), (*Brahmawar*) ; Mahmood Shariff (Cong.), (*Broadway*) ; B. K. Puttaramaiah (P.S.P.), (*Channapatna*) ; A. Bheemappa Naik (Cong.), (*Challakere*) ; T. Hanumaiah (SC) (Cong.), *Challakere (R)*) ; U. M. Madappa (P.S.P.), *Chamarajanagar*) ; B. Rachiah (SC) (Cong.), (*Chamarajanagar (R)*) ; Smt. Lakshmidevi Ramanna (Cong.), (*Chamarajpet*) ; N. Hutchamasthygowda (Cong.), (*Chandrasekharapura*) ; Kundur Rudrappa (Cong.), (*Chennagiri*) ; G. E. Hoover (Ind.), (*Chickpet*) ; C. K. Rajaiahshetty (P.S.P.), (*Chicknaikanahalli*) ; S. Muni Raju (Cong.), (*Chikballapur*) ; A. Muniyappa (SC) (Cong.), (*Chikballapur (R)*) ; A. M. Basave Gowda (P.S.P.), (*Chikmagalur*) ; L. H. Thimma Bovi (SC) (Cong.), (*Chikmagalur (R)*) ; Kothavale Shankarrao Dadasaheb *alias* Dadoda (Cong.), (*Chikodi*) ; Veerendra Patil (Cong.), (*Chincholi*) ; T. M. C. Anjenaya Reddy (Cong.), (*Chintamani*) ; G. Sivappa (Cong.), (*Chitradurg*) ; G. Duggappa (SC) (Cong.), (*Chitradurg (R)*) ; Smt. Vijaya Raghvender Rao (Cong.), (*Chitapur*) ; V. Srinivasa Shetty (P.S.P.), (*Coondapur*) ; V. P. Deenadayalu Naidu (Cong.), (*Cubbonpet*) ; K. T. Jambanna (P.S.P.), (*Davangere*) ; B. Sivanna Warad (Cong.), (*Deodurg*) ; M. B. Inamati (Cong.), (*Dharwar*) ; T. Siddalingaiya (Cong.), (*Doddballapur*) ; Gadag Kuberappa Parappa (Cong.), (*Gadag*) ; Smt. Dyavamma (Cong.), (*Gandasi*) ; Smt. Nagarathnamma (Cong.), (*Gandhinagar*) ; B. V. Desai (Cong.), (*Gangavati*) ; K. H. Venkata Reddy (Ind.), (*Gauribidanur*) ; Karalingannavar Ningappa Appayya (Cong.), (*Gokak I*) ; Panchagavi Appanna Ramappa (Cong.), *Gokak II*) ; C. J. Muckkannappa (Ind.), (*Gubbi*) ; Mohmad Ali Mehtab Ali (Cong.), (*Gulbarga*) ; Pattanashetti Madivalappa Rudrappa (Cong.), (*Guledgud*) ; Smt. K. S. Nagarathnamma (Ind.), (*Gundlupet*) ; M. M. Pateel (Cong.), (*Hadagalli*) ; Patil Basangouda Rudragouda (Ind.), (*Hangal*) ; M. Ramappa (P.S.P.), (*Harihar*) ; M. M. J. Sadyojathappaiah (P.S.P.), (*Harpanahalli*) ; M. Danappa (SC) (P.S.P.), (*Harpanahalli (R)*) ; K. T. Dasappa (Ind.), (*Hassan*) ; Smt. Mailar Shiddavva (Cong.), (*Haveri*) ; K. L. Narasimhaiah (Cong.), (*Hebbur*) ; Gubbi Shankarrao Basalingappagouda (Cong.), (*Hirekerur*) ; K. Kenchappa (P.S.P.), (*Hiriyur*) ; Y. Veerappa (P.S.P.), (*Holenarasipur*) ; J. H. Shamsuddin (Cong.), (*Honawar*) ; H. S. Rudrappa (Cong.), (*Honnali*) ; A. S. Dudhya Naik (SC) (Cong.), (*Honnali (R)*) ; S. R. Ramaiah (Cong.), (*Hosakote*) ; Smt. Rukmaniamma (SC) (Cong.), (*Hosakote (R)*) ; B. S. Shankarappa (Ind.), (*Hosdurga*) ; Dr. R. Nagan Gowda (Cong.), (*Hospet*) ; Patil Mudgouda Ramanagouda (Cong.), (*Hubli*) ; Mohasin Fakaruddin Husensab (Cong.), (*Hubli City*) ; Patil Malagouda Punagouda (Cong.), (*Hukeri*) ; Smt. Bhogale Champabai Piraji (SC) (Cong.), (*Hukeri (R)*) ; Madhav Rao (P.S.P.), (*Hulsur*) ; M. S. Kamtikar (Cong.), (*Humnabad*) ; Kanthi, Shivalingappa Rudrappa (Cong.), (*Hungund*) ; D. Devaraj Urs (Cong.), (*Hunsur*) ; N. Rachiah (SC) (Cong.), (*Hunsur (R)*) ; Kabadi Jatteppa Laxman (SC) (Cong.), (*Indi (R)*) ; Surpur Mallappa Karabasappa (Cong.), (*Indi*) ; Jatti Basappa Danappa (Cong.), (*Jamkhandi*) ; Sharangowda Sidramayya (Ind.), (*Jewargi*) ; D. H. Rudrappa (Cong.), (*Kadur*) ; B. A. Desai (L.S.S.), (*Kalghatgi*) ; Shankershetti Rachappa Patil (Cong.), (*Kalgi*) ; Smt. Annapurna Bai Ragate (Cong.), (*Kalyani*) ; M. Linge Gowda (P.S.P.), (*Kanakapura*) ; Kanthappa Kedinje Hegde (Cong.), (*Karkal*) ; Manjappa Ullal (SC) (Cong.), (*Karkal (R)*) ; Gaonkar Sakharam Dattatraya (Cong.), (*Karwar*) ; F. X. Pinto Denis (Cong.), (*Kaup*) ; Birje Laxman Balaji (Ind.), (*Khanapur*) ; D. Abdul Rasheed (Cong.), (*Kolar*) ; M. C. Narasimhan (C.P.I.), (*Kolar Gold Fields*) ; C. M. Arumugham (SC) (S.C.F.), (*Kolar Gold Fields (R)*) ; T. P. Boriah (Cong.), (*Kollegal*) ; Smt. Kempamma (SC) (Cong.), (*Kollegal (R)*) ; Mallikarjun S. Patil (Cong.), (*Koppal*) ; H. M. Channabasappa (Cong.), (*Krishnarajanagar*) ; M. K. Bomme Gowda (Cong.), (*Krishnarajapet*) ; Smt. V. Mirjankar Vasantalata (Cong.), (*Kumta*) ; Kambli Timmanna Kenchappa (Cong.), (*Kundgol*) ; T. N. Mudalagirigowda (Cong.), (*Kunigal*) ; Smt. Allum Sumangalamma (Cong.), (*Kurugodu*) ; Pundlikappa Eswarappa (Cong.), (*Kushtagi*) ; Bassangowda (Cong.), (*Lingsugur*) ; H. K. Veeranna Gowda (Cong.), (*Maddur*) ; Mali Mariyappa (Cong.), (*Madhugiri*) ; R. Channigaramaiah (SC) (Cong.), (*Mahdugiri (R)*) ; T. D. Maranna (Cong.), (*Magadi*) ; H. V. Veeregowda (Cong.), (*Malavalli*) ; M. Mallikarjunaswamy (SC) (Cong.), (*Malavalli (R)*) ; T. Parthasarathy (Ind.), (*Malleswaram*) ; H. C. Linga Reddy (Cong.), (*Malur*) ; G. S. Bommegouda (Ind.), (*Mandya*) ; Vaikunta Baliga (Cong.), (*Mangalore I*) ; Gajanan Pandit (Cong.), (*Mangalore II*) ; Smt. Basavarajeshwari (Cong.), (*Manvi*) ; K. Mallappa (Cong.), (*Mercara*) ; S. Nijalingappa (Cong.), (*Molakalmuru*) ; Sidhanti Pranesh Gurubhatt (Cong.), (*Muddebihal*) ; Hiralal Bandulal Shah (Cong.), (*Mudhol*) ; B. L. Narayana Swamy (Ind.), (*Mulbagal*) ; J. Narayanappa (SC) (Cong.), (*Mulbagal (R)*) ; Hulkoti Chanbasappa Sadashivappa (Cong.), (*Mundargi*) ; K. Puttaswamy (Cong.), (*Mysore*) ; K. S. Suryanarayana Rao (Cong.), (*Mysore City*) ; A. Mohamed Sait (Ind.), (*Mysore City North*) ; T. Mariappa (Cong.), (*Nagamangla*) ; J. B. Mallaradhya, (P.S.P.), (*Nanjangud*) ; Adiveppagouda Shiddangouda Patil (Cong.), (*Nargund*) ; Ramanagouda Marigouda Patil (Cong.), (*Navalgund*) ; Alur Hanumanthappa (Cong.), (*Nelamangala*) ; Lokasevaniratha M. Hanumanthiah (SC) (Cong.), (*Nelamangala (R)*) ; Naik Balawant Dattoba (Ind.), (*Nipani*) ; G. Venkatai Gowda (Ind.), (*Palayam*) ; Dr. K. Nagappa Alva (Cong.), (*Panemangalore*) ; B. Chamaiah (P.S.P.), (*Pandavapura*) ; Padaki Shankar Rao Bindoor Rao (Ind.), (*Parasgad*) ; K. M. Deviah (Con.), (*Periyapatna*) ; K. Venkatramana Gowda (Cong.), (*Puttur*) ; Subayya Naik (ST) (Cong.), (*Puttur (R)*) ; Patil Vasantrao Lakhgonda (Ind.), (*Raibag*) ; Talwalkar Sampat Rao Pradhanji (SC) (S.C.F.), (*Raibag (R)*) ; Syed Easa (Cong.), (*Raichur*) ; G. Bhimanna (SC) (Cong.), (*Raichur (R)*) ; K. Hanumanthaiya (Cong.), (*Ramanagaram*) ; Pattan Mahadevappa Shivabasappa (Ind.), (*Ramdurg*) ; Patil Kallanagouda Fakiragouda (Cong.), (*Ranibennur*) ; Smt. Sambrani Yallawwa (SC) (Cong.), (*Ranibennur (R)*) ; A. J. Dodameti (Cong.), (*Ron*) ; Khot Balaji Govind (Ind.), (*Sadalga*) ; D. Mookappa (Cong.), (*Sagar*) ; Koujalgi Hemappa Virabhadrappa (Cong.), (*Sampgaon I*) ; Nagnur Mugut Sab Nabi Sab (Cong.), (*Sampgaon II*) ; M. Y. Ghorpade (Cong.), (*Sandur*) ; Mallappa Lingappa (Cong.), (*Serum*) ; J. P. Sarwesh (SC) (Ind.), (*Serum (R)*) ; Y. Virupakshappa (Cong.), (*Shahpur*) ; Patil Rudragouda Chanabasangouda (Cong.), (*Shiggaon*) ; Smt. Rathnamma Madhav Rao (Cong.), (*Shimoga*) ; Smt. Leelavati Venkatesh Magadi (Cong.), (*Shirahatti*) ; Kumar Naik Venkatappa Naik (Cong.), (*Shorapur*) ; J. Venkatappa (Ind.), (*Sidlaghatta*) ; Patil Shankaragouda Yeshawantagouda (Cong.), (*Sindgi*) ; Basawant Rao Bassangowda (Cong.), (*Sindhanur*) ; T. Taregowda (Cong.), (*Sira*) ; P. Anjanappa (SC), (Cong.), (*Sira (R)*) ; B. E. Ramaiah (Cong.), (*Siruguppa*) ; Ramakrishna Hegde (Cong.), (*Sirsi*) ; N. G. Narasimhegowda (P.S.P.), (*Sravanabelagola*) ; Kadidal Manjappa (Cong.), (*Sringeri*) ; A. G. Chunche Gowda (Ind.), (*Srirangapatna*) ; K. Doomappa (Cong.), (*Surathkal*) ; Patil Kumargouda Adiveppagouda (Ind.), (*Talikot*) ; T. R. Parameshwaraiah (Cong.), (*Tarikere*) ; A. R. Badri Narayan (Cong.), (*Thirthahalli*) ; Chanbasappa Jagadevappa Ambli (Cong.), (*Tikota*) ; K. P. Revannasiddappa (P.S.P.), (*Tiptur*) ; M. Rajasekhara Murthy (Cong.), (*T. Narsipur*) ; G. N. Puttanna (P.S.P.), (*Tumkur*) ; T. Subramanya (Cong.), (*Turuvekere*) ; Upendra S. Nayak (P.S.P.), (*Udipi*) ; Mrs. Grace Tucker (Cong.), (*Ulsoor*) ; K. P. Kurumbaiya (P.S.P.), (*Virajpet*) ; S. Kariappa (Cong.), (*Virupakshipur*) ; B. Nadgowda (Ind.), (*Yadgir*) ; Vacant, (*Yelburga*).

F. W. Corbett (*Nominated Anglo-Indian*).

ORISSA LEGISLATIVE ASSEMBLY

No. of constituencies : 101 (S.M. 62 ; D.M. 39). No. of seats : 140 (Res. for S.C. 25 ; S.T. 29). Electorate : 8,442,849.

Speaker : Lingaraj Panigrahi. *Dy. Speaker :* Vacant.

An estimate of party position is given below :

Congress 82 ; Ganatantra Parishad 37 ; Praja Socialist Party 10 ; Communist Party 4 ; Independents 7.

Makar Seth (SC), (Cong.), (*Anandpur*) ; Kumud Singh (Cong.), (*Angul*) ; Lokenath Misra (Cong.), (*Aska*) ; Achutananda Das (Ind.), (*Athalgarh*) ; Kshetramohan Panigrahi (G.P.), (*Athamallick*) ; Dalaganjan Chhuria (Cong.), (*Attabira*) ; S. N. Banj Deo (Cong.), (*Aul*) ; Sonaram Soren (Cong.), (*Bahalda*) ; Arjun Patra (P.S.P.), (*Baisinga*), Bijoy Krushna De (Cong.), (*Balasore*) ; Bipin Behari Das (Cong.), (*Balikuda*) ; Gopinath Bhoi (Cong.), (*Balipatna*) ; (*Balliguda*) ; Gokulananda Parahraj (P.S.P.), (*Banki*) ; Jshwar Chandra Nayak (Cong.), (*Banjiriposi*) ; Raghunath Misra (G.P.), (*Banpur*) ; Bidyadhar Nayak (Cong.), (*Baramba*) ; Gananath Pradhan (Ind.), (*Bargarh*) ; Santosh Kumar Sahu (Cong.), (*Baripada*) ; Maheswar Bag (P.S.P.), (*Basta*) ; Nilamani Routroy (Cong.), (*Basudevpur*) ; Gangadhar Paikray (C.P.I.)

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(*Begunia*); Dhananjaya Leuka (Cong.); (*Berchana*); Sisir Kumar Narendradeo (Ind.), (*Berhampur*); Nityananda Mahapatra (Ind.), (*Bhadrak*); Maguni Charan Pradhan (Cong.), (*Bhanjanagar*); Mrs. Saraswati Pradhan (Cong.), (*Bhatli*); Anchal Majhi (G.P.), (*Bhawanipatna*); Pyari Mohan Das (P.S.P.), (*Bhograi*); Satyapriya Mohanty (Cong.), (*Bhubaneswar*); Mohan Nag (SC), (Cong.), (*Bijipur*); Chittaranjan Nayak (Cong.), (*Binajpur*); Anantaram Nanda (G.P.), (*Binka*); Premchand Bhagat (G.P.), (*Bisra*); Biswanath Choudhury (G.P.), (*Bissam-Cuttack*); Chandra Sekhar Singh (G.P.), (*Bolangir*); Hemendra Prasad Mohapatra (SC), (G.P.), (*Bonai*); Anirudha Dipa (G.P.), (*Boudh*); Gopabandhu Patra (Ind.), (*Brahmagiri*); Prasanna Kumar Panda (C.P.I.), (*Brajrajnagar*); Gurucharan Naik (G.P.), (*Champura*); Bairagi Jena (Cong.), (*Chandbali*); Lakshman Mahapatra (C.P.I.), (*Chatrapur*); Pada Nayak (Cong.), (*Chhendipada*); Bijoyanand Patnaik (Cong.), (*Choudwar*); Biren Mitra (Cong.), (*Cuttack*); Laxman Mallick (Cong.), (*Cuttack-Sadar*); Jagannath Tripathy (Cong.), (*Dabugam*); Saheb Naik (Cong.), (*Dasapalla*); Muralidhar Jena (Cong.), (*Dhamnagar*); Mukunda Naik (G.P.), (*Dharmagarh*); Gadadhar Dutt (Cong.), (*Dharamsala*); Jayadeb Thakur (G.P.), (*Deogarh*); Mrs. Ratnaprava Debi (G.P.), (*Dhenkamal*); Raghunath Mahapatra (Cong.), (*Digapahandi*); Dr. P. V. Jagannathrao (Cong.), (*Dura*); Ratnamali Jena (Cong.), (*Ersama*); Kalia Dehuri (G.P.), (*Gondhia*); Kanduri Charan Mallick (SC), (P.S.P.), (*Govindpur*); Narasimho Patro (Cong.), (*Gunupur*); Sarangadhar Pradhan (Cong.), (*G. Udaigiri*); Brimdaban Nayak (Cong.), (*Hingili*); Udaya Nayak (Cong.), (*Jagannath Prasad*); Priyanath Dey (Cong.), (*Jagatsinghpur*); Prasanna Kumar Pal (P.S.P.), (*Jaleswar*); Santanu Kumar Das (Cong.), (*Jaipur-East*); Madanmohan Patnaik (Cong.), (*Jaipur-West*); Mochiram Triya (Cong.), (*Jashipur*); Raghunath Patnaik (Cong.), (*Jeypore*); Vinod Bihari Bariha (Cong.), (*Jharsuguda*); Maheshwar Naik (G.P.), (*Junagarh*); Upendra Mahanty (Cong.), (*Kakatpur*); Ramachandra Mardaraj Deo (Cong.), (*Kallikoti*); Brundaban Tripathi (G.P.), (*Kamakshanagar*); R. N. Singh Deo (G.P.), (*Kantahanji*); Prabhakar Behara (Cong.), (*Karanjia*); Mrs. Nabakumari Debi (G.P.), (*Kasipur*); Bishnu Prasad Misra (G.P.), (*Katarbaga*); Janardhan Bhanj Deo (G.P.), (*Keonjhar*); Dhruba Charan Sahu (P.S.P.), (*Kendrapada*); Harihar Singh Mardaraj (Cong.), (*Khandapara*); Anupsingh Deo (Cong.), (*Khariar*); Prasanna Kumar Das (P.S.P.), (*Khunta*); Banamali Patnaik (Cong.), (*Khurda*); Biswanath Das (Cong.), (*Kodala-West*); Lingaraj Panigrahi (Cong.), (*Kodala-East*); T. Sanganna (Cong.), (*Koraput*); Dayanidhi Naik (G.P.), (*Koksara*); Mahadebo Bakaria (Cong.), (*Kotpad*); Ramprasad Misra (G.P.) (*Loisingha*); Birakeshari Deo (G.P.), (*Madanpur-Rampur*); Surendranath Patnaik (Cong.), (*Maharga*); Guru Nayak (G.P.), (*Malkanjiri*); Sachidananda Padhi (Cong.), (*Melchamunda*); Biswanath Nayak (Cong.), (*Mohana (R)*); Sakila Soren (P.S.P.), (*Muruda*); Ghasiram Majhi (Ind.-Swatantra), (*Nawapara*); Brundaban Chandra Singh (Cong.), (*Nayagarh*); Rajendra Chandra Harichandan (G.P.), (*Nilgiri*); Govinda Chandra Sethi (Cong.), (*Nimapara*); Miru Harijan (SC), (Cong.), (*Nowrangpur*); Ganeswar Mahapatra (Cong.), (*Padwa*); Bira Bikramaditya Singh (Cong.), (*Padmapur*); Pabitra Mohan Pradhan (Cong.), (*Pal-Lahara*); Nalla Kurma Naikulu (Cong.), (*Parlakimedi*); Lokanath Misra (Cong.), (*Patkura*); Raja Ballabh Misra (G.P.), (*Patna*); Ramesh Chandra Bhoi (SC), (G.P.), (*Patnagarh*); Trilochan Jani (Cong.), (*Palrapur*); Prahlad Mallik (Cong.), (*Pattamundei*); Ramchandra Patnaik (Cong.), (*Pipili*); Himamsu Sekhara Padhi (Cong.), (*Phulbani*); Pangi Musuri Santa (Cong.), (*Pottangi*); Bhagaban Pratihari (Cong.), (*Puri*); Padmacharan Nayak (Ind.), (*Rajnagar*); Bhanugang Tribhuvan Deb (G.P.), (*Rairakhol*); Chandramohan Singh (Cong.), (*Rairangpur*); Rang Ballabh Amat (Cong.), (*Rajganjpur (R)*); Murlidhar Kuanr (Cong.), (*Ramchandrapur*); Ramachandra Ram (C.P.I.), (*Ranpur*); Madangi Kamayya (Cong.), (*Rayagada*); Aintho Sahu (G.P.), (*Saintala*); Baidhar Bahera (P.S.P.), (*Salepur*); Banamali Babu (Cong.), (*Sambalpur*); Raj Raj Dev (G.P.), (*Satyabadi*); Bhagiratha Das (Cong.), (*Simulia*); Daulata Gauda (G.P.), (*Sonepur*); Karunakar Panigrahi (Cong.), (*Soro*); Baidhar Singh (Cong.), (*Sukinda*); Harihar Patel (G.P.), (*Sundergarh*); Arjuna Naik (Cong.), (*Suruda*); Pabitra Mohan Pradhan (Cong.), (*Talcher*); Gangadhar Pradhan (S.T.), (G.P.), (*Talsara*); Gobinda Munda (G.P.), (*Telkoi*); Pratapchandra Mohanty (Cong.), (*Titlol*); Achyutananda Mahananda (SC), (G.P.), (*Titilgarh*); Nandkishore Misra (G.P.), (*Tusra*); Mannohan Tudu (Cong.), (*Udala*); Rama Bhoya (Cong.), (*Udayagiri (R)*); Sadashiv Tripathy (Cong.), (*Umerkoti*).

THE PONDICHERRY REPRESENTATIVE ASSEMBLY

Total Strength of Electorates 189,262. (Pondicherry 130,283; Karikal 45,690; Mahé 9,162; Yanam 4,127).

Total No. of Constituencies 39 (Pondicherry 22, Karikal 12, Mahé 3 and Yanam 2).

An estimate of party position is as follows:—Cong. 23; Popular Front 13; Independent 2; P.S.P. 1.

President: A. S. Kankeyan.

Vice-Presidents: V. Ramassamypoulle; V. Annamalainaicker; V. M. C. Varadapoulle.

Secretaries: K. S. Govindaradjou; R. Souprayalou; R. Soupramanien; Smt. Kamichetty Savitry.

Varaprasada Raw Naidow (Ind.), (*Adiandhrapeth*); P. C. Purushotama Reddiar (P.F.), (*Archivack-Tavalacoupom*); K. Ramanujam (P.F.), (*Ariancoupom Aldee*); Souprayalou (Cong.), (*Badrakaliammane*); R. Soupramanien (Cong.), (*Bahour Aldee*); S. Somasundara Chettiar (Cong.), (*Calapeth*); Smt. Kamichetty Savitry (Ind.), (*Canacalapeth*); Smt. Saraswathy Subbiah (P.F.), (*Cassicade*); R. Clemenceau Nourougassamy (P.F.), (*Couroussoucoupom*); Soundirassamy (Ind.), (*Darparaniswaraswamycovil*); Annamalainaicker (Cong.), (*Embalom-Calmandabam*); K. S. Govindaradjou (Cong.), (*Karaicovilpattou*); K. E. M. Mohamed Ibrahim Marecar (Ind.), (*Karikal Centre*); Mouhamed Ismail (Cong.), (*Karikal Nord*); Prosper Kolande Vedanayagam (Cong.), (*Karikal Sud*); C. E. Bharadane (Cong.), (*Mahe*); Edouard Goubert (Cong.), (*Mannadipeth Aldee*); V. Kailassa Subbiah (P.F.), (*Mourangapakkame Nainarmandabam*); P. Chanemougame (Cong.), (*Negoungadou*); N. Govindarassou (P.F.), (*Nellitope Aldee*); Rattinasabapady (Cong.), (*Neravy*); V. Vengadassoubareddy (Cong.), (*Nettapakkam Aldee*); N. Gouroussamy (P.F.), (*Oulgaret Aldee*); R. Vaithilingam (P.F.), (*Oupalom*); A. Pakkir Mohamed (P.F.), (*Oussoudou*); P. C. Ramin (P.S.P.), (*Pallour*); V. N. Pourushotamane (Cong.), (*Pandaquel*); Varadapoulle (Cong.), (*Pattinam Nord*); Nagamouttoupoulle (Cong.), (*Pattinam Sud*); S. Kangayen (Cong.), (*Pondicherry*); Ramassamypoulle (Cong.), (*Poste-de-Police Madacovil-de-Cotchery*); V. Narayanassamy (P.F.), (*Rettiarpaleom Aldee*); M. M. Houssaine (P.F.), (*Rue de Bussy*); S. Nadarajan (P.F.), (*Sellipeth—Souttoukeny*); K. M. Gouroussamypoulle (Cong.), (*Tiroumenyajagar*); M. Chidambaram (P.F.), (*Villianur Aldee*).

PUNJAB LEGISLATIVE COUNCIL

Strength: 51.

An estimate of party strength: Congress 42 (Excluding the Chairman); Independents 5; Jan Sangh 3.

The party affiliation of three members is not available.

Chairman: Sardar Kapoor Singh.

Dy. Chairman: Chand Ram.

Secretary: R. L. Nirola.

Asstt. Secretary: Sukhendra Singh.

Private Secretary to Chairman: Kartar Singh Mann.

Ministers: Gopi Chand Bhargava (*Legislative Assembly*); Mohan Lal (*Legislative Assembly*); Birendar Singh (*Legislative Assembly*).

Deputy Ministers: Yashwant Rai (*Nominated*); Yash Pal (*Legislative Assembly*).

Balwant Rai Ahluwalia (*Legislative Assembly*); Brish Bhan (*Local Authorities*); Chaman Lal (*Teachers'*); Darbari Lal Gupta (*Local Authorities*); Daya Krishan (*Local Authorities*); Des Raj (*Legislative Assembly*); Dina Nath Saggar (*Local Authorities*); Durga Dass Khanna (*Legislative Assembly*); Gian Kaur Vidyarthi (*Nominated*); Gulab Singh (*Local Authorities*); Gurbakhsh Singh (*Local Authorities*); Gurcharan Singh (*Teachers'*); Giani Gurdit Singh (*Legislative Assembly*); Harinder Singh (*Legislative Assembly*); Harendra Singh Sirohi (*Local Authorities*); Hukam Singh (*Legislative Assembly*); Ila Rani Ahooja (*Graduates'*); Jodh Singh (*Nominated*); Kalayan Singh (*Local Authorities*); Kartar Singh (*Legislative Assembly*); Krishan Lal (*Local Authorities*); Kundan Lal Ahuja (*Local Authorities*); Lekhwati Jain (*Local Authorities*); Milkhi Ram Rattan (*Legislative Assembly*); Nand Lal (*Graduates'*); Nihal Singh (*Legislative Assembly*); Prem Chand Markanda (*Teachers'*); Prem Singh Lalpur (*Local Authorities*); Premsukh Dass (*Local Authorities*); Prithvi Singh Azad (*Legislative Assembly*); Pritpal Kaur Wasu (*Nominated*); Raghuvir Sharan Sharma (*Local Authorities*); Ram Dhan Sharma (*Nominated*); Ranjit Singh (*Local Authorities*); Sahib Ram (*Legislative Assembly*); Sultan Singh (*Legislative Assembly*); Suraj Bhan (*Graduates'*); Surja Ram (*Nominated*); Tek Chand (*Local Authorities*); Ude Singh Mann (*Teachers'*); V. G. Bhan (*Nominated*); Umrao Singh (*Local Authorities*); Virendra (*Graduates'*).

S. F. Deane (*Nominated*).

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PUNJAB LEGISLATIVE ASSEMBLY

Constituencies: 121 (S.M. 88; D.M. 33). Seats: 154 (S.C. 33). Electorate: 92,08,926.

Speaker: Sardar Gurdial Singh Dhillon. *Dy. Speaker:* Chaudhri Sarup Singh.

An estimate of party position is given below: Congress 118; Swatantra and Independent Coalition Group 9; Communist Group 8; Jan Sangh Group 7; Panthic Group 6; Praja Socialist Group 2; Haryana Independent Group 4.

Chaudhri Sahi Ram Bishnoi (J.S.), (*Abohar*); Sardar Achhar Singh Chhina (C.P.I.), (*Ajnala*); Smt. Krishna Sethi (Cong.), (*Amb.*); Dev Raj Anand (Cong.), (*Ambala Cantonment*); Khan Abdul Ghaffar Khan (Cong.), (*Ambala City*); Sardar Sarup Singh (P.G.), *Amritsar City Civil Lines*); Dr. Baldev Parkash (J.S.), (*Amritsar City East*); Balramdas Tandon (J.S.), (*Amritsar City West*); Sardar Waryam Singh (Cong.), (*Amritsar Sadar*) '*G*'; Sardar Charan Singh (SC) (Cong.), (*Amritsar Sadar* (*R*)); Chaudhri Baloo Ram Batth (Cong.), (*Anandpur*); Sardar Gurmit Singh Mit (Cong.), (*Baghapurana*) '*G*'; Sardar Sohan Singh (SC) (Cong.), (*Baghapurana* (*R*)); Chaudhri Sri Chand (Cong.), (*Bahadurgarh*); Sardar Kartar Singh Diwana (Cong.), (*Burnala*); Gorakh Nath (Cong.), (*Batala*); Jathedar Sohan Singh Jalalusman (Cong.), (*Beas*); Harbans Lal (Cong.), (*Bhatinada*); Ram Kumar Bidhat (Cong.), (*Bhiwani*); Chaudhari Chambel Singh (Cong.), (*Butana*); Sardar Niranjan Singh Talib (Cong.), (*Chandigarh*); Chaudhry Attar Singh (Cong.), (*Dadri*) '*G*'; Sis Ram (SC) (Cong.), (*Dadri* (*R*)); Giani Kartar Singh (Cong.), (*Dasuya*); Sardar Waryam Singh (Cong.), (*Dera Baba Nanak*); Thakur Mehr Singh (Cong.), (*Dera Gopipur*); Chaudhry Hari Ram (Cong.), (*Dharamsala*); Sardar Harbans Singh (Cong.), (*Dhariwal*); Sardar Jasdev Singh Sandhu (Cong.), (*Dhuri*) '*G*'; Comrade Jangir Singh (SC) (C.P.I.), (*Dhuri* (*R*)); Sardar Mehar Singh (Cong.), (*Faridkot*); Mani Ram Godara (Cong.), (*Fatehabad*); Sardar Jogindar Singh (Cong.), (*Fatehgarh*); Chaudhri Radha Krishan (Cong.), (*Fazilka*); Kundan Lal (Cong.), (*Ferozepur*): Chaudhri Mohammed Yasin Khan (Cong.), (*Ferozepur Jhirka*); Choudhari Lahri Singh (Cong.), (*Ganaur*); Dr. Bhag Singh (C.P.I.), (*Garhshankar*) '*G*'; Ch. Dasondha Singh (SC) (Cong.), (*Garhshankar* (*R*)); Multan Singh (Cong.), (*Gharaunda*); Ch. Bharat Singh (S.I.C.G.), (*Gohana*) '*G*'; Ch. Chajju Ram (SC) (Cong.), (*Gohana* (*R*)); Prabodh Chandra (Cong.), (*Gurdaspur*) '*G*'; Chaudhri Sunder Singh (SC) (Cong.), (*Gurdaspur* (*R*)); Rao Gajraj Singh (Cong.), (*Gurgaon*); Gyani Bhaktawar Singh Rai (Cong.), (*Guru Har Sahai*); Smt. Sarla Devi Sharma (Cong.), (*Hamirpur*) '*G*'; Rup Singh Phul (SC) (Cong.), (*Hamirpur* (*R*)); Chaudhri, Sarup Singh (Cong.), (*Hansi*); Chaudhri Dalbir Singh (SC) (Cong.), (*Hansi* (*R*)); Sumer Singh (Cong.), (*Hassanpur*); Lala Balwant, R. T. (Cong.), (*Hissar City*); Smt. Sneh Lata (Cong.), (*Hissar Sadar*); Chaudhri Balbir Singh (P.S.G.), (*Hoshiarpur*) '*G*'; Chaudhri Karam Chand Sidhu (SC) (S.I.C.G.), (*Hoshiarpur* (*R*)); Amar Nath Vidyalankar (Cong.), (*Jagadhri*); Ram Parkash (SC) (Cong.), (*Jagadhri* (*R*)); Smt. Har Parkash Kaur (Cong.), (*Jagraon*); Smt. K. Jagdish Kaur (I.S.F.), (*Jaitu*); Abhal Singh (Cong.), (*Jatusana*); Sher Singh (H.I.G.), (*Jhajjar*); Phul Singh Kataria (SC) (C.P.I.), (*Jhajjar* (*R*)); Inder Singh (C.P.I.), (*Jind*); Bhala Ram (SC), (C.P.I.), (*Jind* (*R*)); Lal Chand (J.S.), (*Jullundur City; North-East*); Jagat Narain Chopra (S.I.C.G.), (*Jullunder City South-West*); Smt. Om Prabha (*Kaithal*); Master Nanhu Ram (H.I.G.), (*Kalanaur*); Amar Nath Sharma (Cong.), (*Kangra*); Bawa Harnam Singh (Cong.), (*Kapurthala*); Ram Piara (Cong.), (*Karnal*); Sardar Karam Singh 'Kirti' (Cong.), (*Kartarpur*); Sardar Gurbanta Singh (SC) (Cong.), (*Kartarpur* (*R*)); Sardar Gurwaryam Singh (S.I.C.G.), (*Khalra*); Raja Raghubir Singh (Cong.), (*Kulu*); Lala Jit Ram (Cong.), (*Kulu* (*R*)); Lala Lajpat Rai (J.S.), (*Ludhiana City*); Har Bhagwan Maudgil (Cong.), (*Ludhiana North*); Sardar Ram Dayal Singh (Cong.), (*Ludhiana South*); Smt. Dr. Parkash Kaur (Cong.), (*Majitha*); Sardar Chanda Singh (Cong.), (*Malerkotla*); Sardar Parkash Singh (Cong.), (*Malout*) '*G*'; Subedar Teja Singh (SC) (Cong.), (*Malout* (*R*)); Sardar Harcharan Singh (Cong.), (Mansa) '*G*'; Gyani Kirpal Singh Shant (SC) (Cong.), (*Mansa* (*R*)); Sardar Jagraj Singh Gill Cong.), (*Moga*); Nihal Singh (Cong.), (*Mohindergarh*); Rala Ram (Cong.), (*Mukerian*) '*G*'; Bhagat Guran Das Hans (SC) (Cong.), (*Mukerian* (*R*)); Sardar Harcharan Singh (Cong.), (*Muktsar*); Sardar Balwant Singh (Cong.), (*Nabha*); Sardar Umrao Singh (Cong.), (*Nakodar*) '*G*'; Sant Ram (SC) (Cong.), (*Nakodar* (*R*)); Chaudhri Sadhu Ram (Cong.), (*Naraingarh*); Roshan Lal (SC) (Cong.), (*Naraingarh* (*R*)); Devki Nandan Vaidya (Cong.), (*Narnaul*); Sardar Harguranand Singh (P.G.), (*Nawanshahr*) '*G*'; Chaudhri Jagat Ram (SC) (Cong.), (*Nawanshahr* (*R*)); Maulvi Abdul Ghani Dar (S.I.C.G.), (*Nuh*); Sardar Darbara Singh (Cong.), (*Nurmahal*); Ram Chandra Comrade (Cong.), (*Nurpur*); Jathedar Inder Singh Lehri (Cong.), (*Pakka Kalan*) '*G*'; Sardar Dhanna Singh Gulshan (SC) (Cong.), (*Pakka Kalan* (*R*)); Bakshi Partap Singh (Cong.), (*Palampur*); Gurdatt (Cong.), (*Palwal*) '*G*'; Chaudhry Bhule Ram (SC) (Cong.), (*Palwal* (*R*)); Dr. Parma Nand (Cong.), (*Panipat*); Mohan Lal (Cong.), (*Pataudi*); Pandit Bhagirath Lal Shastri (Cong.), (*Patharkot*); Raja Bhalindra Singh (S.I.C.G.), (*Patiala*); Sardar Narain Singh (Cong.), (*Patti*); Jagdish Chand (Cong.), (*Pehowa*) '*G*'; Hans Raj Sharma (Cong.), (*Phagwara*); Sardar Udham Singh (P.G.), (*Phillaur*); Ram Nath (Cong.), (*Phul*); Chaudhri Bhag Singh (H.I.G.), (*Pundri*); Comrade Hukam Singh (C.P.I.), (*Rai*); Sardar Pal Singh Roomi (Cong.), (*Raikot*); Sardar Bhag Singh (SC) (Cong.), (*Raikot* (*R*)); Chaudhri, Banu Ram (J.S.), (*Rajaund*); Sardar Prem Singh Prem (Cong.), (*Rajpura*); Rajkumari Sumitra Devi (Cong.), (*Rewari*); Mangal Sen (J.S.), (*Rohtak*); Sant Sadhu Singh (Cong.), (*Rupar*); Master Pratap Singh (SC) (Cong.), (*Rupar* (*R*)); Dev. Datt Puri (Cong.), (*Sadhaura*); Sri Krishnan Shastri (Cong.), (*Safidon*); Sardar Bhupender Singh Mann (Cong.), (*Samana*); Sardar Harchand Singh (SC) (Cong.), (*Samana* (*R*)); Chaudhri Dharam Singh Rathi (I.S.F.), (*Sambhalka*); Suraj Bhan (H.I.G.), (*Sampla*); Sardar Jagir Singh Dard (SC) (Cong.), (*Samrala* (*R*)); Sardar Ajmer Singh (Cong.), (*Samrala*) '*G*'; Sardar Rajinder Singh (Cong.), (*Sangrur*); Sardar Partap Singh Kairon (Cong.), (*Sarhali*); Comrade Muni Lal (P.S.G.), (*Simla*); Sardar Gian Singh Rarewala (Cong.), (*Sirhind*) '*G*'; Sardar Mihan Singh Gill (SC) (Cong.), (*Sirjind* (*R*)); Devilal (Cong.), (*Sisra*); Kesara Ram (SC) (Cong.), (*Sisra* (*R*)); Pandit Ram Sharma (S.I.C.G.), (*Sonepat*); Sardar Gurbachan Singh Bajwa (Cong.), (*Sri Gobindpur*); Sardar Atma Singh (P.G.), (*Sultanpur*); Raja Mahesh Indra Singh (S.I.C.G.), (*Sunam*) '*G*'; Sardar Pritam Singh Sahoke (SC) (Cong.), (*Sunam* (*R*)); Sardar Gurdial Singh Dhillon (Cong.), (*Tarn Taran*) '*G*'; Sardar Niranjan Singh (SC) (Cong.), (*Tarn Taran* (*R*)); Banarsi Dass Gupta (Cong.), (*Thanesar*); Ran Singh (SC) (Cong.), (*Thanesar* (*R*)); Ch. Suraj Mal (Cong.), (*Tohana*); Chaudhri Chander Bhan (Cong.), (*Tosham*); Pandit Ram Krishan, Brarolian (C.P.I.), (*Una*); Sardar Gurdit Singh (Cong.), (*Zira*) '*G*'; Smt. Jaswant Kaur (SC) (Cong.), (*Zira* (*R*)).

RAJASTHAN LEGISLATIVE ASSEMBLY

Constituencies: 136 (S.M. 96; D.M. 40); Seats: 176 (S.C. 28; S.T. 20). Electorate: 87,44,616.

Speaker: Ram Niwas Mirdha. *Dy. Speaker:* Niranjannath Acharya.

Secretary: Anop Singh.

An estimate of party position is given below: Congress 121; Socialist Samajwadi Party 2; Bhartiya Jan Sangh 12; Ram Rajya Parishad 13; Independents 24; Praja Pragritishul Dal 10; Communist 1; Kisan Sabha 1; Swatantra Party 2.

Dalpat Singh (R.R.P.), (*Abu*); Madho Singh (Cong.), (*Ahore*); Mahendra Singh Powar (Ind.), (*Ajmer City East*); Arjan Das (Ind.), (*Ajmer City West*); Bhairav Lal (ST), (Cong.), (*Aklera* (*R*)); Sampatraj (Cong.), (*Aklera*); Chotu Singh (Cong.), (*Alwar*); Sahdeo (Cong.), (*Amber*); Hari Shanker Sidhant Shastri (SC), (Cong.), (*Amber* (*R*)); Jai Singh Ranawat (Cong.), (*Asind*); Bhogi Lal Pandya (Cong.), (*Aspur*); Nathuram (ST), (Cong.), (*Bagidora* (*R*)); Mukti Lal Modi (Ind.), (*Bairath*); Dewa Ram Girasia (SC), (Cong.), (*Bali* (*R*)); Moti Baba Choudhary (Ind.), (*Bali*); Anop C. Singh (R.R.P.), (*Balotra*); Rawat Ram Nahal (SC), (Cong.), (*Balotra* (*R*)); Bishambhar Nath Joshi (Cong.), (*Bandikui*); Tej Mal Bapna (Cong.), (*Banera*); Badri Prasad Gupta (Cong.), (*Bansur*); Mogji Bhai (ST), (Soc. Samajwadi), (*Banswara* (*R*)); Smt. Anandi Devi Jelia (SC), (Cong.), (*Baran* (*R*)); Dalip Singh (Cong.), (*Baran*); Subedar Singh (Cong.), (*Bari*); Tan Singh (R.R.P.), (*Barmer*); Goverdhan Singh Kain (SC), (Cong.), (*Bayana* (*R*)); Sribhan Singh (Cong.), (*Bayana*); Brij Mohan Lal Sharma (Cong.), (*Beawar*); Sugan Chand Jain (Cong.), (*Begun*); Chander Singh (J.S.), (*Behror*); Hoti Lal (Ind.), (*Bharatpur*); Smt. Kamla Shrotria (Cong.), (*Bhilwara*); Fateh Singh (Jan Sangh), (*Bhim*); Murlidhar Vyas (Ind.), (*Bikaner City*); Bhairon Singh Khejarla (Cong.), (*Bilara*); Brijsunder Sharma (Cong.), (*Bundi*); Daya Krishna Vijai (J.S.), (*Chhabra*); Dhanna Lal Harit (SC), (Cong.), (*Chhabra* (*R*)); Lal Singh Saktawat (Cong.), (*Chittorgarh*); Wali Mohammed (Cong.), (*Chohtan*); Mohar Singh (K.S.), (*Churu*); Rawat Ram (SC), (Cong.), (*Churu* (*R*)); Ramchandra (SC), (Cong.), (*Dag* (*R*)); Harishchandra (Cong.), (*Dag*); Madan Singh (J.S.), (*Datna Ramgarh*); Gaija Patel (ST), (Ind.), (*Dausa* (*R*)); Ram Dhan (Ind.), (*Dausa*); Motilal Chaudhry (Cong.), (*Deedwana*); Jugal Kishore Chaturvedi (Cong.), (*Deeg*); Smt. Gauri Puniya (Cong.), (*Degana*); Bahadur Singh (Cong.), (*Dholpur*); Narendra Singh (R.R.P.), (*Dudu*); Ladu Ram Sulaniya (SC), (J.S.), (*Dudu* (*R*)); Daulat Ram Saran (Cong.), (*Dungargarh*); Balmukand (ST), (Ind.), (*Dungarpur* (*R*)); Abdul Ghaffar Khan, (Cong.), (*Fatehpur*); Prithvi Raj (ST), (Ind.), (*Gangapur* (*R*)); Ridhi Chand Paliwal (Ind.), (*Gangapur*); Dev Nath (Cong.), (*Ganganagar*), Harideo Joshi (Cong.), (*Ghatol*); Laxman Hirat (Cong.), (*Gogunda*); Shiv Nath Singh (Cong.), (*Gudah*); Ramdan (Cong.), (*Guda Malani*); Ramchandra Chowdhary, (Cong.), (*Hanumangarh*); Ram Kishore Vyas (Cong.), (*Hawamahal, Jaipur*); Bhanwarlal (Cong.), (*Hindoli*); Modulal (ST); (Cong.), (*Hindoli* (*R*)); Hukam Singh (R.R.P.), (*Jaisalmer*); Narpat Singh (R.R.P.), (*Jalore*); Amritlal Yadava (Cong.), (*Jalore* (*R*)); Doongarsi Dass (Ind.), (*Jamwa Ramgarh*); Ram Lal Bansiwal (SC), (Cong.), (*Jamwa Ramgarh* (*R*)); Manak Chand Kothari (Cong.), (*Jayal*); Jayendra Singh (Cong.), (*Jhalrapatan*); Narottam Lal Joshi (Cong.), (*Jhunjhunu*); Anand Singh Kachhwaha (Cong.), (*Jodhpur City I*); Barkutullah Khan (Cong.), (*Jodhpur City II*); Satish Chandra Agarwal (J.S.), (*Johri Bazar, J*); Nathi Singh (Sw.P.), (*Kaman*); Jai Chand (SC), (Cong.), (*Kapasin* (*R*)); Bhawani Shanker Nandwana (Cong.), (*Kapasin*); Smt. Satwant Kaur (Cong.), (*Karanpur*); Umedi Lal (SC), (Cong.), (*Karauli* (*R*)); Brijendrapal (Ind.), (*Karauli*); Hari Bhau Upadhyaya (Cong.), (*Kekri*); Hazari Lal

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Bakolia (SC), (Cong.), (*Kekri (R)*); Manroop Ram Parihar (SC), (Ind.), (*Kharchi (R)*); Bena Ram Gahlot (Ind.), (*Kharchi*); Shish Ram Ola (Cong.), (*Khetri*); Mahadeo Prasad Banka (SC), (Cong.), (*Khetri (R)*); Purshottam Lal Sharma (Cong.), (*Kishangarh*); Smt. Chandra Kala (Cong.), (*Kishanpole, Jaipur*); Rameshwar Dayal (Cong.), (*Kotah*); Ram Karan Singh (J.S.), (*Kotputli*); Shri Manohar Kothari (Cong.), (*Kumbhalgarh*); Heera Bhai (ST), (Soc. Samajwadi), (*Kushalgarh (R)*); Gokul Chand (SC), (Cong.), (*Lachmangarh (R)*); Bhola Nath (Cong.), (*Lachmangarh*); Kishan Singh Batar (Cong.), (*Lachmangarh*); Ram Niwas Mirdha (Cong.), (*Ladnu*); Nathu Lal Karol (ST), (Ind.), (*Lalsot (R)*); Prabhu Lal Purohit (Ind.), (*Lalsot*); Poonam Chand Vishnoi (Cong.), (*Luni*); Bhimsen (Cong.), (*Lunkaransar*); Gopi Sahai (ST), (Cong.), (*Mahwa (R)*); Chuttanlal (Cong.), (*Mahwa*); Damodar Lal Vyas (Cong.), (*Malpura*); Lachhu Ram (Com.), (*Mandawa*); Kalu Ram (ST), (J.S.), (*Mandal (R)*); Shivcharan Dass (J.S.), (*Mandal*); Ganpati Lal Verma (Cong.), (*Mandalgarh*); Narain Singh (Cong.), (*Masuda*); Janardan Rai Nagar (Cong.), (*Mavli*); Gopal Lal Purohit (Cong.), (*Merta*); Nathu Ram Mirdha (Cong.), (*Nagaur*); Jwala Prasad Sharma (Cong.), (*Nasirabad*); Kishan Lal Sharma (Cong.), (*Nathdwara*); Sri Ram Basotia (Ind.), (*Nawalgarh*); Kishanlal Shah (Cong.), (*Nawan*); Jetha Mal (SC), (Cong.), (*Nawan (R)*); Gyan Chand Modi (Cong.), (*Neem-Ka-Thana*); Narayan Lal (SC), (Cong.), (*Neem-ka-Thana (R)*); Shri Niwas Sharda (Cong.), (*Nimbahera*); Dharampal Panwar (SC), (Cong.), (*Nohar (R)*); Ram Kishan Bhambhu (Kisan Sabha), (*Nohar*); Rawat Mal Pareek (Cong.), (*Nokha*); Roopa Ram (SC); (Ind.), (*Nokha (R)*); Parsh Ram (Cong.), (*Osian*); Mool-Chand (Cong.), (*Pali*); Vidyasagar (Cong.), (*Phalasia*); Kesari Singh (R.R.P.), (*Phalodi*); Suraj Mal (S.C.), (R.R.P.), (*Phalodi (R)*); P. K. Choudhary (Cong.), (*Phulera*); Smt. Sumitra (Cong.), (*Pilani*); Ram Narayan Verma (ST), (J.S.), (*Pipalda (R)*); Rikhab Chandh Dhariwal (Cong.), (*Pipalda (R)*); Amritlal Payak (Cong.), (*Pratapgarh*); Amra Meena Rawat (ST), (Cong.), (*Pratapgarh*); Smt. Prabha Mishra (Cong.), (*Pushkar*); Shanker Lal (Cong.), (*Raipur*); Chuni Lal (Cong.), (*Raisinghnagar*); Raghubir Singh (R.R.P.), (*Rajgarh*); Hari Kishan (ST), (Cong.), (*Rajgarh (R)*); Seth Mahendra Singh (Ind.), (*Rajakhera*); Niranjan Nath Acharya (Cong.), (*Rajsamand*); Smt. Ganga Devi Datta (Cong.), (*Ramgarh*); Mangal Singh (R.R.P.), (*Raniwara*); Kishana Ram (Ind.), (*Ratangarh*); Bheekabhai (ST), (Cong.), (*Sagwara (R)*); Phoola Bhai (ST), (Cong.), (*Salumber (R)*); Sohanlal Bhatnagar (Cong.), (*Salumber*); Lakshmi Chand (R.R.P.), (*Sanchore*); Devilal (Cong.), (*Sarada*); Chandan Mal Baid (Cong.), (*Sardar-Shahar*); Abid Ali (Cong.), (*Sawai Madhopur*); Mangi Lal (SC), (Cong.), (*Sawai Madhopur (R)*); Kana Regar (SC), (Cong.), (*Shahpura (R)*); Ram Prasad Ladha (Cong.), (*Shahpura*); Jagdish Prasad Mathur (J.S.), (*Sikar*); Ramdeo Singh (Cong.), (*Singrawat*); Mohabbatsingh (Cong.), (*Sirohi*); Veerka Ram (SC), (R.R.P.), (*Sirohi (R)*); Teja Ram Gahlot (Cong.), (*Sojat*); Bhairon Singh (J.S.), (*Sri Madhopur*); Kumari Shanno Devi Sharma (Ind.), (*Sujangarh*); Rajaram (Cong.), (*Suratgarh*); Ghasi Ram Yadav (Cong.), (*Tijara*); Sampat Ram (SC), (Cong.), (*Tijara (R)*); Narain Singh (Cong.), (*Tonk*); Laloo Ram (SC), (Cong.), (*Tonk (R)*); Mohanlal Sukhadia (Cong.), (*Udaipur*); Sardar Singh (R.R.P.), (*Uniara*); Gulabsingh (Cong.), (*Vallabhnagar*); Hari Prasad Yadav (SC), (Cong.), (*Vallabhnagar (R)*); Tej Pal (SC), (Cong.), (*Weir (R)*); Raja Mansingh (Swatantra), (*Weir*).

TRIPURA TERRITORIAL COUNCIL

Constituencies: 30; Seats: 32 (Elected 30; Nominated 2).

Chairman, Sachindra Lal Singh.

Vice-Chairman, Tarit Mohan Das Gupta.

An estimate of party position is as follows: Congress 15; Communist party of India 12; Independents 2; Ganatantra Parishad 1.

Sachindra Lal Singh (*Agartala Sadar I*); Sonatan Sarkar (*Agartala Sadar II*); Sudan Chandra Deb Barma (*Agartala Sadar III*); Krishnadas Bhattacharjee (*Agartala Town I*); Tarit Mohon Das Gupta (*Agartala Town II*); Upendra Kumar Roy (*Belonia*); Mahendra Deb Barma (*Birganj*); Siraiul Haque Choudhury (*Bishalgarh*); Aghore Deb Barma (*Charilam Constituency*): K. Nath Chaudhury (*Dharmanagar North*); Dr. P. B. Roy (*Dharmanagar South*); Padma Kumar Rangkhal (*Dumbarnagar*); Gokul Chan Sinha (*Fatikroy*); Manindra Lal Bhowmik (*Kailasahar*); Rabindra Chandra Deb Barma (*Kalyanpur*); Sunil Chandra Dutta (*Kamalpur*); Raj Prasad Choudhury (*Kanchanpur*); Nripendra Kumar Chakraborty (*Khowai*); Dharma Roy Deb Barma (*Kulaihour*); Mahammed Abdul Wazid (*Kurti*); Promode Ranjan Das Gupta (*Mohanpur*); Hlura Aung Mag (*Mahuripur*); Hemanta Deb (*Old Agartala*); Kumud Bandhu Bhattacharyya (*Radhakishorepur*); Kalipada Banerjee (*Sabroom*); Ershad Ali Choudhury (*Salgarh*); Atikul Islam (*Sonamura North*); Monchor Ali (*Sonamura South*); Bir Chandra Deb Barma (*Takarjala*); Ram Charan Deb Barma (*Teliamura*).

Smt. Basana Chakraborty (*Nominated*); Ghanashyam Dewan (*Nominated*).

UTTAR PRADESH LEGISLATIVE COUNCIL

Strength: 108.

Chairman: R. V. Dhulekar.

Dy. Chairman: Nizamuddin.

Secretary: P. S. Pachauri.

An estimate of party position is as follows:—Congress 70; P.S.P. 6; S.P.D. 6; Ind. 8; Jan Sangh 5; Communist 1; National Party 1; Socialist 2; Swatantra Legislature Party 1. Party affiliation of 6 members is not available.

Elected by Legislative Assembly

Ganesh Dutt Paliwal; Balak Ram Vaish; Algu Rai Shastri; Kunwar Guru Narain; Nathu Ram; Shiv Prasad Singh; Khushal Singh; Krishna Chandra Joshi; Shiv Kumar Paliwal Kunwar Mahabir Singh; Pratap Chandra Azad, M.A.; Puran Chand Vidyalankar; Ram Nandan Singh; Uma Shanker Singh; Ishaq Sambhali; Ajai Kumar Basu; Mrs. Sucheta Kripalani; Smt. Shanti Devi; Nizamuddin; Prithvi Nath; Smt. Savitri Shyam; Naurang Singh; Mohammad Shahid Fakhiri; Abdus Salam Shah; Dr. A. J. Faridi; Maharaj Singh Bharti; Jagdish Prasad Dwivedi; Deep Narain Verma; Shanker Rao; Ram Kumar Shastri; Ram Dhari Pandey; Smt. Vidyavati Rathor; Smt. Shakuntala Srivastava; Shaffq Ahmed Khan Tatari; Shiv Narain; Smt. Shivarajwati Nehru; Har Govind Singh; Lal Suresh Singh; Bhanshi Dhar Shukla.

Graduates (West)

Dr. Ishwari Prasad, M.A., D. Litt.; Virendra Swarup; Kalka Prasad Bhatnagar; Shyamanarayan; Devendra Swarup.

Graduates (East)

Brij Pal Saran Rastogi; Pushkar Nath Bhatt; Nirmal Chandra Chaturvedi; Kripa Shankar Hajela.

Teachers (West)

Dr. Pyare Lal Gupta; Kanhaiya Lal Gupta; Laxmi Narayan Dixit; Madan Mohan.

Teachers (East)

Hirdaya Narayan Singh; Shyam Behari Viragi; Rameshwar Singh; Harikrishna Awasthi; Smt. Maya Choudhry.

Meerut Local Authorities

Shugan Chand; Saktu Mal; Pitamber Das; Telu Ram; Madan Mohan Lal; Maulana Mahmood Aslam Khan.

Rohilkhand Local Authorities

Moulana Abdur Rauf Khan; Onkar Singh; Keshav Datt; Pyare Lal Gupta; Indra Singh Nayal; Ram Ghulam; Babu Abdul Majid; Ram Lakhan.

Agra Local Authorities

Nawab Singh Yadav; Prem Chandra Sharma; Sultan Singh Pachori; Harcharan Agarwal; Shiv Prasad Gupto.

Lucknow Local Authorities

Smt. Kudsia Begum; Kunwar Rananjaya Singh; Tej Narain Trivedi; Ram Nath; Smt. Mohsina Khalil Kidwai; Chaudhari Shiv Nath Singh; Kuniwar Devendra Pratap Singh; Ram Narain Pandey, LL.B.; Lal Suresh Sing; Banshi Dhar Shukla.

Allahabad Local Authorities

Shiva Nath Katju; Raghunath Vinayak Dhulekar; Nawal Kishore Gurudeva; Chiranji Lal Paliwal; Banwari Lal; Lallu Ram Dwivedi.

Varanasi Local Authorities

Jagannath Acharya; Girdhari Lal; Jagannath Singh; Jai Bahadur Singh; Ram Surat Singh; Madhava Prasad Tripathi.

Nominated

Dr. B. B. Bhatia; Smt. Tara Agarwal; Maulana Mohammad Naseer; Krishna Deva Prasad Gaur; Rani Ram Kumar Bhargava; Raja Ram Shastri; Purushottam Das Tandon; Pt. Ramagya Pande; Hayatullah Ansari; Sardar Balwant Singh; M. J. Mukerjee, M.Sc., T.Dip. (London); O. M. Sukhia.

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UTTAR PRADESH LEGISLATIVE ASSEMBLY

Constituencies : 341 (S.M. 252 ; D.M. 89) ; Seats : 431 (inclusive of one nominated) ; (S.C. 89) ; Electorate : 3,47,66,896.

Speaker, A. G. Kher ; *Dy. Speaker*, R. N. Tripathi.

An estimate of party position is given below : Congress 289 ; Praja Socialist Party 43 ; Socialists 32 ; Communist Party of India 12 ; Bharatiya Jan Sangh 15 ; Independents 9 ; I.P.L.P. 28 ; Vacant 2.

Shiv Ram Singh (J.S.), (*Afzalgarh*) ; Jagbir Singh (P.S.P.), (*Agota*) ; Adi Ram Singhal (Cong.), (*Agra City I*) ; Ambesh Chatrapati (SC) (Cong.), (*Agra City II (R)*) ; Deokinandan Vibhav (Cong.), (*Agra City II*) ; R. N. Singh (Cong.), (*Ahraura*) ; Ram Dularey Misra (Cong.), (*Akbarpur*) ; D. P. Misra (Soc.), (*Akbarpur*) ; Smt. Ram Rati Devi (SC) (Cong.), (*Akbarpur (R)*) ; Bhup Kishore (I.P.L.P.), (*Aliganj*) ; A. R. Verma (Cong.), (*Aligarh*) ; Bhoop Kishor (I.P.L.P.), (*Alipur*) ; Kailash Narain Gupta (Cong.), (*Allahabad City North*) ; Kalyan Chandra Mohiley *alias* Chhunan Guru (P.S.P.), (*Allahabad City South*) ; Govind Singh (J.S.), (*Almora*) ; Rama Kant Singh (Cong.), (*Amethi*) ; R. K. V. Prabhakar (Ind.), (*Amroha*) ; M. G. Vadya (Cong.), (*Amsin*) ; D. D. Sharma (Cong.), (*Anupshahr*) ; Dharam Singh (Cong.), (*Anupshahr (R)*) ; Nawal Kishore (Cong.), (*Aonla*) ; Smt. Amola Devi (Cong.), (*Atheha*) ; Nek Ram Sharma (Cong.), (*Atrauli*) ; Padmakar (P.S.P.), (*Atraulia*) ; Bhajan Lal (Soc.), (*Auraiya*) ; Shukh Lal (SC) (Cong.), (*Auraiya (R)*) ; Visram Rai (P.S.P.), (*Azamgarh*) ; Ram Sanehi Bhartiya (Cong.), (*Baberu*) ; Chandrika Prasad (Cong.), (*Bachhrawan*) ; Rameshwar Prasad (SC) (Cong.), (*Bachhrawan (R)*) ; G. S. Dimiri (I.P.L.P.), (*Badrinath*) ; Raja Mahendra Ripudaman Singh (I.P.L.P.), (*Bah*) ; Raghubir Singh (Cong.), (*Baghpat*) ; Badlu Ram (P.S.P.) (*Bahraich South*) ; Zargham Haider (P.S.P.), (*Bahraich North*) ; Ram Murti (Cong.), (*Baheri*) ; Bhuddhi Singh (P.S.P.), (*Bahjoi*) ; Gauri Shanker (P.S.P.), (*Ballia*) ; Din Dayal Karun (Cong.), (*Balrampur*) ; Dashrath Prasad (SC) (J.S.), (*Balrampur (R)*) ; Ch. Pahalawan Singh (Cong.), (*Banda*) ; Mohd. Sulaiman (Cong.), (*Banganga East*) ; Prabhoo Dayal (Cong.), (*Banganga West*) ; Obaidur Rahman (Cong.), (*Bansi East*) ; Sohan Lal Dhusiya (Cong.), (*Bansi East (R)*) ; Ram Lakhan Misra (Cong.), (*Bansi West*) ; Ganesh Prasad (Cong.), (*Bansgaon*) ; Shrimati Yashoda Devi (SC) (Cong.), (*Bansgaon (R)*) ; Ram Lakshan (Cong.), (*Bansdih East*) ; Sheo Mangal Singh (Cong.), (*Bansdih West*) ; B. P. Verma (Soc.), (*Bara Banki*) ; N. R. Rawat (SC) (Soc.), (*Bara Banki (R)*) ; M. Abdus Sami (Cong.), (*Baraunsa*) ; Depankar Acharya (Soc.) *Baraut* ; Mohammad Husain (Cong.), (*Bareilly Cantonment*) ; Jagdish Saran Agarwal (Cong.), (*Bareilly City*) ; R. G. Sharma (Cong.), (*Barsathi*) ; Udai Shankar (Cong.), (*Basti*) ; Bhagwati Singh Visharad (P.S.P.), (*Bhagwant Nagar*) ; G. R. Jatav (SC) (Cong.), (*Bharthana (R)*) ; Meharban Singh (Cong.), (*Bharthana*) ; B. P. Dubey (Cong.), (*Bhavapur*) ; Ghayoor Ali Khan (P.S.P.), (*Bhavan*) ; Vishal Singh (Cong.), (*Bhitauli*) ; R. S. Varma (Soc.), (*Bhognipur*) ; G. C. Kachhi (Cong.), (*Bhogaon*) ; Avadhesh Chandra Singh (Cong.), (*Bhojpur*) ; Baboo Ram (Cong.), (*Bhojipura*) ; Ch. Raguraj Singh (P.S.P.), (*Bhulandshahr*) ; Gajendra Singh (P.S.P.), (*Bidhuna*) ; Smt. Chandrawati (Cong.), (*Bijnor*) ; Awadesh Pratap Singh (I.P.L.P.), (*Bikapur East*) ; Narain Das (SC) (Cong.), (*Bikapur West (R)*) ; Brij Basi Lal (Cong.), (*Bikapur West*) ; Chandrahas Misra (Cong.), (*Bilgram*) ; Abdul Rauf Lari (Soc.), (*Binaikpur*) ; Suresh Prakash Singh (Cong.), (*Biswan*) ; Ganesh Lal (SC) (Cong.), (*Biswan (R)*) ; Jagdish Narain (Cong.), (*Bilari*) ; Mahi Lal (SC) (Cong.), (*Bilari (R)*) ; Smt. Brij Rani Misra (Cong.), (*Bilhaur*) ; M. D. Kureel, (SC) (Cong.), (*Bilhaur (R)*) ; Behari Lal (SC) (P.S.P.), (*Bisalpur (R)*) ; Munendra Pal Singh (P.S.P.), (*Bisalpur*) ; Kesho Ram (SC) (Cong.), (*Bisauli (R)*) ; Shiv Raj S. Yadav (Cong.), (*Bisauli*) ; Kamruddin (Cong.), (*Budhna*) ; Tika Ram (Soc.), (*Budaun*) ; Gokul Prasad (SC) (Cong.), (*Chail (R)*) ; Syed Muzaffar Hasan (Cong.), (*Chail*) ; Kamlapati Tripathi (Cong.), (*Chandauli*) ; Ram Lakhan (SC) (Cong.), (*Chandauli (R)*) ; N. S. Datyanvi (Cong.), (*Chandpur*) ; Hamid Ullah Khan (Cong.), (*Charda*) ; Ramhet Singh (Cong.), (*Chhata*) ; Kotwal Singh Bhadauriya (P.S.P.), (*Chhibramau*) ; Smt. Kailashwati (Cong.), (*Chillupar*) ; Vacant (*Chunar*) ; Smt. Satyawati Devi Rawal (Cong.), (*Dadri*) ; Shiva Shankar Singh (I.P.L.P.), (*Dalmau*) ; M. S. Mehta (Cong.), (*Danpur*) ; Kr. Mahmood Ali Khan (Cong.), (*Dasna*) ; Harish Chandra Singh (Cong.), (*Dataganj*) ; S. R. Pandey (Cong.), (*Derapur*) ; Yashpal Singh (I.P.L.P.), (*Deoband*) ; Hardeva (SC) (Cong.), (*Deoband (R)*) ; Brij Bhushan Saran (Cong.), (*Dehra Dun*) ; Smt. Binaya Laxmi Suman (Cong.), (*Deoprayag*) ; Mohammad Faruq Chishti (Cong.), (*Deoria North*) ; Deep Narain M. Tripathi (Cong.), (*Deoria South*) ; Himmat Singh (J.S.), (*Devai*) ; Khub Singh (Cong.), (*Dhampur*) ; Girdhari Lal (SC) (Cong.), (*Dhampur (R)*) ; Jagannath Prasad (P.S.P.), (*Dhaurahra*) ; Baleshwari Prasad Singh (I.P.L.P.), (*Dumariaganj South*) ; Smt. Rajendra Kishori (Cong.), (*Dumariaganj North*) ; Ram Nath Pathak (Cong.), (*Dwaba*) ; G. P. Varma (I.P.L.P.), (*Etah*) ; B. B. Sharma (J.S.), (*Etawah*) ; G. D. Jatav (SC) (Cong.), (*Etmadpur (R)*) ; R. S. C. Vaidya (Soc.), (*Etmadpur*) ; M. M. Verma (Cong.), (*Faizabad*) ; Mahadeo Prasad (Cong.), (*Fakharpur (R)*) ; P. B. Singh (Ind.), (*Fakharpur*) ; D. P. Pandey (Cong.), (*Farenda (E)*) ; G. R. Gupta (Cong.), (*Farenda (W)*) ; Nathu Singh (Cong.), (*Faridpur*) ; Sunder Lal (SC) (Cong.), (*Faridpur (R)*) ; R. K. Saraswat (Cong.), (*Farrukhabad*) ; Lakshmi Narain Bansal (Cong.), (*Fatehabad*) ; Sheoraj Bali Singh (Cong.), (*Fatehpur*) ; Smt. Sukhrani Devi (SC) (Cong.), (*Fatehpur (R)*) ; Swami Vishweshwara Nand (Soc.), (*Fatehpur Sikri*) ; Jagannath Lahari (Soc.), (*Firozabad*) ; Jagmohan S. Negi (Cong.), (*Ganga Salan*) ; Shri Niwas (Cong.), (*Gangiri*) ; Lakshman Rao Kadam (Cong.), (*Garotha*) ; Nageshwar Prasad (Cong.), (*Gatwara*) ; Jwala Prasad (SC) (Cong.), (*Ghatampur (R)*) ; Brij Behari Mehrotra (Cong.), (*Ghatampur*) ; Teja Singh (Cong.), (*Ghaziabad*) ; Pabbar Ram (C.P.I.), (*Ghazipur*) ; Jaideo S. Arya (P.S.P.), (*Ghiror*) ; Jharkhandey Rai (C.P.I.), (*Ghosi*) ; Acharya J. Kishore (Cong.), (*Gobardhan*) ; Ram Abhilakh (Cong.), (*Gonda North*) ; R. R. Pandey (I.P.L.P.), (*Gonda South*) ; Ganga Prasad (SC) (Cong.), (*Gonda South (R)*) ; Rajendra Singh (J.S.), (*Gondwa*) ; M. N. Rai (Cong.), (*Gopalpur*) ; Istafa Hussain (Cong.), (*Gorakhpur*) ; Jamuna Singh (P.S.P.), (*Gunnaur*) ; Bechan Ram Gupta (Cong.), (*Gyanpur*) ; Becha Ram (SC) (Cong.), (*Gyanpur (R)*) ; J. B. Verma (Soc.), (*Haidergarh*) ; Bajrang B. L. Rawat (SC) (Soc.), (*Haidergarh (R)*) ; Surendra Dutt Bajpai (Cong.), (*Hamirpur*) ; Lutf Ali Khan (Cong.), (*Hapur*) ; Veer Sen (SC) (Cong.), (*Hapur (R)*) ; Bulaki Ram (SC) (Cong.), (*Hardoi (R)*) ; M. S. Vakil (Cong.), (*Hardoi*) ; Shanti Prapanna Sharma (Cong.), (*Hardwar*) ; Jai Gopal (Cong.), (*Harora*) ; Smt. Shakuntala Devi (SC) (Cong.), (*Harora (R)*) ; Sita Ram Shukla (Ind.), (*Harraiya East*) ; R. B. Singh (Cong.), (*Harraiya West*) ; Bhikha Lal (SC) (C.P.I.), (*Hasanganj (R)*) ; Sajiwan Lal (C.P.I.), (*Hasanganj*) ; Jagdish Prasad (Cong.), (*Hasanpur*) ; Dr. Bishamber Singh (Cong.), (*Hastinapur*) ; Sukkhan Lal (SC) (Cong.), (*Hasanpur (R)*) ; S. B. Pandey (Cong.), (*Hata*) ; Nand Kumar Deo Vashishta (Cong.), (*Hathras*) ; H. S. Pipal (SC) (Cong.), (*Hathras (R)*) ; Lakhan Singh (Ind.), (*Iglas*) ; Raj Kishore (SC) (Cong.), (*Ikauna (R)*) ; Sheo Saran Lal (Cong.), (*Ikauna*) ; Kailash Kumar Singh (Cong.), (*Islamnagar*) ; Gaya Baksh (J.S.), (*Issauli*) ; Hardayal Singh (Soc.), (*Jalalabad*) ; Govind Narain Tiwari (P.S.P.), (*Jalaun*) ; C. L. Jatav (SC) (Cong.), (*Jalesar (R)*) ; Raghuvir Singh (P.S.P.), (*Jalesar*) ; B. N. Sharma (Cong.), (*Jamania*) ; Dev Narain Bhartiya (Soc.), (*Jamaur*) ; Ahmad Baksh (Cong.), (*Jansath*) ; Ram Das (SC) (Cong.), (*Jansath (R)*) ; R. S. Yadav (Cong.), (*Jasrana*) ; A. R. Yadav (Soc.), (*Jaswant Nagar*) ; Yadavendra Dutt Dube (J.S.), (*Jaunpur*) ; Atma Ram Govind Kher (Cong.), (*Jhansi*) ; S. A. Ansari (Cong.), (*Jwalapur*) ; K. P. Pandey (Cong.), (*Kadipur*) ; Shankar Lal (SC) (Cong.), (*Kadipur (R)*) ; Sultan Alam Khan (Cong.), (*Kaimganj*) ; Virendra Verma (Cong.), (*Kairana*) ; H. S. Visen (Cong.), (*Kaisarganj*) ; Gharib Das (SC) (P.S.P.), (*Kalpi (R)*) ; Raja Virendra Shah (I.P.L.P.), (*Kalpi*) ; D. P. Dohre (SC) (C.P.I.), (*Kannauj (R)*) ; H. L. Yadav (P.S.P.), (*Kannauj*) ; U. S. Shukla (Cong.), (*Kanpur City I*) ; Brahma Datt Dikshit (Cong.), (*Kanpur City II*) ; S. A. Hasan (Cong.), (*Kanpur City III*) ; S. G. Datta (Cong.), (*Kanpur City IV*) ; Dr. Jawahar Lal Rohatgi (Cong.), (*Kanpur*) ; M. L. Awasthy (Soc.), (*Kanpur Rural*) ; Jitendra Pratap Singh (Cong.), (*Kanth*) ; Aziz Imam (Cong.), (*Kantit*) ; R. K. Jaiswar (SC) (Cong.), (*Kantit (R)*) ; Vishva Nath Singh Gautam (Cong.), (*Karanda*) ; Kumari Kamal Kumari Goindi (Cong.), (*Karchana*) ; Nathu Singh (P.S.P.), (*Karhal*) ; Ram Din (SC) (P.S.P.), (*Karhal (R)*) ; Jagpat Singh (Cong.), (*Karvi*) ; Smt. Sia Dulari (SC) (Cong.) (*Karvi (R)*) ; K. C. Agarwal (Cong.), (*Kasganj*) ; L. D. Bhatt (Cong.), (*Kashipur*) ; Raj Behari Singh (Cong.), (*Kaswar Raja*) ; Raj Narain Singh (Soc.), (*Kaswar Sarkari*) ; Loknath Singh (Cong.), (*Katehar*) ; Chittar Singh (Cong.), (*Kaunch*) ; N. S. Bhandari (Cong.), (*Kedarnath*) ; Ram Samjhawan (SC) (Cong.), (*Kerakat (R)*) ; Lal Bahadur Singh (Cong.), (*Kerakat*) ; Mahabir Prasad Shukla (Cong.), (*Kewai*) ; Vasudeo Dixit (Cong.), (*Khaga*) ; Tembreshwar Prasad (J.S.), (*Khairabad*) ; Sri Krishna Dutt Paliwal (I.P.L.P.), (*Khairagarh*) ; Smt. Genda Devi (SC) (Cong.), (*Khalilabad (R)*) ; Raja Ram Sharma (Cong.), (*Khalilabad*) ; Shabbir Hasan (Cong.), (*Khajuha*) ; Room Singh (Soc.), (*Khera Bajehra*) ; Sheo Prasad Nagar (P.S.P.), (*Kheri*) ; Gopali (SC) (Ind.), (*Khurja (R)*) ; Chattar Singh (Soc.), (*Khurja*) ; Jageshwar (SC) (Cong.), (*Kishanpur (R)*) ; R. S. Yadav (Cong.), (*Kishanpur*) ; Hari Singh (SC) (Cong.), (*Kithore (R)*) ; Kumari Shradha Devi (Cong.), (*Kithore*) ; Ram Prasad Deshmukh (SC) (Cong.), (*Koel (R)*) ; Mohan Lal Gautam (Cong.), (*Koel*) ; Udal (C.P.I.), (*Kolasalah*) ; Rukn Uddin Khan (Cong.), (*Kohraur*) ; Mandhata Singh (Cong.), (*Kopachit*) ; A. Latif Nomani (Cong.), (*Kopaganj*) ; Ch. Charan Singh (Cong.), (*Kotana*) ; Gaya Prasad (SC) (Soc.), (*Kunda (R)*) ; Nand Ram (Soc.), (*Kunda*) ; Pratap Bhan Prakash Singh (I.P.L.P.), (*Laharpur*) ; Ramanath Khaira (I.P.L.P.), (*Lalitpur*) ; Gajju Ram (SC) (Cong.), (*Lalitpur (R)*) ; Tej Bahadur (C.P.I.), (*Lalganj*) ; Dhani Ram (SC) (Cong.), (*Lalganj (R)*) ; Smt. P. D. Misra (Cong.), (*Lambhua*) ; R. P. Nautiyal (Cong.), (*Lansdowne*) ; Basant Lal (SC) (Cong.), (*Lucknow Cantonment (R)*) ; Shiam Manohar Misra (Cong.), (*Lucknow Cantonment*) ; Mahavir Prasad Srivastava (Cong.), (*Lucknow City Central*) ; Triloki Singh (P.S.P.), (*Lucknow City East*) ; Syed Ali Zahir (Cong.), (*Lucknow City West*) ; Rauf Jafri (Cong.), (*Machhilishahr*) ; Keshbhan Rai (Cong.), (*Maghar*) ; Baldeo Singh (I.P.L.P.), (*Mahadeva*) ; Kamta Prasad Vidyarth (Cong.), (*Mahaich*) ; B. G. Saxena (Cong.), (*Mahoba*) ; Mohan Lal (SC) (Cong.), (*Mahoba (R)*) ; A. N. Misra (Soc.), (*Maharajganj*) ; Duryodhan (SC) (Soc.), (*Maharajganj (R)*) ; Murlidhar (SC) (Cong.), (*Mahul (R)*) ; R. Yadav (Cong.), (*Mahul*) ; Dhanushdhari (Cong.), (*Mahuli*) ; Malikhan Singh (J.S.), (*Mainpuri*) ; Ram Pal Trivedi (Cong.), (*Malihabad*) ; Keshav Pandey (Cong.), (*Maniram*) ; Jawahar Lal (SC) (Cong.), (*Manjhanpur (R)*) ; Smt. Hemwati Nandan Bahuguna (Cong.), (*Manjhanpur*) ; Raghvendra Pratap Singh (I.P.L.P.), (*Mankapur*) ; Lakshmi Raman Acharya (Cong.), (*Mant*) ; Shyam Lal (SC) (Cong.), (*Mant (R)*) ; Sri Nath (Cong.), (*Mathura*) ; Smt. Tara Devi (Cong.), (*Mariahu*) ; Sudama Prasad Goswami (Cong.), (*Mau*) ; Smt. Beni Bai (SC) (Cong.), (*Mau (R)*) ; Smt. Rajendra Kumari (P.S.P.), (*Maudaha*) ; Smt. Prakashwati Sud (Cong.), (*Meerut Cantonment*) ; Kailash Prakash (Cong.), (*Meerut City*) ; Jokhai (SC) (Cong.), (*Meja (R)*) ; Mangla Prasad (Cong.), (*Meja*) ; A. C. Pandey (Cong.), (*Mirzapur*) ; Dr. Avdhesh Kumar (Soc.), (*Misrikh*) ; Moolchand (SC) (Soc.), (*Misrikh (R)*) ; Vichitra Narayan Sharma (Cong.), (*Modinagar*) ; Shyam

Note : I.P.L.P.—Independent Progressive Legislature Party.

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Lal (Cong.), (*Moghalsarai*); Raghubir (SC) (C.P.I.), (*Mohammadabad (R)*); V. Shankar Singh (Cong.), (*Mohammadabad*); C. Yadava (C.P.I.), (*Mohammadabad*) (*Gohna*); Sri Nath (SC) (Cong.), (*Mohammadabad* (*Gohna* (*R*)); Jagdish Narain Datta Singh (J.S.), (*Mohamadi*); Manna Lal (SC) (J.S.), (*Mohamadi* (*R*)); Khyali Ram (SC) (P.S.P.), (*Mohanlalganj* (*R*)); Ram Saran Yadav (P.S.P.), (*Mohanlalganj*); Halimuddin (I.P.L.P.), (*Moradabad City*); Dr. Khamani Singh (I.P.L.P.), (*Moradabad Rural*); Gulab Singh (Cong.), (*Mussoorie*); Mahmud Ali Khan (Cong.), (*Muzaffarabad*); Dwarka Prasad (Cong.), (*Muzaffarnagar*); Gur Prasad Singh (Cong.), (*Musafirkhana*); Ram Bali (SC) (P.S.P.), (*Musafirkhana* (*R*)); Kripa Shankar (Cong.), (*Nagar*); Ram Lal (SC) (Cong.), (*Nagar* (*R*)); Govind Sahai (Cong.), (*Nagina*); Narayan Dutt Tewari (P.S.P.), (*Nainital*); Atiqul Rahman (Cong.), (*Najibabad*); Data Ram (Cong.), (*Nakur*); Budhi Lal (Cong.), (*Nanpara*); Gopi Krishna Azad (Cong.), (*Naraini*); R. S. Pandey (P.S.P.), (*Natthupur*); Mathura Prasad Pandey (Cong.), (*Naugarh*); Sheoraj Bahadur (P.S.P.), (*Nawabganj*); Vacant (*Nazibabad*); Shamshul Islam (Cong.), (*Nidhpur*); Surath Bahadur Shah (P.S.P.), (*Nighashan*); Chandra Bali Brahmchari (Cong.), (*Nizamabad*); Chandradeo (Cong.), (*Padrauna North*); Genda Singh (P.S.P.), (*Padrauna East*); Ramayan Rai (P.S.P.), (*Padrauna South*); Brijnarain (P.S.P.), (*Padrauna West*); Laxmi Narain (I.P.L.P.), (*Paharapur*); Hari Har Bux Singh (Cong.), (*Pali*); Babu Lal Kushumesh (SC) (Cong.), (*Partabganj* (*R*)); Smt. Vindumati Das (Cong.), (*Partabganj*); Ram Kinkar (SC) (Cong.), (*Patti* (*R*)); Harkesh Bahadur (Cong.), (*Patti*); C. S. Rawat (Cong.), (*Pauri*); Gauri Ram (Cong.), *Paharenda West*); Dwarika Prasad (Cong.), *Paharenda East*); Sukhi Ram Bhartiya (SC) (Cong.), (*Phulpur* (*R*)); Shiv Murti (Cong.), (*Phulpur*); Niranjan Singh (Cong.), (*Pilibhit*); Achhaibar Singh (Cong.), (*Pipraich*); R. S. Prasad (SC) (Cong.), (*Pipraich* (*R*)); Khushi Ram (SC) (Cong.), (*Pithoragarh* (*R*)); N. S. Bisht (Cong.), (*Pithoragarh*); Kamlesh Chandra (SC) (Ind.) (*Powayan* (*R*)); Raj Kumar Surendra (I.P.L.P.), (*Powayan*); Ram Adhar Tewari (Cong.), (*Pratapgarh North*); B. P. Shukla (Cong.), (*Pratapgarh South*); Parmeshwardin Verma (Cong.), (*Purwa*); Yamuna Prasad Shukla (J.S.), (*Rai Bareili North*); Aslam Khan (I.P.L.P.), (*Rampur*); C. B. Gupta (Cong.), (*Ranikhet South*); H. Kandpal (Cong.), (*Ranikhet North*); Doogar Singh (Cong.), (*Rath*); R. L. Singh (Cong.), (*Rari*); Ganga Prasad Singh (Cong.), (*Rasra*); Ram Ratan (SC) (Cong.), (*Rasra* (*R*)); Ramchandra Uniyal (Cong.), (*Rawain*); Anand Brahma Shah (I.P.L.P.), (*Robertsganj*); Shobh Nath (SC) (J.S.), (*Robertsganj* (*R*)); Wasi Naqvi (Cong.), (*Rokha*); Din Dayal Shastri (Cong.), (*Roorkee*); Mukut B. L. Agarwal (J.S.), (*Rudauli*); T. R. Pujari (Soc.), (*Sadabad*); Raghuran Tej Bahadur Singh, *alias* Lal Saheb (I.P.L.P.), (*Sadullahnagar*); Mulla Prasad (SC) (C.P.I.), (*Safipur* (*R*)); S. G. Tiwari (I.P.L.P.), (*Safipur*); Indu Bhushan Gupta (I.P.L.P.), (*Sagri*); Mansurul Nabi (Cong.), (*Saharanpur*); Ulfat Singh (I.P.L.P.), (*Sahaswan*); Tirmal Singh (Cong.), (*Sahawar*); A. R. Pandey (Cong.), (*Saidpur*); Ugra Sen (Soc.), (*Salempur West*); S. B. Rao (Cong.), (*Salempur South*); Ayodhya Prasad Arya (Cong.), (*Salem-East*); Smt. Sunita Chauhan (Cong.), (*Salon*); Ram Prasad (SC) (Cong.), (*Salon* (*R*)); Mahmood Husain Khan (Ind.), (*Sambhal*); Mohan Lal Verma (P.S.P.), (*Sandila*); Shambhoo Dayal (SC) (P.S.P.), (*Sandila* (*R*)); Rana Fateh Singh (Cong.), (*Sardhana*); Ramji Lal Sahayak (SC) (Cong.), (*Sardhana* (*R*)); Guptar Singh (Cong.), (*Sareni*); Smt. Saraswati Devi Shukla (Cong.), (*Sarju*); Jamuna Singh (P.S.P.), (*Shadiabad*); Dev Ram (SC) (Cong.), (*Shadiabad* (*R*)); Kanhaiya Lal Balmiki (SC) (Cong.), (*Shahabad* (*R*)); Smt. Vidya Vati Bajpai (Cong.), (*Shahabad*); Baldeo Singh Arya (SC) (Cong.), (*Shahabad* (*R*)); Kalyan Rai (Cong.), (*Shahabad*); K. S. Singh (I.P.L.P.), (*Shahganj*); Mata Prasad (SC) (Cong.), (*Shahganj* (*R*)); Darshan Singh (Ind.), (*Shahjahanpur*); Rajendra Singh Yadav (P.S.P.), (*Shamsabad*); L. B. Singh (Cong), (*Sheopur*); Badam Singh (SC) (Cong.), (*Shikarpur* (*R*)); Rajendra Datta (Cong.), (*Shikurpur*); Ch. Layaq Singh (I.P.L.P.), (*Shikohabad*); Irtaza Hussain (Cong.), (*Siana*); Tarachand Maheshwari (Cong.), (*Sidauli*); Baiju Ram (SC) (Cong.), (*Sidauli* (*R*)); Raj Deo (Cong.), (*Sidhuwa Jobna*); Sheo Prasad (SC) (Cong.), (*Sidhuwa Jobna* (*R*)); Malkhan Singh (Cong.), (*Sikandra Rao*); Ram Chandra Vikal (Cong.), (*Sikandrabad*); Jagannath Chaudhary (Cong.), (*Sikandarpur*); Ramji Sahai (Cong.), (*Silhat*); Dr. Sita Ram (SC) (Cong.), (*Silhat* (*R*)); Dharam Datt Vaidya (Cong.), (*Sirauli*); Chhotey Lal Paliwal (Cong.), (*Sirahpura*); H. C. Asthana (Cong.), (*Sitapur*); Chhedi Lal (SC) (P.S.P.), (*Srinagar* (*R*)); B. D. Shukla (P.S.P.), (*Srinagar*); Parma Nand Sinha (Cong.), (*Soraon West*); Sangram Singh (Cong.), (*Soraon East*); Mahmood Ali Khan (Cong.), (*Suar Tanda*); K. K. Verma (Cong.), (*Sultanpur*); Ram Narain Tripathi (Soc.), (*Surhurpur*); Pratap Singh (P.S.P.), (*Tanakpur*); Jai Ram Varma (Cong.), (*Tanda*); Sukhram Das (SC) (Cong.), (*Tanda* (*R*)); Deo Datt Singh (Cong.), (*Tappal*); Sitla Prasad (Cong.), (*Tarabganj*); S. C. Ramola (Cong.), (*Tehri*); Kishan Singh (Cong.), (*Thakurdwara*); Balak Ram (Soc.), (*Tilhar*); Madan Pandey (Soc.), (*Tilpur*); Dharampal Singh (Ind.), (*Tulshipur*); Sri Krishna Goel (Cong.), (*Ujhani*); Ch. Khazan Singh (P.S.P.), (*Unnao*); Mubarik Ali Khan (Ind.), (*Usehat*); Ali Jarrar Jaffery (Cong.), (*Utraula*); P. L. Srivastava (P.S.P.), (*Utraulia*); N. R. Sharma (Cong.), (*Utrauli*); Dr. Sampurnanand (Cong.), (*Varanasi City South*); Mohammad Abdussamad (Cong.), (*Varanasi City North*); Bashist Narain Sharma (P.S.P.), (*Zamania*).

Nominated (Anglo-Indian): A. C. Grice.

Note: I.P.L.P.—Independent Progressive Legislature Party.

WEST BENGAL LEGISLATIVE COUNCIL

Strength: 75. *Chairman:* Dr. Suniti Kumar Chatterji. *Dy. Chairman:* Dr. Pratap Chandra Guha Ray.

Local Authorities' Constituencies (27)

R. S. Prasad (*W. Bengal North*); Sachindra Nath Misra (*West Bengal North*); Dhirendra Nath Moitra (*W. Bengal North*); Nrisingha Prasad Sarkar (*W. Bengal East*); Nagendra Kumar Bhattacharyya (*W. Bengal East*); Basanka Sekhar Sanyal (*W. Bengal East*); Sreepada Bhattacharyya (*W. Bengal East*); Pashu Pati Jha (*West Bengal East*); Kali Pada Mookerjee (*W. Bengal South*); Mohit Kumar Moitra (*West Bengal South*); Janaki-Ballabha Bhattacharyya (*W. Bengal South*); Harendra Nath Mazumdar (*W. Bengal South*); Devaprasad Chatterjea (*W. Bengal South*); Jogindralal Saha (*W. Bengal South*); Suresh Chandra Paul (*W. Bengal South*); Sudhindra Nath Mukherjee (*W. Bengal Central*); Rabindralal Sinha (*W. Bengal Central*); Kanailal Goswami (*W. Bengal Central*); Birendra Nath Choudhury (*W. Bengal Central*); Kali Charan Ghose (*W. Bengal Central*); Pashupati Nath Maliah (*W. Bengal West*); Chittaranjan Roy (*W. Bengal West*); Biman Behari Lall Singha (*W. Bengal West*); Gajendra Nath Hazra (*W. Bengal West*); Surendra Kumar Roy (*W. Bengal West*); Janab Sd. Shahedullah (*W. Bengal West*); Basanta Kumar Das (*W. Bengal West*).

Graduates' Constituencies (6)

Nirmal Chandra Bhattacharyya (*Calcutta*); Gopal Chandra Halder (*Calcutta*); Tripurari Chakravarti (*Calcutta*); Dr. Suniti Kumar Chatterji (*West Bengal*); Dr. Charu Chandra Sanyal (*West Bengal*); Nirmalya Bagchi (*West Bengal*).

Teachers' Constituencies (6)

Santosh Kumar Bhattacharyya (*Calcutta*); Sachindra Nath Banerjee (*Calcutta*); Bijay Bihary Basu (*Calcutta*); Monoranjan Sen Gupta (*W. Bengal*); Satya Priya Roy (*W. Bengal*); Anila Debi (*W. Bengal*).

West Bengal Legislative Assembly (27)

Janab Abdul Halim; Annada Prosad Choudhuri; Monoranjan Gupta; Krishna Kumar Chatterjee; Dr. Monindra Mohan Chakrabarty; Abdullah Rasul; Janab Mohammad Sayeed Mia; Dr. Pratap Chandra Guha Ray; Mohitosh Rai Choudhuri; Rezaul Karim; Kamala Charan Mookerjee; Ram Kumar Bhuwalka; Kamada Kinkar Mukherjee; Rai Harendra Nath Chaudhuri; Lakshman Prodhan; Hari Kumar Chakravarty; Asutosh Ghosh; Satish Chandra Pakrashi; Narendra Das; Aurobindo Bose; Smt. Abha Chatterjee; Biswanath Mukherjee; Ram Lagan Singh; Jimut Bahan Sen; Dwijendralal Sen Gupta; Syed Nausher Ali; Snehangshu Kanto Acharya.

Nominated by Governor (9)

Dr. Sambhu Nath Banerjee; Dr. Kumar Banerjee; Gurugobinda Basu; Santi Das; Badri Prasad Poddar; Labanyaprova Dutt; Janab Musharruf Hossain; Janab Shaikh Mohammad Jan; Pannalal Saraogi.

WEST BENGAL LEGISLATIVE ASSEMBLY

Constituencies: 195 (S.M. 138; D.M. 57). Seats: 256 (S.C. 45; S.T. 15). Electorate: 1,52,16,532.

Speaker: Bankim Chandra Kar; *Dy. Speaker:* Asutosh Mullick.

An estimate of party position is given below:—

Congress 164; Praja Socialist Party 20; Communist Party of India 49; Forward Bloc (Marxist) 8; Independents 14.

Som Nath Lahiri (C.P.I.), (*Alipore*); Pijush Kanti Mukherjee (Cong.), (*Alipur Duars*); Gabinda Charan Maji (P.S.P.), (*Amta East*); Arabinda Roy (Cong.), (*Amta West*); Radhakrishna Pal (Cong.), (*Arambagh*); Sagar Chandra Mahato (Ind.), (*Arsha*); Shib Das Ghatak (Cong.), (*Asansol*); Kanailal Das (Cong.), (*Ausgram*); Md. Zia Ul-Huque (Cong.), (*Baduria*); Dr. R. G. Chowdhuri (Cong.), (*Bagnan*); B. C. Mahato (Cong.), (*Balarampur*); Dr. Jnanendra Mazumdar (C.P.I.), (*Ballygunge*); Dhirendra Nath Banerjee (Ind.), (*Balurghat*); Hakai Mardi (ST) (Cong.), (*Balurghat* (*R*)); Monilal Basu (Cong.), (*Bally*); Bijoy Krisna Modak (C.P.I.), (*Balagarh*); Dr. Anath Bandhu Ray (Cong.), (*Bankura*); Sishuram Mondal (SC) (Cong.), (*Bankura* (*R*)); Iswar Das Jalan (Cong.), (*Bara Bazar*); Khagendra Kumar Roy Choudhury (C.P.I.), (*Baruipur*); Gangadhar Naskar (SC) (C.P.I.), (*Baruipur* (*R*)); Jyoti Basu (C.P.I.), (*Baranagar*); Chitto Basu (F.B.(M.)), (*Barasat*); Profullanath Banerjee (Cong.), (*Basirhat*); Rabindra Nath Mukhopadhyaya (C.P.I.), (*Behala*); Rama Shanker Prasad (SC) (C.P.I.), (*Beliaghata* (*R*)); Jagat Bose (C.P.I.), (*Beliaghata*); Ganesh Ghosh (C.P.I.), (*Belgachia*); Parimal Ghosh (Cong.), (*Beldanga*); Bejoy Kumar Ghosh (Cong.), (*Berhampore*); Goalbadan Trivedi (Cong.), (*Bharatpur*); Hafijur Rahaman Kazi (Cong.), (*Bhagabangola*); Byomkes Majumdar (Cong.), (*Bhadreswar*); Basanta Kumar Panda

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(P.S.P.), (*Bhagabanpur*); Bhikhari Mandal (SC) (Cong.), (*Bhagabanpur* (*R*)); Smt. Abhalata Kundu (Cong.), (*Bhatar*); A. K. M. Ishaque (Cong.), (*Bhangar*); Sitaram Gupta (C.P.I.), (*Bhatpara*); Siddarta Sankar Ray (Ind.), (*Bhowanipur*); Niranjan Sen Gupta (C.P.I.), (*Bijpur*); Sudhir Kumar Pandey (C.P.I.), (*Binpur*); Jamadar Hasda (ST) (Cong.), (*Binpur* (*R*)); Provash Chandra Roy (C.P.I.), (*Bishnupur*); Rabindra Nath Roy (SC) (C.P.I.), (*Bishnupur*(*R*)); Amarendra Nath Sarkar (Cong.), (*Bolpur*); Ajit Kumar Ganguli (C.P.I.), (*Bongaon*); Manindra Bhusan Biswas (SC) (Cong.), (*Bongaon*) (*R*)); Bidhan Chandra Roy (Cong.), (*Bow Bazar*); Bankim Mukherjee (C.P.I.), (*Budge Budge*); Benoy Krishna Chowdhury (C. P.I.), (*Burdwan*); Sudhir Chandra Ray Choudhuri (Ind.), (*Burtola North*); Amarendra Nath Basu (C.P.I.), (*Burtola South*); Shakila Khatun (Cong.), (*Canning*); Khagendra Nath Naskar (SC) (Cong.), (*Canning*) (*R*)); Hirendra Kumar Chattopadhyay (C.P.I.), (*Chandernagore*); Suresh Chandra Banerjee (P.S.P.), (*Chakdah*); S. Ram Lochan Mukherjee (Cong.), (*Chhatna*); Kamalakanta Hemram (ST) (Cong.), (*Chhatna* (*R*)); Bhupati Majumdar (Cong.), (*Chinsurah*); Mohammad Afaque Chowdhury (Cong.), (*Chopra*); Bijoy Singh Nahar (Cong.), (*Chowringhee*); Natendra Nath Das (P.S.P.), (*Contai North*); Ras Behari Pal (Cong.), (*Contai South*); Mazirud-din Ahmed (Cong.), (*Cooch Behar*); Satish Chandra Roy Singha (SC) (Cong.), (*Cooch Behar* (*R*)); Deben Sen (P.S.P.), (*Cossipore*); Charu Chandra Mahanty (Cong.), (*Dantan*); Deo Prakas Rai (Ind.), (*Darjeeling*); Bhabaniranjan Panja (Cong.), (*Daspur*); Mohini Mohan Pati (Cong.), (*Debra*); Dr. Rafiuddin Ahmed (Cong.), (*Deganga*); Atul Krishna Roy (SC) (Cong.), (*Deganga* (*R*)); Radha Nath Das (SC) (Cong.), (*Dhaniakhali* (*R*)); D. N. Mukherjee (Cong.), (*Dhaniakhali*); Bhawani Prasanna Talukdar (Cong.), (*Dinhata*); Umesh Chandra Mandal (SC) (Cong.), (*Dinhata* (*R*)); Ramanuj Halder (P.S.P.), (*Diamond Harbour*); Tarapada De (C.P.I.), (*Domjur*); Pabitra Mohan Roy (P.S.P.), (*Dum Dum*); Bhuban Chandra Kar Mahapatra (P.S.P.), (*Egra*); Narendra Nath Sen (Cong.), (*Ekbalpur*); Santi Gopal Sen (Cong.), (*Englishbazar*); Abu Asad Md. Obaidul Ghani (C.P.I.), (*Entally*); Jagadananda Ray (P.S.P.), (*Falakata*); Khagendra Nath Das (Cong.), (*Falta*); Mahammad Giasuddin (Cong.), (*Farakka*); Dr. Maitreyee Bose (Cong.), (*Fort*); Pramatha Nath Dhibar (SC) (F.B. (M.)), (*Galsi* (*R*)); Phakir Chandra Roy (Ind.), (*Galsi*); Satindra Nath Basu (Cong.), (*Gangarampur*); Lakshan Chandra Hasda (ST) (Cong.), (*Gangarampur* (*R*)); Shaikh Abdulla Farooquie (C.P.I.), (*Garden Reach*); Saroj Roy (C.P.I.), (*Gahbeta*); Kumari Tusar Tudu (ST) (Cong.), (*Garhbeta* (*R*)); Harendra Nath Dolui (SC) (Cong.), (*Ghatal* (*R*)); Lakshman Chandra Sarkar (Cong.), (*Ghatal*); Muzaffar Hussain (Cong.), (*Goalpokher*); Surendra Nath Mahata (Cong.), (*Gopiballavpore*); Jagatpati Hasda (ST) (Cong.), (*Gopiballavpore* (*R*)); Tarun Kanti Ghosh (Cong.), (*Habra*); Elias Razi (Ind.), (*Harischandrapur*); Hazi A. Hameed (Cong.), (*Hariharpara*); Pramatha Ranjan Thakur (SC) (Cong.), (*Haringhata* (*R*)); Smarajit Bandyopadhyay (Cong.), (*Haringhata*); Jahangir Kabir (Cong.), (*Haroa*); Hemanta Kumar Ghosal (C.P.I.), (*Hasnabad*); Rajkrishna Mondal (SC) (Cong.), (*Hasnabad* (*R*)); Taher Hossain (C.P.I.), (*Hirapur*); Samar Mukhopadhyay (C.P.I.), (*Howrah North*); Bankim Chandra Kar (Cong.), (*Howrah West*); Beni Chandra Dutta (Cong.), (*Howrah East*); Kanailal Bhattacherjee (F.B.(M.)), (*Howrah South*); Basanta Lal Chatterjee (C.P.I.), (*Itahar*); Bindabon Behari Basu (F.B.(M.)), (*Jagatballavpur*); Golam Soleman (Cong.), (*Jalangi*); Khagendra Nath Das Gupta (Cong.), (*Jalpaiguri*); Sarojendra Deb Raikut (SC) (Cong.), (*Jalpaiguri* (*R*)); Amarendra Mondal (SC) (P.S.P.), (*Jamuria*); Baidyanath Mondal (SC) (Cong.), (*Jamuria* (*R*)); Shyamapada Bhattacherjee (Cong.), (*Jangipur*); Kuber Chand Haldar (SC) (Cong.), (*Jangipur* (*R*)); Kanai Dey (Cong.), (*Jangipara*); Biswanath Saha (SC) (Cong.), (*Jangipara* (*R*)); Nepal Ray (Cong.), (*Jorabagan*); Debendra Nath Mahato (Cong.), (*Jhalda*); Mahendra Mahata (Cong.), (*Jhargram*); Bhadra Bahadur Hamal (C.P.I.), (*Jorebungalow*); Anandilall Poddar (Cong.), (*Jorasanke*); Subodh Banerjee (Ind.), (*Joynagar*); Renupada Halder (SC) (Ind.), (*Joynagar* (*R*)); Smt. Maya Banerjee (Cong.), (*Kakdwip*); Smt. Manikuntala Sen (C.P.I.), (*Kalighat*); Hare Krishna Konar (C.P.I.), (*Kalna*); Jamadar Majhi (ST) (C.P.I.), (*Kalna* (*R*)); Narbahadur Gurung (Cong.), (*Kalimpong*); Debendra Nath Brahmamandal (ST) (Cong.), (*Kalchini* (*R*)); Smt. Anima Hoare (Cong.), (*Kalchini*); Mahibur Rahaman Choudhury (Cong.), (*Kaliachak*); Sudhir Mandal (SC) (Cong.), (*Kandi* (*R*)); Bimal Ch. Sinha (Cong.), (*Kandi*); Bijoylal Chattopadhyaya (Cong.), (*Karimpur*); Phanis Chandra Sinha (Cong.), *Karandighi*; Ledu Majhi (ST) (Ind.), (*Kashipur*); Budhan Majhi (ST) (Cong.), (*Kashipur* (*R*)); Tarapada Chaudhuri (Cong.), (*Katwa*); Golam Yazdani (C.P.I.), (*Kharba*); Panchanan Digpat (SC) (Cong.), (*Khanakul* (*R*)); Prafulla Chandra Sen (Cong.), (*Khanakul*); Narayan Chobey (C.P.I.), (*Kharagpur*); Mrityunjoy Jana (Cong.), (*Kharagpur Local*); Krishna Prasad Mandal (SC) (Cong.), (*Kharagpur Local* (*R*)); Satkari Mitra (P.S.P.), (*Khardah*); Abdus Sattar (Cong.), (*Ketugram*); Sankar Das (SC) (Cong.), (*Ketugram* (*R*)); Jagannath Kolay (Cong.), (*Kotulpur*); Jagannath Majumder (Cong.), (*Krishnagar*); Benarashi Prosad Jha (P.S.P.), (*Kulti*); Hansadhwaj Dhara (Cong.), (*Kulpi*); Radhanath Chattoraj (C.P.I.), (*Labpur*); Syed Kazam Ali Meerza (Cong.), (*Lalgola*); Ardhendu Shekhar Naskar (SC) (Cong.), (*Magrahat* (*R*)); Abul Hashem (Cong.), (*Magrahat*); Sudhir Chandra Bhandari (C.P.I.), (*Maheshtola*); Prafulla Chandra Ghose (P.S.P.), (*Mahishadal*); Mahatab Chand Das (SC) (Cong.), (*Mahishadal* (*R*)); Jajneswar Ray (SC) (Cong.), (*Mainaguri* (*R*)); Nikunja Behari Gupta (Cong.), (*Malda*); Matla Murmu (ST) (Cong.), (*Malda* (*R*)); Budhu Bhagat (ST) (Cong.), (*Mal* (*R*)); Mangru Bhagat (ST) (C.P.I.), (*Mal*); Bhakta Chandra Roy (Ind.), (*Manteswar*); Ranendra Nath Sen (C.P.I.), (*Manicktola*); Chaitan Majhi (ST) (Ind.), (*Manbazar* (*R*)); Satya Kinkar Mahato (Cong.), (*Manbazar*); Brindaban Gayan (SC) (Cong.), (*Mathurapur* (*R*)); Bhushan Chandra Das (Cong.), (*Mathurapur*); Sarada Prasad Pramanik (SC) (Cong.), (*Mathabhanga* (*R*)); Ananga Mohan Das (Cong.), (*Mayna*); Satyendra Prasanna Chattyopadhya (Cong.), (*Mekliganj*); Smt. Anjali Khan (Cong.), (*Midnapur*); Jatindra Chandra Chakravorty (Ind.), (*Muchipara*); Durgapada Sinha (Cong.), (*Murshidabad*); Niranjan Modak (Cong.), (*Nabadwip*); Gopal Basu (C.P.I.), (*Naihati*); S. M. Fazlur Rahman (Cong.), (*Nakashipara*); Mahananda Haldar (SC) (Cong.), (*Nakashipraa* (*R*)); Mohammad Yeakub Hossain (Cong.), (*Nalhati*); Sisir Kumar Saha (SC) (Cong.), (*Nalhati* (*R*)); Bhupal Chandra Panda (C.P.I.), (*Nandigram South*); Subodh Chandra Maiti (Cong.), (*Nandigram North*); Mohammod Israil (Cong.), (*Naoda*); Panchanan Bhattacharjee (P.S.P.), (*Noapara*); Dhawajadhari Mondal (SC) (Cong.), (*Ondal* (*R*)); Anani Gopal Mukhopadhaya (Cong.), (*Ondal*); Gokal Behari Das (Cong.), (*Onda*); Ashutosh Mauck (SC) (Cong.), (*Onda* (*R*)); Rajani Kanta Liramanik (Cong.), (*Panskura East*); Syamadas Bhattacharyya (Cong.), (*Penskura West*); Gurupada Khan (SC) (Cong.), (*Patrasayer* (*R*)); Bhabataran Chakravarty (Cong.), (*Patrasayer*); Sisir Kumar Das (P.S.P.), (*Patashpore*); Bimalananda Tarkatirtha (Cong.), (*Purbasthali*); Smt. Labanya Prava Ghosh (Ind.), (*Purulia*); Nakul Chandra Sahis (SC) (Cong.), (*Purulia*(*R*)); Nepal Bouri (SC) (Cong.), (*Raghunathpur* (*R*)); Shankar Narayan Singha Deo (Cong.), (*Raghunathpur*); Khagendra Nath Bandyopadhyay (Cong.), (*Rajnagar*); Nishapati Majhi (SC) (Cong.), (*Rajnagar* (*R*)); Hazi Badiruddin Ahmed (Cong.), (*Raiganj*); Syama Prasad Barman (SC) (Cong.), (*Raiganj* (*R*)); Smt. Sudharani Dutta (Cong.), (*Raipur*); Jadu Nath Murmu (ST) (Cong.), (*Raipur* (*R*)); Dasarathi Tah (P.S.P.), (*Raina*); Gobardhan Pakray (SC) (P.S.P.), (*Raina* (*R*)); Gobardhan Das (SC) (C.P.I.), (*Rampurhat* (*R*)); Durgapada Das (Ind.), (*Rampurhat*); Trailokyanath Prodhan, (Cong.), (*Ramnagar*); Badrudduha Syed (Ind.), (*Raninagar*); Binoy Kumar Chatterjee (Cong.) (*Ranaghat*); Sunil Das (P.S.P.), (*Rashbehari Avenue*); Sourindra Mohan Misra (Cong.), (*Ratua*); Dhaneswar Saha (SC) (Cong.), (*Ratua* (*R*)); Gopal Chandra Das Adhikari (Cong.), (*Sabong*); Shyama Prasanna Bhattacharjee (C.P.I.), (*Sankrail*); Apurbai Lal Majumdar (SC) (F.B.(M.)), (*Sankrail* (*R*)); Haridas Dey (Cong.), (*Santipur*); Haran Chandra Mondal (SC) (Ind.), (*Sandesh-Khali* (*R*)); Panchugopal Bhaduri (C.P.I.), (*Serampore*); T. Wangdi (ST) (Cong.), (*Siliguri* (*R*)) Satyendra Narayan Mazumdar (C.P.I.), (*Siliguri*); Provakar Pal (Cong.), (*Singur*); Hemanta Kumar Bose (F.B.(M.)), (*Skampukur*); Monoranjan Misra (Cong.), (*Sujapur*); Suhrid Mallik Chowdhury (C. P.I.), (*Sukeas Street*); Mihirlal Chatterji (P.S.P.), (*Suri*); Turku Hansda (ST) (C.P.I.), (*Suri* (*R*)); Lutfal Hoque (Cong.), (*Suti*); Mohammad Ishaque (Cong.), (*Swarupnagar*); Sasabindu Bera (F.B.(M.)), (*Syhampur*); Dhirendra Nath Dhar (C.P.I.), (*Taltola*); Ajoy Kumar Mukherji (Cong.), (*Tamluk*); Parbati Hazra (Cong.), (*Tarakeswar*); Sankardas Bandyopadhyay (Cong.), (*Tehatta*); Krishna Kumar Shukla (Cong.), (*Titagarh*); Haridas Mitra (P.S.P.), (*Tollygunge*); Jatindra Nath Sinah Sarkar (Cong.), (*Tufanganj*); Abani Kumar Basu (Cong.), (*Uluberia*); Bijoy Bhusan Mandal (SC) (F.B.(M.)), (*Uluberia* (*R*)); Monoranjan Hazra (C.P.I.), (*Uttarpara*); Dr. Narayan Chandra Roy (C.P.I.), (*Vidyasagar*); Smt. Purabi Mukhopadhyay (Cong.), (*Vishnupur*); Kiran Chandra Digar (SC) (Cong.), (*Vishnupur* (*R*)).

Nominated (Anglo-Indian representation): R. E. Patel, C. Noronha, C. L. Blanche, Miss O. Pemantle.

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RAJYA SABHA

Total no. of seats : 236.
Chairman : Dr. S. Radhakrishnan.
Dy. Chairman : S. V. Krishnamoorthy Rao.
Secretary : S. N. Mukerjee.
Joint Secretary : B. N. Banerjee.
Dy. Secretaries : S. S. Bhalerao, P. N. Krishnamani.
Under-Secretaries : I. Krishna ; M. S. Panigrahi ; M. A. Amladi ; S. P. Ganguly ; Kewal Krishan.

In the Rajya Sabha the number of Congressmen is estimated at 176, number of Praja Socialist Group is estimated at 13, the number of Communists is estimated at 12, the number belonging to the Democratic Group is estimated at 15, the number of independents (including a Muslim Leaguer, Socialists, Swatantra Party members, and others) is estimated at 8. The number of nominated members is 12.

ANDHRA PRADESH—18

Makkineni Basavapunnaiah ; Dr. B. Gopala Reddi ; Dr. Raj Bahadur Gour ; Akbar Ali Khan ; Shrimati Seeta Yudhvir ; Kota Punniah ; J. C. Nagi Reddi ; Dr. K. L. Narasimha Rao ; Mudumala Henry Samuel ; V. C. Kesava Rao ; Adduru Balarami Reddy ; S. Channa Reddy ; D. Ramanuja Rao ; Narla Venkateswara Rao ; K. L. Narasimham ; Villuri Venkataramana ; A. Chakradhar ; Shrimati Yashoda Reddy.

ASSAM—7

S. C. Deb ; Shrimati Bedavati Buragohain ; Shrimati Pushpalata Das ; Purna Chandra Sharma ; Maulana M. Tayyebulla ; Joy Bhadra Hagjer ; Lila Dhar Barooah.

BIHAR—22

R. G. Agarwala ; A. Mohammad Choudhary ; M. John ; Kishori Ram ; Shrimati Lakshmi N. Menon ; Kameshwar Singh ; Pratul Chandra Mitra ; R. P. N. Sinha ; Mahesh Saran ; Syed Mazhar Imam ; Devendra Prasad Singh ; Braja Kishore Prasad Sinha ; Ganga Sharan Sinha ; Rajendra Pratap Sinha ; Kamta Singh ; Rama Bahadur Sinha ; Prof. R. D. Sinha Dinkar ; Tajamul Husain ; Shah Mohd. Umair ; Sheel Bhadra Yajee ; Awadheshwar Prasad Sinha ; Shrimati Jahanara Jaipal Singh.

GUJARAT—11

Jadavji Keshavji Modi ; Prof. Dr. Raghu Vira ; M. S. Patel ; Rhohit Manushankar Dave ; Khandubhai K. Desai ; Dahyabhai V. Patel ; M. M. Mehta ; S. J. Desai ; J. H. Joshi ; K. S. Chawda ; I. T. Lohani.

KERALA—9

Shrimati K. Bharathi ; K. Madhava Menon ; Dr. P. J. Thomas ; Govindan Nair ; K. P. Madhavan Nair ; Joseph Mathen ; Ebrahim Sulaiman Sait ; P. A. Solomon ; Dr. A. Subba Rao.

MADHYA PRADESH—16

Niranjan Singh ; Mohammad Ali ; Banarsi Das Chaturvedi ; Gurudeo ; Shrimati Krishna Kumari ; Ratanlal Kishorilal Malviya ; Dayaldas Kurre ; Dr. Raghubir Sinh ; Ram Sahai ; Shrimati Rukmani Bai ; Vishnu Vinayak Sarwate ; Dr. Shrimati Seeta Parmanand ; Kesheo Prasad Verma ; Thakur Bhanu Pratap Singh ; Gopi Krishna Vijaivargiya ; Vacant.

MADRAS—18

Smt. G. Parthasarathy ; T. S. Avinashilingam Chettiar ; S. Chattanatha Karayalar ; Dr. A. Ramaswami Mudaliar ; P. Ramamurti ; Shrimati T. Nallamuthu Ramamurti ; N. M. Lingam ; Abdul Rahim ; N. Ramakrishna Iyer ; N. M. Anwar ; G. Rajagopalan ; Thomas Srinavasan ; T. S. Pattabiraman ; B. Parameswaran ; S. Venkataraman ; Dawood Ali Mirza ; R. Gopalakrishnan ; K. Santhanam.

MAHARASHTRA—19

P. N. Rajabhoj ; Dr. W. S. Barlingay ; T. R. Deogirikar, G. R. Kulkarni ; D. Y. Pawar ; M. D. Tumpalliwar ; B. M. Babubhai Chinai ; R. M. Deshmukh ; B. D. Khobargade ; S. D. Patil ; Lalji Pendse ; Abid Ali ; B. S. Savnekar ; D. Narayan ; D. B. Desai ; V. T. Nagpure ; S. K. Limaye ; V. R. Pandurang Patil ; K. K. Shah.

MYSORE—12

B. C. Nanjundaiya ; Janardhan Rao Desai ; Shrimati Annapurna Devi Thimmareddy ; Mulka Govinda Reddy ; Dr. N. S. Hardiker ; M. S. Gurupada Swamy ; S. V. Krishnamoorthy Rao ; M. Govinda Reddy ; N. Sri Rama Reddi ; B. P. Basappa Shetty ; Shrimati Violet Alva ; Vacant.

ORISSA—10

Nanda Kishore Das ; Dibakar Patnaik ; Bibudhendra Misra ; Bhagirathi Mahapatra ; Maheswar Naik ; Lokanath Misra ; Abhimanyu Rath ; Bairagi Dwibedy ; Vacant ; Vacant.

PUNJAB—11

Mohan Singh ; Diwan Chaman Lall ; Madho Ram Sharma ; Darshan Singh Pheruman ; Jagan Nath Kaushal ; Bansi Lal ; Neki Ram ; Raghbir Singh Panjhazari ; Rajkumari Amrit Kaur ; Giani Zail Singh ; Jugal Kishore.

RAJASTHAN—10

Maulana Abdul Shakoor ; Kumbha Ram ; Swami Keshvanand ; Jai Narain Vyas ; Tika Ram Paliwal ; Shrimati Sharda Bhargava ; Dr. K. L. Shrimali ; Jaswant Singh ; Vijay Singh ; Sadiq Ali.

UTTAR PRADESH—34

G. S. Pathak ; Jagannath Prasad Agrawal ; Akhtar Husain ; Jashaud Singh Bisht ; Shrimati Chandravati Lakhanapal ; Jogesh Chandra Chatterji ; Nawab Singh Chauhan ; A. C. Gilbert ; Bhagwat Narayan Bhargava ; M. R. Shervani ; Satya Charan ; Nafisul Hasan ; Piare Lall Kureel Talib ; Arjun Arora ; Ramgopal Gupta ; Mukut Behari Lal ; Faridul Haq Ansari ; Jaspat Roy Kapoor ; Dr. Hriday Nath Kunzru ; Shyam Dhar Misra ; Raja Ajit Pratap Singh ; Tarkeshwar Pande ; Umashankar Dikshit ; Har Prasad Saksena ; P. N. Sapru ; Shrimati Savitri Devi Nigam ; Mrs. Shanti Devi ; Hira Vallabha Tripathi ; Dr. Dharam Prakash ; Pandit Sham Sundar Narain Tankha ; Dr. Z. A. Ahmad ; M. P. Bhargava ; Hafiz Mohammad Ibrahim ; Smt. Anis Kidwai.

WEST BENGAL—16

Ansaruddin Ahmad ; Dr. Nihar Ranjan Ray ; Rajpat Singh Doogar ; Kumari Abha Maity ; Biren Roy ; Sudhir Ghosh ; Santosh Kumar Basu ; Bhupesh Gupta ; P. D. Himatsingka ; Prof. Humayun Kabir ; Shrimati Maya Devi Chettry ; Dr. Atindra Nath Bose ; Satyendra Prosad Ray ; Mriganka Mohan Sur ; Surendra Mohan Ghose ; Mehr Chand Khanna.

JAMMU AND KASHMIR—4

Budh Singh ; Vacant ; Pir Mohammed Khan ; Krishna Dutt.

DELHI—3

S. K. Dey ; Kumari Shanta Vashist ; Mirza Ahmed Ali.

HIMACHAL PRADESH—2

Anand Chand ; Shrimati Lila Devi.

MANIPUR—1

Laimayum Lalit Madhob Sharma.

TRIPURA—1

Abdul Latif.

NOMINATED BY THE PRESIDENT—12

Tara Shankar Banerjee ; Maithilisharan Gupta ; Kakasaheb Kalekar ; Jairamdas Daulatram ; Mohanlal Saksena ; Naraindas Rattanmal Malkani ; Shrimati Rukmini Devi Arundale ; M. Satyanarayana ; Prof. A. R. Wadia ; B. V. (Mama) Warerkar ; Dr. Tara Chand ; V. T. Krishnamachari.

LOK SABHA

Constituencies : 403 (S.M. 312 ; D.M. 91) ; No. of seats reserved for S.C. 76 ; No. of seats reserved for S.T. 31 ; Total no. of members : 505.

Speaker, M. Ananthasayanam Ayyangar. *Dy. Speaker*, Sardar Hukam Singh. *Secretary*, M. N. Kaul.

Jt. Secretary : S. L. Shakdher.

Deputy Secretaries : V. Subramanian ; N. N. Mallaya ; H. N. Trivedi ; A. S. Rikhy ; P. K. Patnaik ; A. L. Rai ; A. K. Ray.

Under-Secretaries : Chand Narain ; B. B. Tewari ; R. P. Kaushik ; M. C. Chawla ; K. Ranganadham ; M. C. Joshi ; B. K. Mukerjee ; Y. P. Passi.

An estimate of party strength is as follows : Congress 373, Praja Socialist Party 18, Communist Party of India 30, Bhartiya Jan Sangh 4, Peoples' Democratic Front (Andhra) 2, Jharkhand (Bihar) 5, Peasants and Workers Party 5, Hindu Mahasabha 1, Ganatantra Parishad (Orissa) 7, Forward Bloc (Marxist) (West Bengal) 2, Independents 35, Republican Party of India 9, Swatantra Party 10.

ANDHRA—43

K. Ashanna (Cong.), (*Adilabad*) ; Pendekanti Venkatasubbiah (Cong.), (*Adoni*) ; T. Nagi Reddy (C.P.I.), (*Anantapur*) ; M. Ananthasayanam Ayyangar (Cong.), (*Chittoor*) ; M. V. Gangadharasiva (SC) (Cong.), (*Chittoor (R)*) ; V. Rami Reddi (Cong.), (*Cuddapah*) ; Kumari Mothey Vedakumari (Cong.), (*Eluru*) ; Missula Suryanarayanamurti (Cong.), (*Golugonda*) ; Vacant (*Golugonda (R)*) ; D. Balarama Krishnaiah (Cong.), (*Gudivada*) ; K. Raghuramaiah (Cong.), (*Guntur*) ; K. V. Ramakrishna Reddy (Cong.), (*Hindupur*) ; Vinayak Rao K. Koratkar (Cong.), (*Hyderabad*) ; M. Thirumala Rao (Cong.), (*Kakinada*) ; B. S. Murthy (SC) (Cong.), (*Kakinada (R)*) ; Sriranga Rao (Cong.), (*Karimnagar*) ; M. R. Krishna (SC) (Cong.), (*Karimnagar (R)*) ; T. B. Vittal Rao (P.D.F.), (*Khammam*) ; S. Osman Ali Khan (Cong.), (*Kurnool*) ; E. Madhusudan Rao (Cong.), (*Mahbubabad*) ; J. Rameshwar Rao (Cong.), (*Mahbubnagar*) ; Ramaswamy (SC) (Con.), (*Mahbubnagar (R)*) ; C. Bali Reddy (Cong.), (*Markapur*) ; Mandali Venkata Krishna Rao (Cong.), (*Masulipatnam*) ; P. Hanmanth Rao (Cong.), (*Medak*) ; D. Venkateshwar Rao (P.D.F.), (*Nalgonda*) ; V. Kasiram (*Nalgonda (R)*) ; Uddaraju Ramam (C.P.I.,) (*Narsapur*) ; Rebala Lakshmi Narasa Reddi (Cong.), (*Nellore*) ; B. Anjanappa

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(SC) (Cong.), (*Nellore* (*R*)); H. C. Heda (Cong.), (*Nizamabad*); R. Narappa Reddy (Cong.), (*Ongole*); Dippala Suridora (ST) (Ind.), (*Parvathipuram*); B. Satyanarayana (ST) (Cong.), (*Parvathipuram* (*R*)); T. N. Viswanatha Reddi (Cong.), (*Rajampet*); D. S. Raju (Cong.), (*Rajahmundry*); Ahmed Mohiuddin (Cong.), (*Secunderabad*); B. Rajagopala Rao (Cong.), (*Srikakulam*); N. G. Ranga (Swatantra), (*Tenali*); Smt. Sangam Laxmibai (Cong.), (*Vicarabad*); Dr. K. Atchamamba (Cong.), (*Vijayawada*); Dr. Vijaya Ananda of Vizianagaram (Cong.), (*Visakhapatnam*); Sadath Ali Khan (Cong.), (*Warangal*).

ASSAM—12

Hoover Hynniewta (ST) (Ind.), (*Autonomous Districts* (*R*)); Dwarika Nath Tewari (Cong.), (*Cachar*); Vacant (*Cachar* (*R*)); B. Bhagwati (Cong.), (*Darrang*); Amjad Ali (P.S.P.), (*Dhubri*); Jogendra Nath Hazarika (Cong.), (*Dibrugarh*); Hem Barua (P.S.P.), (*Gauhati*); Rani Manjula Devi (Cong.), (*Goalpara*); Dharanidhar Basumatari (ST) (Cong.), (*Golapara* (*R*)); Smt. Mafida Ahmed (Cong.), (*Jorhat*); Liladhar Kotoki (Cong.), (*Nowgong*); Profulla Chandra Borooah (Cong.), (*Sibsagar*).

BIHAR—53

R. Prasad Singh (*Aurangabad*); B. Mishra (Cong.), (*Bagaha*); Smt. Shakuntala Devi (Cong.), (*Banka*); Smt. Tarkeshwari Sinha (Cong.), (*Barh*); Mathura Prasad Mishra (Cong.), (*Begusarai*); Banarsi Prasad Jhunjhunwala (Cong.), (*Bhagalpur*); Kamal Singh (Ind.), (*Buxar*); Bepin Behari Varma (Cong.), (*Champaran*); Bhola Raut (SC) (Cong.), (*Champaran* (*R*)); Rajendra Singh (P.S.P.), (*Chapra*); Kunwarani Vijaya Raje (Swatantra), (*Chatra*); Shree Narayan Das (Cong.), (*Darbhanga*); Rameshwar Sahu (SC) (Cong.), (*Durbhanga* (*R*)); D. C. Malik (Cong.), (*Dhanbad*); Choudhury (Jharkhand), (*Dumka*); Debi Soren (ST) (Jharkhand), (*Dumka* (*R*)); Brajeshwar Prasad (Cong.), (*Gaya*); S. A. Matin (Swatantra), (*Giridih*); Dr. Syed Mahmud (Cong.), (*Gopalganj*); Rajeshwar Patel (Cong.), (*Hajipur*); Chandramani Lal Chaudhry (SC) (Cong.), (*Hajipur* (*R*)); Smt. Lalita Rajya Laxmi (Swatantra), (*Hazaribagh*); Shyam Nandan Mishra (Cong.), (*Jainagar*); Monindra Kumar Ghosh (Cong.), (*Jamshedpur*); B. N. Biswas (Cong.), (*Katihar*); D. N. Tiwary (Cong.), (*Kesaria*); Jiyalal Mandal (Cong.), (*Khagaria*); Mohammad Tahir (Cong.), (*Kishanganj*); Ignace Beck (ST) Jharkhand), (*Lohardaga* (*R*)); Anirudha Sinha (Cong.), (*Madhubani*); Mahendra Nath Singh (Cong.), (*Maharajganj*); Banarsi Prasad Sinha (Cong.), (*Monghyr*); Nayantara Das (SC) (Cong.), (*Monghyr* (*R*)); Asoka Mehta (P.S.P.), (*Muzaffarpur*); Kailash Pati Sinha (Cong.), (*Nalanda*); Smt. Satyabhama Devi (Cong.), (*Nawada*); Ramdhani Das (SC) (Cong.), (*Nawada* (*R*)); Gajendra Prasad Sinha (Cong.), (*Palamau*); Sarangadhara Sinha (Cong.), (*Patna*); Digvijaya Narain Singh (Cong.), (*Pupri*); Phani Gopal Sen (Cong.), (*Purnea*); Paika Murmu (ST), (Cong.), (*Rajamahal* (*R*)); M. R. Masani (Swatantra), (*Ranchi East*); Jaipal Singh (ST) (Jharkhand), (*Ranchi West* (*R*)); Lalit Narayan Mishra (Cong.), (*Saharsa*); Vacant, (*Saharsa* (*R*)); Satya Narain Sinha (Cong.), (*Samastipur*); Ram Subhag Singh (Cong.), (*Sasaram*); Jagjiwan Ram (SC) (Cong.), (*Sasaram* (*R*)); B. R. Bhagat (Cong.), (*Shahabad*); Shambhu Charan Godsora (ST) (Jharkhand), (*Singhbhum* (*R*)); Acharya J. B. Kripalani (Ind.), (*Sitamarhi*); Jhulan Sinha (Cong.), (*Siwan*).

GUJARAT—22

Indulal Kanaiyalal Yagnik (Ind.), (*Ahmedabad*); Karsandas Parmar (SC) (R.P.I.), (*Ahmedabad* (*R*)); Kumari Maniben Vallabhbhai Patel (Cong.), (*Anand*); Akbarbhai Chavda (Cong.), (*Banaskantha*); Fatehsinhrao Pratapsinhrao Gaekwad (Cong.), (*Baroda*); Chandrashanker Manishanker Bhatt (Cong.), (*Broach*); Nanubhai Nichhabhai Patel (ST) (Cong.), (*Bulsar* (*R*)); Jaljibhai Koyabhai Dindod (ST) (Cong.), (*Dohad* (*R*)); Smt. Jayaben Vajubhai Shah (Cong.), (*Girnar*); Balvantray Gopalji Mehta (Cong.), (*Gohilwad*); Jaisukhlal Lalshanker Hathi (Cong.) (*Halar*); Fatehsinhji Ghodasar (Ind.), (*Kaira*); Bhawanji A. Khimji (Cong.), (*Kutch*); Manubhai Shah (Cong.), (*Madhya Saurashtra*); Chhaganlal M. Kedaria (ST) (Cong.), (*Mandvi* (*R*)); Purushottamdas R. Patel (Ind.), (*Mehsana*); Maniklal Maganlal Gandhi (Cong.), (*Panch Mahals*); Motisinh Bahadursinh Thakore (Ind.), (*Patan*); Gulzarilal Nanda (Cong.), (*Sabarkantha*); Narendrabhai Nathwani (Cong.), (*Sorath*); Morarji Desai (Cong.), (*Surat*); Ghanshyamlal Oza (Cong.), (*Zalawad*).

JAMMU AND KASHMIR—6*

Bakshi Abdul Rashid; Inder J. Malhotra; Smt. Krishna Mehta; Maulana Abdur Rahman; Sheikh Mohammad Akbar; A. M. Tariq.

KERALA—18

P. T. Punnoose (C.P.I.), (*Ambalapuzha*); Dr. K. B. Menon (P.S.P.), (*Badagara*); M. K. Kumaran (C.P.I.), (*Chirayinkil*); A. M. Thomas (Cong.), (*Ernakulam*); A. K. Gopalan (C.P.I.), (*Kasargod*); Mathew Maniangadan (Cong.), (*Kottayam*); K. P. Kuttikrishnan Nair (Cong.), (*Kozikode*); B. Pocker (Ind.), (*Manjeri*); George Thomas Kottukapally (Cong.), (*Muvattupuzha*); T. C. N. Menon (C.P.I.), (*Mukundapuram*); P. Kunhan (SC) (C.P.I.), (*Palghat* (*R*)); V. Eacharan (Cong.), (*Palghat*); V. P. Nayar (C.P.I.), (*Quilon*); P. K. Kodiyan (SC) (C.P.I.), (*Quilon* (*R*)); M. K. Jina Chandran (Cong.), (*Tellichery*); P. K. Vasudevan Nair (C.P.I.), (*Thiruvella*); K. K. Warrier (C.P.I.), (*Trichur*); S. Easwara Iyer (Ind.), (*Trivandrum*).

MADHYA PRADESH—36

C. D. Gautam (Cong.), (*Balaghat*); Vidyacharan Shukla (Cong.), (*Baloda Bazar*); Smt. Minimata Agamdas Guru (SC) (Cong.), (*Baloda Bazar* (*R*)); Surti Kistaiya (ST) (Cong.), (*Bastar* (*R*)); Smt. Maimoona Sultan (Cong.), (*Bhopal*); R. L. Jangde (Cong.), (*Bilaspur*); B. L. Chandak (Cong.), (*Chhindwara*); N. M. Wadiwa (ST) (Cong.), (*Chhindwara* (*R*)); Mohanlal Bakliwal (Cong.), (*Durg*); H. H. Maharani Vijaya Raje Scindia of Gwalior (Cong.), (*Guna*); Radha Charan Sharma (Cong.), (*Gwalior*); Surya Prasad (SC) (Cong.), (*Gwalior* (*R*)); R. S. Kiledar (Cong.), (*Hoshangabad*); K. Khadiwala (Cong.), (*Indore*); Seth Govinddas (Cong.), (*Jabalpur*); Amar Singh Saigal (Cong.), (*Janjgir*); Amar Singh Damar (ST) (Cong.), (*Jhabua* (*R*)); R. S. Tiwari (Cong.), (*Khajuraho*); Motilal Malviya (SC) (Cong.), (*Khajuraho* (*R*)); M. G. Uikey (ST) (Cong.), (*Mandla* (*R*)); Manakbhai Agarwal (Cong.), (*Mandsaur*); Ramsingh B. Varma (Cong.), (*Nimar*); Pt. Baboolal Tiwari (Cong.), (*Nimar Khandwa*)); Major Raja Bahadur Birendra Singh (Cong.), (*Raipur*); Smt. Keskar Kumari Devi (ST) (Cong.), (*Raipur* (*R*)); Shiv Datt Upadhyaya (Cong.), (*Rewa*); Pt. Jwala Prasad Jyotishi (Cong.), (*Sagar*); Smt. Sahodra Bai Rai (SC) (Cong.), (*Sagar* (*R*)); Anand Chandra Joshi (Cong.), (*Shahdol*); Kamal Narayan Singh (ST) (Cong.), (*Shahdol* (*R*)); Liladhar Joshi (Cong.), (*Shajapur*); K. B. Malvia (SC) (Cong.), (*Shajapur* (*R*)); Pt. Brajesh Narayan (H.M.), (*Shivpuri*); Chandikeshwar Sharan Singh Ju Deo (Cong.), (*Surguja*); Babunath Singh (ST) (Cong.), (*Surguja* (*R*)); Radhelal Vyas (Cong.), (*Ujjain*).

MADRAS—41

R. Kanakasabai (Cong.), (*Chidambaram*); L. Elayaperumal (SC) (Cong.), (*Chidambaram* (*R*)); Dr. A. Krishnaswamy (Ind.), (*Chingleput*); N. Siva Raj (SC) (R.P.I.), (*Chingleput* (*R*)); Smt. Parvathi M. Krishnan (C.P.I.), (*Coimbatore*); T. D. Muthukumarasami Naidu (Swatantra), (*Cuddalore*); M. Gulam Mohideen (Cong.), (*Dindigul*); S. C. Balakrishnan (SC) (Cong.), (*Dindigul* (*R*); K. S. Ramasami (Cong.), (*Gobichettipalayam*); K. Periaswami Gounder (Cong.), (*Karur*); C. R. Narasimhan (Cong.), (*Krishnagiri*); C. R. Pattabhiraman (Cong.), (*Kumbakonam*); S. C. C. Anthony Pillai (Ind.), (*Madras North*); T. T. Krishnamachari (Cong.), (*Madras South*); K. T. K. Thangamani (C.P.I), (*Madurai*); K. R. Sambandam (Cong.), (*Nagapattinam*); M. Ayyakannu (SC) (Cong.), (*Nagapattinam* (*R*)); P. Thanulingom Nadar (Cong.), (*Nagercoil*); E. V. K. Sampath (Ind.), (*Namakkal*); S. R. Arumugham (SC) (Cong.), (*Namakkal* (*R*)); C. Nanjappan (Cong.), (*Nilgiris*); M. Palaniandy (Cong.), (*Perambalur*); R. Narayanaswamy (Cong.), (*Periyakulam*); P. R. Ramakrishnan (Cong.), (*Pollachi*); R. Ramanathan Chettiar (Cong.), (*Pudukottai*); P. Subbiah Ambalam (Cong.), (*Ramanathapuram*); S. V. Ramaswami (Cong.), (*Salem*); U. Muthuramalinga Thevar (Ind.), (*Srivilliputhur*); R. S. Arumugam (SC) (Cong.), (*Srivilliputhur* (*R*)); A. Vairavan (Cong.), (*Tanjore*); M. Sankarapandian (Cong.), (*Tenkasi*); N. P. Shanmuga Gounder (Ind.), (*Tindivanam*); T. Ganapathy (Cong.), (*Tiruchendur*); Dr. P. Subbarayan (Cong.), (*Tiruchendode*); M. K. M. Abdul Salam (Cong.), (*Tiruchirappalli*); P. T. Thanu Pilai (Cong.), (*Tirunelveli*); A. Duraiswamy Gounder (Cong.), (*Tirupattur*); R. Govindarajulu Naidu (Cong.), (*Tiruvallur*); R. Dharmalingam (Ind.), (*Thiruvannamalai*); N. R. M. Swamy (Cong.), (*Vellore*); M. Muthukrishnan (SC) (Cong.), (*Vellore* (*R*)).

MAHARASHTRA—44

Khadilkar (Ind.), (*Ahmednagar*); Patil Tukaram Shankar (*Akola*); Laxman Shrawanji Bhatkar (SC) (Cong.), (*Akola* (*R*)); Dr. Panjabrao Shamrao Deshmukh (Cong.), (*Amravati*); Swami Ramanand Tirtha (Cong.), (*Aurangabad*); G. K. Jedhe (Cong.), (*Baramati*); R. M. Hajarnavis (Cong.), (*Bhandara*); Balkrishna Wasnik (SC) (Cong.), (*Bhandara* (*R*)); R. D. Patil (Cong.), (*Bhir*); Shripad Amrit Dange (C.P.I.), (*Bombay City Central*); Manay (SC) (R.P.I.), (*Bombay City Central* (*R*)); V. K. Krishna Menon (Cong.), (*Bombay City North*); Patil (Cong.), (*Bombay City South*); Shivram Rango Rane (Cong.), (*Buldana*); V. N. Swami (Cong.), (*Chanda*); Uttamrao Laxman Patil (J.S.), (*Dhulia*); Naushir Bharucha (Ind.), (*East Khandesh*); Ramrao Narayanrao (Ind.), (*Jalna*); Chavan (P.W.P.), (*Jalna*); Dajisaheb Ramrao Chavan (P.W.P.), (*Karad*); Balasaheb D. Salunke (R.P.I.), (*Khed*); Rajaram Balkrishna Raut (P.W.P.), (*Kolaba*); Bhausaheb Raosaheb Mehagaonkar (P.W.P.), (*Kolhapur*); Shankarrao Khanderao Dige (SC) (R.P.I.), (*Kolhapur* (*R*)); B. C. Kamble (R.P.I.), (*Kopergaon*); Yadav Narayan Jadhav (P.S.P.), (*Malegaon*); Balwant *alias* Balasaheb Patil (P.W.P.), (*Miraj*); Dr. M. S. Aney (Cong.), (*Nagpur*); Harihar Rao Sonule (R.P.I.), (*Nanded*); Dr. Deorao Namdevrao Pathrikar Kamble (SC) (Cong.), (*Nanded* (*R*)) Bhaurao Krishnarao Gaikwad (R.P.I.), (*Nasik*); V. S. Haldurgker (Cong.), (*Osmanabad*); N. K. Pangarkar (Cong.), (*Parbhani*); Narayan Ganesh Goray (P.S.P.), (*Poona*); Nath Pai (P.S.P.), (*Rajapur*); K. G. Deshmukh (Cong.), (*Ramtek*); Premji R. Assar (J. S.), (*Ratnagiri*); Nana Patil (C.P.I.), (*Satara*); Jayawant G. More (Ind.) (*Sholapur*); Tayappa Hari Sonavane (SC) (Cong.), (*Sholapur* (*R*)); Shamrao Vishnu Parulekar (C.P.I.), (*Thana*); Laxman Mahadu Matera (ST) (C.P.I.), (*Thana* (*R*)); Kamalnayan Jamnalal Bajaj (Cong.), (*Wardha*); Laxman Vedu Valvi (ST) (P.S.P.), (*West Khandesh* (*R*)); Dr. Deorao Yeshwantrao Gohokar (Cong.), (*Yeotmal*).

MYSORE—26

H. C. Dasappa (Cong.), (*Bangalore*); N. Keshava (Cong.), (*Bangalore City*); B. N. Datar (Cong.), (*Belgaum*); T. Subramanyam (Cong.), (*Bellary*); M. S. Sugandhi (Swatantra), (*Bijapur North*); Ramappa Balappa Bidari (Cong.), (*Bijapur South*); Datta Appa Katti (R.P.I.), (*Chikodi*); J. M. Mohamed Imam (Swatantra), (*Chitaldurga*); D. P. Karmarkar (Cong.), (*Dharwar North*); Thimmappa Rudrappa Neswi (Cong.), (*Dharwar South*); Mahadevappa Rampure (Cong.), (*Gulbarga*); Shankar Deo (SC) (Cong.), (*Gulbarga* (*R*)); H. Siddananjappa (Cong.), (*Hassan*); Joachim Alva (Cong.), (*Kanara*); K. C. Reddy (Cong.), (*Kolar*); Dodda Thimmaiah (SC) (Cong.), (*Kolar* (*R*)); S. A. Agadi† (Cong.), (*Koppal*); M. K. Shivananjappa (Cong.), (*Mandya*); K. R. Achar (Cong.), (*Mangalore*); M. Shankaraiya (Cong.),

* Nominated by the President. *Note.*—R. P. I. = Republican Party of India. † Election held void.

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(*Mysore*); S. M. Siddiah (SC) (Cong.), (*Mysore (R)*); G. S. Melkote (Cong.), (*Raichur*); K. G. Wodeyar (Cong.), (*Shimoga*); C. R. Basappa (Cong.), (*Tiptur*); M. V. Krishnappa (Cong.), (*Tumkur*); U. Srinivasa Malliah (Cong.), (*Udipi*).

ORISSA—20

B. P. G. Deb Barma (G.P.), (*Angul*); Bhagabat Sahu (Cong.), (*Balasore*); Kanhu Charan Jena (SC) (Cong.), (*Balasore (R)*); N. C. Samantsinhar (Cong.), (*Bhubaneshwar*); Nityanand Kanungo (Cong.), (*Cuttack*); Surendra Mahanty (G.P.), (*Dhenkanal*); Ananta Tripathi Sharma (Cong.), (*Ganjam*); Mohan Nayak (SC) (Cong.), (*Ganjam (R)*); H. H. Maharaja Pratap Keshari Deo (G.P.), (*Kalahandi*); Bijaya Chandrasingh Prodhan (ST) (G.P.), (*Kalahandi (R)*); Surendranath Dwivedy (P.S.P.), (*Kendrapara*); Basihnab Charan Mullick (SC) (P.S.P.), (*Kendrapara (R)*); Laxminarayan Bhanja Deo (Ind.), (*Keonjhar*); Jagannatha Rao (Cong.), (*Koraput*); Vacant (*Koraput (R)*); Ram Chandra Majhi (ST) (Ind.), (*Mayurbhanj (R)*); Chintamani Panigrahi (C.P.I.), (*Puri*); Sradhakar Supakar (G.P.), (*Sambalpur*); Banamali Kumbhar (SC) (G.P.), (*Sambalpur (R)*); Kalo Chandramani (ST) (G.P.), (*Sundergarh (R)*).

PUNJAB—22

Smt. Subhadra Joshi (Cong.), (*Ambala*); Chuni Lal (SC) (Cong.), (*Ambala (R)*); Sardar Gurmukh Singh Musafir (Cong.), (*Amritsar*); Sardar Hukam Singh (Cong.), (*Bhatinda*); Sardar Ajit Singh (SC) (Cong.), (*Bhatinda (R)*); Sardar Iqbal Singh (Cong.), (*Ferozepur*); Prof. Diwan Chand Sharma (Cong.), (*Gurdaspur*); Prakash Vir Shastri (Swatantra), (*Gurgaon*); Pt. T. D. Bhargava (Cong.), (*Hissar*); Vacant (*Hoshiarpur*); Chaudhary P. S. Daulta (Cong.) (*Jhajjar*); Sardar Swaran Singh (Cong.), (*Jullundur*); Sadhu Ram (SC) (Cong.), (*Jullundur (R)*); Mool Chand Jain (Cong.), (*Kaithal*); Hem Raj (Cong.) (*Kangra*); Daljit Singh (SC) (*Kangra (R)*); Ajit Singh Sarhadi (Cong.), (*Ludhiana*); Bahadur Singh (SC) (Cong.), (*Ludhiana (R)*); R. K. Gupta (Cong.), (*Mohindergarh*); Lala Achint Ram (Cong.), (*Patiala*); Ranbir Singh Chaudhuri (Cong.), (*Rohtak*); Sardar Surjit Singh Majithia (Cong.), (*Tarn-Taran*).

RAJASTHAN—22

Mukat Behari Lal Bhargava (Cong.), (*Ajmer*); Shobha Ram (Cong.), (*Alwar*); P. B. Bhogji Bhai (ST) (Cong.), (*Banswara (R)*); H. H. Maharajadhiraj Mahorawalji Shri Raghunath Singhji Bahadur (Ind.), (*Barmer*); Raj Bahadur (Cong.), (*Bharatpur*); Ramesh Chandra Vyas (Cong.), (*Bhilwara*); H. H. Maharaji Shri Karni Singh of Bikaner (Ind.), (*Bikaner*); Panna Lal Barupal (SC) (Cong.), (*Bikaner (R)*); G. D. Somani (Cong.), (*Dausa*); H. C. Sharma (Ind.), (*Jaipur*); Suraj Ratan Damani (Cong.), (*Jalore*); Radheshyam R. Morarka (Cong.), (*Jhunjhunu*); Jaswant Raj Mehta (Cong.), (*Jodhpur*); Nemi Chandra Kasliwal (Cong.), (*Kotah*); Onkarlal (SC) (Cong.), (*Kotah (R)*); Narendra Kumar (Cong.), (*Nagaur*); H. C. Mathur (Cong.), (*Pali*); Pt. Hiralal Shastri (Cong.), (*Sawai Madhopur*); J. N. P. Pahadia (SC) (Cong.), (*Sawai Madhopur (R)*); Rameshwar Tantia (Cong.), (*Sikar*); Manikya Lal Varma (Cong.), (*Udaipur*); Deen Bandhu Parmar (ST) (Cong.), (*Udaipur (R)*).

UTTAR PRADESH—86

Seth Achal Singh (Cong.), (*Agra*); Lal Bahadur Shastri (Cong.), (*Allahabad*); Jamal Khwaja (Cong.), (*Aligarh*); Nardeo Snatak (SC) (Cong.), (*Aligarh (R)*); J. B. S. Bist (Cong.), (*Almora*); Hifzur Rahman (Cong.), (*Amroha*); Kalika Singh (Cong.), (*Azamgarh*); Vishwanath Prasad (SC) (Cong.), (*Azamgarh (R)*); Sardar Jogendra Singh (Cong.), (*Bahraich*); Attal Behari Vajpayee (J.S.), (*Balrampur*); Dinesh Singh (Cong.), (*Banda*); Ram Sewak Yadav (Ind.), (*Bara Banki*); Swami Ramanand Shastri (SC)(Cong.), (*Bara Banki (R)*); Radha Mohan Singh (Cong.), (*Balia*); Satish Chandra (Cong.), (*Bareilly*); Keshava Deva Malaviya (Cong.), (*Basti*); Ram Garib (SC) (Swatantra), (*Basti (R)*); Jagdish Awasthi (Ind.) (*Bilhaur*); Abdul Lateef (Cong.), (*Bijnor*); Chaudhary Badan Singh (*Cong.*), (*Bisauli*); Raghubir Sahai (Cong.), (*Budaun*); Raghubar Dayal Mishra (Cong.), (*Bulandshahr*); Kanhaiya Lal Balmiki (SC) (Cong.), (*Bulandshahr (R)*); P. N. Singh (Soc.), (*Chandauli*); Mahavir Tyagi (Cong.), (*Dehra Dun*); Ramji Verma (P.S.P.), (*Deoria*); Ram Shankar Lal (Cong.), (*Domariaganj*); Rohan Lal Chaturvedi (Cong.), (*Etah*); Arjun Singh Bhadauria (Ind.), (*Etawah*); Tula Ram (SC) (Cong.), (*Etawah (R)*); R. R. Misra (Cong.), (*Faizabad*); Panna Lal (SC) (Cong.), (*Faizabad (R)*); Moolchand Dube (Cong.), (*Farrukhabad*); Ansar Harvani (Cong.), (*Fatehpur*); Braj Raj Singh (Ind.), (*Firozabad*); Bhakta Darshan (Cong.), (*Garhwal*); Har Prasad Singh (Cong.), (*Ghazipur*); Umrao Singh (Cong.), (*Ghosi*); Dinesh Pratap Singh (Cong.), (*Gonda*); Sinhasan Singh (Cong.), (*Gorakhpur*); Mahadeo Prasad (SC) (Cong.), (*Gorakhpur (R)*); M. L. Dwivedi (Cong.), (*Hamirpur*); Lachchhi Ram (SC) (Cong.), (*Hamirpur (R)*); Pt. K. C. Sharma (Cong.), (*Hapur*); Chheda Lal Gupta (Cong.), (*Hardoi*); Shivadin Drohar (SC) (J.S.), (*Hardoi (R)*); Kashinath Pandey (Cong.), (*Hata*); Krishna Chandra (Cong.), (*Jalesar*); Birbal Singh (Cong.), (*Jaunpur*); Ganapati Ram (SC) (Cong.), (*Jaunpur (R)*); Dr. Sushila Nayar (Cong.), (*Jhansi*); S. M. Banerjee (Ind.), (*Kanpur*); B. D. Misra (Cong.), (*Kaisarganj*); Khushwaqt Rai (P.S.P.), (*Kheri*); Pulin Behari Banerjee (Cong.), (*Lucknow*); Prof. Shibban Lal Saxena (Ind.), (*Maharajganj*); Banshi Das Dhanagar (P.S.P.), (*Mainpuri*); Raja Mahendra Pratap (Ind.), (*Mathura*); Shah Nawaz Khan (Cong.), (*Meerut*); J. N. Wilson (Cong.), (*Mirzapuri*); Rup Narain (SC) (Cong.), (*Mirzapur (R)*); Ram Saran (Cong.), (*Moradabad*); Dr. B. V. Keskar (Cong.), (*Musafirkhana*); Sumat Prasad (Cong.), (*Muzaffarnagar*); C. D. Pande (Cong.), (*Naini Tal*); Jawaharlal Nehru (Cong.), (*Phulpur*); Masuriya Din (SC) (Cong.), (*Phulpur (R)*); Mohan Swarup (P.S.P.), (*Pilibhit*); Pt. Munishwar Dutt Upadhyay (Cong.), (*Pratapgarh*); Vacant (*Rae Bareli*); Baijnath Kureel (SC) (Cong.), (*Rae Bareli (R)*); S. Ahmad Mehdi (Cong.), (*Rampur*); (Sarjoo Pandey (C.P.I.), (*Rasra*); Vacant, (*Saharanpur*); Sunder Lal (SC) (Cong.), (*Saharanpur (R)*); Bishwanath Roy (Cong.), (*Salempur*); Vishnu Sharan Dublish (Cong.), (*Sardhana*); Bishan Chandar Seth (Ind.), (*Shahjahanpur*); Narain Din (SC) (Cong.), (*Shahjahanpur (R)*); Smt. Uma Nehru (Cong.), (*Sitapur*); Bhawani Prasad (SC) (Cong.), (*Sitapur (R)*); Ganpat Sahai (Ind.), (*Sultanpur*); Lt. Col. H. H. Maharaja Manabendra Shah (Cong.), (*Tehri Garhwal*); Liladhar Asthana (Cong.), (*Unnao*); Smt. Ganga Devi (SC) (Cong.), (*Unnao (R)*); Raghunath Singh (Cong.), (*Varanasi*).

WEST BENGAL—36

Atulya Ghosh (Cong.), (*Asansol*); Dr. M. M. Das (SC) (Cong.), (*Asansol (R)*): Dr. R. G. Banerji (Cong.), (*Bankura*); Dr. Pashupati Mandal (SC) (Cong.), (*Bankura (R)*); Arun Chandra Guha (Cong.), (*Barasat*); Vacant, (*Barrackpore*); Sreemathi Renu Chakravarty (C.P.I.), (*Basirhat*): Paresh Nath Kayal (SC) (Cong.). (*Basirhat (R)*); Tridib K. Chaudhuri (Ind.), (*Berhampore*); Anil K. Chanda (Cong.), (*Birbhum*); Kamal Krishna Das (SC) (Cong.), (*Birbhum (R)*); Subiman Ghose (F.B. (M)), (*Burdwan*); Hirendra Nath Mukherjee (C.P.I.), (*Calcutta Central*); Sadhan Chandra Gupta (C.P.I.), (*Calcutta East*); Asoke Kumar Sen (Cong.), (*Calcutta North-West*); Indrajit Gupta (C.P.I.), (*Calcutta South-West*); P. Banerjee (P.S.P.), (*Contai*); Nalini Ranjan Ghosh (Cong.), (*Cooch Behar*); Upendranath Barman (SC) (Cong.), (*Cooch Behar (R)*); T. Manaen (Cong.), (*Darjeeling*); Purnendu Sekhar Naskar (SC) (Cong.), (*Diamond Harbour*); Kansari Halder (SC) (C.P.I.), (*Diamond Harbour (R)*); Nikunja Behari Maiti (Cong.), (*Ghatal*); Muhammed Elias (C.P.I.), (*Howrah*); Prabhat Kar (C.P.I.) (*Hooghly*); Smt. Renuka Ray (Cong.), (*Malda*); Narasingha Malla Deb (Cong.), (*Midnapur*); Subodh Hansda (ST) (Cong.), (*Midnapur (R)*); Muhammed Khuda Bukhsh (Cong.), (*Murshidabad*); Smt. Ila Pal Choodhury (Cong.), (*Nabadwip*); Bibhuti Bhusan Dasgupta (Ind.), (*Purulia*); Jitendra Nath Lahiri (Cong.), (*Serampore*); Satish Chandra Samanta (Cong.), (*Tamluk*); Aurobindo Ghosal (F.B. (M)), (*Uluberia*); Chapalakanta Bhattacharyya (Cong.), (*West Dinajpur*); Mardi Selku (ST) (Cong.), (*West Dinajpur (R)*).

ANDAMANS

Lachman Singh (Nominated).

DELHI—5

Radha Raman (Cong.), (*Chandni Chowk*); Choudhury Brahm Perkash (Cong.), (*Delhi Sadar*); C. Krishnan Nair (Cong.), (*Outer Delhi*); Balraj Madhok (J.S.), (*New Delhi*); Naval Prabhakar (SC) (Cong.), (*Outer Delhi (R)*).

HIMACHAL PRADESH—4

Padam Dev (Cong.), (*Chamba*); S. N. Ramaul (Cong.), (*Mahasu*); N. R. Negi (Cong.), (*Mahasu (R)*); Joginder Sen-Mandi (Cong.), (*Mandi*).

LACCADIVES

Koyilat Nallakoya (Nominated).

MANIPUR—2

Laisram Achaw Singh (Ind.), (*Inner Manipur*); Rungsung Suisa (ST) (Cong.), (*Outer Manipur (R)*).

NORTH EAST FRONTIER TRACT 1.

NAGALAND 1.

TRIPURA—2

Dasaratha Deb (C.P.I.), (*Tripura*); Bangshi Thakur (ST) (Cong.), (*Tripura (R)*).

ANGLO-INDIANS—2*

Frank Anthony; A. E. T. Barrow.

ESTIMATES COMMITTEE (1961-62)

H. C. Dasappa (*Chairman*), Pramathanath Banerjee, Chandra Shankar, V. Eacharan, Ansar Harvani, H. C. Heda, M. R. Krishna, Rani Manjula Devi, Bibhuti Mishra, J. G. More, G. S. Musafir, Padam Dev, Jagan Nath Prasad Pahadia, Chintamani Panigrahi, Panna Lal, Karsandas Parmar, P. T. Thanu Pillai, P. T. Punnoose, Rajendar Singh, K. S. Ramaswamy, Satis Chandra Samanta, Vidya Charan Shukla, Kailash Pati Sinha, M. S. Sugandhi, Motisinh Bahadursinh Thakore, Mahavir Tyagi, Pandit Munishwar Dutt Upadhyay, Ramsingh Bhai Varma, Balkrishna Wasnik, K. G. Wodeyar.

PUBLIC ACCOUNTS COMMITTEE (1961-62)

C. R. Pattabhi Raman (*Chairman*), Rohan Lal Chaturvedi, Aurobindo Ghosal, Hem Raj, R. S. Kiledar, G. K Manay, Dr. Pashupati Mandal, S. A. Matin, Dr. G. S. Melkote, Purushottamdas R. Patel, Dr. N. C. Samantsinhar, Pandit Dwarka Nath Tiwary, Kumari Mothey Vedakumari, Ramji Verma, K. K. Warrier, Dr. Smt. Seeta Parmanand, Lalji Pendse, V. C. Kesava Rao, Mulka Govinda Reddy, Smt. Savitry Devi Nigam, Rajeshwar Prasad Narain Sinha, Jai Narain Vyas.

* Nominated by the President.

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AKHIL BHARAT HINDU MAHASABHA†*

(Hindu Mahasabha Bhawan, Reading Road, New Delhi.)

President: V. G. Deshpande.
Working President: Mahant Digvijaynath.
Vice-Presidents: Prof. Ram Singh (Delhi), Nityanarayan Banerjee (Calcutta), M. K. Devraj (Mangalore), Pandit Brajnarayan Brajesh, M.P. (Gwalior).
General Secretary: Bishan Chanar Seth, M.P.
Organizing Secretary: Niranjan Verma.
Office Secretary: H. B. Bhide, M.L.C.
Total membership of Party: 4,50,000.
Strength in the Lok Sabha: 3.

AIMS AND OBJECTS

The aim of the Hindu Mahasabha is the protection and promotion of all that contributes to the advancement, strength and glory of Hindu Rashtra, Hindu culture and Hindu polity, and as a means to that end, to achieve Hindu Raj and re-establish the integrity of the State of Bharat by constitutional means.

Besides the establishment of 'Akhanda Hindustan' the aims and objects of the Hindu Mahasabha are defined as follows:

The creation of a new social order in which all nationals will enjoy equal rights and opportunities and share equal responsibilities;

The assurance to each national of the dignity of human values and full freedom of thought, expression, association and worship;

Adoption of (Sanskrit-Nishta) Hindi as the national language and Devanagri as the national script of India;

Removal of all forms of social inequalities and disabilities;

Reclamation of all those who have left the Hindu fold and welcoming of others into the community;

Ending of gross inequalities in the distribution of wealth, assurance of a decent standard of living to each national, and securing for workers and peasants their rightful share in the economy of the country;

Promotion of cow protection and abolition of cow slaughter;

The present Constitution of India is borrowed from the Constitutions of America, England, France and other Western countries and is not suited to the genius of the people. The Hindu Mahasabha would undertake the task of amending the Constitution so that it may be in consonance with the tradition and culture of the land and make Bharat a truly democratic Hindu State.

The Hindu Mahasabha wants to discourage all separatist tendencies and hence would amend the Constitution so that Bharat may be a well-knit homogeneous State with a strong centre and not a loose combination of autonomous States. Bharat itself would be a State and the units would be provinces and not States.

The Hindu Mahasabha will make military education compulsory for all young men between the ages of 18 and 25, who are physically fit and special attention will be paid to industries connected with war machines and materials of all types.

The Hindu Mahasabha will relax the rigours of the Arms Act and issue licences liberally to the inhabitants in border areas.

All key industries such as electricity, railway, coal and steel mines and industries dealing with war materials and weapons will be owned and controlled by the State. The remaining industries will remain open for private enterprise. In running these industries the Mahasabha assures all investors full facilities to start new industries with State aid and partial exemption from taxation in the initial stages.

The Hindu Mahasabha is convinced that controls, without guaranteeing adequate supply of controlled commodities to the public, are only a nuisance and also often actually lead to blackmarketing and corruption.

The Hindu Mahasabha will give priority to rehabilitation of refugees and would even levy a special tax, if necessary, for the purpose. The Hindu Mahasabha guarantees compensation to all evacuees who have lost their property in Pakistan and will settle the problem of evacuees' properties at Government level speedily. The Hindu Mahasabha also declares that the refugees will become full-fledged citizens of Bharat. The Hindu Mahasabha will take effective steps to recover abducted women from Pakistan.

The Party lays special stress on the reconversion of those who had left Hinduism. It believes that the activities of non-Indian missionaries are harmful to the country. The Party, therefore, demands a ban on foreign missions and the nationalization of Christian churches.

ALL INDIA FORWARD BLOC

(Central Office, Chhindwara, Madhya Pradesh.)

Chairman: Hemanta Kumar Basu, M.L.A.
General Secretary: R. K. Haldulkar.

The following is a gist of the 1962 Election Manifesto of the Party which was to be discussed and accepted at the All India Plenary Session of the Party to be held from 18th to 20th August 1961.

The A.I.F.B. has decided to take part in the forthcoming General Elections with full strength and vigour. The Party will contest the elections in the States of West Bengal, Madhya Pradesh, Maharashtra, Gujarat, Madras, Bihar, U.P., Kerala and Delhi. The Party is contemplating to form a broad based United Front of all the genuine leftist parties including the C.P.I. and P.S.P. The Party leaders have already initiated talks in this direction with the leaders of the R.S.P., the Peasants and Workers Party of Maharashtra, the R.C.P.I., the Mahagujarat Janata Parishad led by Shri Indulal Yagnik, M.P. and the Bolshevik Party of India.

As far as its Election Manifesto is concerned it wants nationalisation of all key industries in the country, equitable redistribution of land with special provision to allot land to the landless peasants, fair wage to the workers, right to strike and full trade union rights to the workers, appointment of a Commission to go into the economic condition of kisans and suggest means of greater production of foodgrains to meet the deficit, Police action in Goa and action to vacate aggression of China on the northern frontiers of the country, free education to the students upto the degree level and uptodate training of our defence forces to meet any aggression from outside.

ALL JAMMU & KASHMIR NATIONAL CONFERENCE

(Srinagar.)

BHARATIYA JAN SANGH

(Ajmere Gate, Delhi.)

President, A. Rama Rao.
Vice-Presidents, Acharya D. P. Ghosh; Pitamber Dass.
General Secretary, Deendayal Upadhyaya.
Secretaries, Atalbehari Vajpayee, M.P.; Jagannathrao Joshi; Sunder Singh Bhandari.
Treasurer, Capt. Keshab Chandra.
Office Secretary, J. P. Mathur.
Total membership of party in country, 606,000.
Strength in the Lok Sabha: 4.
Strength in Rajya Sabha: 1.
Total strength in State Legislatures: 73.
No. of votes polled in elections to Lok Sabha: Over 72 lakhs.

Has branches in all the States. The Praja Parishad of Kashmir is affiliated to it.

AIMS AND OBJECTS

The party has put forward the following programme:

Opposition to copying U.S.A. or U.S.S.R. systems.

Promotion of private enterprise with adequate checks against concentration of power.

Top priority to food, defence, unemployment.

Right to work should be a fundamental right. Unemployment benefits.

Is opposed to the mechanization of agriculture.

Economic power should be decentralized.

Spheres of small-scale and large-scale industry should be clearly demarcated. Will promote small-scale industry by reserving markets, encouraging co-operative industries, giving protection to handloom industry.

Nationalisation of basic industries and defence industries. Other industries subject to supervision and regulation. Is opposed to nationalisation of banking and road transport. The present trend in the nationalisation of industry will destroy democracy.

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† The articles in this section are based on the material provided by the parties themselves.

* The Party's 1962 Election Manifesto was not available at the time of going to press.

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Indianization of foreign-owned industries (*e.g.* tea, coffee and rubber plantations). In others, two-thirds of investment and staff should be Indian. A ceiling on the profit which can be remitted abroad.

Co-sharing and Co-partnership in industry. Adequate representation of labour on boards of management. Encouragement of labour unions and automatic recognition. A permanent Wage Board. Periodic revision of scales of pay. Rs. 100 as the minimum wage at present. Social security legislation. Special allowance for hazardous jobs. Abolition of the employees' contribution to the Employees' State Insurance scheme. Equal pay for equal work.

Rs. 2,000 as maximum expendable income for individual—to be brought about through taxation and compulsory loans and investment.

Generally opposed to indirect taxation. Abolition of Sales Tax and excise duty on the necessities of life such as cloth.

Compulsory military training. Establishment of defence industries. Abolition of untouchability and fighting caste feeling to bring about unity in Hindu society.

Stands for unitary rather than federal conceptions.

Will abolish Legislative Councils and repeal the Preventive Detention Act and the Public Safety Acts and amend Sections 107, 108, 109 and 144 of the Criminal Procedure Code and Sections 124A and 153 of the I.P.C. to protect civil liberty.

Rs. 500 a month as a Minister's salary.

Strict reciprocity towards Pakistan.

Will press for full compensation for property left by refugees in Pakistan, and no concession in the matter of loans or canal dues.

Kashmir an integral part of India.

No plebiscite in Kashmir; and no special position to Kashmir in the Indian Union : same status as other States.

Non-involvement in foreign affairs. Friendly relations with all. Opposition to colonialism and Communist expansion.

Co-operation with U.N.O. Amendment of the Charter to make U.N.O. truly representative of the people. Permanent seat for India in the Security Council. Full support for people in revolt against Western Colonialism or Russian imperialism.

All steps including police action to liberate Goa.

Is opposed to the extension in the fifteen-year limit laid down for the replacement of English by Hindi. Will have a five-year plan for the development of Hindi and other Bharatiya languages. Stands for the inclusion of Sindhi in the list of Bharatiya languages.

Stands for giving Hindi its rightful place in the State of Jammu and Kashmir.

Stands for (1) primary education through the mother tongue, (2) secondary and higher education through the regional language and Hindi as compulsory subject, (3) making learning of one regional language compulsory for Hindi-speaking students, (4) compulsory course of Sanskrit studies, (5) recognition of graduates of Hindi and of other recognised Indian languages as on par with English, (6) autonomy of educational institutions and universities.

Free and compulsory education at the primary and secondary stages. Free education to poor but deserving students at the higher stages.

Co-operative Farming :—The party is opposed to co-operative farming.

The Jan Sangh stands for peasant proprietorship and supports service co-operatives which should not be manned by officials or party cadres.

It suggests the following procedure : Immediate ceiling on future acquisition ; Tenants are to be given fixity of tenure and fair rents are to be fixed ; A scheme is to be put in operation to assist landless peasants to buy the additional lands required for an economic holding and to acquire full rights over the land ; Fair wages are to be fixed for agricultural labourers ; Ceiling at thirty acres or equivalent thereof, yielding a minimum of Rs. 6,000 should be fixed. Owners of land are to be allowed a period of three years to sell their surplus land to peasants. The price is to be paid in instalments. There should be a comprehensive scheme for the consolidation of landholdings and the development of agriculture.

State Trading in Food Grain :—This will inevitably lead to compulsory procurement and rationing which is undesirable.

Third Plan :—The party feels the need for a basic change in outlook. Planning should be viewed against the background of the country's cultural, social and political objectives. The party feels that a Socialist economy, invariably leads to concentration of power in the State and is not compatible with democratic ideals. The aim of planning should be mainly to create conditions for people to have more and more initiative and facilities for engaging themselves in gainful economic activities. The party proposes the Plan should aim at providing full employment. Top priority should be given to agricultural production. Stress should be laid on mechanised small-scale industries. The public sector should pay more attention to consolidation than expansion. Emphasis should be shifted from big projects to small schemes. Greater attention should be given to the education and training of personnel required for a growing economy.

As for foreign economic aid this can be accepted if there are no political conditions. But in the main we should use our own resources.

The outlay on the Third Plan is too ambitious and the burden of taxes would be crushing. Agriculture must have priority. So must small-scale industry.

Punjabi Suba :—The Jan Sangh is opposed to the demand of Punjabi Suba as voiced by the Akali Dal.

China :—China should be unequivocally declared an aggressor and dealt with accordingly.

India should withdraw her support of the Chinese case in the U.N.O.

The treaty of 1954 recognizing Chinese suzerainty over Tibet, having been violated by China should be abrogated.

No talks should be held with China on any level till her aggression is vacated.

Effective steps should be taken to curb Chinese espionage and fifth column activities in the country.

The Communist Party should be banned.

Effort must be made to develop communications on the border.

Pakistan :—

About joint defence, the party suggests that it has little meaning so long as Pakistan does not change its anti-Indian policy and remains in forcible occupation of one-third of Kashmir. The time is not ripe for joint defence.

Foreign Policy :—The Jan Sangh believes that the enlightened self-interests of India demand a policy of non-alignment in her foreign relations. It should however, be considered a policy and not a dogma. The Chinese aggression in Ladakh and NEFA does not demand any change in this policy. Non-alignment, however, should not prevent us from increasing our military strength by securing the latest weapons from any possible source.

Communalism :—Believes that there is no place for communalism, casteism and religionism in a democratic country. To meet this evil it thinks necessary that the conception of 'majority' and 'minority' based on religion should be given no quarter, no distinction in matters of services, trade and education etc. on basis of differences in the ways of worship be made.

1962 ELECTION MANIFESTO

In September 1961 the Jan Sangh came out officially before the country with its election manifesto for the 1962 General Elections.

The party's appeal to the electorate is based on four main planks : the liberation of every inch of Indian territory now under the occupation of China and Pakistan, ensuring efficiency and purity of administration, stabilisation of prices and eradication of unemployment and provision of free education upto the secondary stage. More than 250 candidates would contest the Lok Sabha seats.

The manifesto adopted by the Central Working Committee of the Party will be placed before the party's National Council or Pratinidhi Sabha at Varanasi on November 16 for final approval.

COMMUNIST PARTY OF INDIA*

(7/4, Asaf Ali Road, New Delhi.)

Members of the Secretariat are :

Ajoy Ghosh (General Secretary), S. A. Dange, Z. A. Ahmad, M. N. Govindan Nair and Bhupesh Gupta.

Members of the Central Control Commission :

S. V. Ghate (*Chairman*), U. Ramam, Hajrah Begum, Abdul Halim and P. Narayanan Nair.

Membership of the Party : 200,000.

Members in the Lok Sabha : 31 (including one independent).

Members in the Rajya Sabha : 12.

Total number of Seats in the State Assemblies : about 200.

Number of votes secured in the general elections of 1957 : Lok Sabha 12,746,056 (including the votes secured by Independents supported by the Party). Assemblies 10,433,032 (including the votes for party-supported Independents).

The Party emerged as the strongest after the Congress both in terms of seats won and the votes polled.

The number of seats that the Party and its allies hold in the various State Assemblies is as follows: Andhra 39 ; Assam 5 ; Bihar 7 ; Kerala 29 ; Madhya Pradesh 3 ; Madras 4 ; Mysore 2 ; Orissa 4 ; Punjab 6 ; Rajasthan 2 ; U.P. 8 ; West Bengal 49 ; Tripura 15 ; Manipur 4 ; Gujarat 2 ; Maharashtra 18.

The Policy :

INDUSTRY

(1) Priority to development of heavy and basic industries, which includes iron and steel, machine-making, including fabrication of steel plants, heavy chemicals, oil, coal, minerals and power, which should be in the State sector.

(2) Protection to national industries against foreign competition.

(3) Location of industries should be so arranged that while taking into account natural advantages, balanced development of various regions is provided for. In backward States where private capital cannot be mobilised even for large-scale light industries, these should be undertaken by the State.

* The Party's 1962 Election Manifesto was not available at the time of going to press.

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(4) Development of armaments, aircraft and ship-building industries by the State with a view to strengthening national independence.

(5) Pending the development of heavy and basic industries, increased consumer demands should be met, as far as possible, by maximum utilisation of existing capacities in organised industries and by encouragement of small-scale and village industries.

RESOURCES

(6) In order to augment the resources for national reconstruction, certain industries and undertakings should be nationalised. To begin with, banking, general insurance, coal-mining as a whole, aluminium industry, manganese, copper, iron and gold-mining as well as British-controlled jute mills and plantations, should be immediately nationalised.

(7) Impose a ceiling on export of profits, and take over profits in excess of the ceiling as compulsory loan.

(8) Impose a ceiling on profits of all big industries and commercial undertakings, and take over profits in excess as compulsory loan.

(9) These, together with the reserves of large companies to form a National Development Pool, to be invested in the State and private sectors in accordance with national needs.

(10) State monopoly of foreign trade in the principal commodities. This would give the State the profits from such trade. It also enables it to diversify our foreign trade and develop it on the basis of mutual advantage.

Further promotion of State trading in the internal market.

(11) Heavier taxation on corporation profits, tax on personal wealth and tax on capital gains. Steeply graded income-tax, and fixation of ceilings on personal and family incomes.

(12) Postponement of payment of compensation to big landlords.

(13) Cancellation of Privy Purse to Princes.

(14) Requisition of the hoarded wealth of the Princes as compulsory loans.

(15) Reduction of the salaries and allowances of highly-paid officials.

PEASANTS

(16) Immediate carrying out of urgent agrarian reforms and substantial reduction of the burden of the rents and usurious interests.

(17) Immediate fixation of ceiling on land-holdings and distribution, without any payment, of the land in excess to the agricultural labour and peasants.

(18) Setting up agricultural labour and peasant committees to implement land reforms.

(19) Planned free distribution of all Government cultivable waste-land to poor peasants and agricultural labourers within a period of three years and State aid for bringing these under cultivation.

(20) Substantial scaling down of debts owed by peasants to landlords and money-lenders by cancellation of unconscionable debts. Arrangements for the liquidation of remaining debts in easy instalments spread over a number of years. Setting up of Debt Conciliation Boards for this purpose.

(21) Wide extension of co-operatives for rural credit, marketing of produce as well as for supply of agricultural machinery and implements, fertilisers, etc. The existing co-operative law to be drastically amended in a democratic direction, by drastically curtailing the powers of the bureaucratic officials of the co-operative department.

(22) Fixation of minimum wage for agricultural labour, and its enforcement by encouraging the organisations of agricultural labourers.

Cancellation of debts owed by agricultural labourers to landlords and moneylenders.

(23) Guaranteeing of a fair price to the peasants for their produce.

WORKING CLASS

(24) The present policy of wage-freeze should be given up. A national minimum wage should be fixed, and workers should be assisted in securing fair wages which should be above the minimum.

(25) Pending such fixation, an immediate increase by 25 per cent to all workers' wages in view of the increased productivity of labour. The dearness allowance should be amalgamated with basic wages.

(26) Social insurance schemes to be rapidly extended to cover all industries and types of benefits and not merely confined to health. The benefit of the present health insurance scheme should be extended to the workers' family members.

(27) Provision for unemployment benefits and bonus.

DEMOCRACY

It is necessary to :

(28) Abolish Upper Houses in the Legislatures; introduce proportional representation in all elections, right of recall, secret ballot even for Panchayat elections; and officials at various levels to be under the control of elected local bodies.

Union territories, as long as they continue, must have a democratic set-up and not be administered by Commissioners with nominated Advisory Councils.

(29) Drastically revise the Police Code, curtailing the powers of the police to arrest, shoot, lathi-charge and ban meetings and processions.

(30) Repeal of legislation which encourages regimentation; active encouragement to trade unions to unite and form one trade union in each industry or undertaking on the basis of internal trade union democracy.

(31) Give workers and employees an effective voice in the management and direction of industrial enterprises. Committees of elected representatives of workers and employees should be recognised on an equal footing with the administration.

(32) Entrust trade unions with the management and administration of Employees' State Insurance and other social amenity schemes.

(33) Associate, with an effective voice, in rural areas the kisan sabhas and organisations of agricultural labour, in the implementation of agrarian reforms, in the execution of local development schemes.

Punjabi State:—The Central Executive Committee of the Party in its meeting held in Delhi in the middle of August 1960 adopted a resolution on the question of linguistic reorganisation of the State of Punjab which in part reads as follows :

"The Central Executive Committee is of opinion that, when linguistic States have been formed throughout the country, there is no ground whatever for refusing to reorganise Punjab alone on the basis of language. It is convinced that every day of delay in such reorganisation will only add strength to the forces of communalism and disruption.

"The Central Executive Committee, therefore demands that the Central Government should immediately so reorganise the present Punjab State that contiguous Punjabi areas, including the district of Kangra, are formed into a separate Punjabi State . . ."

As regards the stand of the Akalis, the resolution said that "Though the Akali leaders proclaim as their aim the democratic objective of a linguistic State, yet their actions expose the communal character of their agitation. The use of Gurdwaras in furtherance of this movement, the communal appeal of Sikhs, the exclusion of the Punjabi-speaking district of Kangra from their Punjabi Suba with the sole purpose of reducing the proportion of the State's Hindu population reveal the communal character of the Akali movement."

It further stated that "the activities of the Akali Party, the Hindu communalists and the policies followed by the Government have divided the people along communal lines" and appealed to the people of the Punjab to rally behind the democratic demand for the linguistic reorganisation of Punjab, isolating the forces that keep the people divided.

India-China Border:—The attitude of the party is that given the approach of goodwill and friendly discussion a peaceful solution can be found. Although the Prime Ministers of India and China were unable to agree at their April meeting the decision to continue discussion at the official level and to maintain tranquillity in the border areas are positive achievements.

The Meerut session of the National Council held in Nov. 1959 categorically affirms that the McMahon Line is India's border in the north-east and rejects as irrelevant the question of the line's historical origin. As to the border in the north-west the resolution affirms that the traditional border should be accepted and negotiations should be held to resolve their differences over what constitutes the traditional border. The resolution does not make Chinese withdrawal from Indian territory a pre-condition of negotiations.

DRAVIDA MUNNETRA KAZHAGAM*

(Arivaham, Suryanaryana Chetty Street, Royapuram, Madras.)

AIMS AND OBJECTS

The attainment of a sovereign independent socialist republic of Dravidanad, comprising the four linguistic States of Tamilnad, Andhra, Karnatak and Kerala. The four linguistic units will have full internal autonomy in the federal structure and the right to secede.

This State will have an independent foreign and defence policy.

India is not a nation. It is a sub-continent consisting of many nations.

English should be retained as an official language for all-India purposes. Regional languages should be the State languages in the States.

Hindi is not a national language. It is only one of many regional language . There should therefore be no compulsory teaching of Hindi in schools in South India.

The membership of the party is over 2,00,000 and the number of branches over 2,000, in Madras State. There are also branches in Kerala, Mysore and Andhra.

It polled more than 17 lakhs of votes in the second general elections and returned 15 members to the Madras Assembly and two members to the Lok Sabha.

* The Party's 1962 Election Manifesto was not available at the time of going to press.

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GANATANTRA PARISHAD

(Cuttack 1, Orissa.)

President : Nandkishore Mishra.

General Secretary : Sundarmani Patel.

At the annual conference of the party in May 1958 it was decided to make the party an all-India party.

The aims and objects are :

Safeguarding the civil, political and cultural rights of minorities and backward areas and classes ;

Abolition of land revenue and the introduction of graduated progressive taxation on agricultural income with a view to achieving a ceiling on income from agricultural resources at not more than Rs. 4,800 and not less than Rs. 1,600 a year;

Secure minimum holding to the cultivating tenants and for the purpose exempt from taxation agricultural holding yielding income upto Rs. 1,600 ;

Increased production, adequate and proper wages to agricultural labour ;

Conversion of bhogra land to royatvari, adequate compensation for land acquisition; protection of cattle wealth, banning cow slaughter ;

Nationalisation of the industries which have been established mostly through Government aid ; nationalisation of mines to be worked in future ; nationalisation of industries in which competition between the State and individuals will not be conducive to public benefit ; nationalisation of industries which can be run more efficiently and produce more cheaply under Government management ;

Adoption of the principle of co-management and profit-sharing by capital and labour ; encouraging trade unionism to ensure better wages ; checking monopolistic tendencies in industry ; extension of industrial aid to deserving enterprises ;

Safeguarding the interests of the middle class ; reduction of taxation ; tax relief by tapping the natural resources of the State;

Abolition of the Kendu Leaf Control Order; abolition of monopolies in minor forest products and the supply of bamboo, coal and timber, etc. from the forests to the people in time of need ;

Safeguarding rights of minorities and backward classes ;

Restoration of Seraikella and Kharswan to Orissa and the integration of the outlying Oriya tracts with Orissa ; shifting cultivation ; conversion of Bhogra land into royatvari ; adequate compensation to the people for land acquisition, etc.

Thinks prohibition has failed and that changes should be made in excise rules.

The party lays special emphasis on :

The removal of regional disparity in the Five-Year Plans ; uniform per capita income in the constituent States ; rural and agricultural sector of the economy ; greater autonomy and freedom to the constituent States ; anti-corruption measures and character building on a mass scale.

Co-operative Farming :—The party is in favour of co-operative farming, but only, on a voluntary basis.

The party is also in favour of State trading in food grains. It is essential that the producers should get a fair price.

On the question of planning the party has on the whole supported the Plans though it was not altogether satisfied with the implementation.

The party is not happy about accepting foreign aid.

On Tibet the policy of the party is the same as that of the Government of India : the security of India, friendly relations with China and sympathy for the Tibetan people.

The party condemns Chinese aggression and thinks that all possible measures should be taken to repel it.

Election Manifesto for 1962 General Elections:

The party is having the same manifesto as they had for the mid-term elections in June 1961. Believes in democracy in social justice, but Social justice does not mean depriving the individual of initiative or enterprise. Faith in democracy and social justice warrants advocating a mixed economy.

It said that public or private enterprise had to be judged upon the point of view of the social purpose they achieved.

Orissa requires a very speedy development of large and medium-scale industries and there is enough scope for huge investments both in the public and private sectors.

The Parishad thought it reasonable to confine basic and heavy industries to the public sector and consumer industries to the private sector as far as possible.

"The Parishad disapproves the growth of monopolistic trends in industry and will take steps to introduce the element of competition wherever it was felt necessary in the interests of the people," the manifesto said.

'Prohibition Policy, Unrealistic'. It described the present prohibition policy of the Government as "most unrealistic and ineffective" and said it was of the view that prohibition policy should be uniform throughout the country and regulatory in method. There should also be exercise of control over manufacture and sale of liquors. The tribals and many people had religious sanction for use of drink on some occasions and there were foreigners in this country addicted to drinking. Total prohibition was not possible. But the purpose of prohibition could be achieved by regulatory measures, by temperance movement and education creating proper atmosphere for the ultimate success of prohibition.

The manifesto assured the people that the Parishad would continue to fight for the merger of Saraikela and Khraswan and other outlying Oriya-speaking areas with Orissa.

INDIAN NATIONAL CONGRESS

(7, Jantar Mantar Road, New Delhi.)

President : N. Sanjiva Reddy.

General Secretaries : Sadiq Ali, G. Rajagopalan, Miss Abha Maiti.

Working Committee : N. Sanjiva Reddy, Mrs. Indira Gandhi, U. N. Dhebar, Morarji Desai, Lal Bahadur Shastri, Jagjiwan Ram, S. K. Patil, Hafiz Mohd. Ibrahim, K. Kamaraj, S. Nijalingappa, Mohanlal Sukhadia, Miss Abha Maiti, Y. B. Chavan, Dr. H. K. Mehtab, Sardar Darbara Singh, Dr. Ram Subhag Singh, Sadiq Ali, G. Rajagopalan, C. K. Govindan Nair.

Presidents of Pradesh Congress Committees : M. Pallam Raju (Andhra Pradesh), Siddhinath Sarma (Assam), Abdul Qayum Ansari (Bihar), B. M. Yagnik (Bombay), Dr. Y. S. Parmar (Himachal Pradesh), Thakorebhai M. Desai (Gujarat), C. K. Govindan Nair (Kerala), Ch. Brij Mohan (Delhi), Mool Chand Deshlehra (Madhya Pradesh), G. B. Khedkar (Maharashtra), S. Nijalingappa (Mysore), Sardar Darbara Singh (Punjab), Mathura Das Mathur (Rajasthan), O. V. Alagesan (Tamilnad), B. Patnaik* (Utkal), A. P. Jain (Uttar Pradesh), Jadhavendra Nath Panja (West Bengal).

Central Election Committee : N. Sanjiva Reddy, U. N. Dhebar, Smt. Indira Gandhi, Jagjiwan Ram, K. Kamaraj, Hafiz Mohd. Ibrahim Jawaharlal Nehru, Lal Bahadur Shastri, S. Nijalingappa, Y. B. Chavan, S.K. Patil, Atulya Ghosh.

Central Parliamentary Board : N. Sanjiva Reddy, U. N. Dhebar, Smt. Indira Gandhi Jagjiwan Ram, K. Kamaraj, Hafiz Mohd. Ibrahim.

Central Disciplinary Action Committee : Morarji Desai, Jagjiwan Ram, Lal Bahadur Shastri, Balwantray Mehta, Smt. Indira Gandhi.

Leader Congress Party, Parliament, Jawaharlal Nehru.

Secretaries, N. Keshava, Dr. Ram Subhag Singh, Smt. Maya Devi Chettry.

Treasurer, Rameshwar Tantia.

Total membership of Party in country : about a crore (active members : About one lakh).

Strength in Lok Sabha : 375.

Strength in Rajya Sabha : 178

Total strength in State Legislatures : 2,123.

Total number of votes polled in the General Election: Lok Sabha : 5,75,79,593 ; State Assemblies : 5,14,00,345.

The Indian National Congress includes the following bodies :

The All-India Congress Committee, the Working Committee, Pradesh Congress Committees, District Congress Committees, General Assembly of the Mandal Congress Committees, Mandal Congress Committees, Committees above or below the Mandal Committees and subordinate to the District Committee.

There are 17 Pradesh Congress Committees :

Andhra, Assam, Bihar, Bombay, Delhi, Gujarat, Himachal, Kerala, Madhya Pradesh, Maharashtra, Mysore, Punjab, Rajasthan, Tamilnad, Utkal, Uttar Pradesh, and West Bengal.

The Mandal Congress Committee, on which the organization is finally based, covers an area having a population of round about 20,000, and is made up of members elected by primary members of the Congress—at the rate of one for about 2,000 members—and of co-opted members, the elected members always having a majority.

There are about 18,000 Mandal Committees.

The General Assembly of the Mandal consists of the primary members enrolled within the area covered by the Mandal.

The District and Pradesh Committees are elected by the elected members of the Mandal Committees. Also there is on them representatives of certain organizations or institutions working in the area in accordance with certain rules. These allied organizations are trade unions, kisan and youth bodies.

The A.I.C.C. also has on it representatives of allied institutions and organizations.

* Now Chief Minister, Orissa.

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AIMS AND OBJECTS

The ideology, outlook and policy may be described as follows:

The object of the Indian National Congress is the well-being and advancement of the people of India and the establishment in India by peaceful and legitimate means of a Socialist, Co-operative Commonwealth based on equality of opportunity and of political, economic and social rights, aiming at world peace and fellowship.

The provision of the basic needs of food, clothing and shelter, and of opportunity for cultural growth for all people.

With a view to achieving the above objects planning should take place with a view to the establishment of a socialistic pattern of society where the principal means of production are under social ownership or control and there is equitable distribution of national wealth.

Full employment should be achieved in ten years.

The State should initiate and operate large-scale schemes, providing services such as power, transport; have over-all control of resources, social purposes and trends; maintain strategic controls; prevent private trusts and cartels; maintain standards of labour and production; the public sector must progressively play a greater part particularly in the establishment of basic industries; the private sector should function in terms of the national plan.

Organization of industry, commerce, agriculture on a co-operative basis.

Participation of workers in management of industry.

Perspective planning; flexible short-term plans in the context of a long-term plan.

Backward areas and regions should be specially helped to develop themselves.

The per capita income should be doubled in fifteen years.

Belief in a secular state; all citizens to have equal rights; removal of barriers which divide people on the basis of religion, caste, class or region.

Land Reform

Abolition of old and out-dated agrarian systems of tenure; security of tenure and fair rents for tenants and tillers of the soil.

Land reform should be effected quickly, agricultural prices stabilized at a reasonable level and facilities for rural credit greatly enlarged. The Government would play its part through the nationalization of the Imperial Bank.

There should be a ceiling on holdings.

Co-operative farming; the village as the unit of co-operative management.

Local administration through Panchayats.

Promotion of small-scale and cottage industries as supplier of consumer goods and source of employment; organization of cottage industries in industrial co-operatives.

State trading should be undertaken whenever the balance of advantages lies in favour of such a course.

Control of distribution is essential in times of scarcity.

Redirection of public expenditure, imposition of estate duties and of tax on wealth and spending for the removal of inequalities and the provision of resources for the Second Plan.

There should be a reasonable relationship of maximum and minimum incomes.

Better housing for workers.

Effective machinery to commend good work and condemn bad work in the public services.

Summary method to deal with corruption.

Education

Basic education would provide the future pattern of primary as well as secondary education. Primary Schools will be converted to the Basic type in a well-planned manner within ten years.

Multi-purpose schools will be established.

Manual work as part of curriculum of higher education; no degree or diploma without manual work.

The medium of instruction at the primary stage must be the mother tongue. Where the mother tongue of a child is not identical with the regional language instruction in the mother tongue should be made available, provided there is a reasonable number of persons demanding such instruction.

At the secondary stage instruction should ordinarily be in the regional language, though other languages could be used if there is a large enough demand.

At the university stage, the regional language should be the medium, though Hindi and even English could be used as this will facilitate inter-provincial cultural intercourse.

In the teaching of scientific and technical subjects the transition from English to Hindi or the regional language should be gradual.

Hindi should be a compulsory second language at the Secondary stage.

The study of English should be taken up at the secondary school stage and continued at the university.

Progressively, examinations for the all-India services should be held in English, Hindi and the regional languages. Candidates who have chosen Hindi or a regional language should pass separately in English.

Successful non-Hindi candidates should take a test in Hindi at an early stage.

Hindi Prachar Sabhas in the headquarters of every Taluka in the south.

It is desirable for people in Hindi-speaking areas to learn at least one regional language.

Proper representation to minorities in legislatures and other public bodies.

Social and legal disabilities hindering the progress of women should be removed and women should be placed on a footing of equality in the matter of marriage, property, inheritance and divorce through a series of Hindu law reform bills.

Provinces on a linguistic basis where there is a demand representing the agreed views of the people of the area: economic, administrative and financial considerations must be taken into account.

Unilingual States may exist where this is considered desirable. But unilingualism cannot be made a fetish.

Formation of regions within a State may be necessary for the full development of a language or culture.

On the whole, it is best not to have relatively small units.

The Congress is committed to prohibition.

Foreign Policy

Independent line in foreign policy; friendly relations with all countries.

India's relations with foreign countries will be governed by the Pancha Shil. They should also be the basis of the relations between all nations.

Regional military pacts which happen to serve specific interests of the Great Powers will not promote the cause of peace.

India will not be aligned to any power bloc, and will not take part in other people's wars.

China must be admitted to the United Nations. Membership should, in fact, be universal.

Only peaceful methods will be used for the liberation of Goa.

In general, people under colonial rule should be free.

Racialism should end.

1961 SESSION

The annual Congress Session held at Sardar nagar, Bhavnagar on Jan. 4, 5 and 6, passed important resolutions on Planning, panchayat raj, national integration, international situation and India-China border.

National Integration. Ever since its birth 75 years ago, the National Congress has stood for the unity of India and the cohesion of her people. While recognising the rich variety of Indian life, it has laboured for their basic and essential unity and the integrity of the country. Its basis and structure were national in every sense of the word and it sought the progress of the people as a whole, regardless of differences of province or religion or caste or language. In this great task it succeeded in a large measure, and this success led to the building up of great movements for freedom resulting in the achievement of independence.

REACTIONARY FORCES

Under cover of political and social activities, the old evils of communalism, casteism, provincialism and linguism have appeared again in some measure. These evils come in the way of the progress of integration.

The Congress views with great concern these unhealthy tendencies and is firmly of opinion that they must be combated in every way. Provincialism and linguism have also injured the cause for which the Congress stands.

Adequate progress can only be based on a national scale, embracing all communities and States.

It is the duty of every one, and more especially the Congress organisation, to remove any sense of grievance from the minds of the minority communities, whether communal or linguistic, and produce in them a feeling of fair and equal treatment and opportunity. It is the task of the majority groups, whether religious or linguistic, to create a feeling of confidence and trust in the minds of the minority communities. Our Constitution has in clear language laid down the principle of equality of treatment.

This has to be rightly interpreted and fully implemented by Governments, both at the Centre and in the States, which should take positive steps to this end. Recruitment to public services should not be made in such a way as to discriminate against linguistic minorities, while merit should always be the principal criterion for such services, more specially in the higher grades. In the lower grades, where there is generally equality of merit, particular care should be taken that minority groups have adequate opportunities offered to them. Policies should be evolved at the Centre and in all the States so that linguistic minorities and relatively backward classes have fair and equitable treatment in respect of educational facilities, to learn their own languages and in regard to recruitment to Government services.

In Congress elections, from the Mandals upwards, care should be taken to have adequate minority representation. In elections to Parliament and the State Legislatures, the Congress should put up candidates so as to give proper representation to minority communities.

AIM OF PLANNING

Third Five-Year Plan: The Congress endorses the resolution of the AICC passed at its Raipur session, on the draft outline of the Third Five-Year Plan. The objective aimed at in planning is to establish a socialist economy and pattern of society in the country. In order to achieve this end, a substantial advance has to be made in the Third Plan towards a self-sustaining and self-generating economy and at

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the same time the disparities that exist in various strata of society should be progressively lessened. As stated in the directive principles of the Constitution, the operation of the economic system should not result in the concentration of wealth and means of production to the common detriment.

In order to achieve higher standards for the people and to remove the curse of poverty, a rapid increase in production is essential and traditional methods of production and distribution have to be replaced by modern and more effective techniques.

The targets mentioned in the draft outline are the minimum required for adequate progress to be made during this period. Every effort must be made to fulfil these targets and to raise the necessary resources. It is necessary to create a climate of saving in the country, and thus also help in stabilising prices, particularly of essential commodities.

It is necessary to increase agricultural production by intensive cultivation and stepping up the yield per acre. It is on the basis of self-sufficiency in foodgrains and in raw materials for industrial use, that industry can progress rapidly. Progress in industrialisation, which is so necessary, is dependent on building up basic industries like steel, power, fuel and machine-building.

Every step should be taken to increase opportunities for employment on projects of national utility, such as afforestation, contour bunding, land drainage, etc.

EDUCATIONAL NEEDS

The educational process has to begin at the earliest stage and thus the care and development of the child should be an essential part of it.

While primary education is spreading rapidly in the country, facilities for higher education and technical training are still limited and many able and deserving students have not the financial resources to continue their studies, more specially in the scientific and technical fields. To such students, the State should provide full opportunities, by way of scholarships or otherwise, so that they can continue their studies in the higher educational establishments.

In the rural areas, provision for good drinking water, sanitation, proper housing and roads should be provided to the maximum extent.

The development of a socialist society requires a progressive change in the way of life of the people. This necessitates the growth of co-operative organisations in agriculture, trade and industry throughout the country.

ROLE OF PANCHAYATS

Panchayati Raj: It has been the settled policy of the Congress, for many years, even before the coming of independence, to develop village panchayats. This policy found expression in one of the directive principles of the Indian Constitution which affirms that:

"That State shall take steps to organise village panchayats and endow them with such powers and authority as may be necessary to enable them to function as units of self-government."

Village panchayats are not only the foundation of democracy in the country, but also secure the effective participation of the people in the Government and the planned development of the country, so that the vast numbers of our people living in the rural areas are intimately associated in these vital functions.

The community development movement, which now covers over two-thirds of rural India, represents an effort to develop a new outlook and release new initiatives among the people who inhabit the five and a half lakhs of villages in India. This movement brought new life to the villages but, even so, a great deal of dependence on Governmental agencies continued.

There is an increasing realisation among them that it is through their own initiative, hard work and co-operation with the resources under their control, that they can achieve rapid progress in various developmental activities, more specially in agriculture, animal husbandry, education, health and sanitation, communications, co-operation, village industries, housing and welfare work among backward classes.

The Congress welcomes this movement and congratulates the States which have already adopted it. It trusts that the remaining States in India will also establish Panchayati Raj in the course of this year and transfer responsibility to the panchayats in as large a measure as possible.

These panchayats are becoming solid foundations for democracy in the country and powerful instruments not only in the political but also in the social and economic fields.

The Congress has noted with appreciation that in many places the panchayat elections have not been run on party lines.

FOREIGN RELATION

"The Congress views with grave concern the continuing deterioration in the international situation, the failure in 1960 of the important attempts to bring about a relaxation of world tensions, notably the summit conference in Paris, and the consequent hardening of the relations between the Great Powers which have retarded and brought to a standstill the various plans and attempts directed to this end and also resulted in the intensification of the cold war."

Disarmament: The Congress affirms its belief that in view of the advance in war weapons technology, more particularly in the nuclear and thermonuclear field and the improvements in the techniques for easier and cheaper production, the only realistic approach to effective disarmament is the one which will ensure general and complete disarmament and a world without war.

TEN POWER RESOLUTION

The Congress approves the declaration and the general plan of directives made in the ten-Power draft resolution and trusts that the General Assembly of the United Nations will approve and implement them at the resumed session of the Assembly in March.

Laos: The Congress firmly believes that the adherence to the Geneva Agreement of 1954 by all concerned, the non-interference by the Great Powers or other parties to the cold war, and refraining from intervening directly or indirectly in that country's affairs enabling it to remain an uncommitted area, alone provides the best hope to Laos, to the rest of Indo-China and, perhaps, Asia and the world, escaping the consequences of the spread of this conflict which may ultimately even reach a world scale.

INTERVENTION IN CONGO

Congo: Our country welcomed the intervention of the United Nations in the Congo at the invitation of the President and the Government of that country.

While the situation is grave and distressing, the elimination of Belgian interference and control, the release of all political prisoners, more especially those who had enjoyed Parliamentary immunity, the restoration of constitutional Government, the convening of Parliament which stands illegally suspended, taking the army out of politics, as requested by the United Nations, and the continuation of the attempts of the United Nations to bring about reconciliation between the rival groups may still bring stability and progress to that country.

The Congress expresses its sympathy with the Congolese people in their deep distress, and adheres to the policy of the maintenance of the integrity and independence of the Congo which alone will enable the Congolese people to determine their own destiny.

Algeria: The Congress expresses its solidarity with the Algerian people in their brave and determined fight for national independence and urges the Government of France to recognise the national independence of Algeria and to implement the pledges which she has repeatedly made in this respect.

The Congress deplores the use of mighty armed forces by land, sea and air by the Government of France, which is facilitated by her membership of the North Atlantic Treaty Organisation.

FREEDOM OF GOA

Portuguese Colonies: The Congress expresses the hope that, despite past history, the Portuguese Government will respond to the decision of the United Nations and accept her commitment under the Charter and to carry out the directons of the General Assembly to end colonial rule.

The Congress reiterates its resolve that Goa, which is a part of India at present under Portuguese domination, must be freed and brought into the Indian Union.

New Free States in Africa: In the generally worsened situation in the world the Congress derives some encouragement from and welcomes the emancipation and attainment of independence by a number of countries in Africa, formerly territories of the French and British Empires which have now become member-States of the United Nations.

Colonialism: The Congress welcomes the decision of the United Nations on colonialism demanding the end of colonialism forthwith and calling upon the metropolitan countries to implement the resolution immediately.

The Congress recognises the progressive and bilateral policy pursued by certain countries, notably the United Kingdom, in recent years and trusts that this process may be quickened to the advantage of all concerned and for general world progress and stability.

1962 Election Manifesto: The Subjects Committee adopted the draft resolution which laid down the broad principles to be kept in view in achieving the objective of a socialist society through democratic and peaceful means. Power for industries, village, small-scale and major—and employment—rural and urban—would receive the utmost attention during the next five years.

Sino-Indian Border: The resolution was debated with some seriousness, most of the speakers endorsing the steps taken by the Government to meet Chinese aggression and asserting that the country was behind the Centre on pressing national integrity. The resolution expresses the country's determination to regain the territory occupied illegally by the Chinese.

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PEASANTS AND WORKERS PARTY OF INDIA*

(Koliwadi, Fanaswady, Bombay 2.)

General Secretary : G. D. Lad.

AIMS AND OBJECTS

To promote international relations on the basis of equality and mutual co-operation and strengthen the forces of peace.

To oppose imperialism and all kinds of domination by one country of another and to support the movements for national independence and against racial discrimination, all over the world.

To establish People's Democracy as a first step towards the realisation of the final goal of a socialist society in this country.

To nationalise all key and basic industries and control the industries in the private sector to ensure their management in the interests of the country.

To nationalise Banks and the remaining sectors of the insurance business.

To industrialise the country rapidly and ensure labour participation in management.

To abolish unemployment by rapid industrialisation, decentralisation of industries, balanced industrial development of different regions, provision of technical training, promotion of the growth of small-scale and village industries and by increasing the capacity of the existing industries.

To abolish all kinds of feudal relationships in agriculture and introduce co-operative farming.

To ensure reasonable prices to the farmers and to entrust the selling, purchasing, processing and warehousing functions to the co-operative societies.

To guarantee minimum wage to agricultural labour and to distribute surplus and Government lands among them.

To guarantee the right of work and a minimum wage to everybody.

To introduce free and compulsory education upto the age of 14 and to subsidise increasingly secondary and higher education. To provide free technical education.

To abolish untouchability by the economic improvement of the Scheduled Castes and Tribes and other backward communities.

Equal rights to women and the enforcement of the principle of equal pay for equal work.

To decentralise the administration and make it responsive to the people's needs and criticism.

To form unilingual States and draw the boundaries of the States on linguistic basis.

Total Membership : As a Marxist Party the membership of the Party is strictly restricted to those who are active workers and devote a major part of their time to party work. The rest are put in the class of sympathisers.

Both classes of members together number about 10,000.

Strength in Lok Sabha : 4.

Strength in Rajya Sabha : 2.

Strength in State Legislatures : 35 (Maharashtra Assembly 28, Maharashtra Council 4, Mysore Assembly 3).

PRAJA SOCIALIST PARTY

(18, Windsor Place, New Delhi 1.)

Chairman : Asoka Mehta, M.P.

Deputy Chairman, Surendranath Dwivedy, M.P.

General Secretary : N. G. Goray, M.P.

Treasurer : Ganga Sharan Sinha, M.P.

Jt. Secretaries : Prem Bhasin, K. K. Menon.

National Executive : Asoka Mehta, M.P., Ganga Sharan Sinha, M.P., Surendranath Dwivedy, M.P., Triloki Singh, M.L.A., Dr. K. B. Menon, M.P., Prem Bhasin, Hareshwar Goswami, M.L.A., Pattom Thanu Pillai, M.L.A., Basawan Sinha, M.L.A., Mir Mushtaq Ahmed, Mukut Behari Lal, Ishwarlal Desai, M. S. Gurupadaswamy, Genda Singh, M.L.A., Shakuntala Srivastava, M.L.C., N. G. Goray, M.P., M. R. Dandavate, Peter Alvares, Chandra Sekhar, Prof. Samar Guha, Anutai Limaye, S. M. Joshi, M.L.A., P. S. Chinnadurai, H. V. Kamath.

There are 18 provincial branches. The number of organized constituency branches would be about 2,000.

The 18 provincial branches are: Andhra, Assam, Bihar, Delhi, Gujarat, H.P., Kashmir, Karnatak, Kerala, M.P., Maharashtra, Punjab, Rajasthan, Tamilnad, Tripura, Utkal, U.P., W. Bengal.

The Party also functions through three different fronts: the peasants (Hind Kisan Panchayat), labour (Hind Mazdoor Sabha), youth (Samajwadi Yuvak Sabha).

The P.S.P. supports the Hind Mazdoor Sabha, which has also the affiliations of unions organized by other parties. The P.S.P. believes that a trade union should be free of all outside influence. The strength of the H.M.S. would be about 4 lakhs. The P.S.P. also functions in a number of smaller unions which are not affiliated to any of the national unions—specially in the railways, posts and telegraphs, banks, insurance and defence industries.

The official organ of the Party is the *Janata*, an English weekly (6, Tulloch Road, Apollo Bunder, Bombay 1). Provincial branches have journals of their own published in the regional languages.

These are:

Janata (Hindi: Patna), Krishak (Oriya: Cuttack), Janavani (Marathi: Bombay), Socialist (Urdu: Jullundur), Pudu Vazhvu (Tamil: Madras), Chetana (Gujarati: Surat).

The central office has a publications department which brings out pamphlets, brochures, etc. on relevant subjects.

There is an International Affairs Committee of the Party which keeps liaison with socialist parties in other countries and concerns itself with international affairs.

The P.S.P. is a member of the Asian Socialist Conference. The P.S.P. maintains an observer status with the Socialist International.

Total membership of Party, 2,74,183 (1958-59).

Strength in the Lok Sabha, 18.

Strength in the Rajya Sabha, 12.

Total strength in State Legislatures, 213.

Assam 7, West Bengal 20, Bihar 32, Maharashtra & Gujarat 38, Madras 2, Mysore 24, Uttar Pradesh 44, Orissa 10, Madhya Pradesh 11, Rajasthan 1, Punjab 1, Kerala 18.

Total strength in Councils, 24. U.P. 7, Bombay† 8, W. Bengal 3, Bihar 2, Mysore 4.

The P.S.P. functions as the main opposition in the States of Assam, Bihar, U.P., Mysore and M.P.

Total number of votes polled in General Elections :

Lok Sabha, 1,16,59,225.

State Assemblies, 1,13,92,500.

Lok Sabha Leader : Asoka Mehta; *Secretary :* Khushwaqt Rai; *Whip :* Nath Pai.

Rajya Sabha Leader, Ganga Sharan Sinha.

AIMS AND OBJECTS

The aims and objects of the Party are given in detail in the 1960-61 Directory.

The main object is the achievement by a peaceful revolution of a democratic socialist society free from social, political and economical exploitation.

The party emphasises the purity of means, non-violent techniques of struggle and decentralized democracy and economy.

India-China Border

The party welcomes the Prime Minister's declaration that Sikkim and Bhutan would be defended. It urges the Government to take firm measures to compel the Chinese vacate the aggression.

The Government should insist upon the immediate vacation of all areas forcibly occupied by the Chinese, demand an unequivocal acceptance of the MacMahon Line and the traditional Himalayan frontier as the pre-requisite for any negotiations.

In the event of China's refusal to vacate India should take military as well as diplomatic measures to compel China to quit Indian Territory.

Goa:—Goa is a part of India and must be integrated with India. The party deplores the passivity of the Government of India in this matter. World attention has to be focused on this issue.

Tibet :—The National Executive of the Praja Socialist Party recogises the Tibetans' right to self-determination and extends to them its support.

The Executive is anxious to maintain and strengthen friendly relations between China and India. The Executive further realises that reconciliation between Tibet and China is essential for the growth of trust and peaceful reconstruction in the South, South-East and East Asia.

Land Reforms :—The Praja Socialist Party believes that it is necessary to entrust the work of organising service co-operatives to agencies wherein all the people interested in co-operatives could work on equal terms.

The Executive is confident that if such a machinery is brought into being and if ceiling on land holdings is immediately imposed with a view to create significant surpluses of land for distribution a suitable climate for these reforms will be created.

Service co-operatives can be organised on a large scale in the immediate future.

The Executive recognises the urgency of quickened change and the fostering of co-operative spirit in the country and would welcome an opportunity to put its shoulder to the task.

The Executive also welcomes any decision to socialize the wholesale trade in foodgrains.

Sufficient reserves of food grains should be built up.

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* The Party's 1962 Election Manifesto was not available at the time of going to press.

† Maharashtra.

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DRAFT ELECTION MANIFESTO
(1962 Elections)

Frontier Threatened

The inviolability of the territorial integrity is ever the basic tenet of a sovereign state. The government has failed to meet aggression on the country's frontiers by Pakistan, China or Portugal.

The historic task of mobilising the nation in the defence of its security and integrity awaits to be accomplished.

The threats to India's frontiers that should evoke national solidarity and strengthening national will and purpose have instead uncovered disenchantment, disunity and despair.

The Home Policies

The government have failed to convince the people of their impartiality and of responsiveness to people's wishes. National integration is hampered because linguistic minorities do not feel assured of justice and even-handed treatment and instead of hope and faith, frustration has spread.

The policies followed by the Congress Party frequently result in encouragement to caste and communal loyalties, which creates apprehensions, legitimate or otherwise, in the minds of religious minorities.

The government's economic policies have sharpened inequalities and through price rise and inequitous taxes have depressed the already meagre standards of the working people.

Democracy cannot function effectively unless there is an alternate focus of loyalty available to the people which could ultimately provide an alternate government.

The Praja Socialist Party places its unshakable faith in the concept of socialism that challenges the present social order and accepts in its place an order based on equality of opportunity, on reduction in the diparities of incomes, on genuine participation of people in the control of social levers and on social mobility that helps every citizen in the country in the development and full utilisation of all that is the most creative and enterprising within him.

Prevailing Accent on Inequality

The Five Year Plans have meagre achievements to show. In the decade of planning, national income has grown just 3½ per cent per annum. As the Plans become bigger and bolder, the gains become smaller; per capita income grew by 2 per cent in the First Plan and by 1½ per cent in the Second.

Land reforms have brought little justice to the villagers, because they have been extensively evasive in implementation. The benefits of the development programmes have gone to the richer elements in the villages. Expansion of the private sector has meant mainly strengthening the oligopolies in the country. The disparities in growth between the rich and the poor remain the outstanding characteristic of planning in agriculture as well as in industry.

Equality, Security and Participation

The Praja Socialist Party believes that in India the urge for freedom expresses itself in the fight for equality. This fight is directed against class distinctions of all kinds, whether they relate to economic position, social status or cultural advantages. They believe that battle for equality must be waged relentlessly if the imperilled nation is to be saved.

Freedom is rooted in security. It gains in meaning and asserts itself only when economic and social security are assured. It grows through participation, arrests abuse of power and counters encroachment against individual rights. The Praja Socialist Party aims to humanise the state and the economy, not 'Statise' man.

Planning by People for Plenty

Democratically organised district administration has to be the principal unit of economic planning. Under its direction the integrated land reforms would be implemented as a time-bound programme. It would be closely connected with development plans so that land reforms and re-organisation proceed hand in hand. The district development plans should include village programmes. Inducement and incentives should be given to the holders of the dwarf holdings and invite them to join the co-operatives. Improvement in the rural housing through rural-re-development projects. It believes in the dispersal of industries in rural areas to involve the villagers in the process of industrialisation.

Reshaping Industrial Policy

Industrial development so far has generally aggravated concentration of wealth and power. The Praja Socialist Party's endeavour would be to correct and drastically alter the contours of industrial development. It would revise the licensing policy and re-orient the credit policies in favour of new entrepreneurs. In the public sector, the Party would work for the splitting up of giant corporations, and for management provided with initiative and enterprise. The public sector enterprises will pioneer in workers' participation in management, in training within industry, in sponsoring social change through industrial growth.

Investment in Man

Important as investment through labour is to economic development even more valuable is investment in human beings to social progress. Education should be the birth-right of every child. Teaching must be re-oriented to subserve national outlook and integration and a technical bias must be increasingly imparted to education. Teachers must be assured of fair remuneration and security through pension.

Minorities

All minorities should have equal right to participate in all spheres of social, economic and political life. They will have the right to practise their religions, organise educational institutions and cultural associations for promotion of their language, script and literature. In order to ensure the enjoyment of rights a Minorities Commission with appropriate powers and the status of Supreme Court will be set up.

Organs of Economic Democracy

The industrial renaissance that the Praja Socialist Party desires, requires a change in the status and outlook of the worker. The wage and salary earners and government employees have right to free association in trade union.

National industrial unions with internal democracy would be encouraged. Only strong unions, that are autonomous and democratic, can enable the worker to be the pace-setter of economic development and social transformation. It appreciates the need for industrial peace and believes that happy industrial relations could be established only through quick, inexpensive, impartial and permanent negotiation and arbitratory machinery.

Foreign Policy

The Praja Socialist Party believes in an independent foreign policy, keeping out of military alliances and seeking peace. When China and Pakistan have invaded Indian territories their evacuation becomes the primary task of defence as also of policy.

Th Praja Socialist Party reiterates its old stand that after the passing of the Constitution by the Kashmir Constituent Assembly the whole Kashmir has become an integral part of India. The illegal occupation of a part of Kashmir by the Pakistan forces should therefore be vacated.

It believes that upholding of common standards in international relation is the essence of non-alignment.

In South and South-East Asia India carries a special responsibility. She has to be the bastion of strength to the neighbouring countries.

Defence

The Praja Socialist Party favours the establishment of a Defence Council bringing together a number of influential authorities both civil and military, for consultation and decision.

The Party would make special efforts to establish co-operative agricultural communities near the land frontiers and help their members to combine agricultural work with preparedness for defence.

It would greatly extend the organisation of militia in the country.

Final Appeal

The Praja Socialist Party invites all Indians to join the common quest for intellectual, aesthetic and moral efflorescence and strive for economic and social transformation whereby the stubborn inequalities of ages are finally pulverised.

THE REPUBLICAN PARTY OF INDIA
(Gandhi Road, Chanda, Vidarbha.)

President, N. Siv Raj, M.P.
General Secretary, B. D. Khobaragade, M.P.

Other members of the executive are:—Channa Ram, B. P. Mourya, Lala Harishchandra, Chopada, Mrs. Iswaribai, G. K. Maney, M.P., Yashvant Rao Ambedkar, R. D. Bhandare, B. K. Gaikwad, M.P., D. A. Katti, M.P., J. C. Adimoolam, G. T. Parmar, B. S. More, S. M. Meshram and H. S. Rishi.

The main aims and objects of the Party are to realise the aims and objects set out in the preamble to the Indian Constitution, namely:

The equality of all persons; the right of self-development; freedom of religion; and economic and political freedom; equality of opportunity with the proviso that those who had none in the past should have priority; freedom from exploitation of man by man, class by class, nation by nation; the parliamentary system of government.

It will organize the masses of India specially the Buddhists, Scheduled Castes, Tribes, Backward Classes, the peasantry, the landless workers, wage-earners; it will undertake educational work such as starting schools; it will work for the spiritual and cultural uplift of these masses; keep a record of incidents of tyranny and oppression.

The party believes in the nationalization of land. It is sceptical about the success of the cooperative principle which will not in any case solve the problems before the landless workers.

The State should take over all land and compensate the holder adequately, with the right to determine how and when the payments are to be made.

The land so acquired should be divided into farms, they should be cultivated as collective farms in accordance with directives from Government. The tenants should share the income after expenses are paid. There will thus be no landlord no tenant, no landless labourer. The State should finance the cultivation by the provision of water, seeds, implements etc. The State should take a portion of the yield for land revenue, a portion for liquidating the compensation fund. Tenants who break regulations should be punished.

The party is not in favour of the extension of the period of the reservation of seats for the Scheduled Castes in the legislature for another ten years. The party believes that reservation does not promote integration but emphasizes the differences between communities.

On the border problem, the party believes that the MacMahon Line should be recognized and all steps should be taken to force back the Chinese aggressors.

The 1962 Election Manifesto of the Party was expected to be ready by the end of October 1961.

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REVOLUTIONARY SOCIALIST PARTY

(780, Ballimaran, Delhi 6.)

General Secretary, Tridib Kumar Chaudhuri, M.P.

Secretaries, Pratul Chaudhuri, N. Sreekantan Nair, Makhan Paul, Keshav Prasad Sharma, Durga Bagchi and Sushil Bhattacharya.

The party is a Marxist Leninist Party and relies on mass and class action. It is organized on the principle of democratic centralism.

But it is opposed to subservience to the foreign policy of Russia or China.

It believes in the redistribution of land with ceilings and cooperative farming and mechanization. It supports the general ideas underlying the Third Plan but insists that the sacrifices involved in deficit financing should be shared by all equitably. It believes in State trading in food. It is opposed to the idea of a Punjabi Suba but favours promotion of and safeguards for regional development. On China, it condemns the Chinese aggression and believes that negotiations should start only after China has vacated Indian territory.

The manifesto for the 1962 Elections was not available at the time of going to press.

Members in the Lok Sabha : one.

Total number of members in the State Assemblies : four.

Total membership of party : 23,811.

The party has branches in Assam, West Bengal, Bihar, Uttar Pradesh, Delhi, Rajasthan, Maharashtra, Madras and Kerala.

SAMYUKTA MAHARASHTRA SAMITI

(54, Budhwar Peth, Kaka Kuwa Mansion, Laxmi Road, Poona-2.)

General Secretary : Dajiba Desai.

AIMS AND OBJECTS :

To establish a unilingual State of all contiguous Marathi speaking areas as a constituent of the Indian Union on the basis of the principle of the linguistic reorganisation of States.

To reorganise the economic, cultural and social life of Maharashtra on the co-operative basis.

NUMBER OF REPRESENTATIVES OF THE SAMITI IN*

Rajya Sabha	3
Lok Sabha	25
Vidhan Sabhas	132
Vidhan Parishads	21

TOTAL NUMBER OF VOTES SECURED BY THE SAMITI IN THE GENERAL ELECTIONS (1957) FOR :

Lok Sabha	50,65,078 (more than 50 %.)
Vidhan Sabha	53,23,158

Five Members from Belgaum and 2 from Marathawada are elected to the Mysore State Assembly on the Samiti's ticket.

It may be added that the future of the party is in the melting pot. Three groups have left it, former Congressmen, the P.S.P. and a group of the Republican Party led by Mr. B. C. Kamble.

The election manifesto for the 1962 Elections was not available at the time of going to press.

* Subject to revision.

THE SIKHS

Broadly speaking there are three groups among the Sikhs. One group forming the main body of the Shiromani Akali Dal is led by Master Tara Singh. It is in favour of maintaining the separate identity of the Sikh community and the formation of a Punjabi Suba.

Before the last general elections the Akali Dal adopted by an overwhelming majority four amendments to its constitution by which members were enabled to join the Congress and exclude politics from the Dal's domain.

The Akalis and Sikhs in general accepted the new Punjab of the States Reorganization Act (Pre-reorganization Punjab and PEPSU) and the regional formula with a zonal council for the Hindi and Punjabi speaking areas. The Sikhs are in a majority in the Punjabi-speaking zone, where the court language is Punjabi in the Gurmukhi script. It is estimated that the Sikhs form about 57 per cent of the population of the Punjabi zone.

The Akalis are represented in the Congress Government in the Punjab.

But the relations between the Tara Singh group and the rest have always been liable to be disturbed.

In the general elections that followed though one group led by Giani Kartar Singh supported Congress candidates, the other group led by Master Tara Singh opposed some though not all Congress candidates.

Besides the Akalis, there is a large body of Sikhs who belong to the Congress. They do not believe that Sikhs as Sikhs should have a separate political identity.

The differences between the two groups among the Akalis—that of Giani Kartar Singh who is a Minister in the Government, and of Master Tara Singh—and also between Master Tara Singh and the Congress were widening all through the latter half of 1958.

According to Tara Singh this could be ascribed to: The alleged interference in the Gurdwara affairs which led to the defeat of Master Tara Singh in the S.G.P.C. elections, the alleged encouragement given to Giani Kartar Singh to divide the Sikhs, the Congress refusal to redistribute the boundaries of the Punjab on a linguistic basis, the half-hearted implementation of the regional plan embodying the Sachar language formala, the inadequate representation of Sikhs in the services and the alleged corruption and nepotism in the administration.

In the middle of Feb. 1959 the Shiromani Akali Dal decided to abrogate the Congress-Akali Pact and revive political activity.

On March 12 Master Tara Singh was arrested at Amritsar under the Preventive Detention Act and was taken to Dharamsala. Two days later he wrote a letter to Mr. Nehru which carried a plea for the appointment of an arbitrator to enquire into the charge that the new Gurdwara Act made interference in the religious affairs of Sikhs possible. On 19th March he wrote again to say that unless he got a reply to his letter by 24th March he would go on a fast unto death. On 21st March he was released from Yole camp and driven to Amritsar.

A meeting then took place between the Prime Minister and Master Tara Singh at which an agreement was arrived at on the question of religious interference.

Master Tara Singh claimed this as a victory for the Akali Dal and asserted that the agreement had in effect shelved the proposals of his 'opponents' to hand over the management of the Sikh shrines to a trust and dissolve the S.G.P.C.

The Kartar Singh group was, however, firm in its opposition to the agreement and the amendment to the Gurdwara Act was put through. This was interpreted by Master Tara Singh as an attempt to obtain an artificial majority through indirect election to the S.G.P.C. which was really a form of nomination.

The amendment, it may be explained, sought to bring the PEPSU Gurdwaras also into the S.P.G.C. by election through an electoral college formed by members of local bodies as an interim measure. It was Master Tara Singh's contention that these members were no more than the nominees of the Chief Minister.

In the Gurdwara elections of January 1960 there were to start with five parties—the Akalis, Dashmesh Dal, Panth Sewak Dal, Malva Akali Dal and Desh Bhagat (Communist). Later the three non-communist anti-Akali parties coalesced to form the Sadh Sangat Board.

In the elections held on Jan. 17, 1960 the Akalis swept the polls, winning 136 of the 140 elected seats in the S.G.P.C. (total strength 160).

Master Tara Singh took this victory however, as a call to go forward in the campaign for a Punjabi Suba. The bifurcation of Bombay State leant enormous encouragement to the whole movement.

The estrangement between the Akalis and the Congress was more or less complete. On the 14th of March at a meeting at Shri Anandpur Sahib the general body of the Akalis passed a resolution asking the Akali-Congress legislators to leave the party and form an opposition. In answer to this five Akalis resigned from the Congress on 13th April after brief discussions with the Congress High Command.

On 30th April the Working Committee of the Akali Dal passed a resolution declaring that the formation of a Punjabi Suba was the only solution to the problems of the Punjab. Preparations were also made for launching a struggle.

The Congress Sikhs opposed the demand.

Challenging Master Tara Singh's claim that all Sikhs were with him, the PCC chief claimed that more than 50 per cent of the population of the Punjabi speaking area, including a large number of Sikhs, were opposed to the Punjabi Suba demand.

On May 5, the Akali Dal announced its plans.

A Punjabi Suba convention attended by about 5,000 delegates met in Amritsar on May 23. The resolution passed at the convention said that the formation of a Punjabi Suba should not be delayed any longer. It also supported the demand for a greater Haryana and Himachal. The Punjabi Suba would be in the Indian Union and not form a separate State. The agitation for the Suba should be peaceful.

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The following night on May 24, Master Tara Singh was arrested under the Preventive Detention Act and taken to Dharamsala Jail.

The Government had decided to take swift action. About 250 Akalis were rounded up—most of them key-workers. They included six legislators. The police also raided the offices of the official Akali organ 'Daily Prabhat' and arrested twelve members of the staff including the editor. This was because the staff had refused to obey the order prohibiting the publication of news and views about Punjabi Suba. Restraint orders were also served on five other language dailies. In certain Districts—Bhatinda, Patiala, Ludhiana — meetings and processions were banned. Measures were taken to prevent the recruitment of volunteers for Jathas for the June 12 demonstration in Delhi.

The President of the Delhi Akali Dal said on June 6 that the Akalis would take out a procession in Delhi on June 12 even if the Government banned it. They would be peaceful and non-violent no matter what the provocation.

On June 9, the District Magistrate of Delhi wrote to the President of the Akali Dal refusing permission to hold the demonstration on June 12. The letter was torn up and the Akalis promptly announced their decision to defy the order. The police then made a series of raids and arrested the more important Akali workers.

The plans for June 12 demonstration was for batches of Akali volunteers to come out of Gurdwara Sisganj and court arrest.

When the demonstration came on June 12 it was marked by much violence. The trouble spots were Gurdwara Sisganj and the Town Hall. The police and the Akalis clashed when the latter tried to take out a procession. Lathi charges were made and tear gas used. More than 150 persons including 75 police officers and men were injured and one died. About 1,000 were taken into custody.

The total number arrested in the areas affected by the Punjabi Suba agitation was 2,457 by June 14.

In December 1960, Sant Fateh Singh took a fast unto death for the acceptance by the Prime Minister of the principle of Punjabi Suba. He broke his fast on Jan. 9, 1961 as a result of intervention by Master Tara Singh. But Master Tara Singh declared at Amritsar on 11th Jan. 1961 that the battle for a Punjabi Suba would continue. All subsequent negotiations having failed Master Tara Singh took a fast unto death. The Maharaja of Patiala and Mr. H. S. Malik tried to mediate and to pursuade him to break his fast. They informed him that the Union Govt. at the instance of the Prime Minister had issued a communique assuring the Akalis, that a high power commission would soon be set up to inquire into the Sikhs' grievances. Master Tara Singh broke his fast on 1st October 1961.

SOCIALIST PARTY*

(Central Office : 14-1-323, Sitarampeth, Hyderabad.)

Chairman : Rajnarayan.
Secretary : Rabi Ray.

Members, National Committee :

Dhanik Lal Mandal (Bihar), Smt. Bhagwati Devi (Bihar), Smt. Tara Devi (Bihar), Ambika Pd. Singh (Bihar), Viswanath Modi (Bihar), Ram Iqbal Singh (Bihar), Badrivishal Pithi (Andhra Pradesh), Tholok Gogoi (Assam), Dinesh Dass Gupta (West Bengal), Smt. Saraswati Ammal (Calcutta 25), Gopal Gowda (Bangalore), George Fernandes (Bombay), Baleshwar Dayal (Madhya Pradesh), Bal Thakur Sharma (Manipur), Maniram Saharavat (Punjab), Ram Kishan (Rajasthan), G. G. Murahari (Andhra Pradesh), Chandra Bali Singh (U.P.), Gopal Narain Saxena (U.P.), Shamshi Minai (U.P.), Moti Ramshastri (U.P.), Ram Sewak Yadav (U.P.), Mazumuddin (Andhra Pradesh).

AIMS AND OBJECTS

National : To establish a socialist society through a democratic and peaceful revolution.

International : To end inequality among the nations and establish a World Parliament and a socialist world.

The main aims and objects of the Party *vis-a-vis* the 1957 General Elections are given in the 1960-61 Directory.

DRAFT ELECTION MANIFESTO

(1962 Elections)

The Socialist Party considers it its duty to end the inequality between the big man and the small man, which is in the mind, in society, and in unequal incomes. It is impossible to change India except through a revolution which would change the mind and actions of all in a single great shakeup. In the absence of such a revolution we may once again face slavery, which we have suffered more than any other people in the world. The less a people fight internal tyranny and injustice, the more they suffer foreign agression and rule.

The Socialist Party wants to change the bases of planning, postponing modernisation of consumption, and using small machines and small industries wherever possible for modernising production. The party will reorient planning with the interests of the small man to the force, through programmes like food army, literacy army, and pipes for drinking water all over the country.

The Socialist Party has not been able to fully implement its policies and bases. But it has, to some extent, developed a militant and revolutionary spirit, or at least kept it alive. People's policies on caste, language, prices, etc. have been publicised, though matching organisations have not been built up. At some places, peasants have received land, their burdens and those of workers have been lessened, ordinary people and small government servants have received some relief and in some places imperialist monuments have been removed. The Socialist Party believes that it will be able to overcome its defects through struggles and agitations. The Socialist Party has developed *Satyagraha* as a lasting, permanent weapon. It is an axis of the Socialist Party.

The Socialist Party wants to become a powerful sentinel who would successfully keep a vigilant eye on the various governments. For this, it is necessary that the people vote for socialists in such numbers and make them victorious so that (1) The Socialist Party receive national recognition, and (2) Wherever possible they are elected in such numbers, for instance, 50 in the Lok Sabha, that the Government may be compelled to act carefully and cautiously.

Destruction of castes is as necessary as economic and political equality to free the people's mind. The Socialist Party is confident of its ability to destroy the three-thousand-years-old caste system, for, unlike the past, when it was attacked only on the religious and partly on the social plane, the Party's attack is on all the four planes, religious, social, economic and political.

The Socialist Party warns the people, particularly the backward castes, that adult vote is their great weapon and though it is blunted today, on account of lack of consciousness in them, they will some day be able to abolish caste and be the rulers of the country through it.

It will be the endeavour of Socialist legislators to guide the various legislatures and governments towards people's policies and to build up a decisive public opinion in their favour.

Price :—1. The price of any essential commodity manufactured in factories should not be more than one and a half times the cost, including all taxes and profits.

2. The price of any food grains should not change by more than one anna a seer or 16 per cent between two harvests.

3. The peasant should receive a price for his product that would cover his cost and provide ordinary decent living standards. Agricultural and industrial prices should be related on a basis of parity and fairness.

4. Prices of exported agricultural and mineral produce and imported manufactured goods should similarly be related on a basis of parity and fairness.

Agriculture :—5. Land revenue on uneconomic holdings, i.e. holdings up to 6¼ acres of land of average fertility, should be abolished.

6. Land should be redivided so that no family has more than three times the economic holding.

7. Sharecropping be abolished. Land should belong to him who works on it. For some time the 3 to 1 law may remain, but it should be implemented rigorously.

8. A living wage be fixed for agricultural albourers, and officers be appointed to rigorously implement these laws.

9. A land army be formed to cultivate new lands and to increase the production of milk.

10. Production of seasonal fruits like mangoes be increased and factories be opened for their preservation. In hill areas, particularly the Himalayan region, fruit orchards should be planned on a large scale.

Caste :—11. Women, Sudras, Harijans, Adivasis, and backward castes among religious minorities be given 60 per cent reservations in all leading positions so long as caste differences in mind and education are not destroyed.

12. Inter-caste marriage, in the sense of high and low caste marriage, be considered a qualification for government jobs. Inter-dining twice a year be compulsory for all government employees.

13. Special facilities of scholarships, hostels etc. for backward castes be increased as also the number of schools and colleges. But there should be no discrimination against the high-caste youth.

14. Old debts of Adivasis be written off, if necessary, by the government taking over legitimate debts. The management of forests be increasingly given to Adivasis and their cooperatives.

Four Pillar State :—15. One-fourth of all government and plan expenditure be through village, district, or city panchayats.

16. Policeshould be subordinate to the village, city, and district panchayats.

17. The post of collector be abolished and all his functions be divided among various organs in the district. So far as possible, the elective principle should replace the nominative principle in administration.

18. Ownership and management of agriculture and factories which are nationalised should as far as possible be in the hands of village, city, and district panchayats.

Language :—19. Public use of English in Hindi-speaking States be immediately stopped. In the centre also, these be formed into a group in which English be removed from the army, railways, post, industries, secretariat work, etc.

20. Another group should be formed of States who wish to retain English in Central administration. In this group also, English be immediately removed at State level.

Till these aims are achieved, attempts be made that students failing in compulsory English are passed, English is removed from High Courts under Article 348 of the Constitution, and as medium of instruction and a compulsory subject from universities and from secretariats and industries.

* The Centra Election Commission has granted recognition to the Socialist Party to contest the ensuing general elections in Madhya Pradesh as a party.

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Rivers and Water :—21. Diverting dirty water from factories and sullage water from cities into rivers be made illegal. This water be taken to nearby fallow lands through pipes where fertilizer factories should be erected.

22. Public latrines be constructed on river banks in pilgrim centres and cities and the use of other land near the rivers be made an offence.

23. Arrangements for the supply of clean water through pipes be made in every village.

Economic Equality :—24. Through tax or wage policies or nationalisation or all three, no income or salary should be more than Rs. one thousand per month. (Special facilities provided to Ministers and high government officers be abolished).

25. All big industries be nationalised. The Socialist Party holds that all means of production which require hired labour should be under social ownership. But in the beginning, iron and steel, engineering, sugar, textile, cement, mines, electricity, chemical industries, and other basic industries should be nationalised.

26. A literacy army be formed to end illiteracy in ten years.

27. Scientific, technical, and industrial schools be opened in large numbers. Such basic changes be made in university education that its aim be knowledge of the subject and research, and not meaningless and superficial use of language as it is today.

Others :—28. All government employees, except the armed forces and armed police, should have the freedom to join and work in political parties.

29. If 50 per cent and one amongst the electors of a constituency wish to recall their representative, such representative be recalled and another election held.

30. Rising land prices in cities on account of industrialisation or other reasons be checked, or taken by government in the form of taxes. For the entertainment or residence of big men and for government offices, the best and large parts of urban land have been taken over. Most of that land should either be distributed among the people or houses be built for their residence. No city should be owned by a factory or an industrialist.

The Socialist Party will help people's revolutions in all Portuguese colonies, will contact democratic elements in Portugal, and will help the people's movement in Goa internally and externally according to a definite policy.

The Socialist Party will attempt to make the government stop considering and calling Tibet a part of China. It will also insist that either Tibet be independent or the India-China boundary be drawn at Kailash Manasarover and the northern limit of the basin of east-flowing Brahmaputra and not at the MacMahon Line.

Causes for the difference in the strength of India and China should be sought and removed.

The Socialist Party will work for India Government's taking the initiative for the independence of Fiji and Mauritius.

The Socialist Party is anxious because Hindus have not found security in Pakistan, and they are considered second class citizens. While Pakistan should be made to realise its duty through all possible means, all attempts should be made to see that the security and citizenship of Muslims in India remains without blemish.

The Socialist Party believes that an independent and creative foreign policy should try to pursue three definite aims—freedom for all colonial peoples and equal rights for all, abolition of poverty from India and elsewhere in the world, and world peace.

The Socialist Party would like to change the existing pattern of foreign aid so that it is not used for raising consumption levels or waste. Secondly all foreign aid should be given and received through a world development authority.

The Socialist Party will insist that the Government of India pursue the three aims of anti-poverty, disarmament, and freedom with equal emphasis. The Socialist Party desires that men and women of all the world should set up their parliament and a world government for necessary matters responsible to it and should undertake a world *satyagraha* to attain this object.

U.S. Arms Aid to Pakistan :—would further worsen the prospect of Indo-Pak amity. However, it is time that the whole Indo-Pak question should be viewed from a comprehensive angle. The people in both the countries should mentally accept partition as a settled fact and make federative approaches.

SWATANTRA PARTY

(143, Mahatma Gandhi Road, Bombay 1.)

President : Prof. N. G. Ranga.

Vice-Presidents : K. M. Munshi, Kamakhya Narain Singh, S. K. D. Paliwal.

General Secretary : M. R. Masani.

Treasurers : Sir Homi Mody, B. V. Narayana Reddi.

Central Organising Committee : C. Rajagopalachari, V. P. Menon, B. Ramachandra Reddi, Raghavendra Pratap Singh, Sardar Basant Singh, Bhailalbhai Patel, Jinaraja Hegde, Jathedar Udham Singh Nagoke, J. Mohommed Imam, Sardar Bahadur Lal Singh, R. Agnibhoj, Kalyan Singh, Prof. M. Ruthnaswamy, H. H. Maharawal Laxmansingh of Dungarpur, H. H. Anandchand of Bilaspur, N. C. Chatterjee, Raja Man Singh of Bharatpur, G. Latchanna.

The Party has nine members in the Lok Sabha who function as the Swatantra Party Parliamentary group with Prof. N. G. Ranga as leader, Mr. M. R. Masani as deputy leader, Mr. J. M. Imam as secretary and Mr. S. A. Matin as whip. The Party has also seven members in the Rajya Sabha.

The Swatantra Party was established in Bombay on August 1 and 2, 1959, at a preparatory convention which was convened for the purpose of establishing the Party and adopting a statement of principles. Earlier an informal meeting had been called in Madras on June 4 at the initiative of the All India Agriculturists' Federation at which a decision was taken to launch a new Party under this name.

The first National Convention of the Party was held in Patna on March 19 and 20, 1960. Over one thousand delegates were nominated representing over 3,36,000 members spread throughout the country.

The constitution of the party was adopted by the Convention. It was also decided that a five pointed white star on a blue background would be the flag of the Party. The Convention also adopted a 9,000 word statement of policy based on the statement of principles adopted in Bombay.

Membership of the Party is open to all persons who have completed 21 years of age and are in agreement with the Party's statement of principles and pay an annual subscription of 50 nP.

The Party's basic policy is contained in its Statement of Principles which runs as follows :

The Swatantra Party is pledged to social justice and equality of opportunity for all people without distinction of religion, caste, occupation or political affiliation.

The Party holds that the progress, welfare, and happiness of the people depend on individual initiative, enterprise, and energy. The Party stands for the principle of maximum freedom for the individual and minimum interference by the State, consistent with the obligation to prevent and punish anti-social activities, to protect the weaker elements of society, and to create the conditions in which individual initiative will thrive and be fruitful. The Party is, therefore, opposed to increasing State interference of the kind now being pursued.

The Party holds that the State should foster and utilise the sense of moral obligation, the pride, satisfaction, and fulfilment felt by individuals in serving others, which are inherent in our tradition, instead of adopting legislative or other forms of compulsion which commence with want of faith in the people and are consummated in the serfdom of the governed under the official machine, in an omnipotent State controlled by a political party voted to power. The Party, therefore, adheres to the principle of Trusteeship adumbrated by Gandhiji.

The Party holds that the policies of Government should be founded on faith in the people and not on State compulsion and the encouragement of hatred and conflict between class and class, expropriation, repudiation of obligations, and the conferment of more and more powers on the officials of Government at the expense of the freedom of the citizens.

The Party stands for every effort being made to foster and maintain spiritual values and preserve what is good in our culture and tradition, and avoid the dominance of a purely materialist philosophy of life which thinks only in terms of a standard of life without any reference to its content or quality.

The Party holds that steps should be taken to remove the pervading sense of uncertainty that has been created by the present policies of the Government and its varying forecasts of future plans, leading to the drying up of initiative and enterprise in land, shop, and factory alike. The Party holds that a sense of stability and incentive for individual effort can be restored only by strict adherence to the Fundamental Rights and Guarantees specified in the Constitution as originally adopted in respect of freedom of property, trade, and occupation, and just compensation for any property compulsorily acquired by the State for public purposes.

The Party holds that in the policies adopted for national development, priority must be assigned to the basic needs of the people, namely, food, water, housing, and clothing.

The Party believes that every citizen has a fundamental right to educate his children according to his choice and in a free atmosphere untramelled by official directives and that the State should afford facilities for such education without discrimination.

The Party holds that the paramount need is for increasing food production and this is best attained through the self-employed peasant proprietor who is interested in obtaining the highest yield from his land.

The Party believes in an intensive programme of agricultural improvement by promoting the material and psychological inducements for greater production without disturbing the harmony of rural life. The Party holds that there should be no disturbance of ownership, management, and cultivation of land, but believes in a more effective programme than is being followed at present in respect of irrigation, and the supply of material, implements, credit and marketing facilities.

The Party believes in the need for giving every kind of help to agriculture, but is opposed to cultivation through organisations which reduce private ownership to an empty paper-title and which bring into being a loose kind of multiple ownership which is certain to sap the incentive of the farmer and his family, reduce output,

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and take us to a collective economy with official management. It is firmly opposed to collectivisation and bureaucratic management of the rural economy.

The Party takes note of the dissatisfaction amongst the rural population that adequate attention has not been paid to their needs. It holds that the level of life of the rural people should be improved by removing all such impediments as are likely to stand in the way of their attaining a high standard of life, and by taking all steps necessary for the purpose, in particular for maintaining a reasonable and steady price for agricultural produce, which is in parity with other prices.

In industry, the Party believes in the incentives for higher production and expansion inherent in competitive enterprise, with adequate safeguards for the protection of labour and against unreasonable profits, prices and dividends, where there is no competition or where competition does not secure the necessary corrective.

The Party stands for the restriction of State enterprise to heavy industries such as are necessary to supplement private enterprise in that field, such national services as Railways, and the starting of new enterprises which are difficult for private initiative.

The Party is opposed to the State entering the field of trade and disturbing free distribution, and introducing controls and official management with all its wastefulness and inefficiency.

The Party believes that in the field of production, the free choice of the producer and the consumer must be given basic place and importance.

The Party stands for the preservation of the freedom of the small and self-employed artisans, craftsmen, and traders, who are in danger of losing their occupational opportunities by reason of the policy of Statism. These persons perform a great, widespread, and inexpensive function in our society, and their gradual extinction will be a national misfortune and add to our unemployment problem.

The Party stands for greater thrift in public expenditure. It holds that taxation should be kept at such levels as will not interfere with reasonable living standards for the people, both rural and urban, and which, while being necessary and sufficient for the carrying on of administration and such social and economic services as are taken up by the State, is yet not so high and exacting or so ubiquitous as to prevent capital formation and private investment.

The Party is opposed to a programme of development based on crippling taxation, abnormal deficit financing, and foreign loans which are beyond the capacity of the country to repay.

The Party is opposed to all policies that lead to excessive inflation, high prices that reduce the value of savings, endowments, and fixed incomes, and which create undue hardship for the present generation in the hope of a distant gain.

The Party believes that the cost of public administration should be reduced considerably It stands for integrity and efficiency in the services. It is against the expansion of the bureaucratic machine, with a hierarchy of officials asked to do work which is best done by citizens and private agencies, resulting in unproductive waste of national resources.

The Party believes that the State will best serve the nation by encouraging and affording facilities for a decentralised distribution of industry and by limiting its own regulatory function to the prevention and punishment of anti-social activities wherever called for.

The Party stands for the creation of opportunities for full and lasting employment in all sectors of life. It stands for a programme of all-round industrialisation with a view to developing national resources and reducing unemployment. It believes in a balanced development of capital-goods industries, organised consumer-goods industries, and rural industries that afford supplementary employment in the small scale processing of the products of agriculture.

The Party stands for a fair deal for labour whether in the field, factory or office and for correlating wages to increased productivity and for the workers' right to organise for the purpose of collective bargaining. It stands for harmonising the interests of capital and labour when they get into conflict.

The Party is opposed to any form of political pressure being put on officials to deflect them from the course of fair and just discharge of duties without discrimination. It stands for the rule of law, an independent judiciary, and for the full play of the powers of judicial review given to the Courts by the Constitution.

The Party shall, in all matters, keep before itself the cardinal teachings of Gandhiji, maintaining faith in the people and in the efficacy of truth and non-violence.

The Swatantra Party holds that democracy is best served if every political party allows freedom of opinion to its members on all matters outside the fundamental principles of the party. It, therefore, gives its members, full liberty on all questions not falling within the scope of the principles stated above.

CURRENT POLICIES

Chinese Aggression :—While the Party has yet to formulate its policy in regard to India's international relations, the Chinese aggression has created a crisis in the field of national defence which calls for a firm and vigilant policy being pursued. When India's territorial integrity has been violated and its soil occupied by a communist power, the concept of non-alignment has little meaning. India's policy therefore needs to be reviewed and brought into closer relation to the realities of the international situation.

Among the measures the Party considers necessary for ensuring the country's security are the settlement of outstanding issue with Pakistan for collaboration in the defence of the subcontinent; collaboration with the countries of South and South-East Asia with a view to concerted measures for the security of the region, and vigilance against infiltration and fifth column activities.

Labour :—The Party is not satisfied with the present position of trade unions, many of whom are playthings in the hands of political parties. Being opposed to the domination of trade unions by political parties, the Party will not join the race to establish control over trade unions, though its members will always be ready to help in all possible ways.

The Party stands for a good day's wage for a good day's work.

The Party accepts the workers' right to organise themselves and to improve the conditions of their life and work through collective bargaining, which also connotes the right to strike. The Party stands for consultation and closer association between workers and the management of individual concerns.

Students :—The Party is of the view that whilst, even before graduation, students should acquire some knowledge of the trends of political thought, they should, while engaged in college life, abstain from active participation in the furtherance of any political party. Whatever other parties may be doing, the Swatantra Party is of the view that there should be no encouragement given to the division of students into groups related to the political parties of the country.

States Reorganisation and Boundaries :—The Party is not committed to any partisan stand in regard to the issue of State reorganisation and boundaries, whether in regard to the agitation for Punjab Suba, Hariana or Vidarbha. In issues of this local nature, every individual member of the Party is left free to express his own views so long as he does not do so in the name of the Party. The Party, however, deprecates the use of repressive police measures, as in the case of the arrest of Master Tara Singh and the Akalis, to suppress a particular point of view. It regards such repression as an infraction of civil liberties and a violation of Fundamental Rights.

The Party's Election Manifesto for the 1962 General Elections will be adopted at its next National Convention which is tentatively scheduled to be held in Agra on November 19 and 20, 1961.

SOME LAST MINUTE CHANGES

Belgian Ambassador in India : H. E. Mr. Andre Wendelen is appointed.

Bihar Land Bill : The Bihar Legislative Assembly passed the Land Reforms Bill, 1959, on Sept. 4, 1961. The Bill provides for ceilings of 20, 30, 45 and 50 acres according to the facility and availability of irrigation.

Indian Air Lines Corporation : Makes a profit of Rs. 7 lakhs in 1960-61.

University Grants Commission : Chairman : D. S. Kothari. N. N. Wanchoo is no more member, S. Bhoothalingan, I.C.S., has taken his place.

Nagaland : Col. G. S. Puri appointed Commissioner.

The present Commissioner Mr. M. Ramunni appointed Administrator, Laccadives. Mr. T. N. Angami elected Chairman, Nagaland Interim Body.

Indian and Eastern Newspaper Society : Mr. A. B. Nair is President.

Greater Bombay Corporation

The actual figures for 1960-61 could not be given as they were not available at the time of going to press.

Kerala : Mr. Justice M. S. Menon is Acting Chief Justice.

Mr. P. L. Bhandari is appointed Ambassador to Mexico.

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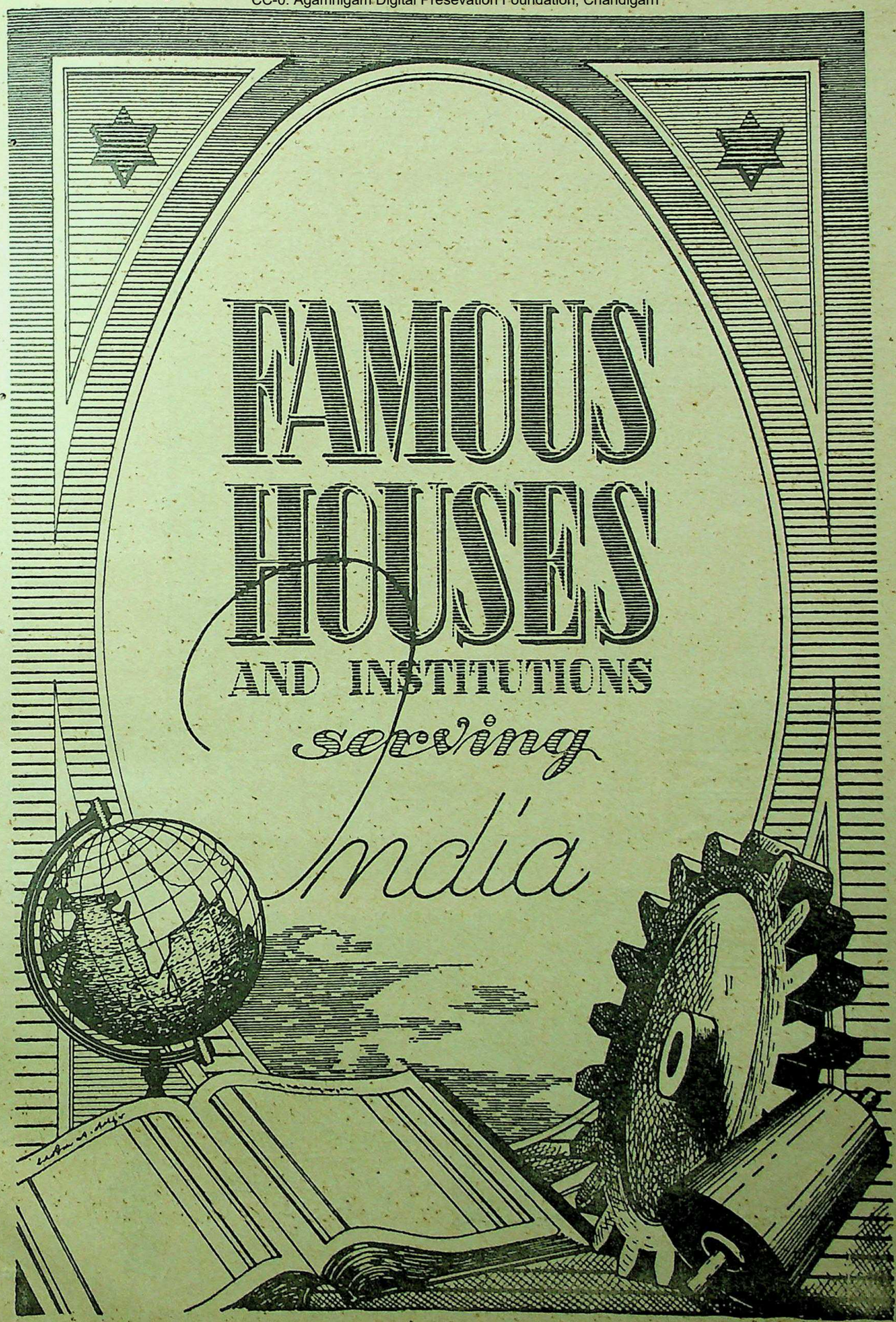

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Not a meeting like any other. From it emerged the decision to make something new in India — giant rolls of conveyor belting, perhaps, or outsize earthmover tyres — something that the country needs to keep pace with the world. And so it has been with Dunlop since they made the first pneumatic tyres in India. Today Dunlop manufacture a bewildering variety of tyres and tubes alone; Dunlopillo; bicycle rims; belting; hose; industrial adhesives; and a great range of automobile accessories.

Ever pressing forward to new targets, new ideas — this is the substance behind the new Dunlop symbol.

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Alive to the nation's growing needs, the Mafatlal Group strides forward hand in hand with the country's economic and industrial progress. Today, the Group produces a wide range of products—*textiles, JUTE, sugar, dyes and chemicals*—for all types of people throughout the land.

SHORROCK, Ahmedabad
NEW SHORROCK, Nadiad
STANDARD, Bombay
STANDARD, Dewas
NEW CHINA, Bombay
SASSOON, Bombay
NEW UNION, Bombay
SURAT COTTON, Surat
MAFATLAL FINE, Navsari
GAGALBHAI JUTE, Calcutta
INDIAN DYESTUFF, Bombay

MAFATLAL GROUP

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J. B. ADVANI & CO. PRIVATE LTD.

ESTABLISHED 1908

HEAD OFFICE : BOMBAY

IN 1908, three intimate friends, Kanwalsing Pohumal, Vasanmal Kishenchand and Jotsing Harising, formed themselves into a Company called J. B. Advani & Company with a view to specializing in the import of Paper and Printing Materials. This Concern was the first of its kind in Sind. The pioneers, who envisaged a great future for this line of business, opened an office in Karachi. In a very short time their confidence was justified and the venture became a huge success. The markets within reach having been tapped to the fullest extent, a Branch was opened in Bombay in 1921. In spite of the very keen competition that usually prevails in Bombay, which is the premier and largest paper market in India, the Company very soon became one of the leading firms in the line with its business growing in volumes from year to year.

In 1925, the proprietors decided to convert their firm into a Private Limited Company—J. B. Advani & Co. Ltd.—with a capital of Rs. 6,00,000.

In 1925, the management began to explore the Punjab market more energetically with a view to developing the business handled by the Head Office at Karachi and a Branch was accordingly opened in Lahore. This was followed by the opening of a Branch in Madras in 1927, which has made steady progress year by year. Three years later, another Branch was opened, this time in Calcutta. Branches have since been opened in Delhi, Jullundur, Cochin and Visakhapatnam.

The Directors of this Company started a new concern under the name and style of J. B. Advani & Co. (Mysore) Private Ltd. at Bangalore.

After partition of India, the Company's interests in Pakistan were converted into a non-resident company—J. B. Advani & Co. (Pakistan) Ltd., with Head Office at Karachi and a branch at Lahore.

With its network of branches in all the important centres in India, J. B. Advani & Co. Private Ltd. today reaches every notable consuming centre in India.

The Company has a Paid-up Capital of Rs. 30,00,000. Besides, it has the substantial backing of its Directors and their relatives, and the Working Capital is actually in the vicinity of Rs. 1,00,00,000. The Company, with its branches and its tradition of over a half century as the largest importers of Paper in India with a turnover of Rs. 1,25,00,000 per annum, have since the last few years entered and specialised in machinery trade, dealing in Refractory Products, Arc & Resistance Welding Machinery & Equipment, Machine Tools, Plate & Sheet Metal Working Machinery, Building Machinery, Graphite Electrodes, all precision Machines to manufacture clocks, Time-pieces, watches and parts, bicycle parts, Refrigerator parts, etc. of Swiss and German origin, Gas or Oil fired Furnaces, Printing Inks, etc. and is open to take up representation of Indian and foreign manufacturers of Paper and Machinery. The Company also exports specially Tea, Textiles and Malabar Hill products.

In 1951 some of the Directors jointly started a modern Printing Ink Factory in collaboration with foreign experts at Bhandup, Bombay and today J. B. A. PRINTING INKS PRIVATE LIMITED have their vast clientele spread all over India and the neighbouring countries.

Another enterprise with which they are associated is the one for the manufacture of Welding Electrodes, probably the first major attempt in this field of industry in India. In partnership with the Oerlikon Machine Tool Works (Messrs. Buehrle & Co.), Zurich, Switzerland, the world famous manufacturers of Welding Electrodes, a new company has been floated under the name of J. B. ADVANI-OERLIKON ELECTRODES PRIVATE LTD. with 80 per cent of the share capital subscribed by J. B. Advani & Co. Private Ltd. With an uptodate factory and most modern production line, this factory, situated at BHANDUP (Central Rly.), Greater Bombay, is producing now some of the best Welding Electrodes in the world. They have amongst their patrons, Government, Railways, Shipyards, and Great Steel fabricators of India.

A third enterprise with which they are connected is the one for the manufacture of Drinking Straws and Waterproof Kraft Paper. Messrs. IDEAL WRAPPERS PRIVATE LTD. have the leading Aerated Water manufacturers and Textile Mills as their patrons. This factory is also located at Bhandup.

Now they have their own factory at Hay Bunder, Sewri, manufacturing Arc Welding Transformers accepted by users as perhaps some of the best, comparable with similar types manufactured in advanced Western countries. They also manufacture welding fluxes.

Managing Directors :

J. T. LALVANI, B.A., H. K. MALKANI, L. V. MALKANI, B. J. ADVANI, I. T. MIRCHANDANI

Branches : CALCUTTA — DELHI — MADRAS — JULLUNDUR — COCHIN — VISAKHAPATNAM

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W. H. BRADY &

THE foundations of this famous House were laid in 1895 in Bruce Lane, Bombay, when the late Mr. W. H. Brady in partnership with the late Mr. J. F. Bradbury commenced business as Machinery Agents and Importers, and Advisers on all technical matters relating to the Cotton Textile Industry.

The period was one in which Cotton Mills were on the increase and as Mr. Brady and Mr. Bradbury were two of the best known Mill Managers of the time, their practical experience and expert knowledge of mill management and machinery helped considerably towards the firm's progress.

Within a decade, Bradbury Brady & Co. (as the firm was then styled) had extended its activities far beyond its initial business of machinery importers, for in 1900 the Empire Dye Works was started and in 1901 it took up the agency of the Colaba Land & Mill Company. This was rapidly followed by the agencies of the New City of Bombay Mills, the New Great Eastern Mills, the Sun Mill (now Dhanraj Mills) and the Bradbury Mills.

In 1912 however, a change was made when Mr. Bradbury (in Partnership with Mr. Knowles) restricted his business to the agencies of these Mills under the style of Bradbury & Co., while Mr. Brady started an independent business as a Machinery Agent (with Mr. Kay, Mr. Lakin and Mr. Johnson as junior partners) under the style of W. H. Brady & Co.

In 1913, the latter firm was converted into a private limited liability company under the name and style of W. H. Brady & Co., Ltd., with its Head Office in Bombay. Three years later, on the death of Mr. Bradbury, it took over the agencies of the Empire Dye Works, the New City of Bombay Manufacturing Co., Ltd., the New Great Eastern Spinning and Weaving Co., Ltd., and the Colaba Land & Mill Co., Ltd.

On the retirement of Mr. Brady in 1922, Sir Joseph Kay became Managing Director of the firm and remained in that position until his death in October 1958. The Company made immense progress under Sir Joseph Kay's management. In 1928 the capital was increased and the Company commenced to operate on the joint stock principle without any restrictions on its shares. Today, the operations of the concern cover an extremely wide field, for in addition to its long established textile association, it has extended its activities over other classes of industry such as Sugar, Engineering, Printing, Insurance, etc.

The management of the Company passed into the hands of Messrs. Shapurji Pallonji Mistry in 1959, who have brought to bear on the Company's affairs the considerable skill and experience, acquired in many other fields of industry and business.

From time to time, branches have been established in other parts of India until the Company now has offices in Calcutta, Madras, Kanpur, Ahmedabad, Coimbatore, Delhi and Manchester (England).

TEXTILES.—The Company has a very large Textile Machinery Import Department which carries comprehensive stocks of the manufactures of a number of British and American firms. These firms are recognised everywhere as makers of the highest repute and amongst them may be mentioned—The British Northrop (Sales) Ltd., Lang Bridge Ltd., Wm. Tatham Ltd. (who have a world-wide reputation for Carding and Spinning machinery for cotton waste and wool), Leesona Corporation (Patentees of the famous Leesona Winding Machines), Hugh Kershaw & Sons Ltd., Cocker Machine & Foundry Co., Cook & Co. (Manchester) Ltd., Samuel O'Neill & Sons Ltd., F. E. Rudman & Co., Ltd., Tragasol Products, Ltd., etc., etc.

The Textile Department is also keenly alive to all changes which constantly take place in the manufacture of Cotton and Silk goods. It is always ready to advise on these changes, suggest up-to-date systems, and to supply machinery in conformity with them.

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COMPANY, LIMITED

Being closely associated for more than sixty years with the Cotton Textile Trade in India, the Company has undertaken from time to time, many large contracts and in several cases has executed orders for complete Cotton and Woollen Mills to the entire satisfaction of the purchasers.

In addition to the vast textile machinery business the Company also manages an up-to-date Dyeing and Bleaching Works known as The Empire Dyeing & Mfg. Co. Ltd.

ENGINEERING.—The Company has a very large general Engineering Department. It carries comprehensive stocks of the manufactures of a number of British Firms, amongst whom may be mentioned Herbert Morris Ltd., The Renold Chains Ltd., Hopkinsons Ltd., Geo. Kent Ltd., The Andrew Machine Construction Co., Ltd., G. & J. Weir Ltd., Davidson & Co., Ltd., Norris Henty & Gardners Ltd., Dicks Asbestos & Insulating Co., Ltd., Ashworth & Parker Ltd., Hick Hargreaves & Co., Ltd., Thos. Broadbent & Sons Ltd., Hoffmann Sprinkler Co., Ltd., etc., etc.

Messrs. W. H. Brady & Co. Ltd., in collaboration with the leading manufacturers of Lifting & Conveying equipments in the United Kingdom, Messrs. Herbert Morris Ltd. floated a new undertaking under the name of Morris & Brady. Ltd. manufacturing these articles in this country strictly in accordance with the specifications and formulae of the United Kingdom Principals.

In keeping with the development of the Engineering Industry in India, a company under the name of The Brady Engineering Co., Ltd., was formed in 1946 with the object of manufacturing wholly or partially, under licence from their various Principals, such goods as have been imported in the past but which could be readily manufactured in this country.

SUGAR.—In their General Department Messrs. W. H. Brady control the management of The Belapur Co., Ltd. This pioneer Company is not only one of the largest of its kind, but is the most up-to-date in India and is capable of crushing 1,000 tons of cane per day.

It manufactures pure Indian sugar by modern methods from cane which is grown entirely on its own estate.

PRINTING.—Messrs. W. H. Brady control the well-known Caxton Press (G. Claridge & Co., Ltd.) which undertakes all kinds of Printing, Lithography, Die-Stamping, Bookbinding, etc.

INSURANCE.—Insurance is another important line of business with which the Company has been connected for a considerable number of years. The Company acts as Agents of first class British and Indian Insurance Companies, and are always in a position to give advice on, and transact practically all classes of Insurance business with the sole exception of life.

OTHER INTERESTS.—The Company handles several important agencies for goods which are consumed on a very large scale in India, and has built up an extensive connection for its imports of such proprietary articles as Nicholson Files, Nettlefold Screws, Signode Steel Strapping, etc.

CONCLUSION.—In a brief resume of the Company's operations it is impossible to enumerate a complete list of firms for whom they act as representatives, but Messrs. W. H. Brady are well-known to be a live and progressive House, staffed with experts in each branch, and possessing close connections with the Textile Trade, Engineering, the Sugar Industry, Insurance, and manifold other interests.

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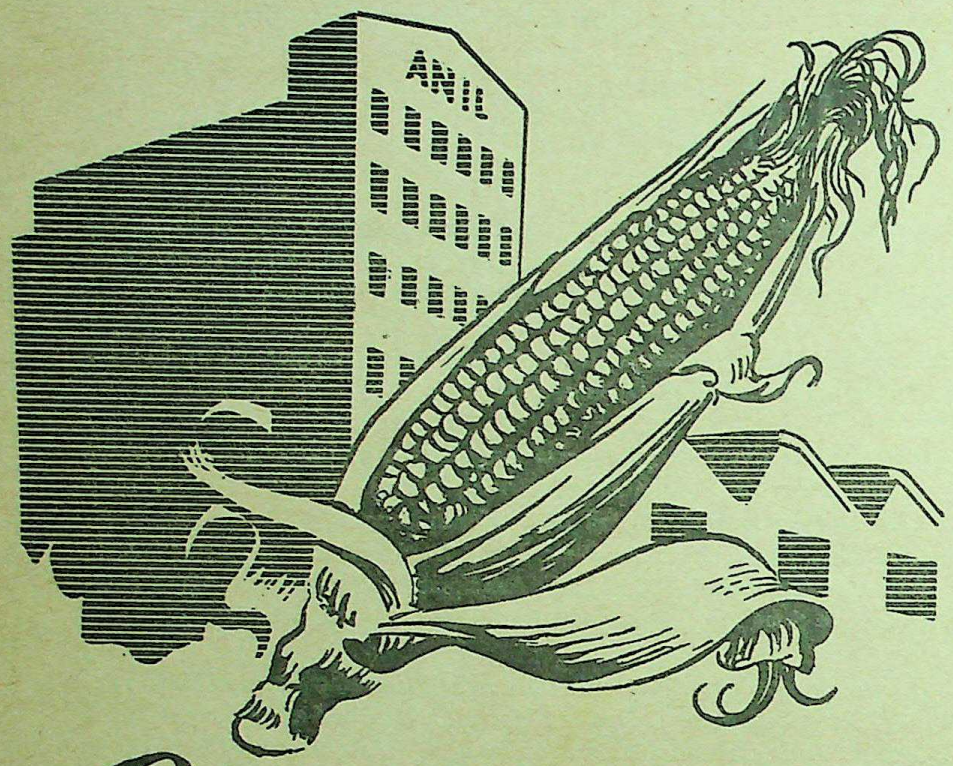

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CEILING ON EXISTING HOLDINGS—LEVEL OF CEILING

State	Level of ceiling	Remarks
Andhra Pradesh :	4½ times the family holding *i.e.*, 27 to 324 acres (a family holding varies from 6 acres of wet land bearing settlement taram No. 1 or settlement classification of 15 annas and above to 72 acres of dry land with taram above 5 and chalka soils with assessment below 8 annas).	Allowance made for size of family—additional one family holding for every member in excess of five. There is no outside limit.
Assam :	50 acres	No allowance for size of family.
Bihar :	(*a*) land irrigated by flow irrigation work constructed and maintained by Government : .. .. 20 acres (*b*) land irrigated by lift irrigation work or tubewell constructed or maintained by Government : 35 acres (*c*) land which is orchard and other lands not included in any other category : .. .. .. 40 acres (*d*) diara land : .. .. .. 50 acres	Allowance made for size of family subject to an outside limit of twice the ceiling area.
Gujarat :	(*i*) dry crop land (including land irrigated from non-Government sources) .. .. .. 56 to 132 acres (*ii*) rice land and seasonally irrigated land .. .. 38 to 88 acres (*iii*) perennially irrigated land 19 to 44 acres (The ceiling varies in different local areas as specified in the Act)	No allowance for size of family.
Jammu and Kashmir :	22¾ acres..	
Kerala :	15 acres of double crop paddy land or equivalent area (equivalent areas vary between 15 to 37½ acres)	No allowance for size of family. Allowance made for size of family subject to an outside limit of 25 acres of double crop paddy land or its equivalent area. For an unmarried adult person the ceiling limit would be half the ceiling area.
Madhya Pradesh :	28 standard acres (a standard acre means one acre of perennially irrigated land, 2 acres of seasonally irrigated land and 3 acres of dry crop land). A Bill has been passed to reduce the limit to 25 standard acres and outside limit for a larger family to 50 standard acres.	Allowance made for size of family subject to an outside limit of 53 standard acres.
Madras :	30 acres of first class wet land and 120 acres of unirrigated land.	*Exemptions :* Plantations and religious trusts exempted. Efficiently managed farms, lands of charitable and educational trusts and sugar factory farms not specifically exempted. There is provision of setting up a sugar factory board, whether individual factories should or should not be exempted from ceiling.

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State	Level of ceiling	Remarks
Maharashtra :	(*i*) perennially irrigated land by flow irrigation : .. .. 18 acres (*ii*) seasonally irrigated lands by flow irrigation (*a*) irrigated for two seasons : 27 acres (*b*) irrigated for one season : 48 acres (*iii*) dry lands (including lands irrigated from non-Governmental sources) : .. 66 to 126 acres in different local areas	Allowance made for size of family subject to an outside limit of twice the ceiling area.
Mysore : (Bill as reported upon by the Select Committee) ..	27 standard acres (standard acre varies from one acre of wet land with assured irrigation on which two paddy crops can be raised to 8 acres of dry or garden land with less than 25 inches of annual rainfall).	Allowance made for size of family subject to outside limit of twice the ceiling area.
Orissa :	25 standard acres (standard acre varies from one acre of perennially irrigated land which is assured of water supply for at least three crops in a year to 4 acres of dry land).	Allowance made for size of family subject to an outside limit of twice the ceiling area.
Punjab : Punjab area : ..	30 standard acres not exceeding 60 ordinary acres. In case of displaced persons, 50 standard acres not exceeding 100 ordinary acres.	No allowance for size of family.
PEPSU area : ..	30 standard acres not exceeding 80 ordinary acres. In case of displaced persons, 40 standard acres not exceeding 100 ordinary acres. (Standard acre means an acre of land yielding between 10 and 11 maunds of wheat per acre matured).	No allowance for size of family.
Rajasthan :	30 standard acres (standard acre means land yielding 10 maunds of wheat or any other crop of equal value).	Allowance made for size of family subject to an outside limit of 60 standard acres.
Uttar Pradesh :	40 acres of fair quality land (an acre of fair quality land means an acre of land with hereditary rate of rent exceeding Rs. 6 ; 1½ acres with rate between Rs. 4 and Rs. 6 ; and 2 acres with rate at Rs. 4 per acre or less).	Allowance made at 8 acres of fair quality land for each member in excess of five subject to an outside limit of 64 such acres.
West Bengal :	25 acres.	No allowance for size of family.
Delhi :	30 standard acres (standard acre varies from 4/5th of an acre of irrigated land to 2 acres of Barani land).	Allowance made for size of family subject to an outside limit of 60 standard acres.
Himachal Pradesh :	30 acres in district Chamba and land assessed to Rs. 125 in other districts. ..	No allowance made for size of family.
Manipur :	25 acres.	Allowance made for size of family subject to an outside limit of 5 acres.
Tripura :	25 standard acres (standard acre varies from one acre of nal or lunga land to 3 acres of tilla land).	Allowance made for size of family subject to an outside limit of 50 standard acres.

NAGALAND INTERIM BODY

The following is the list of members of the Nagaland Interim Body with names of the tribe or area from which they are selected :

Chairman : T. N. Angami.

P. Shilukaba, Chubatoshi Jamir, Chetan Jamir (*AO*) ; Kilongba, Pambaku (*Yimchunger*) ; Akum Imlong, Tochi Chang (*Chang*) ; Phako, Khamang (*Khimungan*) ; Kheloshe, N. Jakhalu, Hokishe, Kiyekhu (*Sema*) ; Levi, Silie Haralu, Sadeh (*Zeliang Kuki*) ; Devlal Mech, Vilhume Angami (*Dimapur Area*) : Daniel Rengma, Lothi Rengma (*Rengma*) ; Mhondamo, Nchemo, Tsenlamo, Etssorhomo (*Lothe*) ; Doss, D. B., (*Pochurry*) ; P. Demo, Vesatso, Kachu (*Chakhesang*) ; Panting, Hepong (*Phom*) ; Litingse, Chaseto, Lipikui (*Sangtam*) ; Alu, Teiwang, Khan.ching, Yaman (*Konyak*) ; Jasokie, T. N. Angami, T. Chulie, K. Kheya (*Angami*).

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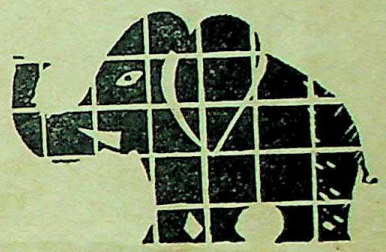

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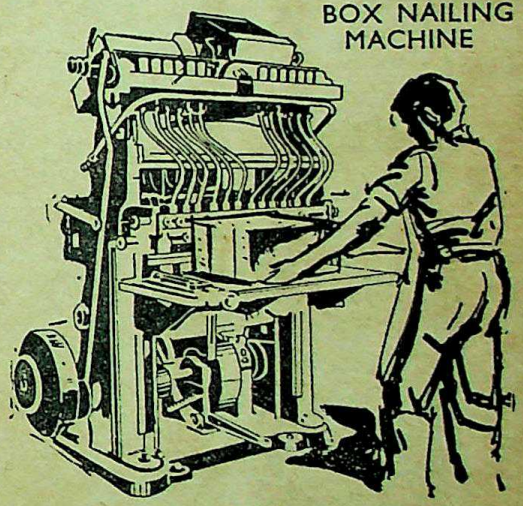

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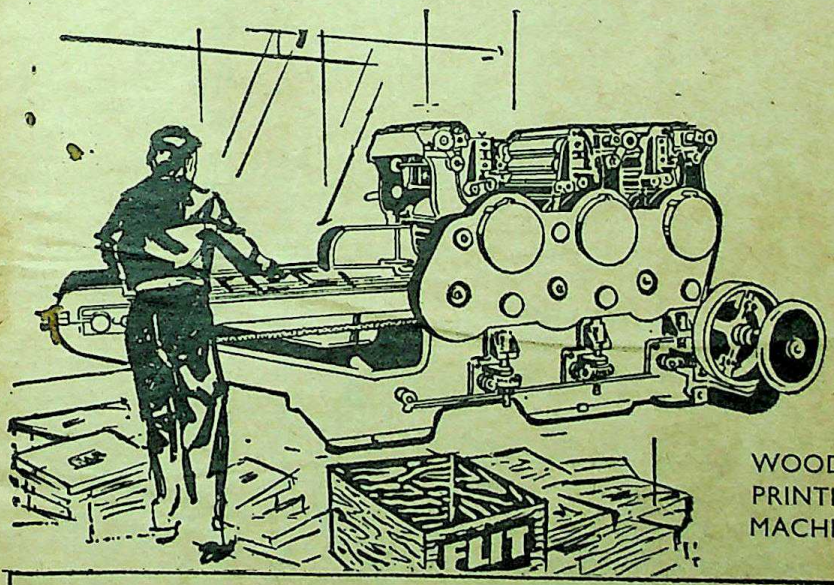

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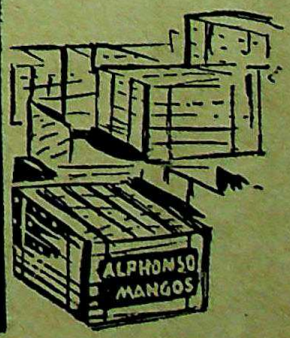

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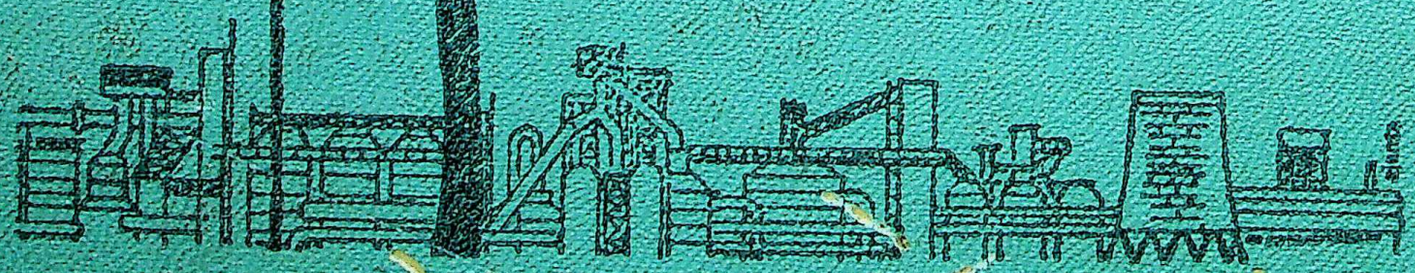
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